

**To:** Terry Ashton[Terry.Ashton@Exova.com]  
**Cc:** 1279 Grenfell Tower[1279\_Grenfell\_Tower@studioe.co.uk]  
**From:** Neil Crawford  
**Sent:** Thur 18/09/2014 12:17:35 PM  
**Importance:** Normal  
**Subject:** RE: Grenfell Tower Cavity Fire barriers  
**Received:** Thur 18/09/2014 12:17:04 PM  
[1279 SEA \(06\) 120 - Detail Sections 1.pdf](#)  
[1279 SEA \(06\) 121 - Detail Sections 2.pdf](#)  
[1279 SEA \(06\) 122 - Detail Sections 3.pdf](#)  
[Harley Initial Drawing Set.pdf](#)

Hi Terry

Please see attached our sections and the initial drawings set we have had from Harleys. The initial drawings from Harleys are fairly limited but they attempt to establish the basic approach.

Regards  
Neil

---

**From:** Terry Ashton [mailto:Terry.Ashton@Exova.com]  
**Sent:** 18 September 2014 11:33  
**To:** Neil Crawford  
**Subject:** RE: Grenfell Tower Cavity Fire barriers

Neil

I've never seen details of what you're doing to the external walls. Do you have any cross sections/elevations?

Kind regards

Terry

**Terry Ashton:** Associate, Fire Engineering (Europe)  
Exova Warringtonfire

T: [REDACTED] M: [REDACTED]  
Exova



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**From:** Neil Crawford [mailto:Neil@studioe.co.uk]  
**Sent:** 18 September 2014 11:08  
**To:** Terry Ashton  
**Cc:** [slawrence@rydon.co.uk](mailto:slawrence@rydon.co.uk); Simon O'Connor ([SOConnor@rydon.co.uk](mailto:SOConnor@rydon.co.uk)); 1279 Grenfell Tower  
**Subject:** FW: Grenfell Tower Cavity Fire barriers

Hi Terry

I am working on the Grenfell Tower regeneration project from the Studio E end. The following RFI has come in relating to horizontal fire breaks within the cladding areas.

Can you comment on the RFI attached and whether you believe this interpretation in relation to stack effect is correct?

Regards  
Neil

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**From:** Daniel Anketell-Jones [mailto:Daniel@harleycw.co.uk]

---

**Sent:** 17 September 2014 14:23  
**To:** Simon Lawrence; Simon O'Connor; Neil Crawford; Bruce Sounes  
**Cc:** Kevin Lamb  
**Subject:** Grenfell Tower Cavity Fire barriers

Simon,

Please find attached RFI001 which relates to the requirement of firebreaks. This may be something that has already been decided, or may need confirmation from the local fire officer, as the opinion tends to vary.

Kind Regards

Daniel Anketell-Jones  
Design Manager



T- [REDACTED]  
F- [REDACTED]  
W- [www.harleycurtainwall.com](http://www.harleycurtainwall.com)

**Head Office**  
Harley House, Brooklands Park  
Farningham Road, Crowborough  
East Sussex, TN6 2JD

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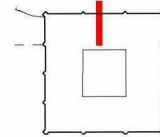
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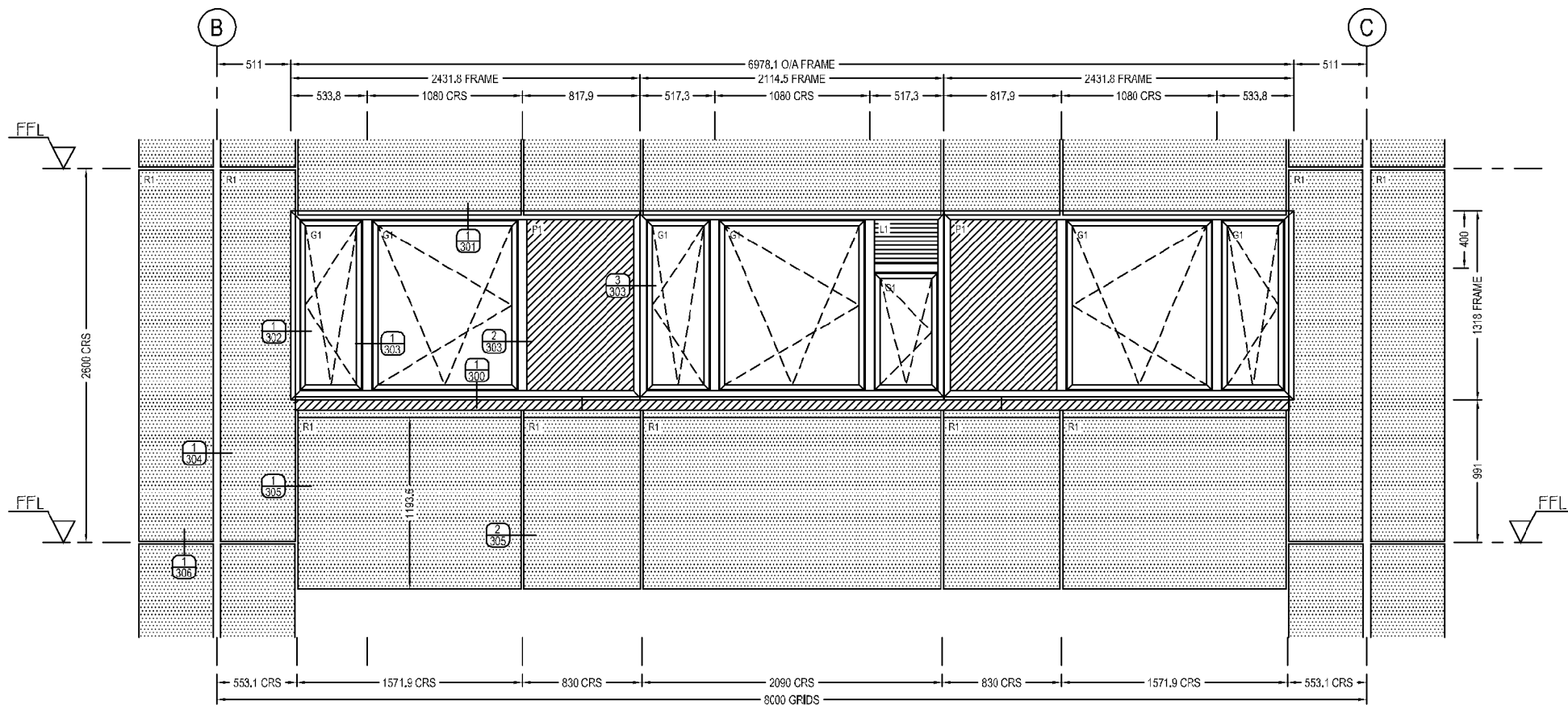
1. THE READING IS CONFIDENT STRAIGHT.
2. THE CONJECTOR LAST NOT SURE FROM THE READING AT DIMENSIONS TO BE TAKEN FROM DIMENSION STRINGS.
3. WHERE AN CONCEPTS ARE FOUND FROM DIMENSIONS THESE LAST BE PROMPT TO THE ATTENTION OF THE READER FOR RECOGNITION.
4. WHEN DEVELOPMENT OF READER REFERENCES OR CONCEPTS ARE LATER TIME PREFERENCE.








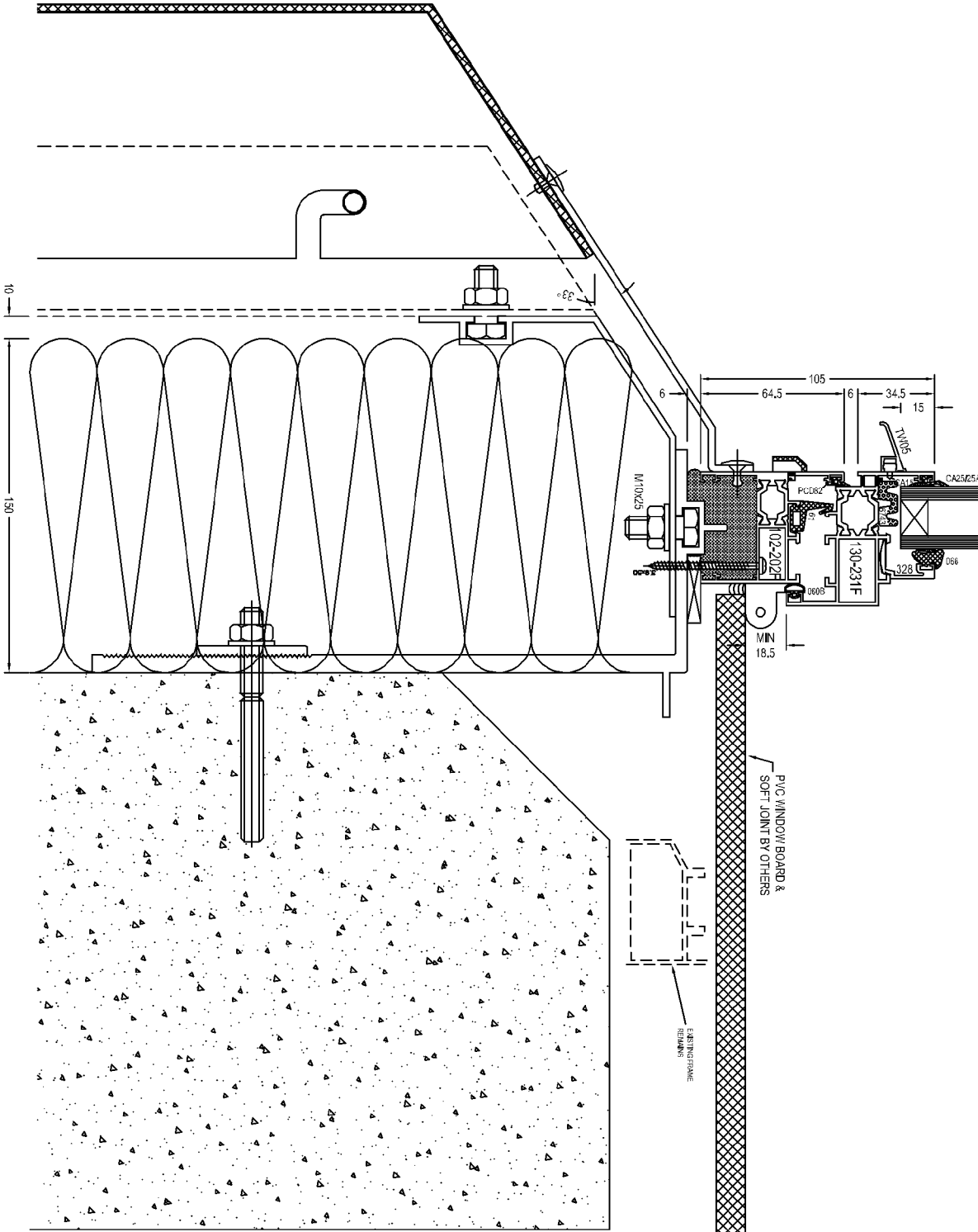
1279 (08) 122 00



TYPICAL BAY LEVELS 1 TO 20 WEST ELEVATION  
(EAST IS OPPOSITE HAND)

ISSUED FOR  
APPROVAL

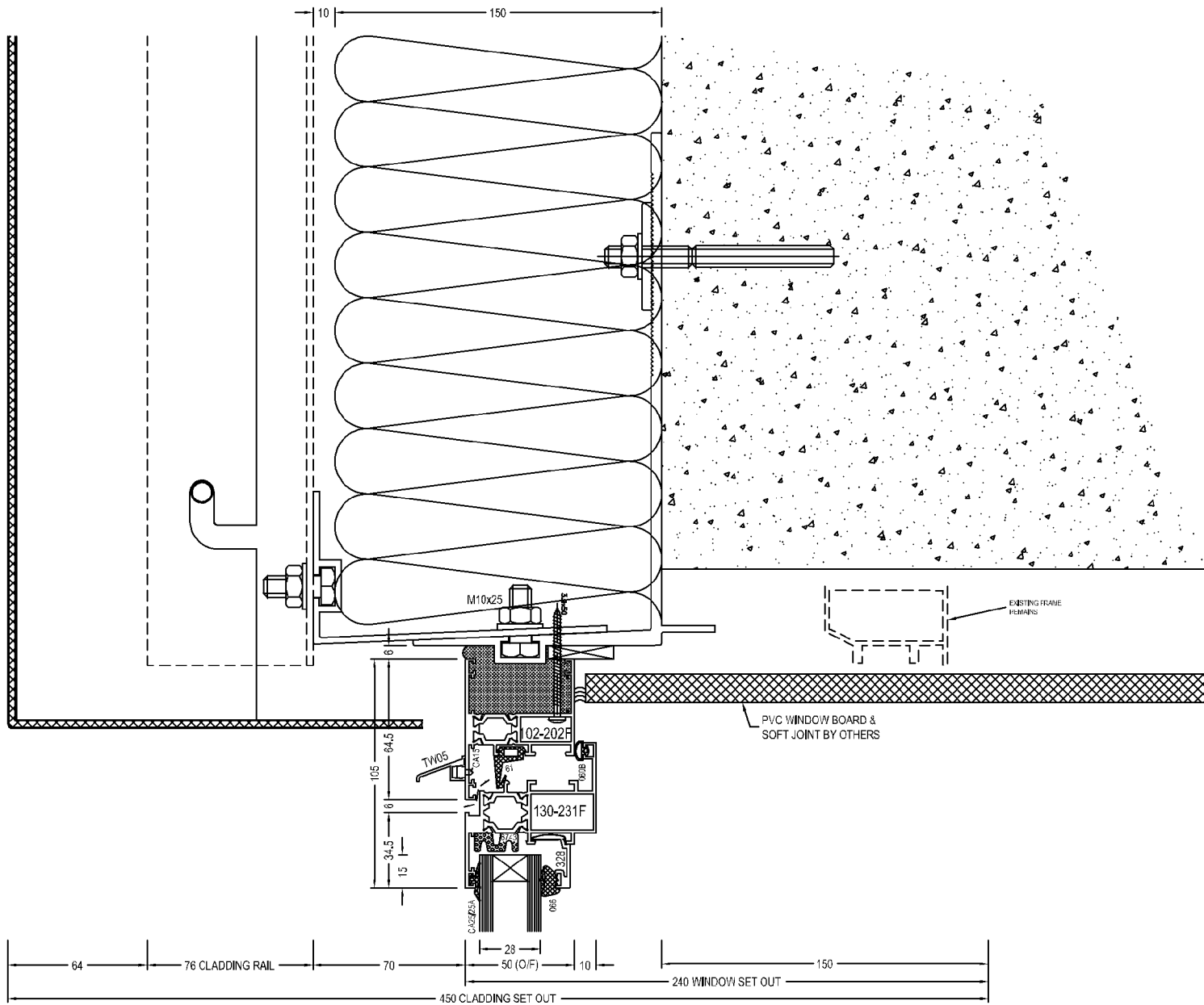
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	-	-	-			Drawn By: bd KVL	Date: 20.08.14	Scale: 1:30@A3			
	-	-	-								
	-	-	-								
	Rev	Date		Notes							



1  
WINDOW CILL  
UPPER LEVELS

ISSUED FOR  
APPROVAL

FILE ..		SECTION		Project		Drawn By		Date		Scale		Titled		Drawn No.		Rev.	
REV	DATE	NOTES		GRENFELL TOWER		bd	KVL	20/08/14		1:20/A3							
				GRENFELL RD, LONDON, W11 1TQ													
				HARLEIGH HOUSE													
				BROOKLANDS PARK													
				FARMINGHAM ROAD													
				EAST SUSSEX													
				TN4 2JD													



1  
WINDOW HEAD  
UPPER LEVELS

ISSUED FOR  
APPROVAL

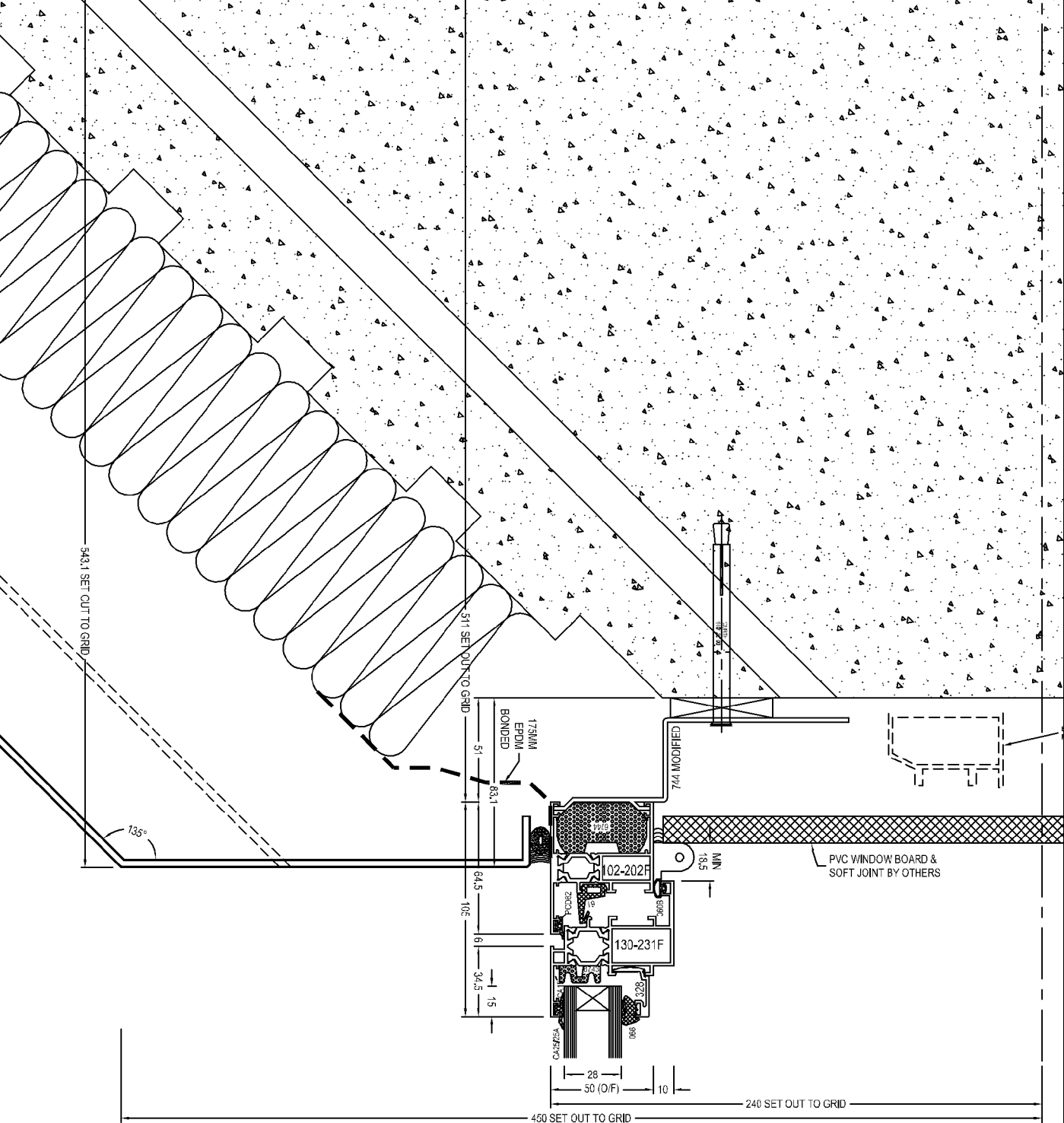
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Rev	Date	Notes
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-	-	-

SECTIONS	
1	SECTION

Project		
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Drawn By: bd KVL	Date: 20.08.14	Scale: 1:2@A3

harley	
HARLEY HOUSE BROOKLANDS PARK FARNINGHAM ROAD CROWBOROUGH EAST SUSSEX TN4 2JD Tel: [REDACTED]	
Drawing No: C1059-301	Rev: -





1  
WINDOW JAMB  
UPPER LEVELS

ISSUED FOR  
APPROVAL

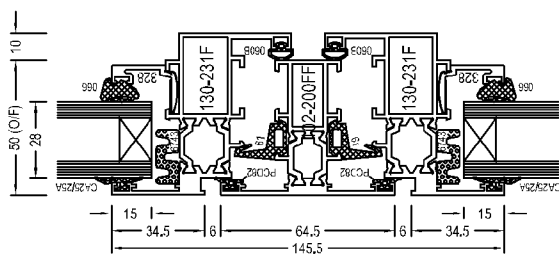
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REV	DATE	NOTES

SECTIONS	

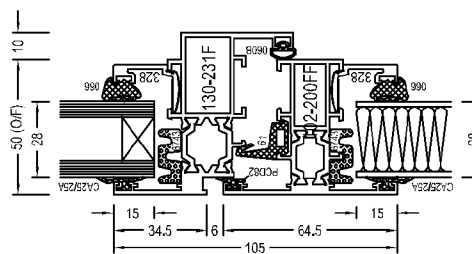
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Drawn by	bd KVL
Date	20.08.14
Scale	1:20@A3

Client	
Drawn by	bd KVL
Date	20.08.14
Scale	1:20@A3

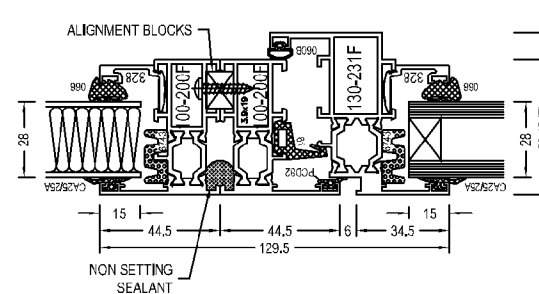
Drawn by	
Drawn by	bd KVL
Date	20.08.14
Scale	1:20@A3



1  
WINDOW MILLION  
VENT / VENT



2  
WINDOW MILLION  
VENT / PANEL



Technical drawing of a column front joint. The drawing shows a cross-section of a column with a joint. Key dimensions include 102, 45, 100, 228.8, 967.7 TO GRID, and 45°. Annotations include 'COLUMN FRONT JOINT', 'LOCAL FIN & BRACKET ASSY', 'LOCAL TASS FOR ANTI LIFT FIXING', and '102x76x6 ALU'. The drawing is labeled with a circled '1'.

FILE ..		SECTION		Project		Drawing No	
Rev	Date	Notes		Drawn By	Date	Scale	Rev
A	22.08.14	FIN DETAIL ADDED		bd	20.08.14	1:2@A3	A

**hertley**  
HARTLEY HOUSE  
BROOKLANDS PARK  
CROOKHAM ROAD  
EAST SUSSEX  
TN11 2JD

ISSUED FOR APPROVAL

EXO00001640/11

[illegible][illegible]

Technical drawing of a column front joint. The drawing shows a cross-section of a column with a joint. Key components and dimensions include:

- Dimensions:** 102, 45, 100, 228.8, 967.7 TO GRID.
- Annotations:** "COLUMN FRONT JOINT", "1", "LOCAL FIN & BRACKET ASSY", "LOCAL TASS FOR ANTI LIFT FIXING", "45°", "102x76x6 ALU", "M8x25".
- Structural Details:** The drawing shows a column with a joint, including a bracket assembly and a local fin. The joint is secured with M8x25 bolts.

FILE ..		SECTIONS		Project		Drawing No	
Rev	Date	Notes		Drawn By	Date	Scale	Rev
A	22.08.14	FIN DETAIL ADDED		bd	20.08.14	1:2@A3	A
		Notes		GREENFELL TOWER		HARLEY HOUSE	
				GREENFELL RD, LONDON, W11 1TQ		BROOKLANDS PARK	
						CANNINGHAM ROAD	
						EAST SUSSEX	
						TN4 2JD	
						Tel	

ISSUED FOR APPROVAL

EXO00001640/11

Technical drawing of a column front joint. The drawing shows a cross-section of a column with a joint. Key dimensions include a 100mm gap, a 228.8mm dimension, and a 102mm dimension. Annotations include 'LOCAL FIN & BRACKET ASSY', 'LOCAL TASS FOR ANTI LIFT FIXING', and '967.7 TO GRID'. A circular callout '1' is present. The drawing is oriented vertically on the page.

FILE ..		SECTION		Project		Drawing No	
Rev	Date	Notes		Drawn By	Date	Scale	Rev
A	22.08.14	FIN DETAIL ADDED		bd	20.08.14	1:2@A3	A
		Notes		GREENFELL TOWER		HARLEY HOUSE	
				GREENFELL RD, LONDON, W11 1TQ		BROOKLANDS PARK	
						CANNINGHAM ROAD	
						EAST SUSSEX	
						TN11 2JD	
						Tel	

ISSUED FOR APPROVAL

EXO00001640/11

Technical drawing of a column front joint. The drawing shows a cross-section of a column with a joint. Key dimensions include 102, 45, 100, 228.8, 967.7 TO GRID, and 45°. Annotations include 'COLUMN FRONT JOINT', 'LOCAL FIN & BRACKET ASSY', 'LOCAL TASS FOR ANTI LIFT FIXING', and '102x76x6 ALU'. The drawing is labeled with a circled '1'.

FILE ..		SECTIONS		Project		Drawing No	
Rev	Date	Notes		Drawn By	Date	Scale	Rev
A	22.08.14	FIN DETAIL ADDED		bd	20.08.14	1:2@A3	A

**hertley**  
HARTLEY HOUSE  
BROOKLANDS PARK  
Uxbridge, Middlesex  
TNA 2TD

ISSUED FOR APPROVAL

EXO00001640/11

Technical drawing of a column front joint. The drawing shows a cross-section of a column with a joint. Key dimensions include 102, 45, 100, 228.8, 967.7 TO GRID, and 45°. Annotations include 'COLUMN FRONT JOINT', 'LOCAL FIN & BRACKET ASSY', 'LOCAL TASS FOR ANTI LIFT FIXING', and '102x76x6 ALU'. The drawing is labeled with a circled '1'.

FILE ..		SECTIONS		Project		Drawing No	
Rev	Date	Notes		Drawn By	Date	Scale	Rev
A	22.08.14	FIN DETAIL ADDED		bd	20.08.14	1:2@A3	A

**hertley**  
HARTLEY HOUSE  
BROOKLANDS PARK  
Uxbridge, Middlesex  
TNA 2TD

ISSUED FOR APPROVAL

EXO00001640/11

Technical drawing of a column front joint. The drawing shows a cross-section of a column with a joint. Key components and dimensions include:

- Dimensions:** 102, 45, 100, 228.8, 967.7 TO GRID.
- Annotations:** "COLUMN FRONT JOINT", "1", "LOCAL FIN & BRACKET ASSY", "LOCAL TASS FOR ANTI LIFT FIXING", "102x76x6 ALU", "M8x25", "45°".
- Structural Details:** The drawing shows a column with a joint, including a bracket assembly and a local fin. The joint is secured with M8x25 bolts. A local fin is attached to the column, and a local TASS for anti-lift fixing is also shown.

FILE ..		SECTIONS		Project		Drawing No	
Rev	Date	Notes		Drawn By	Date	Scale	Rev
A	22.08.14	FIN DETAIL ADDED		bd	20.08.14	1:2@A3	A
		Notes		GREENFELL TOWER		HARLEY HOUSE	
				GREENFELL RD, LONDON, W11 1TQ		BROOKLANDS PARK	
						CANNON ROAD	
						EAST SUSSEX	
						TN11 2JD	

ISSUED FOR APPROVAL

EXO00001640/11

Technical drawing of a column front joint. The drawing shows a cross-section of a column with a joint. Key components and dimensions include:

- Dimensions:** 102, 45, 100, 228.8, 967.7 TO GRID.
- Annotations:** "COLUMN FRONT JOINT", "1", "LOCAL FIN & BRACKET ASSY", "LOCAL TASS FOR ANTI LIFT FIXING", "102x76x6 ALU", "M8x25", "45°".
- Structural Details:** The drawing shows a column with a joint, including a bracket assembly and a local fin. The joint is secured with M8x25 bolts. A local fin is attached to the column, and a local TASS for anti-lift fixing is also shown.

FILE ..		SECTIONS		Project		Drawing No	
Rev	Date	Notes		Drawn By	Date	Scale	Rev
A	22.08.14	FIN DETAIL ADDED		bd	20.08.14	1:2@A3	A

**hertley**  
HARTLEY HOUSE  
BROOKLANDS PARK  
Uxbridge, Middlesex  
TNA 2TD

ISSUED FOR APPROVAL

EXO00001640/11

**ISSUED FOR APPROVAL**

**SECTION 1**

COLUMN FRONT JOINT

LOCAL FIN & BRACKET ASSY

LOCAL TASS FOR ANTI LIFT FIXING

102x76x6 ALU

M8x25

M8x25

45°

102

45

967.7 TO GRID

228.8

100

**FILE ..**

Rev	Date	Notes
A	22.08.14	FIN DETAIL ADDED

**SECTIONS**

Drawn By: **bd KVL** Date: **20.08.14** Scale: **1:2@A3**

**GREENFELL TOWER**  
**GREENFELL RD, LONDON, W11 1TQ**

**WATLEY HOUSE**  
BROOKLANDS PARK  
UXTON ROAD  
UXTON  
MIDGLANDS  
CV3 9EF

Drawing No: C1059-304 Rev: A

EX000001640/11

[illegible]

Technical drawing of a column front joint. The drawing shows a cross-section of a column with a joint. Key components and dimensions include:

- Dimensions:** 102, 45, 100, 228.8, 967.7 TO GRID.
- Annotations:** "COLUMN FRONT JOINT", "1", "LOCAL FIN & BRACKET ASSY", "LOCAL TASS FOR ANTI LIFT FIXING", "102x76x6 ALU", "M8x25", "45°".
- Structural Details:** The drawing shows a column with a joint, including a bracket assembly and a local fin. The joint is secured with M8x25 bolts. A local fin is attached to the column, and a local TASS for anti-lift fixing is also shown.

FILE ..		SECTIONS		Project		Drawing No	
Rev	Date	Notes		Drawn By	Date	Scale	Rev
A	22.08.14	FIN DETAIL ADDED		bd	20.08.14	1:2@A3	A

**hertley**  
HARTLEY HOUSE  
BROOKLANDS PARK  
Uxbridge, Middlesex  
TNA 2TD

ISSUED FOR APPROVAL

EXO00001640/11

Technical drawing of a column front joint. The drawing shows a cross-section of a column with a joint. Key components and dimensions include:

- Dimensions:** 102, 45, 100, 228.8, 967.7 TO GRID.
- Annotations:** "COLUMN FRONT JOINT", "1", "LOCAL FIN & BRACKET ASSY", "LOCAL TASS FOR ANTI LIFT FIXING", "102x76x6 ALU", "M8x25", "45°".
- Structural Details:** The drawing shows a column with a joint, including a bracket assembly and a local fin. The joint is secured with M8x25 bolts. A local fin is attached to the column, and a local TASS for anti-lift fixing is also shown.

FILE ..		SECTIONS		Project		Drawing No	
Rev	Date	Notes		Drawn By	Date	Scale	Rev
A	22.08.14	FIN DETAIL ADDED		bd	20.08.14	1:2@A3	A

**hertley**  
HARTLEY HOUSE  
BROOKLANDS PARK  
Uxbridge, Middlesex  
TNA 2TD

ISSUED FOR APPROVAL

EXO00001640/11

Technical drawing of a column front joint. The drawing shows a cross-section of a column with a joint. Key components and dimensions include:

- Dimensions:** 102, 45, 100, 228.8, 967.7 TO GRID.
- Annotations:** "COLUMN FRONT JOINT", "1", "LOCAL FIN & BRACKET ASSY", "LOCAL TASS FOR ANTI LIFT FIXING", "102x76x6 ALU", "M8x25", "45°".
- Structural Details:** The drawing shows a column with a joint, including a bracket assembly and a local fin. The joint is secured with M8x25 bolts. A local fin is attached to the column, and a bracket assembly is used for anti-lift fixing.

FILE ..		SECTIONS		Project		Drawing No	
Rev	Date	Notes		Drawn By	Date	Scale	Rev
A	22.08.14	FIN DETAIL ADDED		bd	20.08.14	1:2@A3	A
		Notes		GREENFELL TOWER GREENFELL RD, LONDON, W11 1TQ		HARLEY HOUSE BROOKLANDS PARK Uxbridge, MIDDLESEX TNA 2TD	

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APPROVAL

EXO00001640/11

Technical drawing of a column front joint. The drawing shows a cross-section of a column with a joint. Key components and dimensions include:

- Dimensions:** 102, 45, 100, 228.8, 967.7 TO GRID.
- Annotations:** "COLUMN FRONT JOINT", "1", "LOCAL FIN & BRACKET ASSY", "LOCAL TASS FOR ANTI LIFT FIXING", "102x76x6 ALU", "M8x25", "45°".
- Structural Details:** The drawing shows a column with a joint, including a bracket assembly and a local fin. The joint is secured with M8x25 bolts. A local fin is attached to the column, and a local TASS for anti-lift fixing is also shown.

FILE ..		SECTIONS		Project		Drawing No	
Rev	Date	Notes		Drawn By	Date	Scale	Rev
A	22.08.14	FIN DETAIL ADDED		bd	20.08.14	1:2@A3	A

**hertley**  
HARTLEY HOUSE  
BROOKLANDS PARK  
Uxbridge, Middlesex  
TNA 2TD

ISSUED FOR APPROVAL

EXO00001640/11

**ISSUED FOR APPROVAL**

**SECTION 1**

**COLUMN FRONT JOINT**

**EXC00 EXO00001640/11**

**GREENFELL TOWER**  
GRENFELL RD, LONDON, W11 1TQ

**Drawn By:** bd KVL  
**Date:** 20.08.14  
**Scale:** 1:2@A3

**Project:** HARLEY HOUSE  
BROOKLANDS PARK  
CANNINGHAM ROAD  
EAST SUSSEX  
TN11 2JD

**Drawing No:** C1059-304  
**Rev:** A

**FILE ..**

Rev	Date	Notes
A	22.08.14	FIN DETAIL ADDED

**Local Fin & Bracket Assy**

**LOCAL TABS FOR ANTI LIFT FIXING**

**102x76x6 ALU**

**M8x25**

**45°**

**102**

**45**

**967.7 TO GRID**

**228.8**

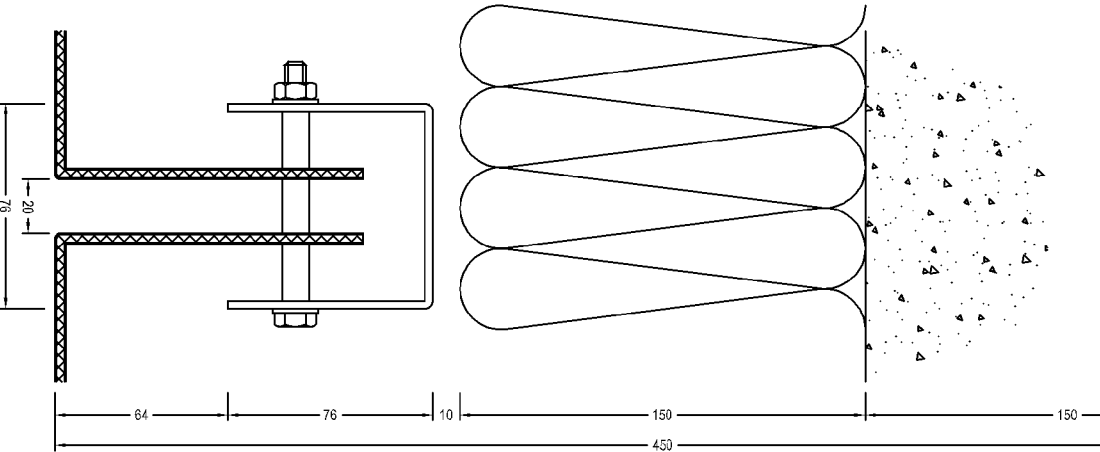
**100**

Technical drawing of a column front joint. The drawing shows a cross-section of a column with a joint. Key dimensions include a 100mm gap, a 228.8mm dimension, and a 102mm dimension. Annotations include 'LOCAL FIN & BRACKET ASSY', 'LOCAL TASS FOR ANTI LIFT FIXING', and '967.7 TO GRID'. A circular callout '1' is present. The drawing is oriented vertically on the page.

FILE ..		SECTIONS		Project		Drawing No	
Rev	Date	Notes		Drawn By	Date	Scale	Rev
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		Notes		GREENFELL TOWER GREENFELL RD, LONDON, W11 1TQ		HARLEY HOUSE BROOKLANDS PARK UXTON ROAD UXTON, BUCKINGHAMSHIRE MK18 2JD	

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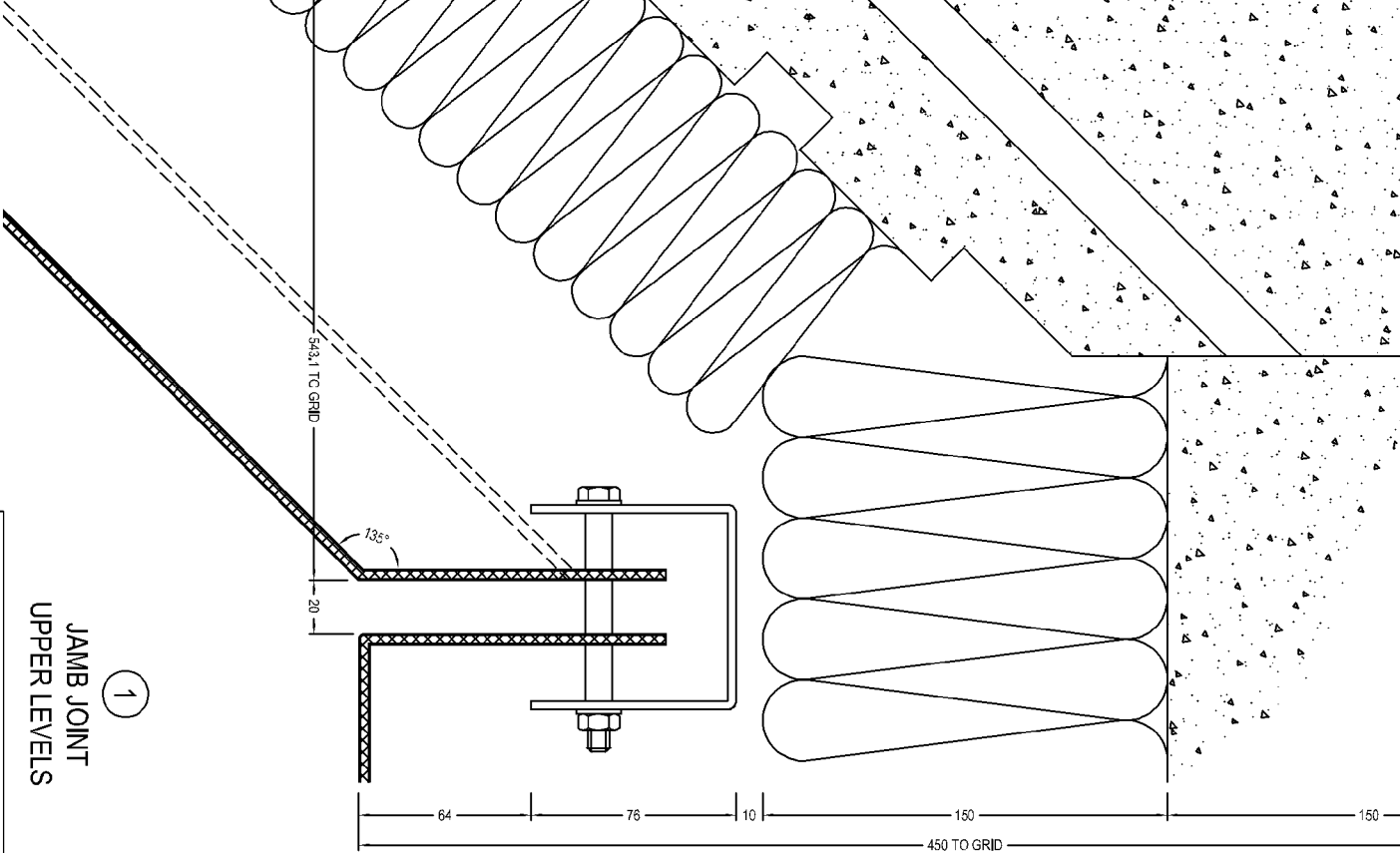
EXO00001640/11



2

TYPICAL JOINT  
UPPER LEVELS

ISSUED FOR  
APPROVAL



1

JAMB JOINT  
UPPER LEVELS

FILE ..		
REV	DATE	NOTES
-	-	-
-	-	-
-	-	-

SECTIONS

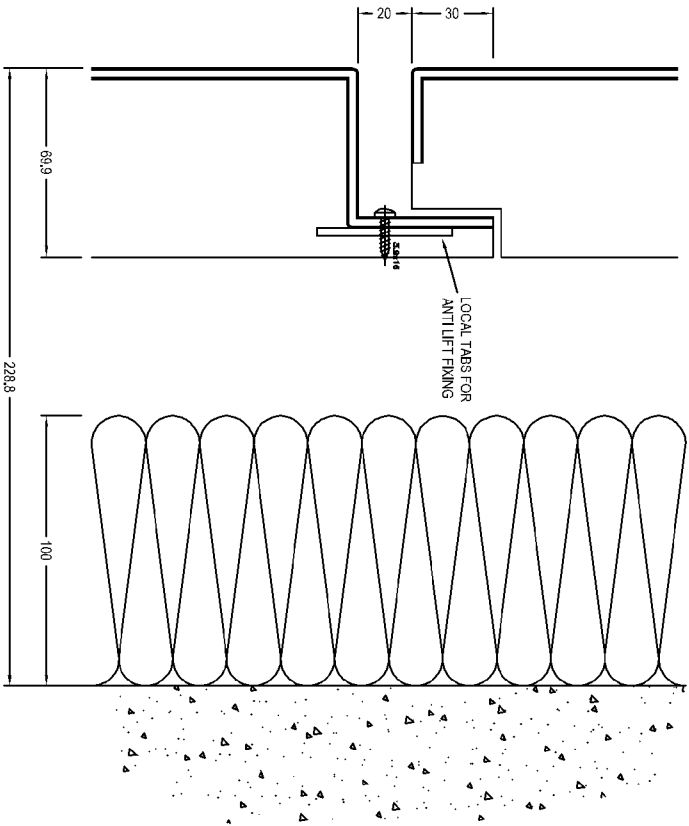
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GREENFELL TOWER	PROJECT
GREENFELL RD, LONDON, W11 1TQ	PROJECT
FARMINGHAM ROAD	PROJECT
EAST SUSSEX	PROJECT
TK4.2.1D	PROJECT

Drawn By	bd	TK/L
Date:	20/08/14	Scale:
1:20@A3		

Drawn By	bd	TK/L
Date:	20/08/14	Scale:
1:20@A3		





COLUMN JOINT  
1

FILE ..

REV	DATE	NOTES
-	-	-
-	-	-
-	-	-

SECTIONS

Drawn By	bd	Date	20/08/14	Scale	1:200 A3
Project	GRENFELL TOWER GRENFELL RD, LONDON, W11 1TQ				



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APPROVAL

Drawn By	bd	Date	20/08/14	Scale	1:200 A3
Project	GRENFELL TOWER GRENFELL RD, LONDON, W11 1TQ				

Rev	-
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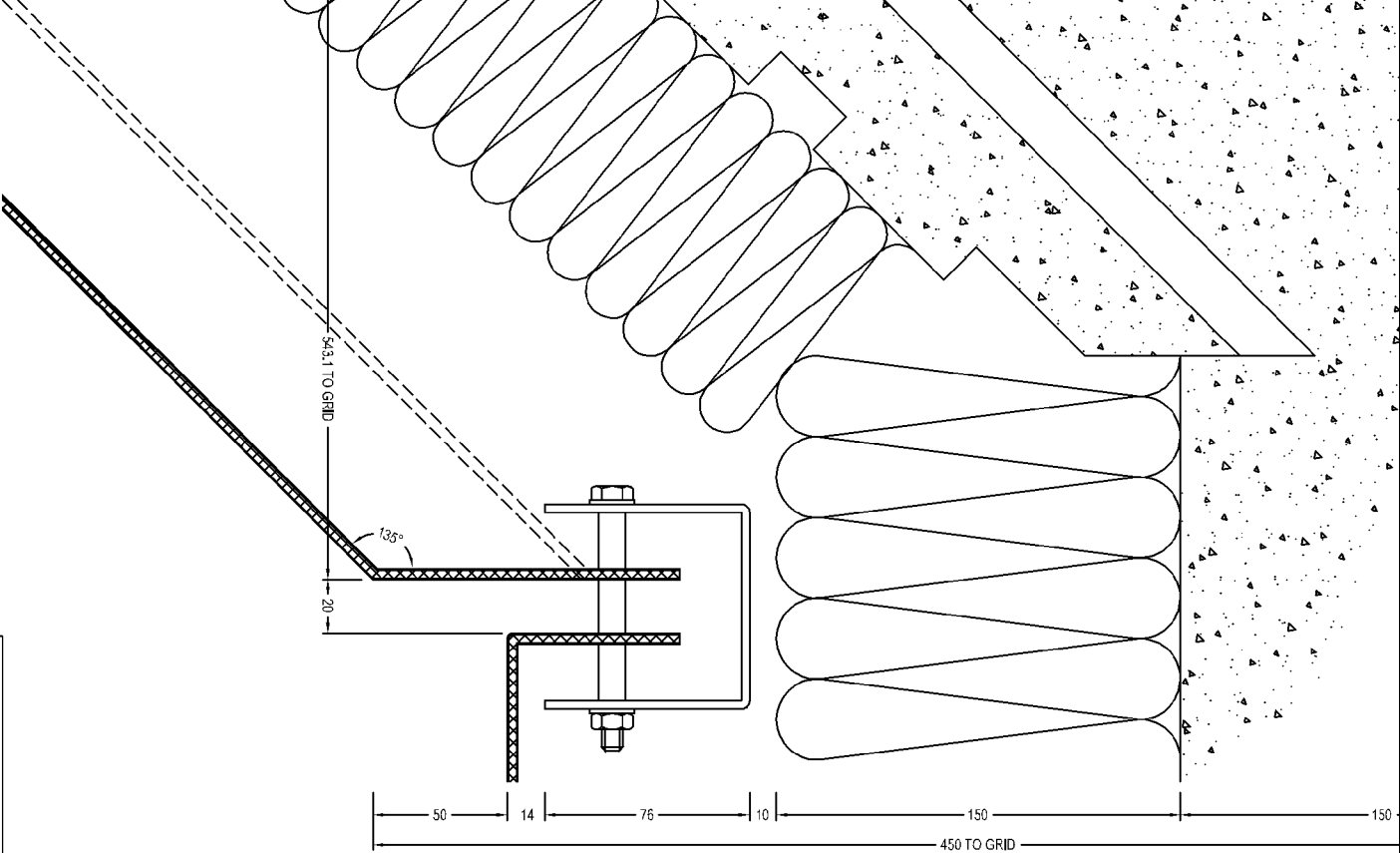
ISSUED FOR  
APPROVAL

Location:  <b>SECTIONS</b>	Project:  <b>GRENFELL TOWER GRENFELL RD. LONDON. W11 1TQ</b>			 <b>HARLEY HOUSE</b> BROOKLANDS PARK FARNINGHAM ROAD CROWBOROUGH EAST SUSSEX TN11 2JD Tel: [REDACTED]	Drawing No: <b>C1059-5K01</b> Rev:
	Drawn By: <b>bd KVL</b>	Date: <b>20.08.14</b>	Scale: <b>1:2@A3</b>		



ISSUED FOR APPROVAL

<div style="float: left; width: 20px; text-align: center; font-weight: bold;">FILE #</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 30%;"> </td><td style="width: 30%;"> </td><td style="width: 30%;"> </td><td style="width: 10%;"> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr> <td style="text-align: center;">Rev</td> <td style="text-align: center;">Date</td> <td style="text-align: center;">Notes</td> <td> </td> </tr> </table>																	Rev	Date	Notes		<div style="float: left; width: 20px; text-align: center; font-weight: bold;">Location</div> <div style="text-align: center; font-weight: bold; font-size: 1.2em;">SECTIONS</div>	<div style="float: left; width: 20px; text-align: center; font-weight: bold;">Project</div> <div style="text-align: center;"> <b>GRENFELL TOWER</b>  <b>GRENFELL RD. LONDON. W11 1TQ</b> </div>	<div style="float: left; width: 20px; text-align: center; font-weight: bold;">Drawing No</div> <div style="float: left; width: 20px; text-align: center; font-weight: bold;">Rev</div> <div style="clear: both;"></div> <div style="text-align: center;">   <b>HARLEY HOUSE</b>  <b>BROOKLANDS PARK</b>  <b>FARNHAM ROAD</b>  <b>CROWBOROUGH</b>  <b>EAST SUSSEX</b>  <b>TN11 2JH</b>  <b>Tel: 01892 550000</b> </div> <div style="text-align: center; margin-top: 10px;"> <b>C 1039-5K02</b> </div>
Rev	Date	Notes																					



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JAMB JOINT  
LOWER LEVELS

FILE ..

REV	DATE	NOTES
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-	-	-
-	-	-

SECTIONS

Drawn By	bd	Date	20/08/14	Scale	1:20@A3
Project	GRENFELL TOWER GRENFELL RD, LONDON, W11 1TQ				

Client	HARLEY HOUSE BROOKLANDS PARK FARMINGHAM ROAD EAST SUSSEX TN4 2JD
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Drawn By	C 1059-5/K03	Rev	-
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APPROVAL