- Monday, 25 February 2013
- 2 (10.00 am)

1

- 3 THE CORONER: Yes, good morning everybody. Please sit down,
- 4 thank you. Yes, are there any matters that we need to
- 5 raise before we begin the evidence this morning? In
- 6 that case, please might we invite the jury in. Yes,
- 7 Mr Atkins, good morning.
- 8 MR ATKINS: Good morning, madam. The first witness will be
- 9 Mr David Laing.
- 10 THE CORONER: Thank you.
- 11 (In the presence of the Jury)
- 12 THE CORONER: Members of the jury, good morning. We're
- 13 going to begin the evidence this week with evidence from
- 14 people who were involved with the supply of the panels
- about which we've already heard quite a lot, and of the
- 16 window frames and so on. We'll be continuing with the
- 17 evidence during the course of the week, though I'll tell
- 18 you about that later. So yes, the first witness I think
- is Mr David Laing from Trespa?
- 20 MR ATKINS: Madam, yes.
- 21 THE CORONER: Yes, would you like to come forward, Mr Laing.
- DAVID Laing (affirmed)
- 23 THE CORONER: Yes, good morning, Mr Laing. Are we
- 24 pronouncing your name correctly?
- 25 A. Yes.

- 1 THE CORONER: Thank you, do sit down. Do help yourself to
- 2 a glass of water.
- 3 A. Thank you.
- 4 THE CORONER: Thank you very much. The sound in this room
- is not always easy. You see that the microphones are on
- 6 in front of you and they certainly help. If you direct
- your answers across the rooms towards the members of the
- 8 jury who are sitting opposite you, then that will help
- 9 them to hear what you're saying and also help to keep
- 10 you close to the microphones.
- 11 A. Thank you.
- 12 THE CORONER: Thank you. Mr Atkins, who is standing, is
- 13 going to ask questions on my behalf and then there will
- 14 be questions from others.
- Just to remind everybody that I think there will be
- 16 a fire alarm test at 11 o'clock this morning. There
- 17 normally is on a Monday morning, so provided the sound
- only sounds for a short time we don't need to do
- 19 anything. We can carry on soon after. Thank you.
- 20 Questions by MR ATKINS
- 21 MR ATKINS: Can you please tell the court your full name?
- 22 A. David Harvey Laing.
- 23 Q. Mr Laing, is it right that you are a country manager for
- 24 a company called Trespa UK Limited?
- 25 A. That is correct, yes.

- 1 Q. Is it right that Trespa is in fact a larger organisation
- 2 and that it is mainly based in Holland?
- 3 A. Yes, the head office is in the Netherlands and Trespa UK
- 4 is a wholly owned subsidiary.
- 5 Q. Mr Laing, what I'd like to do, please, is to ask you
- 6 questions in stages so that we can build up, first of
- 7 all, an understanding of what it is that your company
- 8 produces, the characteristics of the material that it
- 9 produces and what it was used for at Lakanal House and
- 10 how that came about.
- 11 Could I ask you first of all, please, to turn to
- 12 tab 18 of the jury bundle. Mr Clark will hand that to
- 13 you now. (Handed) We have there three pages which are
- 14 intended to illustrate the facade of Lakanal House and
- 15 we have three --
- 16 THE CORONER: Sorry, could we just stop a moment because the
- 17 members of the jury are just turning up the pages in
- 18 their bundles. Yes, thank you.
- 19 MR ATKINS: Yes, Mr Laing, we have three pages and they each
- 20 illustrate a different section of the facade of
- 21 Lakanal House. So you see on the first page we have the
- 22 bedroom, on the second page the kitchen on the upper
- floor, and on the third page the lounge on the upper
- floor. We can deal in more detail a little later on
- 25 with the characteristics of the materials used in each

- 1 place, but it may be helpful just to use this diagram to
- 2 help us get our bearings and to understand where
- 3 materials which were manufactured by Trespa were used.
- 4 Have you seen these diagrams before?
- 5 A. Yes, I have.
- 6 Q. If we just look, please, at the first page, the bedroom
- 7 page, we can see that the upper section of the facade is
- 8 glazed. Do Trespa have anything to do with glazing?
- 9 A. No.
- 10 Q. We can see that the facade is made up inside these grey
- 11 sections marked as frames. Do Trespa manufacture frames
- 12 for facades?
- 13 A. No.
- 14 Q. Then we can see, at the bottom of that section, there
- are two panels shown in green and marked with the number
- 16 2, and if you look on the right-hand side there's a key
- 17 which explains that they are composite panels with
- insulation core. Could I just ask you, please: is it
- 19 your understanding that the composite panels which were
- used at Lakanal House had, on either side of them,
- 21 sheets of three-millimetre thick Trespa Meteon?
- 22 A. It's my understanding that the panels or composite
- 23 panels had three-millimetre HPL with an insulation core
- and there's a high probability that the material came
- 25 from Trespa.

- 1 Q. Just so that we're clear, do Trespa manufacture the
- 2 insulation material that goes between the two sheets of
- 3 a panel such as that?
- 4 A. Trespa neither manufacture the insulation material or
- 5 the composite panels.
- 6 Q. Again, we can come back to the detail of this a little
- 7 later on, but in outline is it right that Trespa produce
- 8 this material in two grades known as standard grade and
- 9 fire-retardant grade?
- 10 A. That is correct.
- 11 Q. And in this instance the material found in these
- 12 composite panels was the standard grade?
- 13 A. From all our records through order acknowledgements,
- 14 deliveries, it is standard material.
- 15 Q. If I could ask you, please, then, to turn over to the
- 16 second page, which is the kitchen. We can see that
- there are, again, a number of panels marked with
- a number 2 on a green background. Just to explain, the
- 19 top diagram shows the facade -- so that's everything
- 20 which is in the same vertical plane -- and then the
- 21 bottom diagram shows the same thing but with the balcony
- 22 panels in front of them, if that makes sense. So
- looking at the panels which are marked with a 2, is it
- 24 your understanding that that was the same material that
- 25 we saw in the first diagram?

- 1 A. Yes, it is.
- 2 Q. So in other words the composite panels, as far as you
- 3 have been able to tell, had three-millimetre standard
- 4 grade Trespa on either side of some insulation material?
- 5 A. Correct.
- 6 Q. Looking, then, at the bottom of those two diagrams,
- 7 still on the second page, there are two panels marked in
- 8 darker green with the number 5. Again, if we look to
- 9 the key at the right-hand side they are marked as
- 10 balcony panels. In summary, is it your understanding
- 11 that the balcony panels were made out of, again, Trespa
- sheeting, but this time 13 millimetres thick?
- 13 A. Again, from checking customer records, we believe that
- 14 material is Trespa.
- 15 Q. Does it appear to be the case that again that material
- 16 was the standard grade rather than the fire-retardant
- 17 grade?
- 18 A. Yes, also from checking customer records, the material
- is standard grade.
- 20 Q. You've explained that in the case of the composite
- 21 panels, they would be manufactured -- that is, put
- 22 together -- by somebody other than Trespa. In the case
- of the balcony panels, is it correct that that is
- 24 a finished product which Trespa manufactures?
- 25 A. Yes, the 13-millimetre is a finished product

- 1 manufactured by Trespa.
- 2 Q. Could I ask you then, please, to turn on to the third
- 3 page, which is the diagram of the lounge facade. We
- 4 have the same thing: the upper diagram shows the facade
- 5 itself and the lower diagram shows the facade but with
- 6 the balcony panels as a screen in front of them. This
- 7 time we can see that there is the material marked
- 8 number 2 in the lower panel of the door in the top
- 9 diagram, and in the bottom diagram again we have the
- 10 balcony panels made of the material marked 5. In
- 11 summary, then, we are looking at two different sorts of
- 12 material across those three facade sections; is that
- 13 right?
- 14 A. Correct, yes.
- 15 Q. Would it be correct to describe the material that Trespa
- 16 manufacture as high pressure laminate sheeting?
- 17 A. Yes, that is a generic term for that type of product.
- 18 Q. Can you just tell us, please, in simple terms what that
- 19 material is made of?
- 20 A. The panel is made of 70 per cent cellulose fibre and
- 21 30 per cent thermosetting resins.
- 22 Q. Is it right that that merely itself is sometimes
- referred to, for shorthand, as "Trespa"?
- 24 A. Yes, it could be.
- 25 Q. Do Trespa manufacture any products which contain metal?

- 1 A. No products made of metal are manufactured by Trespa.
- 2 Q. So if we take the high pressure laminate sheeting, which
- 3 you say is made of cellulose fibre and resin, is it
- 4 correct that that material is then available in a range
- of thicknesses and textures and colours?
- 6 A. That is correct, yes.
- 7 Q. And that the range of thicknesses ranges from something
- 8 like three-millimetre, very thin, at the bottom, to
- 9 perhaps 25-millimetre at the top end?
- 10 A. That's correct, yes.
- 11 Q. Out of that range of thickness, three millimetres to
- 12 25 millimetres, which thicknesses are sold as finished
- 13 products?
- 14 A. Any product from six-millimetre and above is sold as
- a finished product and certified. Any product less than
- 16 six-millimetre is an unfinished product and is not
- 17 certified.
- 18 Q. I'll come back, if I may, to ask you about certification
- 19 a little later on. Just thinking about the question of
- 20 whether something is a finished product or not, is it
- 21 the case first of all that the Trespa sheeting, the high
- 22 pressure laminate sheeting, has no insulating
- 23 properties?
- 24 A. That is correct.
- 25 Q. In other words, if you use it in a wall, for example, it

- won't help to keep you warm?
- 2 A. No, its insulation properties are negligible.
- 3 Q. So in the case of, say, for the sake of argument,
- 4 15-millimetre thick Trespa sheeting, what sorts of
- 5 applications are there in construction for material of
- 6 that sort?
- 7 A. That material would normally be used as balcony
- 8 application or on a facade application as a wall
- 9 cladding.
- 10 Q. Is it a material which could be used -- or which would
- 11 be used -- as part of a facade such as the bedroom
- facade we have on page 1 of tab 18?
- 13 A. Do you mean as a composite panel?
- 14 Q. No, by itself. Would it be used for that sort of
- 15 purpose?
- 16 A. It would not be used for that purpose.
- 17 Q. Why not?
- 18 A. Because (a) it has no insulation qualities, (b)
- 19 Trespa -- without getting too technical, Trespa is
- 20 manufactured in thicker panels as a balanced panel, and
- 21 it requires to have the air on the outside and the
- inside and the humidity the same to keep it in balance.
- 23 Q. We've looked at the thicker Trespa. What about the
- thinner material, the three-millimetre Trespa. Is that
- 25 sold as a finished product?

- 1 A. That is sold as a part-finished product and is not
- 2 certified.
- 3 Q. In your experience, is it used as a standalone building
- 4 material?
- 5 A. No.
- 6 Q. Why not?
- 7 A. It is not a balanced product in three-millimetre format
- 8 so it cannot be applied on a facade. It has to be
- 9 bonded to other materials to form a balanced composite
- 10 panel.
- 11 Q. Is it correct that the predominant use, in fact, in the
- 12 industry of the thinner three-millimetre sheeting is in
- the manufacture of composite panels?
- 14 A. That is correct, yes.
- 15 Q. In other words, panels which have some thin sheeting
- 16 either side and some other material in between?
- 17 A. That is correct, yes.
- 18 Q. I'd like to ask you, please, now, about the fire-related
- 19 properties of these materials that we've been looking
- at. First of all, so far as you are aware, are high
- 21 pressure laminate sheets combustible?
- 22 A. Yes.
- 23 Q. Is it possible, so far as you're aware, to supply
- 24 a non-combustible high pressure laminate sheet?
- 25 A. It is not possible to produce a high pressure laminate

- 1 as a non-combustible product.
- 2 Q. Can you help us, in simple terms, with why that is?
- 3 A. Basically because of the make up of 70 per cent
- 4 cellulose fibre, which is wood-based or paper-based.
- 5 Q. In other words, the materials that the sheets are made
- of are inherently combustible materials?
- 7 A. That's correct.
- 8 Q. The jury's attention has already been drawn in this case
- 9 to the distinction between two sorts of fire properties
- 10 a material might have. The first is fire-resistant,
- 11 which is the spread of fire through the material from
- one side to the other, and the second is something
- 13 called the surface spread of flame, or fire-retardance,
- 14 which is to do with fire moving across the surface of
- the material. Is that a distinction that you're
- 16 familiar with?
- 17 A. Yes, it is.
- 18 Q. Are any of the high pressure laminate sheets that Trespa
- 19 manufacture marketed as being fire-resistant; that is,
- 20 as stopping fire passing through the material?
- 21 A. No, the designation of FR is fire-retardant. We do not
- 22 sell fire-resistant products.
- 23 Q. A little earlier on we touched on the fact that there
- are two grades of material supplied, standard grade and
- 25 fire-retardant grade. That's known as FR grade; is that

- 1 right?
- 2 A. That's correct.
- 3 Q. What, in fact, is the difference, again in simple terms,
- 4 between the two substances?
- 5 A. Do you mean a difference in manufacture or the
- 6 difference in --
- 7 Q. In terms of manufacture, what goes into them?
- 8 A. There's a different resin used in the manufacture of the
- 9 FR product.
- 10 Q. Earlier, you talked about some of the products being
- 11 certified and others not being certified. If we just
- 12 follow that through, is it right that thicknesses of
- 13 six-millimetre and above are tested for their
- 14 fire-retardant properties, and if they pass the
- 15 necessary tests they're marketed as being
- 16 fire-retardant?
- 17 A. Product from six-millimetre and above are tested for
- 18 fire reaction, their reaction to fire, and are certified
- 19 as such.
- 20 Q. There's no need to go into the technical detail for now,
- 21 but is it correct that that testing is based on a test
- 22 specified in the British Standard?
- 23 A. Yes, the panels in the past have been tested under BS476
- 24 parts 6 and 7.
- 25 Q. Is it right that in the case of thicknesses below six

- 1 millimetres, your company takes the view that the test
- 2 requires that they have to be tested with the material
- 3 that they're going to be bonded to?
- 4 A. Yes, my understanding is that a composite panel should
- 5 be tested in its final composition, ie that which is to
- 6 be glazed on a building.
- 7 Q. So if we think about the three-millimetre panels, you've
- 8 told us that that would be used by somebody else as part
- 9 of a composite panel. Does that mean that the person
- 10 who manufacturers the composite panel could carry out
- 11 the British Standard test on the finished panel but that
- 12 Trespa would not test the three-millimetre sheet by
- 13 itself?
- 14 A. Trespa do not test the three-millimetre sheet by itself,
- 15 because it would never be used on a building in that
- 16 format. It's our belief that the responsibility for
- 17 testing the completed product lies with the manufacturer
- of that product, who would then have knowledge of the
- 19 insulation used.
- 20 Q. So does it follow for that reason that Trespa do not
- 21 advertise or market thicknesses below six-millimetre as
- 22 being fire-retardant?
- 23 A. That is correct, yes.
- 24 Q. Could I ask a slightly different question, which is
- 25 this: is it possible to make three-millimetre sheet of

- the grade which would be called fire-retardant if it
- were thick enough? Does that make sense?
- 3 A. Sorry, can you repeat the question?
- 4 Q. Trespa manufacture two grades, standard grade and
- fire-retardant grade, and you've told us that for
- 6 sheeting which is six millimetres and above it would be
- 7 tested, and if it passed the necessary test it could be
- 8 marketed as fire-retardant. Is it possible to make
- 9 a thinner sheet of that same material?
- 10 A. Yes, it is possible. My own belief is that because of
- 11 the limited thickness on three-millimetre, any use of
- 12 an FR resin would have a nominal effect on the
- performance of the panel.
- 14 Q. That is to say Trespa could manufacture the
- 15 fire-retardant grade material in a thickness of three
- 16 millimetres but you wouldn't make the claim about it
- 17 that it was fire-retardant?
- 18 A. It could be made, but again it would be a non-certified
- 19 product.
- 20 Q. Again, without going into the technical detail of the
- 21 tests, is it your understanding in outline that first of
- 22 all one could test the material under something called
- part 7 of British Standard 476 to determine the class
- for surface spread of flame, which would be from 1 to 4,
- and that in the case of a material which fell into

- 1 class 1, you could then do a second test under part 6 of
- 2 the same standard, and if the material achieved
- a sufficiently good score, then as a result of passing
- 4 those two tests it would be classed as class 0?
- 5 A. That is the testing regime that we have used in the past
- 6 in the UK for thicknesses of six-millimetre and above.
- 7 Q. You say that that's a testing regime you've used in the
- 8 past. Has the company now switched to a different
- 9 testing regime?
- 10 A. The company has now adopted the euro classification,
- 11 EN13501, as its testing format.
- 12 Q. Are the European standards an alternative system for
- 13 testing and classifying the same sorts of materials?
- 14 A. I should add that I'm not an expert in the testing of
- panels but the test -- the European classification takes
- 16 a test on three factors: burning, smoke emission and
- 17 also dripping.
- 18 Q. If we can, could we focus on the sorts of testing that
- 19 the company would have carried out in, say, 2006. Do
- 20 you know whether at that time it was the British
- 21 Standard tests that were being used?
- 22 A. That would be the British Standard tests.
- 23 Q. Is it right that the fire-retardant grade of
- 24 six-millimetres or thicker Trespa material when tested
- was found to be a class 0 material?

- 1 A. That is correct, and that's certified by an independent
- 2 test.
- 3 Q. Whereas the standard grade of the same thickness was
- found to be a class 2 material; is that right?
- 5 A. The standard grade would have a surface spread of flame
- 6 test at somewhere about class 2, which would then mean
- 7 it would not be tested for class 0.
- 8 Q. Because you would only do the second test under part 6
- 9 if the material first of all fell within class 1?
- 10 A. That's correct; you can only test the second part if it
- 11 reaches class 1 surface spread of flame.
- 12 Q. We were talking a few minutes ago about composite panels
- and the fact that the person who manufactured that panel
- 14 could, in principle, carry out this sort of testing on
- the finished composite panel. Could we just think,
- 16 please, about the sorts of factors which might have
- a bearing on the fire performance of such a panel.
- 18 Would they include, for example, the type and thickness
- of the high pressure laminate sheeting used on either
- 20 side?
- 21 A. Yes, it would depend on the thickness of the high
- 22 pressure laminate used and also the component
- 23 insulation.
- Q. Could I move on then, please, to ask you about how
- 25 Trespa's products are distributed and how people who

- want to use them could find out about them and come to
- order them and use them in their buildings. Is it
- 3 correct that these materials are in fact manufactured in
- 4 the Netherlands?
- 5 A. Yes, that's correct.
- 6 Q. What sorts of activities does Trespa UK Limited carry
- 7 out?
- 8 A. Trespa UK are responsible for the sales, promotion and
- 9 support of the products within the UK and Ireland.
- 10 Q. Do you employ a number of people in a role called
- 11 regional sales manager?
- 12 A. Yes, we normally have six regional sales managers
- throughout the UK and Ireland.
- 14 Q. Would there be occasions when, at the design stage of
- 15 a project, the designer would approach one of the
- 16 regional sales managers for advice about Trespa
- 17 products? Does that ever happen?
- 18 A. Yes, that happens on a number of occasion. 60 per cent
- of a regional sales manager's time would be with
- 20 architects.
- 21 Q. In the case of products which are not finished products,
- 22 such as the three-millimetre sheeting, would the
- regional sales managers be in a position to provide
- 24 advice about those materials?
- 25 A. They would only be in a position to offer advice on the

- 1 various finishes on those products. They would not be
- 2 in a position to advise on thermal performance or any
- 3 other performance criteria.
- 4 Q. Why is that?
- 5 A. Simply because we are not involved in the manufacture of
- 6 the end product.
- 7 Q. Of the composite panels?
- 8 A. Of the composite panels.
- 9 Q. In the case of the products which are finished products,
- 10 what sorts of technical advice might a regional sales
- 11 manager be able to provide?
- 12 A. In terms of the specification of thicker products,
- 13 normally our regional sales managers would be asked to
- 14 provide advice on thickness, support systems, fixing
- 15 centres and also detailing.
- 16 Q. Broadly speaking, those sound like factors connected to
- 17 the choice of the right sort of Trespa sheeting and how
- it would be installed physically at a building?
- 19 A. Yes, for the most part the decisions would be made on
- 20 advising a suitable thickness, advising fixing centres
- 21 and also ensuring that the detailing was such that the
- 22 panel was held in balance when it was applied on
- 23 a structure.
- 24 Q. What sorts of factors affect the correct thickness to
- use for a particular application?

- 1 A. It would depend upon the fixing system that the
- 2 architect would desire, whether it be a secret fix or
- 3 a visible fixing system. It would depend, in the case
- 4 of balcony panels, on the spanning of the height of the
- 5 balcony panel.
- 6 Q. Is the gist of that that if you have a wider or a taller
- 7 panel, it has to be thicker in order to remain rigid and
- 8 strong?
- 9 A. As you increase the fixing centres, then you need
- 10 a thicker panel to support itself.
- 11 THE CORONER: When you say "fixing centres", just so the
- jury understand, you're talking about the gap between
- 13 fixings?
- 14 A. Gap between fixings, distance between fixings, yes.
- 15 MR ATKINS: Would the regional sales managers be in
- a position to provide information about the fire
- 17 performance of these materials, the sorts of things we
- looked at a moment ago?
- 19 A. They would be in a position to advise on the reaction to
- 20 fire on panels from six-millimetre and above.
- 21 Q. In your experience, would your regional sales managers
- 22 provide advice about whether certain sorts of materials
- 23 would satisfy the requirements of building regulations?
- 24 A. Our regional sales managers have no specific knowledge
- of building regulations, which are very, very complex

- and vary throughout the country.
- 2 Q. Because we will hear his name a little later on, is it
- 3 correct that one of the regional sales managers at that
- 4 time was somebody called Charles Sawyer?
- 5 A. That is correct, yes.
- 6 Q. When it comes to actually selling the material, is that
- 7 done through the regional sales managers?
- 8 A. The physical sale or the specification of the product?
- 9 Q. If I want to order the product, do I place my order
- through one of the regional sales managers or not?
- 11 A. No. In the UK, we are -- we sell the material through
- 12 a network of distributors, of which there are
- 13 approximately 12 in the UK, and an installer or
- 14 a contractor would place his order with a distributor,
- 15 who would then place the order direct with Trespa in
- 16 Holland.
- 17 Q. Again, because we will see their name shortly, is it
- 18 right that a company called Vivalda are one of the
- 19 approved distributors?
- 20 A. That is correct, yes.
- 21 Q. So to buy a finished product, I would place my order
- 22 with a distributor who would obtain the material from
- 23 Holland. In the case of a composite panel, does that
- 24 mean that the manufacturer of the panel would have to go
- 25 to a distributor in order to order the thinner sheeting?

- 1 A. Yes, there are a limited number of distributors who
- 2 handle the three-millimetre, non-certified product, and
- 3 they again would place their order direct with Holland.
- 4 Q. If we could move on, then, please, to the Lakanal House
- 5 project itself. There is a bundle of chronological
- 6 documents. Could I ask you to look at page 1148, which
- is in file number 3. Mr Clark will hand that to you in
- 8 a second. (Handed) I can put it on the screen for the
- 9 jury.
- 10 What I would like to do is to follow through some of
- 11 the emails and other notes that were made at the time to
- 12 understand how the Trespa materials came, we think, to
- 13 be used at Lakanal House. So first of all here, we have
- 14 an email from somebody called Annabel Sidney, whom the
- jury have heard was the construction project manager, to
- 16 C.Sawyer at Trespa.com. Presumably Charles Sawyer, your
- 17 regional sales manager?
- 18 A. Yes.
- 19 Q. We can see that the date of this email is 28 January
- 20 2005 and Annabel Sidney said:
- 21 "Dear Charles, to confirm our meeting on Monday
- 31 January 2005, I will meet you at the property, which
- is called Lakanal. The building is a 14-storey high
- rise and we are proposing to replace the asbestos
- 25 balcony infill panels, possibly with Trespa Meteon.

- 1 Please bring samples and relevant literature."
- 2 So is this an example of what you described earlier,
- of one of your regional sales managers becoming involved
- 4 with the designer at an early stage of the project?
- 5 A. Yes, that would be a normal request by a specifier
- 6 asking for a visit.
- 7 Q. If we just go on a few pages, please, to page 1151. You
- 8 can see the Trespa logo in the top right-hand corner of
- 9 the page. Do you recognise this as a Trespa internal
- 10 note?
- 11 A. Yes, I do. It's a record from our customer record
- 12 management system.
- 13 Q. We can see the date under the words "activity number",
- 14 about two lines down, a start date and end date, both
- 15 31 January 2005. Then if we look at the note in the box
- at the bottom of the page:
- 17 "Note: request visit to site to determine quantities
- 18 and thickness. Have done so and 13-millimetre thick is
- 19 to be used."
- 20 Do we understand that to be a reference to
- 21 13-millimetre thick Trespa sheeting?
- 22 A. Yes, I do.
- 23 Q. Aside from the note that we now have in front of us at
- 24 page 1151, are you aware of any other notes or records
- of what was discussed on the visit on 31 January?

- 1 A. This is the only note I have of -- record of that visit.
- 2 Q. So you're not able to help us with the detail of any
- 3 discussions that Mr Sawyer might have had with Ms Sidney
- 4 at that time?
- 5 A. No, the regional sales managers are responsible for
- 6 updating the records with notes of their activities at
- 7 the visit, of which this is a record.
- 8 Q. If I could ask you, please, to turn on two pages to
- 9 page 1153. We have another email, this time on
- 10 3 February, so a few days later, from Charles Sawyer to
- 11 Annabel Sidney. He says:
- 12 "Good afternoon. Following our recent meeting,
- 13 please find the following attachment as a draft
- 14 specification."
- 15 Then he discusses the sizes of the panels to be
- 16 used. If I just show you the next page. Is that a
- 17 document you recognise?
- 18 A. Yes, that's an NBS specification.
- 19 Q. What is the purpose of that document?
- 20 A. The purpose of that document is to identify the material
- 21 to be used on a project so that any tenderer who is
- 22 pricing for that project is pricing on an equitable
- 23 basis.
- Q. So is this Charles Sawyer, in effect, recommending to
- 25 Annabel Sidney what sort of Trespa sheeting would be

- 1 appropriate for the work that she had in mind?
- 2 A. This is a specification identifying a suitable Trespa
- 3 product based primarily on the indicative sizes, which
- 4 are mentioned in the email, of 1710 by 805.
- 5 Q. I'll just go back to that. That's a reference, is it,
- 6 to the second paragraph:
- 7 "The panels have been taken as indicative sizes of
- 8 1710 millimetres by 805 millimetres."
- 9 THE CORONER: Sorry, could you just increase that size so
- 10 the jurors can read that, Mr Atkins. Thank you.
- 11 MR ATKINS: Where would those sizes come from? Would that
- 12 have been based on looking at what had been there
- 13 before?
- 14 A. My -- my assumption is that Trespa have -- Charles has
- visited the site and measured the balcony panel. The
- 16 reason the size is significant is because a balcony
- 17 panel is only held around a perimeter, which means the
- panel has to span 805 millimetres from one fixing to the
- other, hence the need for 13-millimetre panels.
- 20 Q. If I could move on, please, to page 1643, which is in
- 21 the fifth file. We'll just wait while Mr Clark finds
- the page for you. (Handed)
- 23 Again, we have, do we, a Trespa internal file note,
- and the start date, if we look under the words "activity
- 25 number", is 31 March. Again, this is in relation to the

- 1 London Borough of Southwark, we see in the box on the
- 2 left, and the contact named on the right is
- 3 Annabel Sidney. Then if we go to the bottom of the
- 4 page, the very last line says:
- 5 "Called me. Appointment for 3 April 2006."
- 6 So does this appear to be a note by Mr Sawyer about
- 7 a meeting that he was going to have with Annabel Sidney
- 8 on 3 April 2006?
- 9 A. Yes, this is a record of a project update which is
- 10 signified by the letters "PU" under "activity
- description", where Charles has followed up the project
- 12 to continue its progress.
- 13 Q. Is it right that notes such as this would be made from
- time to time as a project continued in order to record
- what was happening and what Trespa's involvement was?
- 16 A. That would be the normal pattern of behaviour for
- an RSM, to follow the project through from start to
- 18 conclusion.
- 19 Q. If we want to find out what happened at that meeting,
- 20 could we please turn to page 1704, another Trespa file
- 21 note. We can see that the start date this time is
- 22 6 April 2006. Again, the London Borough of Southwark,
- 23 contact Annabel Sidney, and in the box at the bottom
- 24 Mr Sawyer has recorded:
- 25 "Note: taking full set Meteon samples to select

- from. Samples posted. Left full set satin with
- 2 Anabella so as to select colour for project. Looks
- 3 like June 2006 order. Apollo had contract."
- 4 It appears, then, that Mr Sawyer had had by 6 April
- 5 a meeting with Annabel Sidney and had left some samples
- of the material with her; is that right?
- 7 A. That's my reading from the activity log.
- 8 Q. Again, are you aware of any other record or note of that
- 9 meeting?
- 10 A. No, that's the only record I have of the appointment.
- 11 Q. If we could look, please, at page 1856, which you should
- have further on in the same bundle. This time we have
- an email from Mr Sawyer to Annabel Sidney on 5 May 2006.
- 14 We can see that the first email on that page is a reply
- 15 to an email that she sent to him earlier on on the same
- 16 day. If we follow through what happened, on the bottom
- 17 part of that page, she said:
- 18 "Hi Charles, to confirm our conversation, the
- 19 following samples are urgently required, please."
- Do we see that one of the samples says "1 no" --
- 21 does that simply mean "one of" -- and then "verdigris"?
- 22 A. Yes, correct.
- 23 Q. Is verdigris one of the colours that Trespa has in its
- range of colours?
- 25 A. That is correct, yes.

- 1 Q. And in his reply, Mr Sawyer said:
- 2 "Sorted. Will have four-millimetre samples sent.
- 4 Is there a reason why Mr Sawyer would have been
- 5 sending four-millimetre samples, given that the previous
- 6 discussion had been about 13-millimetre sheets?
- 7 A. Yes. In the Trespa UK office, we carry samples which
- 8 are issued on a daily basis to specifiers and customers.
- 9 We make those decors available in four-millimetre
- 10 because if we are asked to send out 20 colours, if
- 11 they're sent in 13-millimetre it's a very heavy package.
- 12 It's pure logistics. That's why we have samples in
- 13 four-millimetre.
- 14 Q. So the colours are all the same irrespective of the
- 15 thickness of material?
- 16 A. The colours are exactly the same. It's purely
- 17 a logistical exercise to make it thinner panels.
- 18 Q. Could we move on then, please, to page 2319, which is in
- 19 the sixth file. It's a little bit hard to read in this
- 20 copy -- it hasn't photocopied very well -- but in the
- 21 top left of that page we see the name "Vivalda".
- 22 Earlier on you told us that that's one of the approved
- 23 distributors?
- 24 A. That's correct, yes.
- 25 Q. So these with are one of the companies who would obtain

- the material from Trespa?
- 2 A. Yes.
- 3 Q. In the top right-hand corner, we see this page is
- 4 described as a purchase order. So is this Vivalda
- 5 ordering something from Trespa?
- 6 A. This is a standard purchase order from Vivalda, ordering
- 7 material from Trespa International in Holland.
- 8 Q. Could I ask you then, please, first of all to look at
- 9 the order date, which is pretty much in the middle of
- the page, as it is on screen, of 7 July 2006.
- 11 A. Yes.
- 12 Q. Beneath that we have a list of different products. Are
- 13 you able to help us with whether any of those are
- related to the Lakanal House project?
- 15 A. Yes. If you look towards the lower part, under "product
- 16 description", the last item is:
- 17 "Two number 13-millimetre Meteon double-sided A30,
- 18 3.2 verdigris free-of-charge sample panels for
- 19 Lakanal House."
- 20 Q. We have then an explicit reference to this being in
- 21 relation to Lakanal House, so we can be confident about
- 22 that. Thinking about the material that's been asked
- for, then, we have 13-millimetre, which is the thickness
- 24 which Mr Sawyer had already suggested for the balcony
- 25 panels?

- 1 A. That's correct.
- 2 Q. It's double-sided. Can you just help us with that.
- 3 What does that mean?
- 4 A. Yeah, for the most part Trespa material, when it's used
- 5 as a facade cladding, has the decor on one side only and
- 6 has a black balancer on the back. That makes the
- 7 product slightly cheaper for installing on a facade.
- 8 For applications on a balcony, where the decor is
- 9 required on both sides, that means the product is
- 10 slightly more expensive, but it does indicate its use is
- 11 for a balcony application.
- 12 Q. A little earlier on in that description we have the same
- 13 colour, verdigris. So that's one of those for which
- 14 a sample was sent, we saw earlier?
- 15 A. That's correct.
- 16 Q. Then "free sample for Lakanal House". Why would Vivalda
- in this order refer to the project that the material is
- going to be used for? If we look at the ones above, the
- 19 first two refer to a particular project, Bromyard
- 20 Avenue, and the second two don't. So in your
- 21 experience, why would there be a reference to the name
- of the project in this order?
- 23 A. A distributor would normally make reference to a project
- if there was either a special price or the material was
- 25 being issued free of charge.

- 1 Q. Looking at what's said in this document, it does not
- 2 state whether the 13-millimetre sheet is standard grade
- or fire-retardant grade. Are you able to tell from
- 4 looking at this which it is?
- 5 A. It's general practice with distributors when they place
- 6 orders that it's for standard grade material unless it
- 7 specifically mentions FR grade on the order form.
- 8 Q. In other words, because there's no mention of the grade
- 9 in this document, you would have expected Trespa in
- 10 Holland to have supplied standard grade?
- 11 A. Firstly, Trespa would have sent an order confirmation
- 12 back to the customer, confirming what was ordered, and
- 13 that would also be as written, which would be standard
- grade, or not refer to FR grade.
- 15 O. If we want to see the first time that the material was
- 16 ordered, so far as we're aware, we need to go to the
- 17 seventh file at page 2677. So a similar document to the
- one that we were looking at a moment ago, on Vivalda
- 19 headed paper, marked "Purchase order" in the top
- 20 right-hand corner. The order date is 10 October 2006,
- 21 again, in the middle of the page.
- 22 A. Yes.
- 23 Q. So far as you're aware, was that the first order of the
- 24 material which you believe in the end was used at
- 25 Lakanal House?

- 1 A. It's the first order, other than the sample panels that
- were ordered, yes.
- 3 Q. This time, there's only one item on the purchase order,
- 4 and it's 65 sheets of, again, 13-millimetre Meteon
- 5 double-sided verdigris. So is that the same material
- 6 that was described in the purchase order for the free
- 7 sample?
- 8 A. That's the same material, yes.
- 9 Q. Without going to all of the different purchase orders
- 10 and all of the confirmations, could you just explain to
- 11 us in outline why it is that you believe that this is
- the material which came to be used at Lakanal House?
- 13 A. Yes. If we look at the normal ordering within the UK,
- 14 most of our product is manufactured and delivered as
- single-sided material. Balcony applications is a very
- 16 small part of our business, so it's relatively easy to
- 17 track through our customer records and our records at
- 18 CSD, customer service department, to identify any sales
- of double-sided. Also, 13-millimetre is a very unusual
- thickness. It's not a large part of our business.
- 21 Q. So by looking for material which was 13-millimetre thick
- and double-sided and the right colour, you were able to
- 23 track down the documents which you believe related to
- 24 Lakanal House?
- 25 A. Through our records in CSD, yes.

- 1 Q. That's the sheets which were used in the balcony panels.
- 2 That's the material marked 5 in dark green in the
- diagrams we identified earlier.
- 4 What I'd like to do now, please, is move on to the
- 5 thinner sheets which you've explained you believe were
- 6 used in the composite panels utility. So that's the
- 7 material in light green marked on our diagrams. Can I
- 8 ask you first of all -- there's no need to turn on it on
- 9 the paper copy; I'll put it on the screen. Page 1131.
- 10 This is an email from somebody called Liam Hanson, who
- 11 the jury will hear worked for a company called SAPA, to
- 12 Annabel Sidney. It may well be that you've never seen
- 13 this email before, because it wasn't addressed to you
- 14 and you weren't copied into it. We can see here that
- 15 the content of this email is about the window and door
- 16 specification that's going to be used at Lakanal House.
- 17 Do you see that in the subject?
- 18 A. Yes.
- 19 Q. If we go on, please, to page 1141, which is a document
- linked to that email. I don't know whether you've seen
- 21 this document before. It's a document which was
- 22 prepared by SAPA. It's the performance specification
- for windows and doors. Have you seen this document
- 24 before?
- 25 A. I don't recall having seen that document.

- 1 Q. Forgive me, I should have gone to the page before,
- 2 page 1140. I'll just zoom in on a section at the top of
- 3 the page. Can you see a line which starts "Solid infill
- 4 panels"?
- 5 A. Yes.
- 6 Q. "Solid infill panels, where required, are to be
- 7 28-millimetre insulated sandwich panels with facings of
- 8 polyester powder-coated aluminium."
- 9 If we just go through that. By "sandwich panel", do
- 10 you understand that one would be talking about the same
- 11 thing as a composite panel?
- 12 A. Yes, I do.
- 13 Q. So that is a panel made up of two thin sheets of one
- 14 material with an insulation core between them. At this
- 15 stage, the specification was that the facing of those
- sheets, the material on either side, should be
- 17 powder-coated aluminium. Is that a material which
- 18 Trespa manufactures?
- 19 A. No, we do not manufacture aluminium.
- 20 Q. Again, I don't ask you to turn this up in the paper copy
- 21 but I've put on the screen the email at page 2099, which
- is an email from Annabel Sidney to somebody called James
- Cousins, who worked for Apollo. We can see this is an
- 24 email dated 2 June 2006, and she says:
- 25 "Hello James, I've just spoken with Nick at Symphony

- 1 and I am happy with proceed with Trespa. Formal
- 2 instruction to follow."
- 3 Again, is that an email which you have seen before
- 4 or which you were aware of?
- 5 A. It's an email that I have seen in the lead-up to the
- 6 inquiry. I had not seen it at the time.
- 7 Q. Not at the time. If we could just bear that date in
- 8 mind then, 2 June 2006, when we look at the next
- 9 document, which is on page 2404, which is in the seventh
- 10 file. Do you have file number 7 in front of you?
- 11 Page 2404. In the top left-hand corner of that page,
- there's a name, "FGF Continental Limited". Is that
- a name you're familiar with?
- 14 A. FGF are one of the approved distributors in the UK of
- 15 Trespa material.
- 16 Q. So they're in the same category of companies as Vivalda?
- 17 A. That's correct.
- 18 Q. In the middle of that page, between items 2 and 3,
- 19 there's a line where it says:
- 20 "Special price, Commercial Panels ..."
- 21 Do you have that in the middle of the page?
- 22 A. Yes.
- 23 Q. Why would a distributor placing an order mention the
- 24 name "Commercial Panels" in a document like this?
- 25 A. At that time, FGF were developing a business

- 1 relationship with Commercial Panels, primarily for the
- 2 sale of three-mill material, and they had negotiated
- 3 with us a special price, which is highlighted on two
- 4 occasions under "SPA number", which is "special price
- 5 agreement".
- 6 Q. Sorry, where is that, please?
- 7 A. Halfway down the order on the big block, on the third
- 8 box.
- 9 O. So in the box below item number 2?
- 10 A. "Special price, Commercial Panels, SPA number ..."
- 11 Which is a special price agreement.
- 12 Q. If we look at what is being ordered here, we have four
- 13 items. Looking in the third column, where it says
- 14 "colour", do we see that the first two are described as
- 15 pure white?
- 16 A. Yes.
- 17 Q. And then the second two are both described as mid-green?
- 18 A. Yes.
- 19 Q. Then if we look in the second column at the dimensions
- of the sheets, the first pair we can see are 2550 by
- 21 1860 and then 3050 by 1530, in each case three
- 22 millimetres thick, and those are the same dimensions
- 23 that appear for the second pair of items. Does that
- 24 suggest that these were going to be the two sides of the
- 25 same sheets?

- 1 A. It would suggest before our distributor orders material
- 2 from us, they would take all of the panel sizes for the
- 3 finished product and they would optimise it through
- 4 a computer programme to work out the most effective
- 5 sheet size of material. The fact that both are
- 6 consistent because the panels are double-sided would
- 7 appear to me to be the same project.
- 8 Q. So looking at this, it may well be that somebody wishing
- 9 to manufacture composite panels has ordered white for
- 10 one side of those panels and mid-green for the other
- 11 side?
- 12 A. Correct.
- 13 Q. Is it the same as before, that because this order
- 14 doesn't mention whether the material is to be standard
- grade or fire-retardant grade, that would be taken to be
- 16 a reference to standard grade?
- 17 A. That's correct also.
- 18 Q. Could I ask you just to turn two pages on, please. This
- 19 time it's a Trespa document. A few moments ago, you
- 20 mentioned that there would be an order confirmation. If
- 21 we could look, please, just at the top of this page in
- the middle, is that what this is?
- 23 A. This is an order confirmation form from Trespa CSD,
- 24 customer services department.
- 25 Q. It goes over two pages. There's this page, and then

- 1 2407. In summary, is this confirming what was on the
- 2 last document we looked at?
- 3 A. Yes, it is.
- 4 Q. The same material. Could I ask you, please, to turn to
- 5 page 2699, which is still in the same bundle, I think.
- 6 It's another of the Trespa internal notes that we saw
- 7 earlier. Again, it's Mr Sawyer. I think if we look
- 8 about six lines below the words "activity number" on the
- 9 left-hand side -- do you have that?
- 10 A. Yes.
- 11 Q. "Employee responsible: Charles Sawyer."
- To the right of the word "opportunity" we can see
- 13 the words "Lakanal tower block". Then if we look at the
- 14 note in the box at the bottom of the page -- I'll just
- make that a little easier to read -- I'm sorry, I should
- 16 have gone to the date first. Do you see at the top of
- the page the start date 18 October 2006?
- 18 A. Yes, I do.
- 19 Q. So this is a little later on than the other documents
- 20 we've looked at so far. Then the box at the bottom of
- 21 the page:
- 22 "Note: called to site at request of Apollo, who are
- very pleased with Trespa."
- There's then some discussion about fixings before we
- 25 get to this second paragraph, where Mr Sawyer has

- 1 recorded:
- 2 "Also found that Apollo have used Trespa for the
- 3 window and doors. This is another 1500 square metres,
- 4 three-millimetre. Unknown until today they have used
- 5 Trespa in this application due to our quality."
- 6 I appreciate that this is not a note which you
- 7 yourself made, but does it appear from that that
- 8 Mr Sawyer first of all attended site in relation to the
- 9 balcony panels, which he had previously been involved
- in, but then discovered that material that had
- originally come from Trespa, the thinner
- 12 three-millimetre sheets, had also been used for the
- 13 windows and doors?
- 14 A. Yes, this is the first record on our CRM system which
- acknowledges the use of Trespa in the infill panels.
- 16 Q. Just turn one page back to 2698. It's another note with
- 17 the same date, 18 October 2006. Again a note which by
- 18 Mr Sawyer, who said at the bottom there:
- 19 "Info at request from Apollo to ascertain if Trespa
- 20 ordered came from Commercial Panels to window company
- 21 Symphony, so no problem. Vivalda did not supply this
- three-millimetre white and mid-green."
- In summary, does that suggest that the material
- 24 which was used in the panels under the windows, in the
- 25 composite panels, was sourced by Apollo and by Symphony

- 1 Windows through a company called Commercial Panels,
- 2 rather than through Vivalda?
- 3 A. Yes, unfortunately the record -- the note on the
- 4 activity system is not as clear as perhaps it could be,
- 5 but my understanding from that is that the
- 6 750 millimetres of white and mid-green in three-mill
- 7 came from Commercial Panels to Symphony and was not
- 8 ordered via Vivalda.
- 9 Q. We've seen on page 2699 that Mr Sawyer has said that he
- 10 wasn't aware until that visit that Trespa was being used
- in anything other than the balcony panels. Is there any
- other note or record, so far as you're aware, of what
- 13 Mr Sawyer thought when he discovered that Trespa had
- 14 been used?
- 15 A. We have supplied -- all of the activity records relating
- to this project have been disclosed.
- 17 Q. Are you able to say whether there was any discussion at
- 18 that time involving Mr Sawyer and anybody else about
- 19 those composite panels?
- 20 A. No, I'm not aware of any other discussion.
- 21 Q. Finally, then, a similar question to the one I asked
- 22 about the balcony panels. Could you just explain to us
- 23 why it is that Trespa believe that the material that was
- used at Lakanal House was three-millimetre sheets of
- 25 Trespa?

- 1 A. Yes, I can. Again, from checking our customer records,
- 2 three-millimetre is not a dominant product for Trespa.
- 3 It's a relatively smaller volume than our core business.
- 4 It's also identifiable by colour, because in the period
- 5 of 2006 there was only one significant order for the
- 6 dark green three-millimetre material, and that came from
- 7 FGF. So we believe we have a high probability of having
- 8 identified where that material came from and to.
- 9 Q. Mr Laing, thank you. Those are all the questions
- 10 I have. There may be questions from others.
- 11 THE CORONER: Thank you.
- 12 MR HENDY: No questions.
- 13 THE CORONER: Mr Dowden? Ms Al Tai?
- 14 MS AL TAI: No, thank you, madam.
- 15 THE CORONER: Thank you. Mr Walsh? Mr Matthews?
- 16 Mr Compton?
- 17 MR COMPTON: No thank you.
- 18 THE CORONER: Mr Leonard.
- 19 Questions by MR LEONARD
- 20 MR LEONARD: Just very briefly. I just want to understand
- 21 clearly the distinction you draw between
- 22 three-millimetre sheets being used by others to
- 23 manufacture composite panels and the thicker sheets that
- you used to manufacture your own panels in one form or
- 25 another. Am I right so far?

- 1 A. Yes, correct.
- 2 Q. Just this simple point -- and I'm quoting from your
- 3 third statement. For those that want to look at it,
- 4 it's at page 581 of the statements bundle. What you say
- 5 there is this:
- 6 "We also manufacture --"
- 7 THE CORONER: Sorry, may I just stop you a moment. Let
- 8 Mr Laing have sight of it. Either we can put it on
- 9 screen if it's only a very short passage or --
- 10 MR LEONARD: It is. 581. This is the third, as I say, of
- 11 the statements that you've made in this case.
- 12 THE CORONER: Which paragraph number are you going to?
- 13 MR LEONARD: 5.
- 14 THE CORONER: Number 5. Okay, if that could just be
- increased in size.
- 16 Mr Laing, are you happy to read that off the screen?
- 17 A. Yes.
- 18 THE CORONER: Yes, thank you.
- 19 MR LEONARD: "We also manufacture three-millimetre resin
- sheets in the Meteon range which are not a finished
- 21 product but sold as a component part which is then
- 22 predominantly used by third parties to fabricate
- composite panels, sometimes called 'sandwich' or
- 'infill' panels. These are made by bonding the Trespa
- 25 sheets to a 'filling' of some kind. Trespa does not now

- and has never manufacture such panels. I am aware,
- 2 however, that these types of composite panel can be
- 3 'filled' with materials which do have insulating
- 4 properties and so they can be glazed into window
- 5 sections or curtain walling which I would describe as
- 6 'sealed systems'."
- 7 Yes?
- 8 A. Yes.
- 9 Q. That's the position, and that's essentially what your
- 10 colleague, I think, saw when he went in October of 2006
- 11 and made a note to that effect in the document we've
- 12 looked at.
- 13 A. That's correct.
- 14 Q. Thank you.
- 15 THE CORONER: Thank you. Yes, Ms Canby, thank you.
- 16 Questions by MS CANBY
- 17 MS CANBY: Madam, sorry, if I may just ask some questions on
- 18 behalf of SAPA. Mr Laing, it's Ms Canby for SAPA
- 19 Building Systems Limited. Just a couple of questions,
- 20 please. In 2006, do you know how the cost of Trespa
- 21 compared to the cost of powder-coated aluminium?
- 22 A. I wouldn't have that knowledge.
- 23 Q. Perhaps if we have a look at one of the documents in the
- chronological bundle. If Mr Clark could get that for
- 25 you. It's in folder 5 and it's at page 1642. (Handed)

- 1 I appreciate that this is a document that you probably
- 2 have not seen before. You can see that it's a letter
- from Commercial Panels to Symphony. If I give you
- 4 a moment to have a look at it.
- 5 A. Yes.
- 6 Q. Do you agree that that document suggests that the cost
- 7 of Trespa and the cost of powder-coated aluminium was
- 8 the same in 2006?
- 9 A. Yes, I agree.
- 10 Q. Thank you. You can put that bundle to one side. The
- 11 next point, please: you've told us that your product can
- 12 either be provided as standard grade or fire-retardant.
- 13 Could you just explain to the jury, please, what you
- 14 mean by fire-retardant?
- 15 A. It has improved performance in the event of a fire.
- 16 Q. How does that differ from fire-resistant?
- 17 A. Trespa panels are only tested on reaction to fire. My
- 18 understanding is that fire resistance is always quoted
- in a period of time to resist the passage of fire.
- 20 Q. Then the final point, please. If you could be provided
- 21 with a copy of the jury bundle. You'll find some
- photographs at tab 13. If you could look, please, at
- 23 photograph 32. The jury knows that this shows a --
- 24 THE CORONER: Sorry, could you just wait, Ms Canby, whilst
- 25 the jurors are turning up the photographs. Yes, thank

- 1 you.
- 2 MS CANBY: The jury knows that this shows a photograph of
- a living room door open with a balcony panel shown
- 4 through the open door, and you can see that there is
- a gap underneath the balcony panel. Do you agree that
- 6 whatever material had been used in the balcony panel or
- on that balcony, the structure itself could not have
- 8 been fire-resistant because fire and smoke could pass
- 9 under that balcony panel?
- 10 A. I wouldn't profess to be an expert on fire, but I would
- imagine through a gap underneath, that would allow easy
- 12 access to flames or smoke.
- 13 Q. Thank you very much.
- 14 THE CORONER: Ms Petherbridge?
- 15 Questions by MS PETHERBRIDGE
- 16 MS PETHERBRIDGE: Perhaps three points of clarification,
- 17 Mr Laing. We've looked at, when you were answering
- 18 questions from Mr Atkins, page 2099 of the chronological
- bundle, which was an email from Annabel Sidney to James
- 20 Cousins. Just to clear, Mr Laing, you said you had seen
- 21 that email in the run-up to the inquest. Can I just
- 22 confirm, is that an email -- we can see in fact on the
- very top left-hand side that this comes from something
- called LBS file 6 of 8. Can you just confirm, did you
- 25 see that email because it's part of your own company's

- 1 records or were you shown it as part of the inquiry --
- 2 A. It's not part of my company's records. I saw it as part
- 3 of the inquiry.
- 4 Q. Thank you. Turning on to a couple of points about the
- 5 composite panels, on page 2404, if we could have that up
- 6 a moment, if we look there at the order dated
- 7 31 July 2006 from FGF. This is simply to solve what
- 8 might be a curiosity. We saw that the orders there --
- 9 if we look at the quantities of panels, for pure white
- 10 there were 30 of one size and 188 of the size given
- 11 below, and then for the green panels, 30 of one size and
- again 188 below. But if we turn over to page 2406, just
- in case it drew anybody's attention, we can see that
- 14 while the white panels remain as 30 and 188, the green
- panels, the third item on the page, we now see quantity
- 16 six pieces and quantity 188 pieces. Do you see that?
- 17 It seems to be a slight change from the order.
- 18 A. Yes, I can see that.
- 19 Q. Could we then just look, please, at page 2413. Do we
- see there a fax form from FGF, the same distributors,
- 21 dated 2 August 2006?
- 22 A. Yes.
- 23 Q. And can we see that what that fax is asking Trespa to do
- is to amend the third item on their previous order to
- 25 read six mid-green panels?

- 1 A. Yes.
- 2 Q. So between the order and your confirmation --
- 3 A. It was amended.
- 4 Q. -- FGF in fact revised the number of panels they wanted?
- 5 A. That's correct.
- 6 Q. Thank you. Mr Laing, you've told us about the
- 7 distinction between the finished panels and the thin
- 8 three-millimetre that's used to make composite panels.
- 9 I think you've been very clear that Trespa can't speak
- 10 for the eventual fire performance of the composite
- 11 panels. You said that would depend upon the insulation.
- 12 Would it also depend upon how the panels are bonded
- 13 together, for example?
- 14 A. It would depend on all the components that make an
- insulated panel, or a composite panel, which would be
- 16 any glues or adhesives that are used to bond the panel
- 17 and also the insulation.
- 18 Q. Do you have any general knowledge as to whether you
- 19 could, in fact, make a composite panel using Trespa
- 20 three-millimetre that was fire resistant, where fire
- 21 wouldn't pass through it?
- 22 A. I don't have specialist knowledge, but I do have some
- 23 knowledge that if, for example, the insulation core was
- 24 non-combustible or if a thicker panel of Trespa was
- used, then it may have enhanced fire properties.

- 1 Q. Mr Sawyer -- we've seen that 18 October seems to be the
- 2 first time he knew that the three-millimetre sheeting
- 3 was used in the composite panels used at Lakanal. Would
- 4 he, from looking at those composite panels in situ, be
- 5 able to tell what was in the middle?
- 6 A. He would not be able to tell what was the core material.
- 7 Q. Finally, Mr Laing, turning to the 13-millimetre panels
- 8 that were used at Lakanal, they, of course, are part of
- 9 the category of product six-millimetre and above, so you
- would certify those as to their general fire-proofing?
- 11 A. These are certified products, yes.
- 12 Q. You did mention earlier in your evidence that there are
- 13 some new European standards and Trespa now apply those
- standards when they test their panels?
- 15 A. Yes, and those standards are published on our website.
- 16 Q. Your products haven't changed, have they, since 2006 to
- the ones that you now certify using the European
- 18 standards?
- 19 A. It's the same products.
- 20 Q. You were, I think, in court when Mr Crowder gave some
- 21 evidence as to some of the standard tests that his
- organisation, BRE, had done on both the composite and
- the thicker 13-millimetre panels, were you not?
- 24 A. Yes, I was.
- 25 Q. We heard that in the six test runs that Mr Crowder did,

- 1 when he dealt with the 13-millimetre panels, the ones
- that were Trespa Meteon throughout, that through the six
- 3 test runs there was no -- what he called incandescent
- 4 spalling, so while pieces may fall from the panel, none
- of them were flaming. Do you recall that evidence?
- 6 A. I do recall that.
- 7 Q. Is it right that there's one part of the new European
- 8 standards that actually test that property of the
- 9 material, its propensity for flaming particles or
- 10 droplets to fall away from it?
- 11 A. Yes, as I said earlier, it tests three factors: it tests
- 12 burning, smoke and also dripping.
- 13 Q. Specifically it's flaming dripping and flaming
- particles, is it not, that third part of the test?
- 15 A. That's correct.
- 16 Q. And that test can be D0, the very best category, down to
- 17 D1 and D2; is that right?
- 18 A. That's also correct.
- 19 Q. In terms of the Trespa six-millimetre and above --
- I appreciate you can't speak for the thinner panels
- 21 because you don't test them, but for six-millimetre and
- above, what category does the Trespa panel achieve in
- 23 terms of burning particles or burning droplets?
- 24 A. It's D0.
- 25 Q. Remind us, is that the best or the worst?

- 1 A. That's the best category it's possible to achieve.
- 2 Q. Mr Laing, that's all the questions I have. Thank you.
- 3 THE CORONER: Thank you. Members of the jury, do you have
- 4 any questions?
- 5 Questions by the Jury
- 6 THE FOREMAN OF THE JURY: Thank you, Madam Coroner, we have
- 7 two. We have heard how the fire safety of the thicker
- 8 panels --
- 9 A. Sorry, I can't hear the question.
- 10 THE FOREMAN OF THE JURY: Sorry, is that better?
- 11 A. That's better.
- 12 THE FOREMAN OF THE JURY: We've heard how the finished
- 13 panels have been tested according to British standards,
- 14 European standards. We were concerned with the
- 15 certificates, for instance, that might relate to the raw
- 16 materials used, cellulose, that sort of thing. Is there
- 17 any way of tracing back how fire-safe the raw materials
- 18 actually are?
- 19 A. Not that I'm aware of. My knowledge is you can only
- 20 test the product in its manufactured format.
- 21 THE FOREMAN OF THE JURY: Sorry, just let me clarify.
- 22 (Pause) Okay, that's all for that question.
- 23 THE CORONER: Sorry, just to clarify, what you're saying is
- that you manufacture your panel, that's your finished
- 25 product, and then it's that finished product which is

- tested as you've described?
- 2 A. Certified and tested, yes.
- 3 THE FOREMAN OF THE JURY: Thank you. The second question,
- 4 we've just heard from you right at the end here that if
- 5 thicker panels of Trespa are used, that six-millimetre
- 6 and above are certified by yourselves as being more
- 7 resistant to fire. How common is it, in your
- 8 experience, for composite panels to be made with the
- 9 thicker sheeting?
- 10 A. Sorry, I missed the last part of the question.
- 11 THE CORONER: It was: how common is it for the composite
- 12 panels to be made with the thicker sheeting? So talking
- 13 about six millimetres and above.
- 14 A. I would have to say it's relatively rare, because as you
- increase the thicker part of the HPL, you would then
- 16 reduce the core material, which is the insulation.
- 17 THE CORONER: Sorry, can you explain "HPL"?
- 18 A. "High pressure laminate", sorry.
- 19 THE FOREMAN OF THE JURY: Thank you. That's all.
- 20 THE CORONER: Does that answer your questions?
- 21 THE FOREMAN OF THE JURY: I think so.
- 22 THE CORONER: Thank you very much.
- 23 Mr Laing, thank you very much for coming and thank
- you for the evidence that you've given to us today.
- 25 You're welcome to stay if you would like, but you're

- free to go if you would prefer. Thank you very much.
- 2 MR ATKINS: Madam, it's about 11.25. Would that be
- 3 a convenient moment for a break?
- 4 THE CORONER: Yes, that looks a good moment to have a break.
- 5 So members of the jury, could you be back for 11.35,
- 6 a ten minute break? Thank you.
- 7 (11.23 am)
- 8 (A short break)
- 9 (11.38 am)
- 10 THE CORONER: Yes, it's Mr Hanson next?
- 11 MR ATKINS: Madam, yes.
- 12 THE CORONER: Is Mr Hanson in court? Yes, if you would like
- 13 to come forward. Just wait there a moment. Mr Clark
- 14 will be with you.
- 15 (In the presence of the Jury)
- 16 THE CORONER: Yes, thank you, Mr Hanson.
- 17 LIAM HANSON (sworn)
- 18 THE CORONER: Mr Hanson, thank you very much. Do sit down.
- 19 I think you've helped yourself to a glass of water.
- 20 A. Thank you.
- 21 THE CORONER: Please could you keep your voice up. You've
- been sitting at the back so you'll realise that the
- sound in this room isn't always easy.
- 24 A. Yes, indeed.
- 25 THE CORONER: And if you give your answers across the room

- 1 to the members of the jury then that will help them to
- 2 hear your evidence and also help you to keep close to
- 3 the microphones. Mr Atkins, who's standing, is going to
- 4 ask questions on my behalf initially and then there may
- 5 be questions from others.
- 6 A. Thank you.
- 7 MR ATKINS: Could you please tell the court your full name?
- 8 A. My full name is Jeremiah Liam Hanson.
- 9 Q. Could you please tell us what job you do and for whom
- 10 you work?
- 11 A. I -- my job role is senior product consultant working
- 12 for SAPA Building Systems.
- 13 Q. To help us understand where SAPA fit in, could I ask you
- 14 please to turn to tab 18 of the jury bundle. You may
- 15 have been in court earlier when we were looking at these
- 16 documents with Mr Laing.
- 17 A. Indeed.
- 18 Q. So you will recall then that we have three pages, each
- of which shows a different section of the facade of
- 20 Lakanal House. So on the first page the bedroom, on the
- 21 second page the kitchen, where the top diagram shows the
- facade and the lower diagram shows the facade with the
- balcony panels in front of it, and then the lounge on
- the third page, again with the facade at the top and the
- 25 facade with the balcony panels in front beneath.

- 1 A. Yes.
- 2 Q. In each case a photograph on the left-hand side to
- 3 remind us of what we're looking at. We can see, if we
- 4 take the first page as an example, that the facade is
- 5 made up mainly of glazing shown in white and blue and
- 6 composite panels shown in green. Then around those
- 7 elements there are shown in grey some frames. I'd just
- 8 like to ask you about SAPA's business. Do SAPA
- 9 manufacture the frames?
- 10 A. SAPA supply extruded lengths of frames.
- 11 Q. What are the frames made of?
- 12 A. Aluminium.
- 13 Q. You say that SAPA supply the extruded lengths of frames.
- 14 Does somebody else have to cut them to the right sizes
- to be used in a project such as this?
- 16 A. Yes, they would be supplied to a commercial dealer, who
- 17 will then cut the profile to the appropriate shapes and
- sizes and then fabricate the window in its entirety.
- 19 Q. When you say "profile", are we talking simply about
- a length of aluminium to be used as part of a frame such
- 21 as this?
- 22 A. That is correct.
- 23 Q. Do SAPA manufacture glazed units, windows?
- 24 A. No, SAPA do not.
- 25 Q. What about composite panels?

- 1 A. No, SAPA do not.
- 2 Q. So if we look at these three diagrams together, is it
- 3 right that the only material included in them which SAPA
- 4 manufacture are the extruded aluminium sections which
- 5 become the frames?
- 6 A. That is correct.
- 7 Q. I think it's right that the profiles -- that is, the
- 8 lengths of aluminium which are made up into frames --
- 9 are held together with fastening components called
- 10 couplings?
- 11 A. The corners are hold together with things called
- 12 chevrons and cleats to keep things square, and then one
- 13 when one frame is manufactured and then needs to be
- 14 attached, if you like, to another window, then the
- coupling is the profile you're referring to.
- 16 Q. Without losing ourselves in the detail of this, do SAPA
- 17 manufacture the various pieces that are necessary to
- 18 hold the frames together?
- 19 A. Yes, indeed.
- 20 Q. Do you know whether SAPA products are used in the
- 21 context of social housing in London generally?
- 22 A. Sorry, could you repeat that?
- 23 Q. We gather that SAPA products were used in the works in
- 24 2006/2007 at Lakanal House.
- 25 A. Correct.

- 1 Q. To your knowledge, are they also used in other social
- 2 housing buildings in London?
- 3 A. Sorry, yes they are.
- 4 Q. Have SAPA worked previously with the London Borough of
- 5 Southwark?
- 6 A. Yes, on many projects.
- 7 Q. What about the contractor Apollo?
- 8 A. Yes, we've worked with Apollo on many projects as well.
- 9 Q. Have you also worked with a company called Symphony
- 10 Windows before?
- 11 A. Yes, we have.
- 12 Q. Was Lakanal House the first time you worked with any of
- 13 those companies?
- 14 A. To the best of my recollection, I think that was the
- 15 very first project we worked on together but it was
- 16 certainly in the low numbers if it was more than one.
- 17 Q. Was that true of both Apollo and Symphony?
- 18 A. No, I'd say we'd worked on quite a lot more projects
- 19 with Apollo than with Symphony at that point.
- 20 Q. In case we need it later, could I just ask you a few
- 21 questions, please, about terminology. Is it right that
- 22 a profile or part of a frame which reasons horizontally
- is known as a transom?
- 24 A. That is correct.
- 25 Q. Whereas part of a frame which runs vertically is

- 1 a mullion?
- 2 A. That's also correct.
- 3 Q. Are the frames that were used at Lakanal House marketed
- 4 on the basis that they are fire-resistant in any way?
- 5 A. No, not at all.
- 6 Q. Do SAPA produce any frames and linking parts which are
- 7 marketed as being fire-resistant?
- 8 A. We have fire-rated products.
- 9 O. What determines whether the fire-rated products are used
- 10 for a particular project?
- 11 A. The -- whether a fire-rated product is used on any
- 12 particular project is governed by the design team, who
- 13 one would naturally assume takes advice from building
- 14 control.
- 15 Q. Whose design team are we talking about?
- 16 A. That would be the clients' design team. On various
- 17 projects it could vary as to who that person or persons
- 18 would be, but every project has a design team, ie
- 19 a person or department that takes responsibility for the
- 20 design of that building.
- 21 Q. Is the difference between the fire-rated version of the
- frames and the non-fire-rated essentially that the
- 23 non-fire-rated version will distort at lower
- 24 temperatures than the fire-rated version?
- 25 A. I'm no real expert on the actual fire test itself, but

- 1 the key objective of a fire-rated product would be
- 2 basically to hold back fire for the given period of time
- 3 using a number of components to make that system that
- 4 will be fully tested.
- 5 Q. In your experience, where a designer is producing
- 6 a design and using panels and other components which are
- fire-resistant, will they also ask SAPA for frames which
- 8 are fire-resistant?
- 9 A. Yes, on the limited number of projects that I've worked
- on that require fire-rated products, which is a small
- 11 amount of our business, in all cases the actual
- 12 specifier/design team person will make us aware of the
- 13 fact that there are fire-rated products and indeed the
- 14 fire rating that they require.
- 15 Q. Have you been involved in many projects involving work
- on a high rise block?
- 17 A. I have.
- 18 Q. Are you able to help us with what proportion of those
- 19 projects used a fire-rated system of frames?
- 20 A. In terms of fire-rated product, there have been none
- 21 that I've importantly worked on. Generally speaking, it
- 22 can be perhaps an entrance door to a dwelling that may
- be fire-rated, but not to be confused with -- virtually
- all buildings will have an egress escape window which
- 25 will come under the same banner, but it's not

- 1 a fire-rated product.
- 2 Q. In what circumstances, then, might SAPA -- or would
- 3 SAPA -- ever recommend the use of a fire-rated set of
- 4 frames?
- 5 A. SAPA would recommend fire-rated products where asked to
- 6 do so. For example, there may be a screen with a door
- 7 within that screen that needs fire-rating, and we would
- 8 be asked to supply that product and we would therefore
- 9 have to ask whether that's a 30-minute, 60-minute, or
- 10 whatever the actual requirement may end up being.
- 11 Q. Have there been, in your experience, occasions when
- 12 a designer has asked you to design a set of frames for
- a building and SAPA had responded by saying, "Well,
- 14 actually, we think you ought to consider a fire-rated
- set of frames for this purpose"?
- 16 A. If we refer back to the times for 2006/2007, what would
- 17 happen in those cases is we have to work on the
- information that we're given from the design team or
- 19 specifier, as we commonly call those individuals. They
- 20 would advise us of the type of product they need and the
- 21 requirements of that product.
- 22 Q. But to go back to my question, would there be occasions
- when the specifier asked you for one thing, and you at
- SAPA said, "Well, actually, we think you ought to do
- something else"?

- 1 A. Yes, sorry, there have been occasions when people ask us
- for a particular product -- based upon the information
- 3 that we're given, if there's something we see that is
- 4 obvious, we can make a suggestion and the design team
- 5 member will either take on board that comment or not.
- 6 Q. Do we take it, then, the decision about what type of
- frames to use would remain with the specifier, or the
- 8 designer?
- 9 A. Always.
- 10 Q. In focussing in my questions on the issue of fire
- 11 rating, is it right that other considerations from
- 12 SAPA's point of view would include wind-loading, which
- is the extent to which the frames would distort under
- 14 the pressure of wind --
- 15 A. That is correct.
- 16 Q. -- and also load-bearing, which is the extent to which
- 17 the frames might deform under the weight of the
- 18 components of the facade itself?
- 19 A. Yes, indeed. Standard frames are not load-bearing.
- 20 Q. Are those two factors, the wind-loading and the
- 21 load-bearing aspects, both things which would have to be
- 22 considered really for any design for a facade?
- 23 A. Just about every design.
- 24 Q. Can I move on immediately then to look at how SAPA came
- 25 to be involved in the work that was done at

- 1 Lakanal House in 2006/2007. As I understand it, SAPA's
- 2 involvement began when you were asked to prepare
- 3 something called a performance specification?
- 4 A. That is correct.
- 5 Q. So we understand how this fits into the process of
- 6 a project like this, is it correct that SAPA would
- 7 sometimes be contacted by a specifier and asked to
- 8 provide a specification at an early stage, and that that
- 9 then becomes part of the overall specification of the
- 10 project when it goes out to tender?
- 11 A. Yes, I think there are two questions there, the first
- being how we're contacted. We are regularly contacted
- directly by specifiers. As for the specification
- 14 itself, we pass that specification on to the person who
- 15 requested it, and it's their decision to include that
- 16 specification, having checked it, or whether to exclude
- it and use something else.
- 18 Q. So the specification that SAPA provide at that stage
- 19 might be included in the tender or not, depending on
- what the designer chooses?
- 21 A. That's correct.
- 22 Q. Is it correct that at that stage, typically SAPA would
- not be paid for that specification?
- 24 A. SAPA are never paid for specifications.
- 25 Q. So is the idea from SAPA's point of view that if you

- 1 provide a specification and it is included in the
- 2 tender, then in due course, whichever contractor wins
- 3 the contract will then ask you to provide the aluminium
- 4 sections that become the frames?
- 5 A. Yes, it's very similar to that, with just one small
- 6 deviation, is that somewhere along the line, albeit SAPA
- 7 may well provide the specification and that may well be
- 8 issued with a tender document, ultimately it's
- 9 a decision, I would say, perhaps of the -- maybe the
- 10 main contractor to decide which products they're going
- 11 to use. Just because it says SAPA doesn't mean
- 12 ultimately they will use SAPA due to sort of fair
- 13 tendering process.
- 14 Q. But presumably your hope is that they will use SAPA?
- 15 A. Yes, sorry.
- 16 Q. Because otherwise your company gets nothing out of
- involvement in the specification?
- 18 A. Absolutely, yes, obviously. The purpose of us writing
- 19 the specification is obviously to try and provide
- 20 a unique selling point in the hope that yes, our product
- 21 will be used on that project.
- 22 Q. If we could look, please, at page 1032, which is in file
- 23 number 3. Mr Clark will hand you that in just a moment.
- File 3, page 1032, please. (Handed) What we have there
- is an email from Annabel Sidney, who worked for SBDS --

- she was the specifier in relation to this project -- to
- 2 somebody called David Sales at Marsland Windows, and
- 3 this is an email on 11 November 2004. Is Marsland
- a name that you're familiar with?
- 5 A. Yes, it is.
- 6 Q. What was their business?
- 7 A. Marsland Windows have ceased to trade, but back then
- 8 they were what we would term as a SAPA commercial
- 9 dealer, ie they are a company that we would sell, as we
- spoke of earlier, the lengths of aluminium profile to
- 11 actually fabricate and install windows.
- 12 Q. So we can see that Annabel Sidney wrote to David Sales
- 13 and said:
- "Dear David, I am currently preparing
- a specification for refurbishment works at the above
- 16 property."
- 17 We can see Lakanal named in the subject:
- 18 "I would like to meet with you at your earliest
- 19 possible convenience to discuss options for window
- 20 replacements."
- 21 Then if I could ask you, please, to turn on to
- page 1056 in the same bundle.
- 23 A. Yes, I've got that.
- Q. In the middle of that page, we have an email from
- 25 Annabel Sidney, again to David Sales, this time on

- 1 16 December 2004, where she said:
- 2 "David, please could you provide me with
- 3 a specification for the above."
- 4 So at this stage, Annabel Sidney was asking this
- 5 other company, Marsland, to provide a specification?
- 6 A. That is correct.
- 7 Q. If we look further down the same page -- sorry, perhaps
- 8 on page 1055. There's an email at the bottom from David
- 9 Sales to you on 16 December 2004. Do you see that?
- 10 Right at the bottom of page 1055?
- 11 A. Sorry, yes I do, yes.
- 12 Q. Mr Sales said to you:
- 13 "Liam, this is the latest job from the John Menlove
- 14 camp. I have attached the photos I have taken. It is
- very similar to Colbert House."
- Then over the page:
- 17 "Can you please assist regarding specification by
- 18 the required date?"
- 19 So is what had happened there in effect that
- 20 Annabel Sidney had asked them for a specification and
- 21 they in turn had asked you to provide one?
- 22 A. Yes, generally speaking, Marsland Windows wouldn't
- 23 actually write a specification. They would contact
- ourselves to do that on their behalf.
- 25 Q. And the date by which the specification was required, we

- can see in Annabel Sidney's email in the middle of
- 2 page 1056, was 5 January?
- 3 A. Yes, which obviously provided a limited amount of time,
- 4 taking into account the Christmas break.
- 5 Q. If we just go back, please, to page 1055, we can see
- 6 that you wrote back to Mr Sales and said:
- 7 "Hi Dave, having taken a look at the photos I have
- 8 a few questions."
- 9 And then you asked him a number of points. Is it
- 10 right that attached to his original email to you were
- 11 the photos that we see from page 1042 onwards?
- 12 A. Yes, I believe those are the photographs that came with
- the email.
- 14 Q. I'll just run through them for the jury. They're from
- 15 pages 1042 to 1054. We can come back to look at them in
- more detail, if needs be, later on. If we return to
- 17 page 1055, can we see at the top of that page that after
- 18 your email with questions, Mr Sales then wrote back to
- 19 you on 20 December and said:
- 20 "Morning Liam, please find attached details and
- 21 sizes of screens."
- 22 And answered the various questions that you had
- 23 asked him.
- 24 A. Yes, I see that.
- 25 Q. The reference there to attached details and sizes of

- 1 screens, would I be right in suggesting that he attached
- 2 to that email what we have at page 1080?
- 3 A. If you could just scroll down a little bit, because
- 4 there are two that are very similar. Mine had headnotes
- on the bottom. Yes, that is the one from David Sales.
- 6 Q. So Mr Sales had, by this stage, sent to you the
- 7 information that was in the emails that we've looked at,
- 8 the photographs that we have just seen, and these
- 9 sketches?
- 10 A. Yes.
- 11 Q. So far as you're aware, did these sketches that we're
- 12 looking at now come from Marsland?
- 13 A. They definitely came from Marsland's.
- 14 Q. At that point, had you been to Lakanal House? Had you
- 15 visited it?
- 16 A. I can't actually recall. I've checked our database,
- 17 I have no record of it there, but looking at the time
- frames and work loads it's unlikely at that point that
- 19 I'd actually been to site.
- 20 Q. Would you aim to visit a site before preparing any sort
- of specification for work there?
- 22 A. No, not always. We would always like to. Sometimes
- time restraints don't allow that to happen.
- Q. If you haven't been to the building, does it follow,
- 25 then, that you are relying on the information that is

- 1 provided to you?
- 2 A. Yes, we have to -- in our business, we have to rely on
- 3 the information that's supplied to us in the same way
- 4 that if it was a new build project, then there are only
- 5 drawings and information to work on.
- 6 Q. Can I show you, please, the document at page 1508 that
- 7 I've just put on the screen. This is a document which
- 8 describes itself as a "performance specification for the
- 9 provision of polyester powder-coated aluminium windows
- 10 and doors" for Lakanal House. Is that a document that
- 11 SAPA have prepared?
- 12 A. That's actually a document that I prepared on SAPA's
- behalf.
- 14 Q. In the bottom right-hand corner of that page, do we see
- 15 a date, 24 December 2004?
- 16 A. I do.
- 17 Q. Was this the first version of the performance
- 18 specification?
- 19 A. I'll just have to go, if I can flick through here, to
- 20 the back page and I can tell from there. Yes, this is
- 21 the first document on 24 December.
- 22 Q. Could you just let us know the page number you were just
- 23 referring to?
- 24 A. I'm sorry, I do apologise. It's 1065.
- 25 Q. 1065. Is what you were looking at the date in the

- bottom right-hand corner?
- 2 A. That's correct.
- 3 0. 24/12/04?
- 4 A. Yes.
- 5 Q. Is there a difference between a performance
- 6 specification and some other kind of specification?
- 7 A. Well, there is now. Again, if we stay strictly with the
- time period we're referring to, back then we wrote
- 9 performance specifications, and that has moved on now to
- 10 what they call NBS specifications.
- 11 Q. At the time this document was drafted, you entitled it
- 12 "Performance specification" rather than simply
- 13 "Specification". Was that to make some particular
- 14 distinction?
- 15 A. No, that's -- I don't believe it was. I -- that's
- 16 actually the specification template, and we call it
- 17 a performance specification because it outlines things
- such as the weather rating, for example.
- 19 Q. Could somebody who received this document go away and
- 20 build the window and door sets without any other
- 21 information?
- 22 A. No.
- 23 Q. What else would they need to have before they were able
- 24 to build the windows and doors described in the
- 25 specification?

- 1 A. Well, what would happen if we went back to the sketches
- 2 provided by David Sales is an, if you like,
- 3 configuration of how the windows were required, and what
- 4 we'd have to look at is whether we could achieve those
- 5 wind loadings, those designs that you see the bottom
- 6 right-hand drawing. There's quite a span there. We
- 7 have to consider the sag that the weight of the windows
- 8 might cause. We have to take into account any wind
- 9 loadings that may be imposed upon those windows,
- 10 particularly at high levels. So what we'd have to do is
- 11 look at how we calculated that, and there's more than
- one way of fabricating that window, and you'll see or
- 13 note in the email that was displayed earlier that we
- 14 referred to full height mullions, and you'll see in the
- original sketches that they're not.
- 16 Q. That's quite a lot of information there. Let me see if
- 17 I can break it down in this way. These sketches
- 18 provided by Marsland, this is what they were asking you
- 19 to design the frames for; is that right?
- 20 A. That is correct.
- 21 Q. And so you had to assess whether what was being asked
- 22 for was technically feasible --
- 23 A. Also correct.
- 24 Q. I'm sorry?
- 25 A. That is also correct.

- 1 Q. Yes -- and if it wasn't feasible, what the best way of
- designing it would be?
- 3 A. Indeed, yes.
- 4 Q. You mentioned a moment ago that the emails referred to
- 5 full height mullions; that is full height vertical
- 6 sections of the frames?
- 7 A. That's correct.
- 8 Q. And is it right the point you were just making is that
- 9 these drawings we're now looking at do not show full
- 10 height mullions?
- 11 A. That's correct.
- 12 Q. But at this stage the design of the frames and which
- 13 profiles you would use, which sections of aluminium, was
- what you were being asked to design?
- 15 A. Yes. I had sent back -- in response to the sketches
- that are now up on the screen, I had sent back amended
- 17 sketches to David Sales with the notes that would -- on
- my sketches would be in the bottom right-hand corner.
- 19 Q. To the back to the question I asked you a few moments
- ago about what information somebody would actually need
- 21 to build the windows, if I were armed with this page and
- 22 also with the performance specification, could I go away
- and make up and install the windows?
- 24 A. In principle, yes, but it's not quite that simple,
- 25 because there's software that's used to determine

- 1 whether windows can be made to a certain size, to
- 2 calculate the wind loadings, maximum sizes of windows.
- 3 So a fabricator with the information that we've supplied
- 4 could actually make these windows. Maybe not exactly to
- 5 design. They may come up with their own design.
- 6 Q. Would there be a need for you or for the fabricator to
- 7 go to the site and measure the individual spaces that
- 8 the window sets were going to be put into?
- 9 A. No. Sorry, can I just correct that? In terms of when
- 10 we're looking at doing specifications, whether a window
- is, we'll say, one metre tall or one metre and five
- 12 millimetres is irrelevant from a quoting point of view.
- 13 If one is to actually then fabricate a window to
- 14 actually fit in, if you like, the hole in the building,
- then of course you would have to go to site and measure
- it for an installed measurement.
- 17 Q. I see. So at the stage of providing a specification in
- 18 response to the query from Marsland -- and as we know,
- it was ultimately going to go to Annabel Sidney -- it
- wasn't necessary to go to the site to measure where the
- 21 windows were going to be put in?
- 22 A. No, it wasn't necessary to go there.
- 23 Q. But in order to install them, in due course it be?
- 24 A. Oh absolutely, yes.
- 25 Q. In the information which had been provided to you by

- that stage -- and we will just remind ourselves; it's
- 2 the information in the email, the sketches we've just
- 3 been looking at and the photographs -- there was no
- 4 reference either way to fire safety?
- 5 A. There wasn't.
- 6 Q. Is that unusual for a project of this sort in your
- 7 experience?
- 8 A. No, it's not unusual. I'd say in the majority of cases,
- 9 probably -- well, I think I did actually calculate
- there's around about 1 per cent of the projects I work
- on require fire-rated products.
- 12 Q. When a request made to SAPA is silent on fire safety,
- 13 how do you deal with that at the design stage, when
- 14 you're preparing your specification?
- 15 A. If no -- no reference is made to fire-rated product when
- we receive our information, then we take on board the
- information that we're given and supply the
- 18 specification according to the information we're given,
- if we're talking about -- solely about the time of 2006
- 20 to 2007.
- 21 Q. Could we go back then, please, to page 1058, which is
- the original performance specification, and just look at
- a couple of elements of it so we understand what it was
- 24 you were putting forward.
- 25 The first thing to note then on page 1058 itself is

- that it was a specification for polyester powder-coated
- 2 aluminium windows and doors. Is that a reference to the
- 3 facing of the panels that would be used?
- 4 A. It's a reference to the fact that the product itself,
- 5 the profile is aluminium and the coating on the
- 6 aluminium is powder coating.
- 7 Q. Just going over the page to page 1059, in the
- 8 introduction section it explains the context of the
- 9 specification. We can see that it's for "the supply and
- installation of aluminium windows and doors to replace
- 11 existing windows and doors". As far as you were aware,
- was this a wholesale replacement of what had been there
- 13 previously?
- 14 A. It was a replacement scheme, yes.
- 15 Q. At the time you prepared this document, did you know
- what was already in place and what it was made of?
- 17 A. No. Part of what I worked on, again, coming back to the
- information file, was the reference to Colbert House,
- 19 that it was very similar to Colbert House, so we were
- 20 familiar with the estate.
- 21 Q. Is Colbert House another building on the Sceaux Gardens
- 22 estate?
- 23 A. It is.
- 24 Q. But at this stage you were being asked to draw up
- 25 a specification to replace what was there without having

- been to site and without having been given information
- about what was in Lakanal House; is that right?
- 3 A. Correct.
- 4 Q. Going over the page, please, to page 1060, under the
- 5 heading, paragraph 5, "Window and door construction,"
- and then the subheading "Windows", we can see:
- 7 "To be manufactured as SAPA Building Systems ...
- 8 Dualframe 55-millimetre casement and TBT window
- 9 system..."
- 10 You told us a little earlier that SAPA doesn't in
- 11 actual fact manufacture glazed units. What is this
- referring to? What is that system for?
- 13 A. The system referred to there called "Dualframe" is the
- 14 actual, if you like, product name, the brand.
- 15 "55-millimetre" refers to the thickness, the front to
- 16 back measurement of the system. The casement would mean
- 17 a typical side-hung open casement with which generally
- 18 most people are familiar, where the -- it just swings,
- 19 hinged on one side. And then "TBT" stands for "tilt
- 20 before turn", and that's when the window is hinged at
- 21 the bottom, it drops into the building, you close the
- 22 window again and then you can open it inwards, like
- a casement window, for cleaning.
- 24 Q. If SAPA don't manufacture glazed units, what is it about
- any of that which is actually part of SAPA's product or

- 1 SAPA's system?
- 2 A. The part that's actually SAPA is actually detailed below
- 3 when we look just slightly below that, where it says
- 4 outer frame, opening light, outer frame, transom, and so
- 5 on and so forth.
- 6 Q. This list that we have in the middle of the page, is
- 7 that a list of SAPA profiles?
- 8 A. That is correct. Sorry, that's correct in the sense
- 9 relating to the casement of tilt before turns. It's not
- 10 all the profiles that we do.
- 11 Q. As said earlier, whatever is said in this document,
- 12 a contractor would, in principle -- well, first of all
- a designer is free to reject the specification?
- 14 A. Yes, that's correct.
- 15 Q. And if the specification is included in the tender, then
- 16 the contractor is free to reject it, presumably if they
- 17 provide a suitable alternative?
- 18 A. Yes, the common phrase used is -- it would perhaps be,
- in this instance, a "SAPA-equal" or "approved". It
- 20 wouldn't say solely SAPA.
- 21 Q. A few pages further on, please, at page 1063, there is
- 22 a description of the type of panels to be used, towards
- the bottom of the page, next to heading 11, "Glazing"
- Do. You have that in front of you?
- 25 A. I do, yes.

- 1 Q. We can see:
- 2 "Solid infill panels where required are to be
- 3 28-millimetre insulated sandwich panels with facing of
- 4 polyester powder-coated aluminium."
- 5 SAPA don't manufacture the panels?
- 6 A. No, SAPA don't manufacture panels.
- 7 Q. What is it which determines, in your specification, what
- 8 sorts of panels you put forward?
- 9 A. Well, what we have to do in the specification, we're
- often asked, as in this case, is a type of panel that
- 11 will fit into our system. Of course, not just any panel
- 12 will fit into a framing, so we tend to put forward the
- powder-coated aluminium panel. Mainly, in this case,
- 14 you'll note the reference that says "finished to match
- framing". So the framing is a white polyester powdered
- 16 coating and the only true way to get something that
- 17 truly matches is to have something of the same finish,
- so as a powder-coated aluminium panel you could have
- 19 exactly the same colour as per the frames.
- 20 Q. Do we understand then that from the point of view of
- 21 SAPA producing the specification, the type of panel to
- 22 be used is really secondly to the design of the frames,
- 23 because you have to suggest a panel which will fit with
- the frames you are designing?
- 25 A. It is. It's a non-SAPA product, and what we do is we

- 1 make the suggestion of a panel that will fit in to our
- 2 system, based on the recommendations or information
- 3 given by the specifier, and then, further on towards the
- 4 bottom of the specification, you will see that we advise
- 5 the specifier to go and check with the manufacturer of
- 6 the panels to make sure they're suitable. It's a little
- further down. That would be page 1065.
- 8 Q. Thank you. So if we look at the bottom of 1065, we have
- 9 the small print, and the first of the footnotes is:
- 10 "Information is given on an advisory basis only and
- 11 specifiers are particularly recommended to contact
- 12 suppliers of non-SAPA Building Systems Limited products
- 13 to ensure that such products are suitable."
- 14 A. That's correct.
- 15 Q. So in the context of this specification, does that in
- 16 fact mean everything part from the frames?
- 17 A. Indeed. I think -- there's really three key elements:
- 18 panels, glazing, frames.
- 19 Q. So in the specification, you have suggested
- 20 28-millimetre composite panels with powder-coated
- 21 aluminium facing, but those are not SAPA products, and
- 22 so this part of the specification tells the person you
- are providing it to to consider whether those panels are
- 24 appropriate?
- 25 A. That's correct.

- 1 Q. The explanation of what type of panels should be used
- that we were looking at a moment ago on page 1063
- 3 describes them in general terms, according to, for
- 4 example, their depth and the finish, but it doesn't
- 5 actually name a particular producer of panels, for
- 6 example, or a particular model number. Did you ever get
- 7 as far as specifying a particular type of panel in that
- 8 way?
- 9 A. No, SAPA wouldn't specify the panel in any great detail.
- 10 It's merely a starting point.
- 11 Q. So somebody receiving the specification would in fact
- 12 still have options about what sort of 28-millimetre
- composite panel was to be used?
- 14 A. That's correct.
- 15 Q. Could I ask you then, please, about the question of the
- 16 balcony doors. I'll just put on the screen page 1061.
- 17 Right at the top of that page, we have:
- 18 "Doors, residential, to be Dualframe 75-millimetre
- 19 HP doors system."
- "Dualframe" you've told us is the product name?
- 21 A. Yes.
- 22 Q. Is "75-millimetre" the width of the door?
- 23 A. Yes, the thickness.
- Q. What does "HP" mean please?
- 25 A. "High performance".

- 1 Q. "High performance"?
- 2 A. Yes.
- 3 O. In relation to what?
- 4 A. Weather rating, mainly.
- 5 Q. There isn't any reference there to whether the doors are
- 6 to be solid doors or glazed or part-glazed. Is the
- 7 specification simply silent on that question?
- 8 A. The -- there is -- with a choice of -- you have the
- 9 glazing specification further back in the -- sorry, the
- 10 glazing specification further back in this document,
- also with the panels, and with this particular door, you
- 12 could have glass, all glass, half-glass and then
- 13 half-glass at the bottom or a combination of panels,
- 14 whichever somebody chose to do.
- 15 Q. Is the upshot of the section we're looking at, though,
- 16 that you were not specifying that it should be one thing
- or the other?
- 18 A. No. But sorry, I should say that it does tie back to
- 19 the original sketches, which was glazed at the top and
- 20 packaging at the bottom.
- 21 Q. But just in the context of this document, this document
- doesn't specify one thing one way or the other?
- 23 A. No, this document does not.
- Q. The section that we're looking at on page 1061 to do
- 25 with doors doesn't make any mention of whether the doors

- 1 should be fire doors or not. Was that something that
- 2 you were asked to consider when preparing this document?
- 3 A. No, we were never asked to consider anything to do with
- 4 fire-rated products at Lakanal House. Had this been
- a fire-rated product that we could have supplied, it
- 6 would have stated so.
- 7 Q. If you had been asked to draw up this specification, and
- 8 for example the only mention of a fire-rated element had
- 9 been "We would like you to specify fire-rated doors" but
- 10 nothing was said about the panels or about the frames,
- 11 would that be the sort of situation you described as
- obvious earlier, where you might query why one part of
- 13 the design was to be fire-rated but other parts were
- 14 not?
- 15 A. Many buildings are very complex, so as I said, we have
- 16 to rely on the information that we're given, but if
- 17 I had anticipated there was a fire-rated product
- 18 requirement, or more so that I should have been told if
- 19 there was a requirement for a fire-rated product, then
- 20 I could have built it into this specification.
- 21 Q. Yes, my question was slightly different. Your
- 22 specification has a number of elements. If someone were
- to ask you to make one of those elements fire-rated but
- not the others, is that something that might cause you
- 25 to query what you were being asked to do or not?

- 1 A. No.
- 2 Q. No?
- 3 A. No. The answer's no.
- 4 Q. What I'd like to do is as briskly as possible follow
- 5 through what happened with this document and how it came
- 6 to be included in the tender for the Lakanal House
- 7 works. If we could turn, please, to page 1086. There's
- 8 a letter there from -- sorry, I'll wait you to get the
- 9 page.
- 10 A. I'm there.
- 11 Q. 1086, a letter from Annabel Sidney to someone called
- Daniel Wallace who works for a firm of surveyors called
- 13 Franklin & Andrews. They were assisting SBDS in the
- 14 preparation of the tender documents. We can see there
- 15 that Annabel Sidney on 13 January 2005 wrote to
- 16 Mr Wallace and said:
- 17 "Please find enclosed amendments to the draft
- 18 specification."
- I don't know whether you've ever seen this document
- 20 before? It may well be that you haven't, or at least
- 21 not at the time.
- 22 A. I didn't see the document at the time, but obviously in
- the lead-up to the inquest I have seen this document.
- Q. If we have a look, please, at page 1093, which is the
- 25 attachment to that letter. Do you see next to the

- circle with a number 19 in it at the top of the page
- 2 "kitchen windows"?
- 3 A. Yes, I see that.
- 4 Q. Then, a little further down:
- 5 "Amend to read: kitchen windows type 2 comprising of
- 6 tilt and turn and fixed windows, solid fire-rated door
- 7 to meet part B."
- 8 Were you ever asked to include in your specification
- 9 a solid fire-rated door which would meet part B of the
- 10 building regulations?
- 11 A. No, I wasn't.
- 12 Q. So that wasn't a requirement that was put forward to
- 13 you. If we look at page 1361, please, which is in file
- number 4, Mr Clark will pass it to you. (Handed)
- Do you recognise the format of this document? It's
- a schedule of the works to be carried out under
- 17 a construction contract.
- 18 A. Yes, I recognise it as a bill of quantities.
- 19 Q. If we look at the top of that page on 1361, we can see
- 20 the same thing:
- 21 "Kitchen window type 2 comprising of tilt and turn
- and fixed windows, solid fire-rated door to meet part
- 23 B."
- So in other words, the amendment that we saw in the
- 25 handwritten document has made its way into this bill of

- 1 quantities. Do you follow that?
- 2 A. I do follow that.
- 3 Q. Again, was this something that SAPA were aware of at the
- 4 time, that that had been incorporated into the
- 5 specification of the works?
- 6 A. No, it wasn't. At no point was SAPA aware of the
- 7 requirement for these doors to be fire-rated.
- 8 Q. At page 1129 -- back in file 3, I'm afraid. (Handed)
- 9 At page 1129, an email from Annabel Sidney on
- 10 19 January 2005 to Mr Sales at Marsland. I'll just make
- 11 that a little bigger:
- 12 "Dear Liam and David [because it's addressed to you
- as well], please could you have a look at the attached
- 14 document and ensure that the specification is revised
- 15 according. Please let me know if anything I have
- 16 suggested contravenes regulations or what your
- 17 experience would recommend."
- 18 Attached to that document was page 1130, headed
- 19 "Queries and amendments to window and door
- 20 specification". So it would appear that this is the
- 21 document that Annabel Sidney was sending to you and
- 22 Mr Sales for your comments. Do you remember receiving
- this document?
- 24 A. I do.
- 25 Q. Could I ask you to look in particular, please, at point

- 1 number 2, where she said:
- 2 "Both lounge and kitchen window/doors lead onto
- 3 a fire escape balcony. The doors are only meant to be
- 4 used as a means of escape and not general access,
- 5 although residents do have them open for ventilation.
- 6 They must meet the following requirements."
- 7 The first one was:
- 8 "Residents must be able to open them quickly in the
- 9 event of a fire."
- 10 And the second was:
- 11 "Lounge and kitchen doors and windows must be as
- 12 burglar-proof as possible."
- 13 If we pause there, there isn't a mention, there, is
- there, of the doors being fire doors?
- 15 A. I think we shouldn't confuse things with being called
- fire doors. "Fire-rated" is the term for doors.
- 17 There's no mention of them being fire-rated or
- 18 non-fire-rated.
- 19 Q. So no mention of the doors being fire-rated. She, as we
- 20 had seen on the previous page, was asking both you and
- 21 Mr Sales whether or not anything that she had said in
- 22 that document contravened the building regulations. Did
- it seem to you that anything she had suggested would be
- in contravention of the building regulations?
- 25 A. In the context of this document, no, but we can't just

- 1 say the building regulations per se. It's such a vast
- 2 area.
- 3 Q. Thinking in particular about part B of the regulations
- 4 and the requirements relating to fire safety, did you
- 5 understand her email to be asking you to assess whether
- 6 your design as a whole would satisfy the requirements of
- 7 part B?
- 8 A. My understanding of what I was being asked for was to
- 9 provide a door that provided means of escape, ie
- 10 a thumb-turned lock on the inside which negates the need
- 11 for a key to gain exit from that building.
- 12 Q. So far as you were concerned, whose responsibility was
- it to consider whether the design for the work that was
- 14 to be done did comply with the various requirements of
- the building regulations?
- 16 A. As I've stated earlier, the responsibility, in my
- 17 opinion, always lies with the design team, who then have
- 18 the back up and benefit of the use of building control.
- 19 Q. Can you recall, then, whether, at the time you received
- 20 that email and the attachment, you considered only the
- 21 suggested changes that she put forward at page 1130 or
- 22 whether you considered the requirements of the building
- regulations more generally?
- 24 A. I think due to the passage of time, it's -- it's not
- 25 easy to be 100 per cent clear. I've looked at the

- 1 documents and thought about if I had received it back
- then what I would have done, and I believe that my
- 3 response would have been in direct relation to the
- 4 information that was given to me.
- 5 Q. Is it correct that in response to that email you were
- 6 then sent, possibly via Marsland, an advised performance
- 7 specification?
- 8 A. I did send a revised specification. As far as I can
- 9 recall, that did go directly to Annabel Sidney, not
- 10 through Marsland.
- 11 Q. I've just put on screen the performance specification on
- 12 1134, which is in file 3.
- 13 A. Yes, I have that.
- 14 Q. The date at the bottom right-hand corner of that page
- 15 appears to be 20 January.
- 16 A. Yes, I think those dates are handwritten on after the
- 17 date. If I could just look at the back of this document
- that would tell me. Yes, that is the correct date.
- 19 Q. So this is the revised performance specification which
- you believe you sent to Annabel Sidney?
- 21 A. I believe I did, yes.
- 22 Q. Just to touch on two points quickly if we can. If
- I could ask you to turn to page 1140. It's the second
- 24 paragraph on that page. We can see that the infill
- 25 panels are still going to be 28-millimetre insulated

- sandwich panels, so no change from the original
- 2 specification there?
- 3 A. No change at all.
- 4 Q. And if we go to page 1137 to look at the doors, it's as
- 5 before, isn't it? Dualframe 75-millimetre HP doors
- 6 system?
- 7 A. Yes, it is.
- 8 Q. In other words, the changes that we saw that were made
- 9 to the bill of quantities didn't find their way into
- 10 this revised performance specification?
- 11 A. No, I was never asked to. I think you'll find the main
- 12 change in this particular document over the original is
- 13 the introduction of the thumb-turn in the hardware
- 14 section which was relating to the email received from
- 15 Annabel Sidney.
- 16 Q. So there were no changes relating to the type of panel
- 17 to be used or the specification of the doors to be used
- in this specification?
- 19 A. No change at all.
- 20 Q. Please can we turn to page 1143 to see what became of
- 21 the revised specification. It's an email from
- 22 Annabel Sidney to David Wallace at Franklin & Andrews,
- 23 the surveyors on 24 January:
- "Dear Daniel, please find enclosed the revised
- 25 performance specification for windows and doors to be

- incorporated into the tender documents."
- Would you agree it would appear that that second
- 3 version of the performance specification is what went
- 4 into the tender documents and was then sent out to the
- 5 contractors who were bidding to do the work at
- 6 Lakanal House?
- 7 A. Based on this information, I would agree.
- 8 Q. Could you help us, please, to understand the supply
- 9 chain then, from SAPA's point of view, once the work was
- 10 starting. To whom did you supply the lengths of
- aluminium that were going to be used in the frames?
- 12 A. The lengths of aluminium were supplied to a company in
- 13 Ashchurch in Gloucestershire called Joedan Windows.
- 14 Q. Is it your understanding that in turn Joedan were in
- a relationship with a company called Symphony Windows?
- 16 A. That is correct.
- 17 Q. Symphony Windows were in a contract with Apollo?
- 18 A. Also correct.
- 19 Q. And ultimately Apollo had a contract with the
- 20 London Borough of Southwark?
- 21 A. That's my understanding.
- 22 Q. Do we take it, then, that SAPA's only contractual
- relationship was with Joedan?
- 24 A. That is correct.
- 25 Q. Notwithstanding that you had, at an earlier stage,

- provided the specification to Southwark via Marsland?
- 2 A. That's correct. Our contract was with Joedan.
- 3 Q. At the stage of providing that specification, did SAPA
- 4 produce any drawings?
- 5 A. At the point of the specification, no drawings were
- 6 produced other than hand sketches, so no what I would
- 7 call technical drawings, CAD drawings.
- 8 Q. Could I show you, please, page 1067, which again is in
- 9 file number 3.
- 10 A. Yes, I have that.
- 11 Q. A lot of the text is quite small, but we can see in the
- 12 top left it's headed "Lakanal -- windows. Drawing
- 13 number LW1". Then on the right-hand side there are
- 14 drawings of three different sections of facade, which we
- may recognise as being the bedroom windows, the kitchen
- and the lounge. On the right-hand side, two other
- 17 sections, and if we look at the bottom right-hand
- 18 corner -- in fact, it's helpful first to look in the
- 19 bottom left-hand corner, the words "Southwark Building
- 20 Design Service". Do you see that?
- 21 A. I do.
- 22 Q. Do we take it that this is an SBDS drawing rather than
- 23 a SAPA drawing?
- 24 A. I'd say it is, yes.
- 25 Q. And the date of it, towards the right-hand side,

- 1 January 2005?
- 2 A. Yes.
- 3 Q. Was that a drawing that you had at the time of preparing
- 4 the revised specification? Can you remember?
- 5 A. That specific drawing?
- 6 Q. This particular drawing.
- 7 A. No, the original -- the information I had was the hand
- 8 sketches drawn by David Sales.
- 9 Q. Was this drawing produced with the assistance of SAPA,
- or was this a drawing which SBDS produced on their own?
- 11 A. I didn't assist with the drawing.
- 12 Q. You didn't assist with it. Were you the person at SAPA
- who was involved in this project?
- 14 A. I was, but what I'm saying -- I can't tell, obviously,
- if they phoned in the offices or not. But it looks very
- 16 much -- it's not our type of drawing so I would assume
- 17 it was solely done by Southwark Building Design
- 18 Services.
- 19 Q. Moving on from the specification stage to see how things
- developed from there, could I ask you, please, to look
- 21 at page 1283, which is in the fourth bundle. Hopefully
- 22 you can help us to understand the source of the
- documents which made their way ultimately to Symphony
- Windows. We have here a letter from Apollo to Symphony
- 25 Windows for the attention of somebody called Tom

- 1 Campbell, and this letter is dated 23 August 2005. Do
- 2 you see that?
- 3 A. Yes, I do.
- 4 Q. I'll just zoom in to make it easier to read. The first
- 5 paragraph says:
- 6 "We are currently tendering for the above project
- 7 and would be pleased to receive your most competitive
- 8 quotation on a supply or supply-and-fix basis for the
- 9 aluminium windows requirements."
- 10 There's then a list of documents which are attached
- 11 to this letter. Do you see that? So we have
- 12 preliminary pages, 5/8 through to 5/10, something called
- location, and then preamble pages, the window/door
- 14 specification, and then three documents called L10, L20
- and L40, and some pages from the schedule of works, 7/19
- through to 7/21, and some others. Then, a little
- 17 further down, "Drawings: LW1". Of course, we've just
- seen the drawing LW1 a few seconds ago.
- 19 A. Yes.
- 20 Q. Could I ask you just to help us with each of those
- 21 things in turn. Page 1284, project particulars. Is
- that a document which SAPA drew up?
- 23 A. No.
- 24 Q. Do you know who drew that document up?
- 25 A. I don't. I assume Southwark Building Design Services,

- 1 as it says at the top, maybe.
- 2 Q. There's then this document, "Requirements for the
- 3 replacement of window/panel/door units window designs".
- Is that a SAPA document, do you know?
- 5 A. It's not a SAPA document.
- 6 Q. Are you able to say where that came from?
- 7 A. I'm sorry, I have no idea.
- 8 Q. Then there are these three documents that begin with the
- 9 letter L. So at 1306, a document that looks like that,
- 10 "Windows/roof lights/screens/louvres", some details
- 11 about the performance required and the components to be
- used. Is that a document which originated from SAPA?
- 13 A. No, it's not. L10 is, if you like, an abbreviation for
- 14 a window specification.
- 15 O. Is that conventional that that's what L10 is short for?
- 16 A. Industry standard.
- 17 Q. Do you know who prepared that document?
- 18 A. Sorry, again, I have no idea.
- 19 Q. Then if we go on to page 1297, we see this again. This
- 20 is the SAPA performance specification document.
- 21 A. That's correct.
- 22 Q. So of that list of documents that it seems were sent by
- 23 Apollo to Symphony Windows, do we understand that the
- only one of those which SAPA have prepared was the
- 25 performance specification?

- 1 A. Yes, the one on the screen now.
- 2 Q. In February of 2006, on the 13th, there was
- a pre-contract meeting. I've just put up the first page
- 4 of the minutes on the screen. It doesn't suggest,
- 5 looking at the minutes, as though anyone from SAPA
- 6 attended that pre contract meeting. Does that tie in
- 7 with your recollection?
- 8 A. I would suggest as I'm not on the list, or anyone from
- 9 SAPA is not on the list, then we weren't there. I would
- 10 have to check a calendar to see where I was on that day.
- 11 Q. Would you expect to attend a pre-contract meeting of
- 12 this sort?
- 13 A. No, I wouldn't. The reason being I wouldn't expect to
- 14 is quite simply at this point the contract has been
- 15 agreed, shall we say, and those parties that are in the
- 16 contract are in contract, and SAPA wouldn't be one of
- 17 those parties, so therefore we would have to be invited
- 18 to a meeting as opposed to just as a matter of course
- 19 being invited to it.
- 20 Q. During the work, the clerk of works prepared a report
- 21 each week, and I've just put on the screen page 1649,
- 22 which is a page from one of those reports. Page 1649 is
- in the fifth bundle. (Handed) I've put it on the screen
- as well.
- 25 A. Yes, I have that.

- 1 Q. Mr Hanson, we're interested in the top one of those
- 2 boxes, the entry for Monday, 27 March 2006. The clerk
- of works has recorded:
- 4 "Meeting held on site with the site agent, CPM [who
- 5 we understand is Annabel Sidney], project consultant
- 6 from SAPA and site agents from Apollo."
- 7 Do you recall whether you were the project
- 8 consultant from SAPA who attended on the site on this
- 9 day?
- 10 A. I didn't until I saw this document, as I say, in
- 11 relation to the inquest, but we have electronic
- 12 calendars that were used and I then correlated this
- document to my calendar and I did attend the meeting.
- 14 Q. Can you remember what the purpose of that meeting was?
- 15 A. I'm sorry, but I can't.
- 16 Q. As we understand it, that was the second week of works.
- Does that help you? Can you remember a meeting at the
- very early stages?
- 19 A. Not particularly. The thing that springs to mind, which
- is just really an opinion, not necessarily factual, is
- 21 that there were some documents requesting window
- 22 samples. It could have been to take a sample, but as
- I said earlier, I just simply don't recall exactly what
- that meeting was for.
- 25 Q. Do you recall that a little later on in the project, on

- 1 3 May, there was a meeting to which SAPA were invited?
- 2 A. Unfortunately, during that period I was off on sick
- 3 leave for two weeks following a motorcycle accident. So
- I know of it, but I didn't attend.
- 5 Q. You didn't attend it yourself but is it right that your
- 6 colleague Mr Hurrell attended in your place?
- 7 A. That is my understanding.
- 8 Q. I'd like please to look at some of the documents that
- 9 were going backwards and forwards in the run up to that
- 10 meeting so that you can explain the context of it to us.
- 11 Could I take you first of all to page 1729. We can see
- in the top right-hand corner the Symphony logo, so this
- isn't a SAPA document, but it seems to be a fax from
- 14 Symphony Windows to Apollo for the attention of James
- Cousins on 13 April 2006, attaching ten or 11 other
- sheets.
- 17 If we look forward, please, together to page 1738,
- there's a drawing there which apparently was attached to
- 19 that fax. Looking at that document, first of all,
- 20 ignoring what's written on it, are you able to say
- 21 whether that is a SAPA produced diagram?
- 22 A. It could be from our software package, which the company
- I mentioned earlier, Joedan, would have access to. So
- it looks on a similar format, but I couldn't say with
- 25 absolute certainty.

- 1 Q. We can see that somebody has made various handwritten
- 2 annotations on it. Is that your handwriting, first of
- 3 all?
- 4 A. No, it's not.
- 5 Q. If we look in the bottom right, somebody has written
- 6 these words, they've said:
- 7 "James, this is as tender. SAPA are now saying the
- 8 outer frame should be larger."
- 9 And then:
- 10 "Trying to resolve as the sections were specified
- 11 by ... "
- 12 And then the words are cut off at the bottom.
- 13 A. Sorry, I'm just on the wrong page.
- 14 Q. Sorry, it's page 1738.
- 15 A. Yes, I'm with you now.
- 16 Q. Those words are in handwriting at the bottom right-hand
- 17 corner of the page.
- 18 A. Okay. It's not my handwriting.
- 19 Q. The suggestion there is that there was a need for the
- 20 outer frames to be larger and that there was something
- 21 that needed to be resolved. Can you remember whether at
- 22 that stage in April 2006 there was a problem with the
- 23 design of the frames?
- 24 A. Well I can obviously again, having gone over these
- documents recently, I do recall there was an issue with

- the detailing, but if we were to go right back to the
- 2 beginning of this conversation, we've mentioned about
- full height mullions, full length mullions, these
- 4 clearly don't have it. So it's not -- it's not a design
- fault, it's merely someone has chosen to redesign the
- 6 windows.
- 7 Q. In simple terms, please, what is the significance of
- 8 whether the mullions are full height or not?
- 9 A. Well if we're looking at what's up on the screen
- 10 currently, you will see in essence there's, for the sake
- of argument, four windows along the top and two areas at
- the bottom. The problem with what's been designed there
- is that the fact that the transom, ie the horizontal
- 14 section, between the hop half and the bottom half, there
- would be a very good strong possibility that that would
- 16 sag. Should that sag, obviously glazing can pop out,
- 17 windows don't operate correctly, so when we did the
- original calculation we would make sure that that was
- 19 supported effectively enough so it wouldn't sag, and for
- wind loadings.
- 21 Q. Would I be right if thinking that the full height
- 22 mullions, if they had been included, would be, first of
- all on this left hand section, where I have the arrow?
- 24 A. That's correct.
- 25 Q. That would extend down the whole length, and likewise on

- the right-hand side?
- 2 A. That is correct.
- 3 Q. And that would provide more support to the structure?
- 4 A. Yes, the necessary support, yes.
- 5 Q. Given that discrepancy between this drawing and the
- 6 performance specification SAPA compiled, is that
- 7 a reason for thinking that SAPA did not produce this
- 8 document?
- 9 A. Yes.
- 10 Q. Following things through, could we go, please, to
- 11 page 1783. This time it's a letter from Apollo to
- 12 Annabel Sidney on 20 April 2006, about a week later on.
- 13 He says:
- "Please find enclosed the following drawings."
- Which appear to be alternative drawings for each
- 16 type of window set. Underneath that in the main
- 17 paragraph, the writer says:
- "Due to the original design of windows numbers 1, 4
- and 5 failing to provide sufficient strength throughout
- the fenestration, SAPA are recommending the coupling
- 21 support to be added as window alternatives 1, 4 and 5."
- Was it the case, so far as you were concerned, that
- 23 the original design didn't provide the strength
- 24 required?
- 25 A. The original design drawing by SAPA passed to Marsland

- 1 and passed to Southwark Building Design did meet the
- 2 requirements for wind-loading. Somewhere along the line
- a decision was made to change that design, and that's
- 4 the effect of the drawings we were looking at earlier.
- 5 Q. When that change that you mention was made, can you
- 6 recall whether or not SAPA were consulted about it?
- 7 A. I certainly wasn't consulted, but this date that we're
- 8 looking at here, 20 April, was just prior to me going on
- 9 sick leave, so I can confirm that I certainly wasn't
- 10 consulted.
- 11 Q. On page 1802, we have an email that was written five
- days later than that letter. It's an email from
- 13 Annabel Sidney to James Cousins at Apollo which said:
- "Dear James, please find attached our response to
- 15 your letter of 20 April."
- 16 Which is the letter that we've just been looking at.
- 17 On the next page, page 1803, we have the letter that was
- 18 attached. So this is Annabel Sidney, we see at the
- 19 bottom there, to James Cousins, dated 20 April 2006.
- 20 She says:
- 21 "Thank you for your letter of 20 April and
- 22 enclosures regarding the windows."
- 23 Then the second paragraph:
- "In order for us to respond to your queries and
- 25 enable you to make a full presentation of the

- 1 information required, may I suggest that we meet at our
- 2 offices with yourselves, our client, SAPA and Symphony
- 3 at 3 o'clock on Wednesday 3 May 2006."
- 4 Do you recall whether this was a letter that you saw
- 5 at the time?
- 6 A. At the time, I did not see this letter.
- 7 Q. If we go on just a few pages to page 1805, at the bottom
- 8 there, we have an email from Mr Hurrell, your colleague,
- 9 to you on 26 April:
- 10 "Liam, a pre-start meeting of all parties has been
- 11 called for next Wednesday at 9 o'clock. I'm going to
- 12 commit one of us to be, you if you are fit, me if not.
- 13 Regards, Graham."
- 14 So is that Mr Hurrell letting you know about that
- 15 meeting?
- 16 A. Yes, it was. During that period, I think it was
- 17 24 April, I was on sick leave, as I say, following
- 18 a motorcycle accident for two weeks. However, albeit
- being on sick leave, we do tend to pick up emails and
- one thing or another, so I think it's just a question of
- 21 my colleague Graham keeping me informed, and I was
- 22 keeping him informed of my expected return to work.
- 23 Q. At page 1809 we can see that James Cousins of Apollo is
- telling Annabel Sidney on 28 April that he had spoken to
- 25 somebody at SAPA and that SAPA had confirmed that you

- 1 would attend the meeting, that is somebody from SAPA
- 2 would attend the meeting.
- 3 Could we look, please, at page 1819.
- 4 A. Yes, I have that.
- 5 Q. We have what seems to be the agenda for the meeting on
- 6 3 May 2006 at 3 o'clock. Can you recall whether at the
- 7 time you saw that agenda?
- 8 A. No, I haven't, I only saw this agenda very recently.
- 9 Q. In that case I won't ask you anything more about it.
- 10 Could I ask you, please, to look just at one more
- document for now, which is at page 1828. It is an email
- 12 from, at the bottom of the page there, Graham Hurrell to
- 13 Graeme Paterson on 3 May at 10.40 in the morning. First
- of all, who is Graeme Paterson, please?
- 15 A. Graeme Paterson is office based and he's in our
- 16 technical team.
- 17 Q. We can see that Mr Hurrell was writing to Mr Paterson
- 18 and he said:
- 19 "More info, Liam's spec mentioned DF709 as
- 20 a horizontal coupler. Can this be done? Is it strong
- 21 enough for the lyy calc?"
- Is that a loading calculation?
- 23 A. Yes, it's actually iyy, that's where I was speaking
- 24 earlier about the sag of windows, so instead of being
- 25 the vertical, the ixx, the horizontal is the iyy.

- 1 Q. So it's an email on the morning of the day of the
- 2 meeting from Mr Hurrell to somebody in SAPA's technical
- 3 department asking a question about loading?
- 4 A. Correct.
- 5 Q. Can you recall whether anyone mentioned this email to
- 6 you at the time, or was this also when you were on
- 7 leave?
- 8 A. I would say it was unlikely actually at the time,
- 9 because as I say I was off sick, but certainly after my
- 10 return to work, which I believe was 8 May.
- 11 Q. Madam, that might be a convenient moment to break.
- 12 THE CORONER: Thank you.
- 13 Yes, we'll have a break now until 2 o'clock, thank
- 14 you, members of the jury.
- Mr Hanson, because you're part way through giving
- 16 your evidence, the strict rule is that you must not talk
- 17 to anyone at all about your evidence or indeed this
- 18 matter, so the safe option for you is to have lunch by
- 19 yourself.
- 20 A. Okay, I will.
- 21 THE CORONER: And please be back here for 2 o'clock.
- 22 (12.58 pm)
- 23 (The short adjournment)
- 24 (2.00 pm)
- 25 (In the presence of the Jury)

- 1 THE CORONER: Thank you. Yes, Mr Hanson, thank you.
- 2 MR ATKINS: Yes, Mr Hanson, before lunch we had been looking
- 3 at the correspondence which led up to the meeting on
- 4 3 May 2006. As you've explained to us, at the time
- 5 unfortunately you were off work and so you couldn't go
- 6 to that meeting. Is it right that your colleague
- 7 Mr Hurrell went in your place?
- 8 A. It is right.
- 9 Q. Could you remind us, please, when it was you came back
- 10 to work?
- 11 A. I came back to work on 8 May, which was a Monday.
- 12 Q. I'd like, please, to show you some emails which were
- 13 sent shortly after that meeting, starting at page 1849.
- 14 That page is in the fifth of the files.
- We're looking at the email there towards the bottom
- of the page from Mr Hurrell to someone called Crispin.
- 17 Can you just tell, is he someone who works for SAPA?
- 18 A. Crispin is one of the technical advisers, office-based.
- 19 Q. So he's part of the same team at Graeme Patterson?
- 20 A. He is indeed.
- 21 Q. So this was an email sent on 4 May. Perhaps if we could
- all just read through that, we'll see that it's to do
- with transoms, the question of whether there would be
- 24 sagging in the framing, and some different options that
- 25 were available. Was that an email which you remember

- 1 seeing at the time?
- 2 A. I don't particularly remember seeing it at the time, but
- 3 I'm sure I did.
- 4 Q. If we could go, please, to page 1872. There's an email
- 5 at the bottom of that page from James Cousins of Apollo
- 6 to Graham Hurrell and also to Symphony Windows' general
- 7 address, which says:
- 8 "Graham/Nick, have you retested the wind deflections
- 9 of the windows or is there a requirement for an internal
- brace of some description?"
- Does that, again, appear to be to do with the
- 12 strength of the window sets?
- 13 A. Yes, I believe it does. I would only say that
- 14 "retesting" is the wrong word. It's "recalculating"
- 15 should be the correct word.
- 16 Q. These are calculations that are done on paper rather
- than a test done in 3D, as it were?
- 18 A. It is a piece of software, so you don't -- it's not --
- 19 a test is a completely different thing to us to
- 20 a calculation.
- 21 Q. Then if we look towards the top of that page, please,
- there is an email from Symphony Windows back to James
- Cousins at Apollo, on 8 May this time, which begins:
- "James, just to keep you up to speed, I have had
- 25 a chat with Liam Hanson of SAPA this am. It appears

- 1 they are resolving wind-loading issues without the need
- 2 of a brace and at the same time this would now indicate
- 3 that we don't need to pursue load-bearing panel
- 4 options."
- 5 So he's referring there to a conversation which he
- 6 had had with you. Could I ask you: when you returned to
- 7 work, did you speak to Mr Hurrell about what had
- 8 happened at the meeting?
- 9 A. I would suggest it was more a case of the second week
- 10 I was off work sick, which was sort of probably the
- 11 first few days of May, I was keeping up to speed with
- 12 Graham, and he, of course, was emailing me. So I would
- 13 suggest that I had conversations probably prior to this
- 14 day, and indeed perhaps first thing on that morning.
- 15 Q. So far as you were aware, did Mr Hurrell make any notes
- of the meeting on 3 May?
- 17 A. That I don't know.
- 18 Q. Have you ever seen any notes of that meeting taking by
- 19 him?
- 20 A. Not that I recall.
- 21 Q. But you think that at the time you had this conversation
- 22 with -- you can just see his name there at the bottom:
- Nick. That's Nick Coupe, I think, of Symphony Windows?
- 24 A. Yes.
- 25 Q. At the time you had this conversation with Mr Coupe, you

- think you were in the loop from speaking to Mr Hurrell?
- 2 A. Yes, I do believe so.
- 3 Q. Can we also please, look at page 1893, a little further
- 4 on in the bundle.
- 5 A. Yes, I have that.
- 6 Q. There's an email right at the bottom of that page from
- 7 you to, I think, Mark Snowdon at Joedan; is that right?
- 8 A. That looks like, yes.
- 9 Q. We can see again the date is 8 May, the same as the last
- 10 email we looked at. You said:
- 11 "Good afternoon, Mark. Please find attached a CAD
- 12 drawing relating to the above project. I have spoken
- 13 with Nick Coupe today to advise him of the changes and
- 14 to inform him of the importance of ensuring good sound
- 15 fixings and packing to the head of window and in
- 16 particular the need for a fixing 150 millimetres either
- 17 side of the mullion."
- So to those two emails that we've looked at refer to
- different conversations with Mr Coupe, or is there one
- 20 conversation?
- 21 A. My understanding from, as I say, the passage of time --
- I'm just trying to recall exactly what did happen.
- There's a particular detail where two screws are needed
- to be inserted. That's what the 150-mill refers to, and
- 25 that's just again to stop this sagging issue with the

- 1 weight of the windows above.
- 2 Q. Other than issues to do with sagging, can you remember
- 3 whether you discussed any other topics with Mr Coupe on
- 4 8 May?
- 5 A. As far as I can recall the conversation on that day --
- 6 I dare say there probably was some other chit chat along
- 7 the way, but the main core of the conversation was to do
- 8 with this element of ixx and iyy calculations or, if you
- 9 like, in short, wind-loading and sagging.
- 10 Q. At that time, in the early part of May, were you aware
- 11 that any change was being proposed to the type of panel
- which should be used?
- 13 A. I don't think I was at that point.
- 14 Q. Could you turn, please, to page 1941, just looking again
- 15 at the question of the doors for the kitchen and the
- lounge on the upper floor of each flat. We have here
- 17 an email from Annabel Sidney to James Cousins at Apollo
- 18 on 10 May 2006. She said:
- 19 "Hi James, I'm out of the office in a couple of
- 20 minutes. I've only had a quick glance at the drawings.
- 21 As discussed last week, subsequent to the residents'
- letter, I advised that the doors are to be fully
- 23 panelled and not semi-glazed as we had previously
- decided. Can you get SAPA to revise those drawings,
- 25 please, to reflect that."

- 1 Can you recall whether, in the middle of May 2006,
- 2 you were asked to revise drawings to show a different
- 3 type of door?
- 4 A. I -- I can say that we weren't asked to do some revised
- 5 drawings because at that point the project is in
- 6 contract, so those parties that agreed to be in contract
- 7 are, and that doesn't include SAPA so it wouldn't be my
- 8 place or position to issue drawings for a live project.
- 9 Q. We've seen already that the SAPA performance
- 10 specification didn't specify a particular sort of door,
- 11 for example a solid door or a wholly glazed door. Did
- 12 you update the performance specification at any time to
- deal with doors?
- 14 A. No, the only time the specification was updated, as we
- discussed before lunch, which was fundamentally to
- 16 change the type of locking on the inside of the door.
- 17 Q. In other words, the performance specification document
- 18 remained silent about what sort of door would be used?
- 19 A. That's correct.
- 20 Q. Could I ask you, please, to move on to page 2099, which
- 21 is in the sixth bundle. Mr Clark is just getting it for
- you. (Handed) This is an email that the jury have seen
- 23 before. It's an email from Annabel Sidney to James
- Cousins on 2 June 2006, when she says:
- 25 "Hello James, I've just spoken with Nick at Symphony

- and I'm happy to proceed with the Trespa."
- 2 So it seems this was about a change in the type of
- 3 panels that were going to be used. Can you recall
- 4 whether you were aware in June 2006 that there was going
- 5 to be a change from the aluminium panels which were
- 6 included in your performance specification to the panels
- 7 that were faced with Trespa?
- 8 A. As far as I can recall, I wasn't aware. The panels, as
- 9 stated earlier, are not a SAPA product so it wouldn't be
- 10 something I would be referred to.
- 11 Q. Did SAPA, at any stage of this project, produce any
- drawings to show what was actually being installed, what
- 13 I think might be called "as-built drawings"?
- 14 A. The drawings that were produced by SAPA were initially
- amendments to the sketches from David Sales, and I -- as
- 16 far as I'm aware, there were some drawings produced
- 17 following the period when I was on sick leave about the
- 18 window designs. They would then be sent on further up
- 19 the chains but SAPA do not and cannot approve drawings
- 20 for installation.
- 21 Q. Have you seen any formal CAD drawings that show what was
- 22 actually installed?
- 23 A. I've seen a number of drawings in relation to the build
- 24 up to this inquiry, but not -- none that I particularly
- 25 recall at the time of the project being live on site.

- 1 Q. Is that normal, in your experience, that you might get
- 2 to the end of that project and not be holding a drawing
- 3 that shows what has been built?
- 4 A. It's quite commonplace.
- 5 Q. Finally, then, could I ask whether, so far as you know,
- 6 what was installed at Lakanal House corresponded with
- 7 what you had originally put in the performance
- 8 specification?
- 9 A. Going back to the original performance specification,
- 10 the actual framing that was specified was installed, the
- 11 door that we specified was installed -- that being the
- 12 lounge doors and the kitchen doors -- and as far as I'm
- aware, the glass specification was the same, and I think
- it was just the panel specification that changed.
- 15 Q. Earlier you drew our attention to a difference between
- 16 some of the drawings we looked at and the specification
- 17 to do with whether the mullions were full height or not.
- In the end, is what was constructed consistent with the
- 19 performance specification on that point or not?
- 20 A. Yes, I think after we initially raised the concerns
- 21 about the mullions not being full height, that was
- 22 addressed and that was amended, and again that was over
- the two-week period that I was on sick leave.
- 24 Q. Mr Hanson, thank you. Those are all the questions
- I have. If you wait there, there may be questions from

- 1 others.
- 2 A. Thank you.
- 3 THE CORONER: Thank you. Mr Hendy?
- 4 Questions by MR HENDY
- 5 MR HENDY: Mr Hanson, my name's Hendy. I represent some of
- 6 the bereaved families. I want to just ask you about the
- 7 specification that you drew up. Can we take the final
- 8 specification as it was in the form attached to the
- 9 tender documents. For this, we need volume 4 at 1297.
- 10 (Handed) As I say, this is the version which you
- 11 produced which was amongst the various documents sent to
- 12 those who were interested in putting in a tender for the
- 13 works. Mr Atkins took you to some pages of it. I have
- one question just before we look at some other matters.
- 15 At page 1299, under the heading "Window and door
- 16 construction", if you look at the last three paragraphs
- on that page, it says:
- 18 "The sections forming the windows are to incorporate
- 19 a thermal break, achieved using a high strength,
- 20 glass-reinforced polyamide barrier.
- 21 "The thermal break is to be applicable to all
- 22 profiles, including vents, couplers and sills."
- 23 And I think there's a thermal break on the doors
- as well, which we needn't look at, on the next page.
- 25 Just tell us about a thermal break. What's that?

- 1 A. A thermal break is quite simply to try and stop the
- 2 general windows -- the cold from the outside meeting the
- 3 heat from the inside and causing things such as
- 4 condensation.
- 5 Q. Right, thank you very much. If we can keep that page
- open, we can see that in the course of the
- 7 specification, you identified various standards to which
- 8 the contractors would have to comply. If we look at the
- 9 top of the page, under the heading "Standards" -- it's
- 10 being scrolled up for the jury now -- we can see that
- 11 the section begins:
- 12 "The frames are to comply with any British Standard
- 13 specification, code of practice ..."
- 14 And so on. Now, that British Standard
- 15 specification -- I'm sure most members of the jury are
- 16 familiar with it, but just help us with that. That's
- 17 a standard specification certified by the British
- 18 Standards Institution, which maintains high standards in
- 19 all sorts of things, not just building work?
- 20 A. Yes, it's, if you like, a method devised by people
- 21 familiar with the industry in a proper way of doing
- things, I should imagine is the best way of putting
- 23 that.
- 24 Q. Yes, not just the way of doing things, but also the
- composition of materials and so on as well?

- 1 A. Yes, indeed.
- 2 Q. There's an equivalent international body called the ISO,
- 3 the International Standards Organisation, is there not?
- 4 A. There is.
- 5 Q. And by and large, at least for our purposes or the
- 6 jury's purposes, the British Standard institutional
- 7 standard and the ISO standard are equivalent?
- 8 A. I'm no expert, but yes, I would agree.
- 9 Q. If we look at the second paragraph, we see that:
- 10 "The window extrusion systems manufacturer must hold
- 11 British Standard kite mark licences for BS4873,
- 12 specification for aluminium alloy windows, and BS7950,
- 13 enhanced security of casement and tilt and turn windows
- for domestic applications."
- 15 And before they start work, the installer has to
- 16 supply the certificates to the council's contract
- 17 administrator. So there you've specified the
- 18 certification of the manufacturer and installer; am
- 19 I right?
- 20 A. Yes, you are.
- 21 Q. If we go to the next paragraph, we see:
- 22 "The door extrusion system manufacturer has to hold
- a test certificate in the following standards: PAS ..."
- 24 And so on:
- "... PAS024 'Doors of enhanced security'."

- 1 This is an equivalent certification system, is it
- 2 not?
- 3 A. The security and weather testing, yes.
- 4 Q. Then if with go to the next paragraph, we see:
- 5 "Aluminium window profiles are to be manufactured by
- an approved systems company to BS EN ISO.9001/9002."
- 7 That standard is a British Standard,
- 8 an international standard, and "EN" signifies that it's
- 9 a European Union standard as well?
- 10 A. That is also correct.
- 11 Q. The fabricated product itself has to conform with
- 12 British Standard 4873, yes?
- 13 A. Yes, it does.
- 14 Q. We won't go through the whole document, but just to
- 15 glance at the next section on windows and door
- 16 construction, we can see that the windows in the first
- 17 paragraph have to comply with requirements of BS4873,
- and frames and other sections have to comply with
- 19 BSEN755-9. So in your specification, you thought it
- 20 appropriate to identify the particular standards to
- 21 which the contractors would have to ensure that they and
- their products complied?
- 23 A. Yes.
- 24 Q. When drawing up this specification, you were presumably
- 25 aware that if it was acceptable to the council it was

- likely to be used in the contract documentation?
- 2 A. In the majority of cases the actual specification SAPA
- 3 produces is amended accordingly to go into the tender
- 4 documents. SAPA building systems, on a rare occasion,
- 5 would actually see the specification that goes into
- 6 a tender document.
- 7 Q. Of course, but on the assumption that no further
- 8 amendment was necessary, it was quite likely -- or you
- 9 had in mind -- that this was a document which had to be
- 10 written so that it would provide part of the contractual
- 11 documentation which installers would have to comply
- 12 with?
- 13 A. Yes.
- 14 Q. You knew that what you were specifying here,
- powder-coated aluminium windows and doors and so forth,
- 16 was for installation in a high rise block of flats?
- 17 A. Yes, I did.
- 18 Q. You knew that the building regulations would apply to
- 19 that block of flats?
- 20 A. I knew some building regulations would apply to that
- 21 block of flats.
- 22 Q. You knew that part B of the building regulations in
- 23 relation to fire protection would apply to that block of
- 24 flats?
- 25 A. Part B could apply to the block of flats in a number of

- 1 areas, maybe including windows and maybe not.
- 2 Q. You knew that in relation to the panels below the
- 3 windows, they were to replace asbestos panels which had
- 4 been removed, or were to be removed?
- 5 A. No, that's not the case. The product that was in the
- 6 panels originally was unknown to us.
- 7 Q. Is that right? You never knew that you were replacing
- 8 asbestos?
- 9 A. Sorry, I apologise. I thought you were referring to the
- 10 time of writing the specification.
- 11 Q. Sorry, I was, in fact. Let's get it right. At the time
- 12 you wrote the specification, you didn't realise that you
- 13 were replacing asbestos in the panels, and subsequently,
- 14 you learnt that that was what the panels were previously
- 15 made of?
- 16 A. Yes. It wasn't that I didn't realise; I wasn't
- 17 informed. We asked what we're replacing to get some
- indication as to an example of what we can put in the
- 19 specification, but at that point it wasn't clear.
- 20 Q. If you'd been told that it was asbestos panels, of
- 21 course, you would have realised that you were replacing
- a fire-proof product with another product?
- 23 A. If I was told it was asbestos that was being removed --
- 24 as far as I'm aware, asbestos doesn't have any
- 25 particular fire-rated property. I do know it's

- 1 non-combustible but as always, we would refer the
- 2 specifier to the footnotes on our specification, saying
- 3 that obviously panels are not a product made and
- 4 fabricated by SAPA building systems and they should seek
- 5 advice from those people.
- 6 Q. Understood, and I'll come to those footnotes in
- 7 a moment. But had you known that it was asbestos, would
- 8 you have thought it appropriate in the specification to
- 9 supply panels of equivalent fire resistance or
- 10 non-combustible?
- 11 A. What I would have done -- if I was asked for
- 12 a fire-rated panel product, I would again have to steer
- people -- the specifier to a panel company, or any
- 14 special requirements to a panel company. The key issue
- for us with specifying panels, of course, is that it
- 16 fits into our system in terms of advice to the
- 17 specifier. So for example, if someone was to say,
- 18 "Could I put a corrugated panel into our system?"
- 19 I would have to say no, because it allows in water. We
- don't specify panels per se.
- 21 Q. In your witness statement -- we needn't put it up. I'll
- just read a sentence to you. You say:
- "Ideally, to enable [you] to draw up a full and
- comprehensive specification, the client would have to
- 25 give me information, namely drawings, height, postcode,

- fire rating, security et cetera."
- Is that right, that you were entirely reliant on the
- 3 client to tell you about the fire rating?
- 4 A. Yes, we see it as the responsibility of the client
- 5 because we can't possibly know the full layout of
- 6 an existing building or the fire risk assessment that's
- 7 been done on that building.
- 8 Q. Could we have 1299 back again. In the top part, under
- 9 the heading of "Standards", there's no reference to the
- 10 building regulations at all, although to be fair to you,
- in the second line, it does say "statutory requirements,
- including all revisions and amendments". But that's
- only in relation to the frames that have to comply with
- 14 "British Standard specification, code of practice, and
- 15 statutory requirements, including all revisions and
- 16 amendments". There's no other reference to the building
- 17 regulations at all, is there?
- 18 A. With the exception -- I think further on you'll find
- 19 reference to part L.
- 20 Q. Indeed. I'll come to those. But in general, in that
- 21 general paragraph telling the potential contractor what
- standards need to apply, there's no specific reference
- 23 to building regulations?
- 24 A. There is not.
- 25 Q. If we come to page 1305, we can see in the footnotes,

- first of all the footnote which I think you referred to
- 2 earlier just now:
- 3 "Information is given on an advisory basis only and
- 4 specifiers are particularly recommended to contact
- 5 suppliers of non-SAPA Building Systems Limited products
- 6 to ensure that such products are suitable."
- 7 Is that what you had in mind earlier?
- 8 A. It is.
- 9 Q. But it's not telling anybody that they ought to check
- 10 whether such products conform to the building
- 11 regulations, is it?
- 12 A. Well, the people that we deal with that come to us
- asking for specifications are professional people who
- 14 operate in that field, so it is, of course, assumed that
- 15 those people know the building regulations and that they
- 16 apply them to the building which they're designing.
- 17 Q. Okay. Just going down to the fifth paragraph, it says:
- 18 "Certain window configurations may not meet the
- 19 requirement of approved document B (2000) of the
- 20 building regulations for a fire escape window."
- 21 So from that we can take it that you thought it was
- 22 appropriate to draw potential contractors' attention to
- part B of the building regulations in relation to
- 24 windows which were also fire escapes?
- 25 A. It is. This specification that we're referring to is

- a specification that does not relate to fire-rated
- 2 products. However, as I said earlier with building
- 3 regulations that I'm no expert on, is that in any common
- 4 building where -- just a standard building, be it
- 5 a house, block of flats or otherwise, there always needs
- 6 to be an egress window, and that comes under part B. So
- 7 even though this is a specification for non-fire-rated
- 8 products, the fire escape egress window, ie the size of
- 9 it, needs to be referred to.
- 10 Q. As you say, part B, of course, is the fire protection
- 11 part of the building regulations.
- 12 A. Yes, if covers many areas.
- 13 O. Yes. You mentioned another reference to the building
- 14 regulation. Can we just look at 1304, please. The last
- 15 entry under "Hardware" is:
- 16 "Fully drained low threshold to comply with the
- 17 requirements of building regulation approved
- 18 document M."
- 19 Perhaps you can help us: what does that refer to?
- 20 What part of the building regulations is that?
- 21 A. Part M, in this instance, is referring to a low
- 22 threshold, so people with difficulties perhaps of
- 23 stepping over a threshold, wheelchair users, et cetera.
- 24 Q. Yes. Then under "Ventilation", at the bottom of that
- page, again the last paragraph says:

- 1 "Trickle ventilation shall also comply with approved
- document J [and a British Standard] with respect to
- 3 ventilation of gas-burning appliances."
- J is to do with ventilation, is it not?
- 5 A. It is, yes.
- 6 Q. That requirement shall take precedent over the
- 7 requirements of approved document F1, and again, that's
- 8 an approved document under the regulations, is it not?
- 9 A. Indeed.
- 10 Q. With that in mind, the jury may well be asking
- 11 themselves when they look at page 1303 -- if we could
- have that up, where, in the marked paragraph:
- 13 "Solid infill panels, where required, are to be
- 14 28-millimetre insulated sandwich panels with facings of
- polyester powder-coated aluminium, finished to match
- 16 framing."
- 17 Why did you not specify that that should comply with
- part B of the building regulations?
- 19 A. Well, again, I come back to the fact that we're advised
- on whether things need to be fire-rated or whether
- 21 they're not fire-rated, and as I said earlier, this is
- 22 not a fire-rated specification. Neither is it a product
- that we sell, and both the specifier, verbally and
- indeed in the footnotes, would be told to seek advice
- from the appropriate company.

- 1 Q. But the danger is that if this specification is simply
- 2 incorporated into the contract, a contractor might read
- 3 this literally and assume that there's no need to comply
- 4 with part B of the building regulations in relation to
- 5 these insulated panels.
- 6 A. Well, that may well be their assumption, but again,
- 7 we're dealing with professional people who know the
- 8 building regulations and the footnotes still stand there
- 9 to advise people to seek alternative advice,
- 10 highlighting the fact that SAPA do not either sell or
- 11 manufacture sandwich panels or any form of panel.
- 12 Q. Would you put it perhaps another way? Would you say
- 13 that it was so blindingly obvious that sandwich panels
- 14 to be fitted to a high rise block of flats ought to
- comply with part B that it was really unnecessary to
- 16 spell it out?
- 17 A. It's not my opinion.
- 18 Q. Isn't it?
- 19 A. No.
- 20 Q. So you don't think it was obvious, then?
- 21 A. It was not obvious to ...?
- 22 Q. To the potential contractor. Sorry, perhaps I haven't
- 23 explained myself very well. An alternative way of
- looking at this is that when you wrote that, you thought
- 25 to yourself: "Well, any professional contractor, knowing

- 1 that these insulated panels are to be fitted to a high
- 2 rise block of flats, must have appreciated that they
- 3 would have to conform to part B of the building
- 4 regulations. Therefore it's really not necessary for me
- 5 to spell that out to them"?
- 6 A. I wouldn't spell that out to them because it's not
- 7 a product that we sell.
- 8 Q. I understand that it's not a product that you sell, but
- 9 you were drawing up a specification which might well be
- 10 adopted by the local authority into a contract, so you
- 11 must have had had in mind what contractors would think
- 12 when they read this section on glazing and looked at
- 13 what they had to do and what they had to tender for and
- so on, right?
- 15 A. Yes.
- 16 Q. I'm just wondering whether the jury should draw the
- 17 conclusion that you thought that any reputable,
- 18 professional, competent fitting of insulated sandwich
- 19 panels would know that they had to comply with part B of
- 20 the building regulations without you telling them?
- 21 A. If you're looking for me to offer you an opinion, it's
- 22 that -- I would just say that from where this
- 23 specification starts is exactly that. It is a starting
- 24 point. There is ample opportunity for anybody within
- 25 that chain to come back to me, anybody else, building

- 1 control, and find out the information they need.
- 2 Q. What if they had come back to you and said, "These
- 3 insulated sandwich panels, part B of the building regs
- 4 or not?"
- 5 A. If that -- that was a question coming back to me from
- 6 the specifier, the end installer, the main contractor,
- 7 I would, of course, have to direct them to somebody that
- 8 could actually answer that question based upon the
- 9 design layout of the building.
- 10 Q. Of course, I understand that. From an authoritative
- 11 point of view, you would have to tell them to get on to
- 12 Southwark building control. But what if they'd said to
- 13 you, "Well, what do you think?"
- 14 A. It's not for me to think on that. It's because I
- 15 don't -- I'm no expert, as I said, on building
- 16 regulations. I don't have the qualifications or the
- 17 know how to be 100 per cent authoritative on what should
- or shouldn't be used. We get a snapshot of the
- information of -- of that building. We don't see
- 20 anything about -- perhaps about the internals or
- 21 otherwise. I'm not informed as whether there are
- 22 sprinklers or anything else on this building. I simply
- have to rely on the information that's given to me, and
- of course we do ask questions, but if people don't come
- 25 back to us, they don't know an answer to a question, we

- 1 have to accept what information we're given in the same
- 2 way as we do on a new build project.
- 3 Q. Well, I'm going to suggest to you, Mr Hanson, that any
- 4 professional person familiar with drawing up
- 5 specifications of this kind and any professional
- 6 contractor potentially contracting for a job of this
- 7 kind would know that part B of the building regulations
- 8 applied to panels on the front of a high rise block of
- 9 flats.
- 10 A. I think that's reasonable to assume.
- 11 Q. I think I'm coming to the last matter but one. Can we
- just go to page 1300. Under heading 5, "Windows and
- door construction", there's a subheading, "Doors
- 14 (residential)". Mr Atkins took you to this and pointed
- 15 out that this specification was used after there had
- 16 been an email correspondence specifying that the doors
- 17 onto the escape balconies from the lounges and the
- 18 kitchens should be fire doors. It was probably me, but
- 19 I didn't quite understand why that additional
- 20 requirement didn't get into your specification. Can you
- just help us again with that?
- 22 A. Well, when you say "fire doors", can you confirm whether
- you're talking fire-rated or fire escape?
- 24 Q. I thought fire-rated. I think Mr Atkins showed you
- an email correspondence showing that they were to be

- 1 solid doors and therefore fire-resistant?
- 2 A. The -- I think you're referring to the bill of
- 3 quantities; would that be correct?
- 4 Q. Yes.
- 5 A. Yes, in the bill of quantities that I hadn't seen until
- 6 the start of this inquest, that did actually refer to
- only on the kitchen doors, not the lounge doors.
- 8 Q. Okay. Just the kitchen doors, then, solid fire-rated
- 9 doors to meet part B?
- 10 A. Yes.
- 11 Q. Yes. What I missed -- and I'm sure the jury heard it
- and I didn't, but what I missed was why that didn't get
- into your specification.
- 14 A. Well, I would say that the answer to that is quite
- 15 simply that at no point at any time did anybody come to
- 16 us in any shape or form and say a fire-rated door was
- 17 required. Had they have done so we could quite simply
- 18 have done a fire-rated specification.
- 19 Q. I think really the final thing I wanted to ask you about
- was page 1298. Towards the bottom half of the page,
- 21 there's a heading, "Survey, dimensions and design",
- 22 number 3 there. Just a quick glance through it. It
- 23 says that the contractor is expected to make
- 24 a pre-tender visit and an inspection and so forth and so
- on, and then in the third paragraph:

- 1 "The contractor shall allow in his price for
- 2 a survey visit to site."
- 3 The fourth paragraph:
- 4 "The contractor is responsible for ensuring that all
- 5 new windows and doors are square and central in the
- 6 opening."
- 7 And gaps and what have you. Then the next paragraph
- 8 says:
- 9 "The contractor is to allow for any anomalies and
- 10 variations in size."
- 11 All framing to be set out, transoms should be
- 12 positioned -- and so on.
- I appreciate this heading is "Survey, dimensions and
- 14 design", but can we take it that it was just so
- blindingly obvious that it wasn't necessary to say that
- 16 contractors would have to comply with the relevant parts
- of the building regulations?
- 18 A. All buildings have to comply with the building
- 19 regulations.
- 20 Q. Yes, and all contractors do?
- 21 A. Yes, indeed.
- 22 Q. Yes, thank you, Mr Hanson.
- 23 THE CORONER: Mr Matthews?

24

25

- 1 Questions by MR MATTHEWS
- 2 MR MATTHEWS: Can I just get your help briefly with two
- pages, 1129 and 1130. If we could have 1130 up on our
- 4 screen first. Mr Hanson you probably have the advantage
- of having it on paper. You can, as it were, flick
- 6 between the two. Oh, you don't have it. (Handed)
- 7 A. It's here.
- 8 Q. Fine. 1130 then is --
- 9 THE CORONER: Wait one moment.
- 10 MR MATTHEWS: 1130 is that list of queries and amendments to
- 11 window and door specification that I think was sent to
- 12 you by email as an attachment. We have the email on
- 13 1129. Just before we go to 1129, you've been taken to
- it and at 2 we can see you're being given more
- 15 information about:
- 16 "The lounge and kitchen windows/doors lead onto
- a fire escape gallery. The doors are only meant to be
- used as a means of escape."
- 19 You've been taken to the sort of bullet points
- 20 underneath but we haven't looked at what's in the
- 21 brackets on those bullet points, because they both end
- with a question mark, don't they?
- "Internal thumb-turn or other override facility to
- locking device to meet fire regulations and the British
- 25 Standard?"

- 1 And then the next bullet point down -- it's about
- 2 security, and that ends with a question mark:
- 3 "Could we have 6.4-millimetre laminated glass on the
- 4 windows in those areas?"
- 5 So two specific questions in there?
- 6 A. Yes.
- 7 Q. If we then go to the page before, which is the email, we
- 8 have:
- 9 "Dear Liam and David, please could you have a look
- 10 at the attached document and ensure that the
- 11 specification is revised accordingly. Please let me
- 12 know if anything I have suggested contravenes
- 13 regulations or what your experience would recommend."
- 14 Can you help us: what regulations did you think were
- being asked about in that email?
- 16 A. Well, what was -- sorry, what was asked for in that
- 17 email -- my understanding is that I was directed
- directly to BS5588, and within that same paragraph, it
- 19 strictly refers to a thumb-turn means of escape, which
- is a little bit in the same way as an egress window.
- 21 It's just a quick exit, an area for people to get
- 22 through. So as it said on here that the -- and without
- 23 question it says in paragraph 2 above -- it says:
- "The residents use the doors for ventilation."
- 25 That would indicate that it is a means of escape,

- not as a fire-rated door. We have to be very careful
- about the difference between a fire escape door and
- 3 a fire-rated door.
- 4 Q. That's a very long answer, but not to the question
- 5 I asked, I'm afraid. I was asking what regulations did
- 6 you read that email as referring to?
- 7 A. Sorry, I thought I did answer that. BS5588.
- 8 Q. The British Standard?
- 9 A. Yes.
- 10 Q. The question about your experience, what your experience
- 11 would recommend, what did you think that was asking you
- 12 for?
- 13 A. That was, I think, my -- I took that as my experience
- 14 with reference to how one would exit a door without the
- 15 need for a key.
- 16 Q. Thank you very much.
- 17 THE CORONER: Thank you very much. Who's next?
- 18 Ms Petherbridge? No. Ms Canby.
- 19 Questions by MS CANBY
- 20 MS CANBY: Mr Hanson, just two short topics, please. The
- 21 first is fire doors. Could we have a look, again,
- 22 please, at page 1086, which is in volume 3 of the
- 23 chronological bundle.
- 24 A. Sorry. Yes, I have that.
- 25 Q. This is a document that Mr Atkins took you to, and it's

- 1 a letter from Annabel Sidney to Daniel Wallace of
- 2 Franklin & Andrews Limited. We know that Daniel Wallace
- 3 was helping Annabel Sidney with the specification for
- 4 Lakanal House, and it's dated 13 January 2005. She
- 5 says:
- 6 "Please find enclosed amendments to draft
- 7 specification."
- 8 Can you see that, Mr Hanson?
- 9 A. I can.
- 10 Q. Could you now, please, turn to page 1093 in the same
- 11 bundle.
- 12 A. Yes, I have that.
- 13 O. You can see here some handwritten amendments. Mr Atkins
- took you to this as well. Number 19, "Kitchen windows",
- 15 amended to read:
- 16 "Kitchen window type 2 comprising of tilt and turn
- 17 and fixed windows, solid fire-rated door to meet
- 18 part B."
- 19 Is this a document that you were shown before you
- 20 produced the amended specification on 20 January 2005?
- 21 A. I've never seen this document other than in relation to
- this inquest.
- 23 Q. Could you please, Mr Hanson, now look at page 1361,
- 24 which is in file 4 of the chronological bundle.
- 25 (Handed)

- 1 A. I have that.
- 2 Q. You've been taken to this document already as well this
- 3 morning, but this is what you referred to as the bill of
- 4 quantities and what others have referred to as the
- 5 schedule of works. You will see that the handwritten
- 6 amendments that we looked at on the previous document on
- 7 page 1086 now find their way into this bill of
- 8 quantities. At the top of the page it says:
- 9 "Kitchen window type 2 comprising of tilt and turn
- 10 and fixed windows, solid fire-rated door to meet part B
- and panel containing flue aperture."
- 12 And we can see in the paragraph below that there is
- 13 no such requirement for the lounge window. That is
- 14 just:
- 15 "Type 3 comprising of tilt and turn, fixed, bottom
- and top hung windows, glazed door ..."
- 17 Can you see that, Mr Hanson?
- 18 A. Sorry, I didn't catch the last part.
- 19 Q. We're looking at paragraph B on page 1361. That just
- 20 requires a lounge window type 3, "comprising of tilt and
- 21 turn, fixed, bottom and top hung windows, glazed door
- and panel".
- 23 So there's a distinction here. We have a kitchen
- 24 balcony door that is be to be solid fire-rated to meet
- 25 part B and we have no such requirement for the lounge

- 1 balcony door. Do you agree?
- 2 A. I agree, yes.
- 3 O. This is the document that was sent out to the
- 4 contractors as part of the tender?
- 5 A. Yes, I believe so.
- 6 Q. Were you ever provided with a copy of this document
- 7 before you produced your performance specification?
- 8 A. Apart from the lead up to this inquest, I've never seen
- 9 this document before.
- 10 Q. Would you have expected SAPA to have been provided with
- 11 this document?
- 12 A. SAPA haven't been provided with this document.
- 13 Q. Would you have expected them to be?
- 14 A. Sorry, no, I wouldn't really expect them to have been.
- Once, as I said early, people were in contract -- we
- 16 were outside contract. These are generally documents
- that filter between people in contract.
- 18 Q. Thank you. Moving on in relation to some of the
- 19 questions that were asked of you by Mr Matthews, you
- 20 were making a distinction between a door which is
- 21 provided for means of escape and a fire-rated door.
- 22 Could you please explain to the jury what you mean by
- 23 those two terms?
- 24 A. People often use a word such as "fire door" or "fire
- 25 escape" and they don't really get the terminology

- 1 correct. There are two types of door in this instance:
- a fire escape door and a fire-rated door. A fire escape
- door, simply put, means that you push a bar, typically
- 4 a bar, use something other than a key to get out of the
- 5 door and escape to an area outside the -- outside of the
- 6 building. If you have a fire-rated door, that
- fire-rated door, as I explained earlier, would be given
- 8 a fire-rating, be it usually 30 minutes, 60 minutes or
- 9 so, and that would hold back fire on a stability,
- 10 integrity, insulation basis as required.
- 11 Q. And do you understand that there are two requirements in
- order for a door to be a fire door? The first is that
- 13 it would have to have a self-closing mechanism and the
- 14 second is that it would have to be fire-resistant, as
- 15 you've just explained?
- 16 A. Yes, I do understand that.
- 17 Q. So what is the significance in the email that we see
- 18 from Annabel Sidney of her telling you that the door was
- 19 to be used for ventilation purposes?
- 20 A. Well, the significance of being told that a door is used
- 21 for ventilation is that there's no reference to
- 22 a closer, and if I was to put that to one side, the fact
- 23 that somebody would tell me a door is used for
- ventilation and not add something along the lines of
- 25 "But it shouldn't be because it's a fire-rated door"

- gives me no indication whatsoever that that is
- 2 a fire-rated door that's required.
- 3 Q. The final topic, please, Mr Hanson. The jury are going
- 4 to hear evidence from Mr Cousins on Wednesday from
- 5 Apollo. In his witness statement, which doesn't need to
- 6 go up, he says this:
- 7 "With reference to the ventilation panels in the
- 8 lobby areas, these would have been standard SAPA
- 9 installations and I have every belief that building
- 10 regulations would have been considered by SAPA in
- 11 connection with these installations."
- 12 If I could ask you a number of questions in relation
- 13 to that. What involvement, if any, did SAPA have in
- 14 relation to the ventilation panels in the lobby areas?
- 15 A. It's a very similar situation to the panel, whereby
- 16 we're asked to suggest something that will simply fit
- 17 into our system and we advise people to seek advice
- 18 elsewhere.
- 19 Q. So if you have a look again, please, at the SAPA
- 20 performance specification at page 1303, which is in
- 21 folder 4 of the chronological bundle.
- 22 A. Yes, I have that.
- 23 Q. Under the heading "Glazing", about four paragraphs down,
- there's reference there to the louvres, and in the very
- 25 last paragraph before the heading "Hardware", there's

- 1 reference to a company called Levolux. Is that in
- 2 relation to the ventilation panels in the lobby areas?
- 3 A. That is. Levolux are a manufacturer of ventilation
- 4 panels and obviously are giving their details there to
- 5 be contacted.
- 6 Q. So would those ventilation panels have been standard
- 7 SAPA installations?
- 8 A. There's no such thing as a standard SAPA installation
- 9 when it comes to louvre panels. SAPA neither
- 10 manufacture or supply louvre panels.
- 11 Q. Finally, would building regulations have been considered
- 12 by SAPA in connection with those installations?
- 13 A. No, it wouldn't -- it would have been perhaps considered
- on a limited basis, but generally speaking no, because
- obviously, as I said earlier, we would be guiding people
- 16 towards the manufacturer of that product to make sure
- 17 that they advise on their product and the building
- 18 regulations accordingly.
- 19 Q. Thank you very much, Mr Hanson.
- 20 THE CORONER: Thank you. Members of the jury, do you have
- 21 any questions? Thank you.
- Mr Hanson, thank you very much for coming and for
- 23 the help that you've been able to give us. You're
- 24 welcome to stay if you would like, but you're free to go
- 25 if you would prefer.

- 1 A. Thank you.
- 2 (The witness withdrew)
- 3 THE CORONER: Yes, Mr Atkins.
- 4 MR ATKINS: Madam, the next witness will be Mr Graham
- 5 Hurrell. I don't know whether the jury are happy to
- 6 press on now or whether they would welcome a short
- 7 break.
- 8 THE CORONER: Would you like a five minute break, members of
- 9 the jury? I think we'll press on then. Okay, thank
- 10 you. Yes.
- 11 Mr Hurrell, would you like to come forward. Thank
- 12 you.
- 13 GRAHAM HURRELL (affirmed)
- 14 THE CORONER: Mr Hurrell, thank you very much. Do sit down
- and do help yourself to a glass of water, thank you.
- I think you've been sitting at the back, so you'll
- 17 realise that it's not always easy to hear what's been
- said, so please, if you could speak closely to the
- 19 microphones, that would help, and if you give your
- answers across the room towards members of the jury,
- 21 then that will help them to hear your evidence and also
- 22 help to keep you close to the microphones.
- 23 Mr Atkins will begin by asking questions on my
- 24 behalf and then there may be questions from others.

25

- Questions by MR ATKINS
- 2 MR ATKINS: Could you please tell the court your full name?
- 3 A. Graham Neil Hurrell.
- 4 Q. Mr Hurrell, do you also work for SAPA building systems?
- 5 A. I do.

1

- 6 Q. What job do you do, please?
- 7 A. I'm currently international business development
- 8 manager.
- 9 Q. In 2006, is it right that you worked as a specification
- 10 manager?
- 11 A. That's correct, yes.
- 12 Q. You'll have heard mentioned earlier this afternoon the
- 13 meeting on 3 May 2006. Is it right that that was really
- 14 your first involvement in the works at Lakanal House?
- 15 A. Yes, it was, and just prior to that, some preparation
- 16 for that meeting.
- 17 Q. If we could look at that, please, first of all at
- page 1085, which is in the fifth bundle. (Handed) I'm
- sorry, I think I said the wrong page number but the
- 20 right one is on the screen. Page 1805. This is
- 21 an email from you to Mr Hanson on 26 April 2006, where
- 22 you said:
- "Liam, a pre-start meeting of all parties has been
- called for next Wednesday at 9 o'clock. I'm going to
- 25 commit one of us to be there, you if you are fit, me if

- 1 not."
- 2 Can you remember when you first became aware of the
- 3 meeting which was to be held on 3 May?
- 4 A. I don't remember the first time that I was made aware of
- 5 it. The first time that we have some document relating
- 6 to would be -- would be this email.
- 7 Q. As we've heard already, this is the point that Mr Hanson
- 8 unfortunately had had an accident and so it was possible
- 9 that he wouldn't be able to attend. If he couldn't go,
- 10 you would step into his shoes for that meeting?
- 11 A. Yes, that's correct.
- 12 Q. Had you been involved in the process we were looking at
- 13 earlier of preparing a performance specification for
- 14 this project?
- 15 A. No.
- 16 Q. Could I just show you another few documents, please. At
- page 1729, first of all, which should be a little
- 18 earlier on in the same bundle, we have the fax from
- 19 Symphony Windows to Apollo. This was a fax on
- 20 13 April 2006, attaching a number of pages. One of
- 21 those pages we have at 1738, which is this diagram that
- we looked at earlier on today. First of all, are you
- able to help us, is this a diagram drawn by SAPA, do you
- 24 know?
- 25 A. I do not believe this was drawn by SAPA, no.

- 1 Q. Is there something about it which makes you think that
- 2 in particular?
- 3 A. If I look at the use of hand -- handwriting to indicate
- 4 certain points -- typically, anything drawn by SAPA
- 5 would be drawn on a CAD system, a computer system, and
- 6 would not typically show handwritten symbols or writing.
- 7 Q. So for example, we can see that there is some hand-drawn
- 8 information here in the louvres?
- 9 A. Yes.
- 10 Q. Could I just ask you about the comment in the bottom
- 11 right of that page. Somebody has written:
- 12 "James, this is as tender. SAPA are now saying the
- outer frame should be a larger outer frame. Trying to
- 14 resolve as the sections were specified by ..."
- And possibly those last two words are "specified by
- 16 them anyway".
- 17 Do you recall, at around the time of your email of
- 18 26 April, being aware of this diagram with that comment
- 19 on it?
- 20 A. I don't recall specifically seeing that diagram with
- 21 that comment.
- 22 Q. Were you aware that there was a suggestion that the SAPA
- 23 specification was not appropriate or not correct?
- 24 A. Prior to the meeting and in the process, I believe, of
- 25 the meeting being arranged, I became aware that there

- were differences between some drawings that had been
- 2 produced by possibly the subcontractor and the main
- 3 contractor and the specification document that we had
- 4 worked on earlier. So I knew that there were some
- 5 differences between them.
- 6 Q. Was that something which you yourself spotted by
- 7 comparing the performance specification to the drawings,
- 8 or is it something which somebody else drew to your
- 9 attention?
- 10 A. It's unclear from my records how I became aware of this,
- 11 but -- I don't believe that we saw the drawing that you
- just previously showed prior to the meeting but there
- 13 was some communication into our technical department,
- 14 a different drawing, actually of a window very much like
- the bedroom window, and there was a response from our
- 16 technical department to -- to that query, and how
- 17 I became aware of it is unclear. It could be that I was
- 18 made aware of it as part of the invitation to attend the
- meeting, that this issue had arisen.
- 20 Q. Could I show you some other correspondence from around
- 21 that time. If we go to 1783, which I've just put on the
- 22 screen. A letter this time from Apollo to SBDS. The
- writer of that letter, we can see under the list of
- 24 drawings, said:
- 25 "Due to the original design of windows numbers 1, 4

- 1 and 5 failing to provide sufficient strength throughout
- 2 the fenestration, SAPA are recommending the coupling
- 3 support to be added as window alternatives 1, 4 and 5."
- 4 Do you remember whether this was a letter which was
- 5 brought to your attention prior to the meeting?
- 6 A. I don't recall having seen this letter other than as
- 7 preparation for this inquest.
- 8 Q. Could I ask you about one other piece of correspondence
- 9 then, again to see whether you think you saw it before
- 10 the meeting. This is an email which we looked at
- 11 earlier on page 1802 from Annabel Sidney to James
- 12 Cousins on 25 April, in which she said:
- 13 "Please find attached our response to your letter of
- 14 20 April."
- Then on page 1803 we have her letter. She said:
- 16 "Thank you for your letter of 20 April."
- 17 And then in the second paragraph:
- 18 "In order for to us respond to your queries and
- 19 enable to you make a full presentation of the
- information required, may I suggest that we meet at our
- 21 offices?"
- 22 So it seems that was the letter which prompted
- the meeting on 3 May. Do you think you had seen that
- 24 letter?
- 25 A. I don't recall actually having actually seen that

- 1 specific letter as a means of inviting us to attend the
- 2 meeting.
- 3 Q. Can you remember what you did to prepare for the
- 4 meeting? If you hadn't had any involvement in this
- 5 project up until that time, what did you look at in
- order to prepare for the meeting?
- 7 A. My involvement -- or my preparation would consist of
- 8 going into our record system and looking at the project
- 9 documents that we had, that my colleagues had already
- 10 filed on the system, which showed the work that they had
- done up to that point. So I had the opportunity to
- bring myself up to speed with our own documents and
- 13 anything that we had received in from others that had
- 14 been filed in that system, and as I believe that I knew
- that a key topic for the meeting would be this issue of
- 16 window frames and strength, I did some preparation work
- on that specific issue.
- 18 Q. Do you think that at the time of preparing for the
- 19 meeting you looked at the SAPA performance specification
- document to see what you had put forward to SBDS?
- 21 A. It's extremely likely that I would have opened up and
- 22 read the specification document, probably before looking
- 23 at any of our other documents in our system.
- Q. Do you think at that time you also had the bill of
- 25 quantities or the schedule of works which we see at

- 1 page 1361?
- 2 A. We did not have the schedule of works filed on our
- 3 system.
- 4 Q. Is that a document, in your experience, that you would
- 5 have expected to have?
- 6 A. I would not have expected to see that document in our
- 7 system. It's a document that is part of the tender
- 8 process and usually goes completely outside our
- 9 information system and circulates from client to
- 10 contractor to subcontractor in the tendering process and
- 11 then becomes part of the contract. But it's very
- 12 unusual for us to actually have sight of that document
- as a routine piece of information.
- 14 Q. I'm just going to show you two different diagrams to ask
- 15 you whether you think that you had seen these prior to
- 16 the meeting. The first is a sketch which is headed
- 17 "Marsland Limited" at page 1080. It's a hand-drawn
- 18 sketch. Do you think that that's something that you
- 19 looked at prior to the meeting?
- 20 A. It was in our files, and there's a very good chance that
- 21 I would have looked at that in conjunction with the
- 22 specification document prior to attending the meeting.
- 23 Q. In your view, are these sketches consistent with what
- 24 was in the SAPA performance specification?
- 25 A. There is a difference, one significant difference,

- between these sketches and what is written in the SAPA
- 2 performance specification. Would you like me to
- 3 explain?
- 4 Q. Could you just outline, please, in simple terms what
- 5 that different is?
- 6 A. You've already heard today people talking about full
- 7 height vertical framing or mullions. If you look at the
- 8 bedroom window, which is on the top left, the design
- 9 only has one full height vertical piece of framing. The
- 10 other vertical piece is not full height.
- 11 Q. I'll just zoom in to make it easier to see.
- 12 A. On the left, where the cursor is now, that's close to
- 13 the full height, and then further to the right, the next
- one is not full height. The specification was written
- on the premise that both were full height, and I think
- 16 you've seen some documents about that earlier. The
- 17 specification would be incorrect in terms of the
- 18 particular profiles that are listed in the specification
- by reference number if the window were to be configured
- as we see in this sketch.
- 21 Q. So there was a difference between what was contained in
- 22 the performance specification and what is shown in this
- 23 diagram?
- 24 A. Yes.
- 25 Q. Could I show you a different diagram, please, which is

- 1 1067. It's another diagram the jury have seen before,
- drawing LW1. This is the drawing, if we remind
- 3 ourselves, at the bottom of the page, which says
- 4 "Southward Building Design Service" in the bottom left
- 5 and is dated January 2005 in the bottom right. This
- 6 drawing to me looks as though it has the same difference
- 7 that you've just been describing; that is that in the
- 8 top left drawing there's a full height mullion on the
- 9 left-hand side but not on the right-hand side?
- 10 A. This drawing in that respect is consistent with the
- 11 sketches we just looked at, yes.
- 12 Q. And so for the same reason it's inconsistent with --
- 13 A. It's inconsistent with the specification, yes.
- 14 Q. -- the specification. You described the question of the
- 15 window frames and the strength a few moments ago as
- being a key topic for this meeting. Could I show you,
- 17 please, at page 1819, the agenda for the meeting. We
- 18 can see there that after the introductions we have item
- 19 number 2, "Window design existing/proposed", and item
- 20 number 3, "Lounge and kitchen doors/larder wall panel".
- 21 Could you just help us with those, please. What did you
- 22 expect was going to be discussed under the heading
- "Window design existing/proposed"?
- 24 A. Under that topic I expected to discuss exactly what
- 25 we've just alone been looking at: the frames, the

- 1 strength of the frame and the configuration of the
- 2 windows visa vis the wind loads that will be imposed on
- 3 the system.
- 4 Q. Sorry, just to pause there -- I'm sorry to interrupt
- 5 you -- on that question of the window frames and
- 6 strengths, did you have in mind some proposal or
- 7 solution which you were going to put forward at the
- 8 meeting?
- 9 A. Yes, I worked out in advance with the help of some
- 10 colleagues something that could be used to achieve the
- 11 configurations that we saw in the sketch and in drawing
- 12 LW1, which are, in effect, the same for the bedroom. It
- would mean a modification in one respect to the
- 14 specification, but we checked it out from a calculation
- point of view before I went to the meeting.
- 16 Q. Just on that point, could I show you, please, the email
- 17 at page 1828. This is an email from you to Graeme
- 18 Patterson, whom we understand is in SAPA's technical
- department, on 3 May at 10.40 am. You say:
- 20 "More info. Liam's spec mentions DF709 as
- 21 a horizontal coupler."
- Is DF709 the name of the component?
- 23 A. DF709 is one of our profile references, yes.
- Q. Does this email relate to the point you've just
- 25 mentioned or not?

- 1 A. It does.
- 2 Q. So do we understand that by altering the configuration
- 3 in the specification you would have been able to produce
- 4 what was shown in the drawings in a way which was sound
- 5 from the point of view of strength? That's a rather
- 6 long way of putting it.
- 7 A. I'll try and answer it.
- 8 Q. Sorry, I'll try and ask the question again. You had
- 9 said there was an issue with the window frames and the
- 10 strength of them, and that with the help of a colleague
- 11 you had looked at another way of designing the frames in
- 12 a way which would produce what was shown in the drawings
- that we've looked at. Is this email part of the
- 14 process?
- 15 A. This is part of that process, yes.
- 16 Q. Then returning to the agenda at page 1819, that third
- 17 item, "Lounge and kitchen doors/larder wall panel", did
- 18 you know what was to be discussed under that heading?
- 19 A. No, I didn't. I've only recently seen this agenda and
- 20 didn't recall having seen it before, but that's just
- 21 an issue of recollection. My understanding is that the
- agenda was produced and handed out on the day, not in
- 23 advance, and this item -- there was no preparatory
- 24 discussions or calculation work for item 3 prior to the
- 25 meeting.

- 1 Q. When you received the agenda and saw that item, did you
- think that that was something which related to SAPA?
- 3 A. As the lounge and kitchen doors had been specified as
- 4 SAPA items, it would be reasonable to assume that that
- 5 would relate to SAPA. The larder wall panel is not
- 6 specifically a SAPA item, although it could be a panel
- 7 that sits in a SAPA frame. So there's slightly --
- 8 there's two slight distinctions between those two.
- 9 Q. Did you in fact then attend the meeting on 3 May?
- 10 A. I did, yes, yes.
- 11 Q. Can you remember whether you took anything with you to
- 12 that meeting? For example, calculations or drawings?
- 13 A. I cannot recall exactly what I took to the meeting other
- 14 than I had access to documents which -- I would have
- printed the specification off to take with me at the
- 16 very least.
- 17 Q. We saw in the letter proposing the meeting that it was
- 18 suggested that it would be held at 3 o'clock in the
- 19 afternoon. Was it, in fact, in the afternoon?
- 20 A. Yes, the meeting was in the afternoon. My comment that
- it was at 9 am was an error in my email.
- 22 Q. Can you remember where the meeting was held?
- 23 A. I recall a meeting in an office environment and
- 24 documents that I've seen subsequently lead me to
- 25 conclude that it was at the SBDS offices.

- 1 THE CORONER: So Southwark Building Design Services?
- 2 A. Yes.
- 3 MR ATKINS: Aside from you, who else attended that meeting?
- 4 A. At the meeting we had two representatives from Southwark
- 5 Building Design Services, which was Annabel Sidney and
- 6 John Menlove, Nick Coupe from Symphony Windows and James
- 7 Cousins from Apollo.
- 8 Q. Do you remember, were all of these people present for
- 9 the whole of the meeting?
- 10 A. I can't recall that.
- 11 Q. Did you, at any stage during the meeting, actually go to
- 12 Lakanal House itself?
- 13 A. My only recollection of Lakanal House is standing
- 14 outside the block looking from Dalwood Street. I do not
- 15 recall whether that view -- or that recollection was
- 16 taken as part of the meeting, or prior to the meeting,
- just to drive by it to give myself a look at the
- 18 building from -- from the outside before we started the
- 19 meeting. So I don't know whether that was done as part
- of the meeting or not.
- 21 Q. Do you have any recollection of the five of you standing
- 22 outside Lakanal together?
- 23 A. No, I don't recalling standing as a group. I only
- recall myself, but it's a long time ago and I can't
- 25 really be very -- ultra-precise about that, I'm sorry.

- 1 Q. To the best of your recollection, have you ever been
- inside Lakanal House?
- 3 A. I have, subsequently, in preparation for this inquest,
- 4 but at that point I do not recall having been inside
- 5 Lakanal House.
- 6 Q. Did you take any notes at the meeting at the time?
- 7 A. Almost inevitably. It's my standard practice to take
- 8 notes at any meeting that I attend in my day book.
- 9 Q. Do you still have a copy of your day book for that time?
- 10 A. No, I don't.
- 11 Q. On agenda item number 2 then, window design, can you
- 12 recall whether what was discussed was what you were
- 13 expecting or something else?
- 14 A. Recall is hard. I certainly would have expected to
- 15 discuss bedroom window issues that we looked at earlier
- 16 because I was aware of that already and wanted to
- 17 resolve that. Recollection of other issues around
- 18 item 2 I would not be so clear on, because I hadn't
- 19 necessarily prepared for other issues.
- 20 Q. Do you recall whether anybody at the meeting suggested
- 21 that there was a problem with your original
- 22 specification?
- 23 A. That may have been -- that may have been a way of
- 24 expressing it. My response to that is that there was
- 25 a discrepancy between the specification and the

- drawings, not that necessarily there was an error or
- 2 a mistake but there was a discrepancy which needed to be
- 3 resolved.
- 4 Q. Thinking back, are you able to help us with what was
- 5 discussed under the third item, the lounge and kitchen
- 6 doors and larder wall panel?
- 7 A. I don't have a recollection or any subsequent
- 8 documentation regarding discussing lounge and kitchen
- 9 doors or the larder wall panel at that meeting.
- 10 Q. Do you think that it was something that was discussed,
- 11 or do you think that it was included on the agenda but
- 12 not actually discussed in the event?
- 13 A. I'm quite willing to accept that it's because -- because
- 14 it was on the agenda, it would have been discussed at
- 15 that meeting.
- 16 Q. By the sounds of it, you're not able to help us one way
- or the other?
- 18 A. I -- I don't have a direct recollection myself or any
- 19 documentation, no.
- 20 Q. It may help to look at some of the correspondence which
- 21 came shortly after the meeting. If we look at, first of
- 22 all, page 1849. We have an email towards the lower part
- of the page sent by you on 4 May to somebody called
- 24 Crispin. Does he work for SAPA?
- 25 A. Crispin is a technical colleague at SAPA, yes.

- 1 Q. If you could perhaps just read that through to yourself
- and then explain to us briefly what it's about.
- 3 A. This would have been about getting our technical
- 4 colleagues to verify or comment on some options which,
- 5 I believe, relate to the window 1, the bedroom window,
- 6 and this question of whether having taken away one of
- 7 the vertical members in comparison to the way we'd
- 8 originally envisaged it, how a framing might sag under
- 9 the weight of the glass and the frames above it, and
- 10 I was really asking Crispin to do a calculation to work
- 11 out, given certain frame sections, whether it would sag
- or wouldn't sag or would need additional bracing.
- 13 Q. So it is connected, by the sounds of it, to the sorts of
- 14 questions you said were in your mind before the meeting?
- 15 A. It's part of the same issue, yes.
- 16 Q. That was 4 May. Could I ask you then, please, to look
- 17 at the next page, which is 1872. Towards the bottom of
- that page there's an email from James Cousins to you and
- 19 to Symphony Windows, in which Mr Cousins said:
- "Graham/Nick, have you retested the wind deflections
- 21 of the windows or is there a requirement for an internal
- 22 brace of some description?"
- What was that about, please?
- 24 A. That's Mr Cousins following up the issue which I put in
- 25 the email to my colleague Crispin the previous day to

- find out if we've come to a conclusion about whether we
- 2 need additional bracing.
- 3 Q. On page 1874, we can see your reply to that email sent
- 4 on 8 May. So this is your email on your colleague, Liam
- 5 Hanson, where you say:
- 6 "Just for the sake of completeness, already dealt
- 7 with this morning."
- 8 So at that time you were still involved in this
- 9 project, and you were assisting Mr Hanson with these
- 10 questions?
- 11 A. This is the time that I handed the project back to
- 12 Mr Hanson, on 8 May. He would have had a phonecall in
- 13 the morning where I would have brought up him to speed.
- 14 I would have had my notes and my day book to hand at
- that time and I then forwarded this email to him just so
- he was aware that Mr Cousins had an outstanding email
- 17 query which needed to be answered by him now I'd handed
- 18 the project over, back to him.
- 19 Q. So what was it exactly you were saying you had already
- 20 dealt with?
- 21 A. I think I'm referring there to the fact that I would
- 22 have had a phone conversation with Mr Hanson and gone
- 23 through all the issues that were discussed in the
- 24 meeting, got him completely up to date with everything
- as it stood at that point, and then this was just

- a document for him to put on record for him to then
- 2 start to follow up and give Mr Cousins the answer.
- 3 Q. Was there any other sort of report back from you to
- 4 Mr Hanson or any note, perhaps, to fill him in with what
- 5 had happened at the meeting?
- 6 A. No, this was the -- as far as I was concerned at the
- 7 time, this was the outstanding issue that needed to be
- 8 followed up, and this was -- this was the content of it.
- 9 This was the entirety of it.
- 10 Q. At page 1873, there's an email from James Cousins to
- 11 Annabel Sidney, again on 8 May, in which he said:
- 12 "Annabel, update of windows: Liam Hanson of SAPA has
- 13 returned from illness and has taken over the project
- 14 from Graham Hurrell. Liam has confirmed that in
- 15 principle the fenestration design will not require any
- 16 additional bracing from the reverse. They are currently
- 17 preparing drawings and calculations for this."
- Do you remember whether SAPA were asked to provide
- 19 prepare any further drawings or any further calculations
- in the wake of the meeting on 3 May?
- 21 A. Okay, I'll take drawings and calculations as two
- 22 separate issues, if I may. As part of solving the
- 23 problem that we had potentially found with this issue of
- sag, we would have offered to do a stiffness calculation
- on some framing sections to see whether they would sag

- 1 too much, and we have a piece of software that allows us
- 2 to do this and we would then provide the results of that
- 3 calculation in the form of a piece of advice down the
- 4 supply chain to say either "This is going to sag too
- 5 much; you need to do something else" or "This requires
- 6 additional bracing" or "This will be absolutely fine as
- 7 it is". So that's the calculation element.
- 8 In terms of drawings, the only drawings that SAPA
- 9 would normally provide to a group of companies who are
- 10 now in contract would be drawings of specific profiles
- 11 rather than a complete assembly drawing or a drawing
- 12 that in any way was a contractual design drawing. So
- 13 when --
- 14 Q. Sorry, just to pause there --
- 15 A. Yeah.
- 16 Q. -- was the upshot of the meeting that you would need to
- 17 change the design of the profiles or couplings, can you
- 18 remember?
- 19 A. It's unclear from this document. I have seen a drawing
- which shows a change to the horizontal frame in W1, the
- 21 bedroom window, which, if that change actually was --
- 22 was done, would have resulted in a stronger frame than
- the one that was originally in the specification, which
- of course was based on there being two verticals rather
- than one.

- 1 Q. And again, any such drawing would have been connected to
- 2 this question of the strength of the frame, rather than
- 3 to any other issue?
- 4 A. That's correct, yes.
- 5 Q. Is it right that after the exchange of emails on 8 May,
- 6 you handed the project back to Mr Hanson?
- 7 A. Yes, I did. Mr Hanson then took over his normal
- 8 communication duties with regards to the project.
- 9 I would add that I had some internal communications with
- 10 my colleagues about the project over the subsequent
- 11 week, but as far as external communication and contact
- was concerned, at that point I handed it back to
- 13 Mr Hanson.
- 14 Q. Do you recall in the meeting on 3 May a suggestion being
- 15 made that the panel type should be changed from
- 16 powder-coated aluminium to a panel that was faced with
- 17 Trespa?
- 18 A. I've got no personal specific recollection of that
- 19 suggestion.
- 20 Q. Do you recall mentioning that aluminium panels could
- 21 easily be scratched or dented?
- 22 A. I don't have a specific recollection of making that
- point in connection with Lakanal, although it's a point
- 24 which has been my experience in certain types of
- 25 projects up to that point.

- 1 Q. Is that something you've remembered mentioning in this
- particular meeting?
- 3 A. Not in this particular meeting, no.
- 4 Q. Can you recall whether there was any discussion of which
- 5 type of panel would weather better?
- 6 A. I -- again, similar. I don't really have a recollection
- of discussing panels in terms of weathering, no.
- 8 Q. Do you recall any discussion of the relative cost of
- 9 aluminium-faced panels and Trespa-faced panels?
- 10 A. Not in regard to this specific meeting on this specific
- 11 project.
- 12 Q. Do you recall any discussion about whether it would be
- 13 possible to match the colour of the balcony panels to
- any other part of the building?
- 15 A. Not specific recollection as regards this particular
- 16 meeting, no.
- 17 Q. Do you think that after the meeting on 3 May a question
- of the change in the type of panels was something that
- 19 was in your mind?
- 20 A. I believe not, because it would have been in my day book
- 21 and I would have discussed it with Mr Hanson in the
- 22 handover process.
- 23 Q. At the time you attended the meeting, did you know what
- 24 sort of door was due to be installed first of all in the
- 25 kitchen and secondly in the lounge?

- 1 A. Yes, in both counts, I had a copy of the specification
- 2 that told me that a SAPA Dualframe door was specified
- 3 for the kitchen and for the lounge.
- 4 Q. Just so we're clear, are you referring there to the SAPA
- 5 performance specification?
- 6 A. I am indeed, yes.
- 7 Q. You didn't have the bill of quantities and the
- 8 information in the bill of quantities about what type of
- 9 door would be used in each case?
- 10 A. That's correct; I didn't have the bill of quantities.
- 11 Q. Do you recall accepting that SAPA had made a mistake
- because you were not able to provide an aluminium fire
- door to fit into this system of frames?
- 14 A. I don't recall accepting that we had made a mistake
- because of not being able to provide a fire door. At
- 16 the time we had a fire door that we could potentially
- 17 have provided. Sorry, a fire-resistant door.
- 18 Q. I've just put on screen page 4374, which is part of
- 19 a brochure which SAPA have provided in the course of
- 20 these inquests. In the top right-hand corner we can see
- 21 a date, April 1995, where the cursor is, and this is
- a brochure, looking at the bottom of the page, from
- 23 a company called Glostal. Is that a name that you
- 24 recognise?
- 25 A. Yes, Glostal is a company that was effectively bought by

- 1 SAPA in 1997.
- 2 Q. In summary, is this a brochure for a fire-resistant
- 3 aluminium door?
- 4 A. It is.
- 5 Q. At the time of that meeting, if asked, would you have
- 6 said that you were able to provide an aluminium
- 7 fire-resistant door or not?
- 8 A. I would have said yes, that we could.
- 9 Q. So far as you can remember, would there have been any
- 10 difficulties in terms of supply? That is of actually
- ordering one and obtaining one?
- 12 A. There wouldn't have been difficulties but there would
- 13 have been implications for the supply of that product,
- 14 which was a product where we controlled and restricted
- 15 the fabrication and manufacture to two or three key
- 16 customers because it was a specialist product, and those
- 17 customers were not in the supply chain for the project
- 18 as it stood at that time.
- 19 Q. If the matter had been raised, would that have been
- a reason for you to say that it couldn't be done, or
- 21 would that have been a difficulty which could have been
- 22 overcome?
- 23 A. That is a difficulty which would have had to have been
- overcome. It wouldn't have insurmountable, certainly as
- 25 far as SAPA are concerned.

- 1 THE CORONER: What sort of difficulty are we talking about?
- 2 Just inability to supply large numbers or ...
- 3 A. It's the technical -- it's the techniques needed to
- 4 produce the fire-resistant door because it contains
- 5 materials other than aluminium. It needs special
- 6 machining equipment and dust extraction equipment to
- 7 machine the part that is actually fire-resistant inside
- 8 the aluminium.
- 9 Also, we felt that certain customers who had been
- 10 trained on that product and understood the implications
- of the product, that they were manufacturing -- from
- 12 a safety point of view, it's a fire-resistant product,
- so we -- we would tend it to focus production on two or
- 14 three key customers.
- 15 The volume argument is also valid in that the number
- of doors produced with this system is quite small and
- 17 therefore it would not make sense to have 100 customers
- each producing one a year and having to do the training
- 19 and learn the techniques and have the equipment just to
- 20 produce low volume.
- 21 THE CORONER: Okay, thank you.
- 22 MR ATKINS: Leaving aside the difficulties that you've just
- been explaining, if the doors were available, would it
- 24 have been possible to incorporate them into the system
- of frames that were specified in the performance

- 1 specification?
- 2 A. Subject to one or two caveats, which I would have had to
- 3 have raised at the time, which I can explain --
- 4 Q. There's no need to go into the technical detail. Do you
- 5 remember whether that issue arose at the meeting?
- 6 A. I do not recall specifically discussing that issue at
- 7 this meeting.
- 8 Q. We've seen already that the SAPA performance
- 9 specification didn't say that the doors should be
- 10 fire-rated. In that context, if there had been
- a suggestion that a fire-rated door should be added or
- 12 put in place instead of what was in your specification,
- would that have caused you to query other aspects of the
- 14 specification?
- 15 A. It would have caused me to query the position of
- a fire-rated door in the middle of a non-fire-rated
- 17 window, and whether that would actually achieve fire
- 18 separation.
- 19 Q. Could you spell that out for us. Why might it not
- 20 achieve fire separation?
- 21 A. Yes. If you can remember the kitchen window
- configuration, you have a door and you have a window to
- one side and you have a panel to the other side, and you
- have some block-work at the bottom. The fire-resistant
- 25 door is designed to either be fixed into a complete

- fire-resistant structural compartment within the
- 2 building -- so, for example, to concrete walls top and
- 3 bottom and down both sides -- or it's designed to be
- 4 fixed to another fire-resistant screen which we also
- 5 make, ie a fixed window. It was never designed to be
- 6 fixed to non fire-resisting components, on two bases:
- 7 one is that if it's fixed to a non-fire-resisting
- 8 component that then structurally fails in the event of
- 9 a fire, how much support does the door itself have? We
- 10 couldn't be -- we couldn't guarantee that the door would
- 11 actually remain in place to resist the fire.
- 12 And then secondly, the -- the logic of designing
- a fire-resistant system to be attached to
- 14 a non-fire-resistant system is that fire could break
- 15 through either side of the door, through the
- 16 non-fire-resisting elements, and again, that would not
- 17 then constitute a fire-resistant barrier.
- 18 So the system was designed to be used only -- only
- on its own and not necessarily in connection with or
- 20 connected to any other SAPA systems.
- 21 Q. Do you recall discussing those sorts of questions with
- 22 Mr Hanson or anyone else at SAPA after that meeting on
- 23 3 May?
- 24 A. I don't, no.
- 25 Q. Mr Hurrell, thank you. Those are all the questions

- 1 I have for you. If you would be good enough to wait
- there, others will have questions for you.
- 3 THE CORONER: Do we want a five minute break? Would that be
- 4 sensible? Yes. Just five minutes, thank you.
- 5 Mr Hurrell, we'll have a five minute break, so
- 6 please don't go too far and don't talk to anyone during
- 7 the break, thank you very much.
- 8 (3.40 pm)
- 9 (A short break)
- $10 \quad (3.45 \text{ pm})$
- 11 (In the presence of the Jury)
- 12 THE CORONER: Yes, Mr Hendy, I think you had some questions.
- 13 Questions by MR HENDY
- 14 MR HENDY: Mr Hurrell, my name's Hendy. I represent some of
- the bereaved. In 2006, you were the specifications
- 16 manager and therefore presumably familiar with all the
- 17 specifications for your products?
- 18 A. I was familiar with the overwhelming majority of the
- 19 product specifications.
- 20 Q. I'm not going to test you. Not just the specifications
- 21 presumably of window frames, though, but presumably you
- 22 were also familiar with the specifications of the
- 23 windows which those window frames would contain?
- 24 A. Yes.
- 25 Q. So if we look, for example, at page 1302, which is in

- 1 bundle 4 -- this is the performance specification
- 2 Mr Hanson drew up. We've looked at it before. (Handed)
- 3 At the bottom of the page, under "Glazing", in the third
- 4 paragraph, we see that glazing is to be hermitically
- 5 sealed double-glazed units, inner pane 4-millimetre
- 6 "soft coat" low emissivity glass, outer pane of
- 7 4-millimetre glass, argon-filled cavity, centre pane U
- 8 value no greater than 1.2 watts per square thousand
- 9 kilometres. Interpane iplus, and then various other
- things.
- 11 And at the bottom of the page:
- 12 "All glass within 800 millimetres from FFL should be
- 13 toughened or laminated."
- 14 These are the sorts of specifications that would be
- just bread and butter to you at that time?
- 16 A. These two specific aspects are very common and you could
- say they are bread and butter.
- 18 Q. So if we can just look at the sorts of factors that
- 19 would come into play in specifying windows, in no
- 20 particular order. Obviously size?
- 21 A. Yes.
- 22 Q. Single, double or triple-glazed?
- 23 A. Yes.
- 24 Q. Polarisation?
- 25 A. No, that's not a term or a concept we would work with.

- 1 Q. Okay then. Emissivity?
- 2 A. That's insulation, effectively, yes.
- 3 Q. Right. Impact and strength, whether it's reinforced,
- 4 laminated, toughened, et cetera?
- 5 A. If we're referring specifically to glass here?
- 6 Q. Yes.
- 7 A. Okay. We would be aware of some basic requirements to
- 8 do with impacts and safety but not necessarily some more
- 9 specialist or esoteric ends of market.
- 10 Q. Right. Wind resistance? We've heard about that.
- 11 A. It applies to glass as well as frames, yes.
- 12 Q. Absolutely. You don't want it bending to the point
- where it breaks, for example?
- 14 A. Indeed you don't.
- 15 Q. Weight?
- 16 A. Weight of glass for us is very important because of the
- 17 effect on opening frames, yes.
- 18 Q. And insulation, of course, you've mentioned?
- 19 A. Insulation, because it works in conjunction with the
- frame to provide an overall insulation figure. We're
- 21 not interested in the glass insulation necessarily just
- itself but how it works with the frame.
- 23 Q. Most of the windows that you supplied are presumably in
- 24 external walls?
- 25 A. That's correct, yes.

- 1 Q. So fire resistance would be a key property?
- 2 A. Not so for us.
- 3 O. No?
- 4 A. No. Although we have a fire-resistant aluminium system,
- fire resistance, in our experience, in external parts of
- 6 the building, glazing areas of the building, is
- 7 relatively rare. There is far more requirement for fire
- 8 resistance on internal products, which we really don't
- 9 offer. Hence fire resistance for us is a specialist
- 10 thing that comes along once in a while rather than
- an everyday on every building occurrence.
- 12 Q. But presumably part B of the building regulations, which
- 13 specifies fire protection in particular in relation to
- 14 external walls and openings, would be likewise part of
- 15 your bread and butter, wouldn't it? You have to make
- 16 sure your windows are capable of complying with part B?
- 17 A. If a door was in a location that part B said had to be
- 18 fire-resistant, then we had a fire-resistant product for
- 19 that purpose, which is what we've just looked at.
- 20 Q. Yes.
- 21 A. That is still a relatively rare occurrence over the
- 22 years that we've been working in the -- in the industry.
- It's actually not very common for part B to require
- 24 an external door to have fire-resistant characteristics.
- 25 It's not impossible.

- 1 Q. What about windows --
- 2 A. The same --
- 3 0. -- in external walls?
- 4 A. The same for us really applies to windows as for doors.
- 5 The only window that we have that is fire-resistant is
- 6 a fixed window. It contains no opening parts, and my
- 7 understanding of the fire regulations -- and let's say
- 8 part B for now -- is that it's not feasible or possible
- 9 to have an opening window in a fire-resistant window
- 10 because somebody can leave it open or open it and the
- 11 fire can come through. So our only fire-resistant
- 12 window is a fixed one, and it's really like doors. It's
- 13 quite unusual for us to find a fire-resistant
- 14 application on the outside.
- 15 O. What about fixed panels? Presumably these are familiar
- items to you, or were at the time?
- 17 A. Fixed composite panels within windows, or --
- 18 Q. Any kind of panels that you would be involved with
- 19 because they're associated with windows, next to windows
- or below windows, or above windows, or whatever.
- 21 A. We would very commonly have need to get involved with
- 22 panels as part of a window. At that time, for us, the
- fire resistance characteristics, again, were relatively
- 24 rare, and in fact in our fire-resistant products there
- 25 are no panels -- no solid panels, no opaque panels, no

- 1 composite panels -- within the tested configuration of
- 2 that door or window system that we just looked at, so
- 3 that if a fire-resistant product were required, it could
- 4 not contain any type of panel if it were to perform as
- 5 tested, and we would only specify it as it is in its
- 6 tested form. So it's only been tested with glassing.
- 7 Q. And the frames of the windows I think you said were
- 8 fire-resistant?
- 9 A. The frames of the system that we just looked at before
- 10 the break.
- 11 Q. Only that specialist one?
- 12 A. Only that specialist system, yes.
- 13 Q. Okay. Could we just look at that for a moment. We need
- page 4374, I think, was the page that Mr Atkins put up.
- 15 Within that information, if you have the hard copy --
- 16 actually, do you want to look at it on the screen?
- 17 A. I'm okay with the screen.
- 18 Q. Let's put it up on the screen to save time. 4376 could
- we have? It's part of the same brochure. Can you see
- that, "Aluminium fire screens," top right? Under the
- 21 heading of "Materials", it says:
- 22 "Aluminium profiles are extruded to various
- 23 standards."
- They would be fire-proof or fire-resistant?
- 25 A. No, that's a general aluminium standard. The

- fire-resistance doesn't come from the aluminium itself
- 2 on its own.
- 3 Q. Understood. Sorry. Then the third bullet point is:
- 4 "Core profiles are produced from machined calcium
- 5 silicate."
- 6 The next bullet point is:
- 7 "Insulation quilt and bracket insulation are
- 8 produced from ceramic fibre."
- 9 Are the jury to understand from that that in this
- 10 fire-proof system the front and the back are made of
- 11 aluminium and what's found between them is some product
- 12 made from ceramics?
- 13 A. That's basically correct, yes.
- 14 Q. And the ceramics, of course, don't burn?
- 15 A. They are intended to retain everything in place -- after
- the aluminium has possibly given up supporting in the
- 17 event of a fire, these other components come into play
- 18 to allow everything to remain.
- 19 Q. So even if the aluminium melts, they remain inert, as it
- 20 were?
- 21 A. That's correct, yes.
- 22 Q. Neither do they give off smoke, as I understand it?
- 23 A. I don't know about that.
- Q. Or at least non-toxic smoke?
- 25 A. I don't know about that.

- 1 Q. You don't know. Okay, I won't press you. Thank you
- very much indeed.
- 3 THE CORONER: Mr Compton.
- 4 Questions by MR COMPTON
- 5 MR COMPTON: Mr Hurrell, Ben Compton. I represent Apollo
- 6 Services. Just one or two matters, please. You've been
- 7 asked to cast your mind back a long time, and I want to
- 8 see if I can just look a little bit more at this meeting
- 9 that we've heard about on 3 May, because it may be
- important, as you appreciate, for the jury in this case.
- 11 Your statement that you've made -- and this is not
- 12 a criticism, please don't take it as such -- is dated
- 13 20 July 2011. It's very short and it runs to one page.
- 14 Would you agree with that? So with that in mind, can I
- just ask you one or two matters just to see if there is
- 16 any way into unlocking your memory as to those events on
- 17 3 May.
- 18 Firstly, I think you can recall that it was in the
- 19 afternoon that the meeting took place?
- 20 A. Yes, it was, yes.
- 21 Q. And you said earlier in answer to Mr Atkins, who sits in
- 22 front of me -- this was very early on in your
- 23 evidence -- that it was unclear from your records when
- 24 you had become aware that there was a problem or
- 25 a design problem. Can I take it that we have all the

- 1 records that there were, that there's nothing else that
- 2 you have that would throw any light on this?
- 3 A. We've been through our entire customer record management
- 4 system. We've pulled up and disclosed every email,
- 5 every bit of correspondence that's in that system, so
- 6 I certainly do not believe there are any other documents
- 7 within our domain.
- 8 Q. Yes. So there's no notes or anything? So it's
- 9 recollection only that we rely upon?
- 10 A. Yes.
- 11 Q. Very well. In your original statement -- we don't need
- 12 to look it up, I see the time -- you say that you
- 13 attended the meeting with Nick Coupe from Symphony
- 14 Windows. You don't refer to anyone else. Is your
- 15 recollection now -- again, this is not a criticism --
- 16 that James Cousins was there from Apollo, and a number
- of other people from Southwark, that there was
- John Menlove and Annabel Sidney? Can you recall that
- 19 now?
- 20 A. That's correct. That is my current recollection, yes.
- 21 Q. Can you remember approximately, or roughly, how long
- this meeting lasted for?
- 23 A. I don't actually remember, but I have seen some
- 24 documents that indicate it lasted until -- well, it was
- 25 recorded as being quite a long meeting, and for that

- 1 I would normally assume to be something in the region of
- 2 two hours, but that's just my estimate.
- 3 Q. All right, that's your recollection. Can you remember
- 4 the meeting starting or commencing with discussions in
- 5 relation to this design problem that had originated or
- 6 had come through from the pages in particular in
- 7 relation to the wind-loading?
- 8 A. I can't necessarily recall it as being -- shall we say
- 9 starting the meeting, but I know because of the
- 10 documentation we have and I do remember that this was
- an item that was discussed. Whether it was the starting
- item, I'm not -- I couldn't be too sure.
- 13 Q. This may not be important, but if others were to say the
- 14 fact that you had really apologised fairly early on in
- that meeting for a number of difficulties that had
- 16 arisen, would you think that is likely or if you think
- 17 that that is unlikely? Please say so.
- 18 A. I have to say I think in this case it's unlikely,
- because as far as I've been able to work out from the
- documentation, the issue that I went there to resolve,
- 21 the strength issue, was not necessarily caused by
- 22 an error on SAPA's part; it was caused because there was
- a discrepancy between the drawing and the specification.
- Now, of course, that's not to say that I would
- 25 necessarily start to blame anybody for that. It's just

- 1 my job to help work through the problem.
- 2 Q. Very well. Let me move on. I want to also ask you
- 3 about aluminium and Trespa, and whether there was
- 4 a conversation about that. Let me make myself clear.
- 5 Can you remember, as part of the conversation,
- 6 discussions about residents potentially using the
- 7 walkways we know as the fire escape area to put out
- 8 rubbish and so forth, and the issue being raised as to
- 9 aluminium being scratched or dented easily?
- 10 A. I don't have a specific recollection of discussing that
- issue.
- 12 Q. When you say that, are you saying it may have taken
- place but because of the passage of time you can't
- 14 recall?
- 15 A. That is it, that's correct.
- 16 Q. Thank you very much. Well, that's a very fair way of
- 17 putting it. You say in your statement -- and perhaps if
- we could just have this up. Madam, I see the time. I'm
- only going to be two or three minutes. 594, please. Do
- we see the third paragraph:
- 21 "I cannot recall suggesting aluminium panels would
- 22 scratch easily. I am aware they can dent easily.
- 23 I know Trespa ..."
- And then it says "in more". I presume it should
- 25 say:

- "... is a more robust panel."
- 2 A. I believe it should say that, yes.
- 3 Q. Was that your understanding, that Trespa was a more
- 4 robust panel than aluminium?
- 5 A. In terms of its behaviour against impact on mechanical
- 6 contact, that was my understanding at the time, yes.
- 7 Q. I'm not talking about the fire aspect; it's simply
- 8 talking about its robustness for knocks and bangs.
- 9 In the course of this conversation -- I appreciate
- 10 it's difficult for you -- there was also a discussion
- about the aesthetics of the building, and whether or not
- 12 Trespa, which is, I think, matt in its appearance, would
- match in with aluminium, which has a more glossy look?
- 14 A. It's definitely the case that from a visual point of
- 15 view the Trespa finishes and colours cannot be matched
- 16 to the finishes and colours on the aluminium. Whether
- 17 it's to do with matt/gloss or whether it's to do with
- 18 colour or whether it's to do with texture, it's
- 19 a combination of those.
- 20 Q. That is why I ask you -- and I anticipate what your
- 21 answer's going to be, but can you remember that there
- 22 was a discussion about changing aluminium to Trespa for
- a number of reasons, but including the colour aspect?
- 24 A. Again, unfortunately I don't have a direct recollection
- of that conversation and we don't have any subsequent

- 1 documentation on actions after the meeting that pick up
- on that point, so I'm afraid I'm stuck with my own
- 3 person recollection.
- 4 Q. But it's something that may have been said? You
- 5 couldn't --
- 6 A. It's quite conceivable, yes.
- 7 Q. The only other matter is also there was, I suggest,
- 8 a conversation about fire doors and FD30, and in
- 9 relation to the balcony fire doors -- and you've already
- 10 been asked about this, and I appreciate the answer
- 11 you've given, that it is possible to have a fire-rated
- 12 door in aluminium, but the answer you gave at this
- meeting is that it couldn't be done.
- 14 A. I would not agree with that particular statement. My
- answer would be that it can be done but there are
- 16 conditions attached to the doing of it.
- 17 Q. Do you think in that conversation you may have headed
- 18 people off from following that particular course, for
- 19 example by pointing out difficulties in having
- 20 a fire-rated aluminium door?
- 21 A. I would just point out what the -- what the implications
- 22 are. If other people choose not to use it as a result
- of understanding what I've said, then that's their
- decision. I would be -- I would have no reason to head
- 25 them away from the door from a commercial perspective at

- 1 all.
- 2 Q. No, but you've told us about having special customers
- and so forth. It wasn't going to be an easy and
- 4 straightforward sell; would that be right?
- 5 A. It would depend on the willingness of the parties who
- 6 were in contract to maybe change the supply chain to
- 7 purchase that door, and that's -- that's their decision.
- 8 Q. Any further conversations that I put to you about what
- 9 was said at the meeting would not be of any assistance
- 10 to you?
- 11 A. I'm afraid all I have is personal recollection and the
- 12 immediate post-meeting communications that we made on
- the one issue of the strength, and I really cannot
- 14 recall any more specific discussions on that subject.
- 15 Q. Very well. I'll leave it there. Thank you, madam.
- 16 THE CORONER: Thank you. Mr Leonard.
- 17 Questions by MR LEONARD
- 18 MR LEONARD: One very short matter. I wonder if 1872 would
- 19 be put up. I am told it's volume 5, unless you're happy
- just to look at it on the screen. It's an email. It
- 21 won't take a minute.
- Just having a look together at the date of this
- email, 8 May 2006, 11.48, presumably in the morning,
- from Nick. We take that to be Nick Coupe from Symphony
- 25 Windows. Just before I look at the first paragraph, are

- 1 you saying you don't recall any conversation about
- 2 panels at all at the meeting on 3 May?
- 3 A. I don't recall discussing panels at the meeting, but if
- 4 you'd like me to comment on a reference to a panel in
- 5 this sentence --
- 6 Q. No, it's talking about load-bearing at that point.
- 7 A. This is a discussion about the sag issue.
- 8 Q. Absolutely.
- 9 A. And it's whether or not the panel that's underneath the
- 10 horizontal framing would actually be capable of stopping
- 11 the sag, in effect supporting the frame above.
- 12 Q. Yes, I agree.
- 13 A. Yes.
- 14 Q. It's an alternative to having another --
- 15 A. It's an alternative, yes.
- 16 Q. -- mullion in?
- 17 A. Indeed, yes.
- 18 Q. And what seems to be being discussed here is whether or
- not, as an alternative to changing the frame design,
- 20 a panel would be changed as well, yes? As an
- 21 alternative?
- 22 A. That's my understanding.
- 23 Q. What seems to have happened is they've gone to Liam,
- 24 whom they heard from earlier that morning, and decided
- 25 that load-bearing panels don't need to form a part of

- 1 their discussion.
- 2 A. That's my understanding, yes.
- 3 Q. Does that help you with whether or not panels in one
- 4 form or another were being discussed at the meeting on
- 5 3 May?
- 6 A. It only tells me that we were looking at methods of
- 7 supporting this transom or introducing a new frame, and
- 8 that a panel could be used as a method of supporting the
- 9 transom, but it doesn't really lead me to the conclusion
- 10 that we discussed other aspects of panels or changing
- 11 panels. It was just about whether a panel could be used
- 12 for a purpose.
- 13 Q. All right. Thank you.
- 14 THE CORONER: Thank you. Ms Canby?
- 15 Questions by MS CANBY
- 16 MS CANBY: Mr Hurrell, just one question. You said in
- 17 answer to questions by Mr Compton in relation to the
- 18 aluminium fire door that you had no reason to head them
- off, ie those at the meeting on 3 May 2006, from
- 20 a commercial perspective at all in terms of using the
- 21 aluminium fire door. What did you mean by that comment?
- 22 A. There was no reason why SAPA would not want to supply
- the fire-resistant door. We'd be quite interested in
- 24 supplying the fire-resistant door as an alternative to
- 25 the Dualframe door that up until that point had been

- 1 specified, and I had no reason other than to point out
- 2 some of the technical characteristics of that door and
- 3 it's for others to decide whether they were acceptable
- 4 or not. So really, we would have been quite interested
- 5 in the product.
- 6 Q. Thank you very much.
- 7 THE CORONER: Thank you. Ms Petherbridge? Thank you very
- 8 much.
- 9 Members of the jury, do you have any questions?
- 10 Thank you very much.
- 11 Mr Hurrell, thank you very much for coming and for
- 12 the help you've been able to give us. I'm grateful.
- 13 Yes, you're free to go now if you would like. Thank
- 14 you.
- 15 (The witness withdrew)
- 16 THE CORONER: Yes, just a quick preview for tomorrow and
- then we'll release the jurors.
- 18 MR ATKINS: Madam, yes, the plan tomorrow is to hear the
- 19 evidence of Tom Campbell from Symphony Windows, and we
- are looking into the possibility of bringing forward the
- 21 evidence of Giles Wilson, who would deal with the FENSA
- 22 certification scheme.
- 23 THE CORONER: Thank you very much. Members of the jury, I'm
- sorry we've kept you late today. It's ben a long day,
- 25 I know. Thank you very much. We look forward to seeing

1	you tomorrow at 10. Thank you.					
2	(In the absence of the Jury)					
3	THE CORONER: Yes, are there any matters to raise before					
4	tomorrow morning?					
5	MR HENDY: Just to say, madam, that our list of issues which					
6	we were going to invite you to call Mr King to address					
7	will be with all the parties within the next hour or so.					
8	THE CORONER: That's very helpful. Thank you very much.					
9	MR HENDY: I apologise for not handing it out this morning.					
10	THE CORONER: No, that's fine. Thank you very much. Yes,					
11	thank you all very much.					
12	(4.11 pm)					
13	(The Court adjourned until 10 o'clock the following day)					
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