

ELITE SYSTEMS

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TITLE: Elite System 5

DWG NO: E5

DRAWN: MP

CHECK: PCL

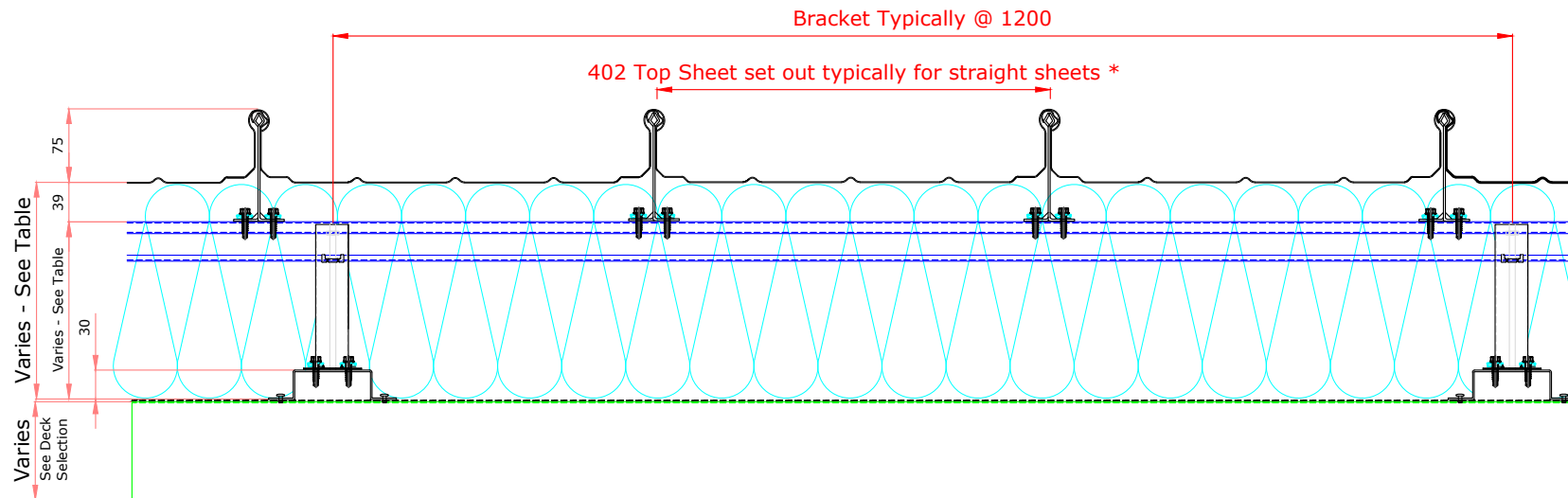
DATE: Feb 19

SCALE: NTS

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See drawing number FR16 for non-fragile fixing requirements

To be read in conjunction with Elite System specification documents



Elite System 5

Bracket Height	Halter Size	Cavity Depth	Insulation Thickness	Insulation Value	System Depth Excluding deck	U Value at 1.5M Centres	Nominal Weight/M ²	
							Kn 40	RW
100mm	110mm	169mm	200mm	0.040 λ	245mm	0.25	8Kg/m ²	11Kg/m ²
120mm	110mm	189mm	220mm	0.040 λ	265mm	0.22	8.3Kg/m ²	11.6Kg/m ²
140mm	110mm	209mm	240mm	0.040 λ	285mm	0.20	8.54Kg/m ²	12.14Kg/m ²
160mm	110mm	229mm	250 / 260mm	0.040 λ	305mm	0.19	8.80Kg/m ²	12.43Kg/m ²
180mm	110mm	249mm	280mm	0.040 λ	325mm	0.17	9.06Kg/m ²	13.26Kg/m ²
200mm	110mm	269mm	300mm	0.040 λ	345mm	0.16	9.32Kg/m ²	13.82Kg/m ²
220mm	110mm	289mm	320mm	0.040 λ	365mm	0.15	9.58Kg/m ²	14.38Kg/m ²

Weight not including deck

*Some adjustment of the halter setout for sheets may be required

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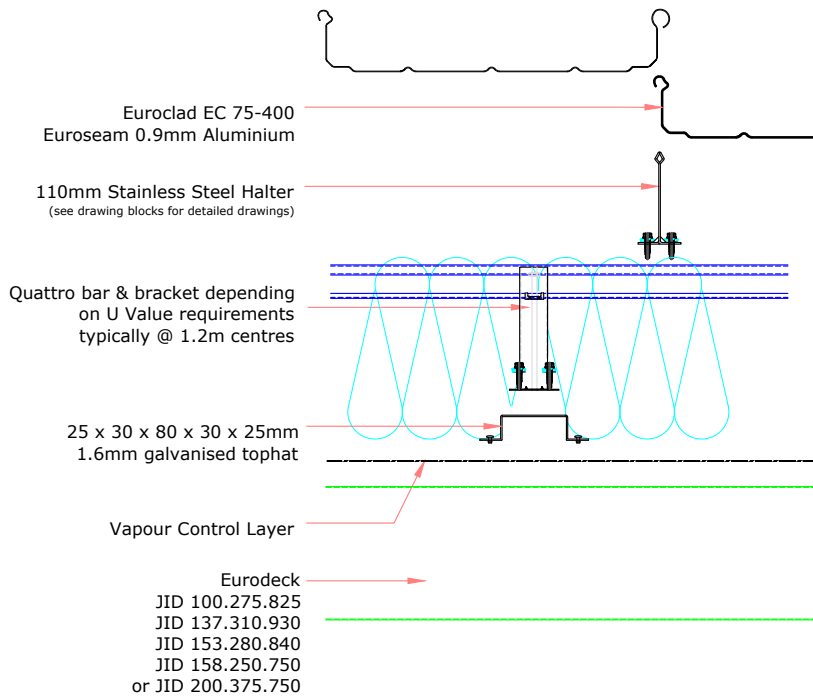
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See drawing number FR16 for non-fragile fixing requirements

To be read in conjunction with Elite System specification documents

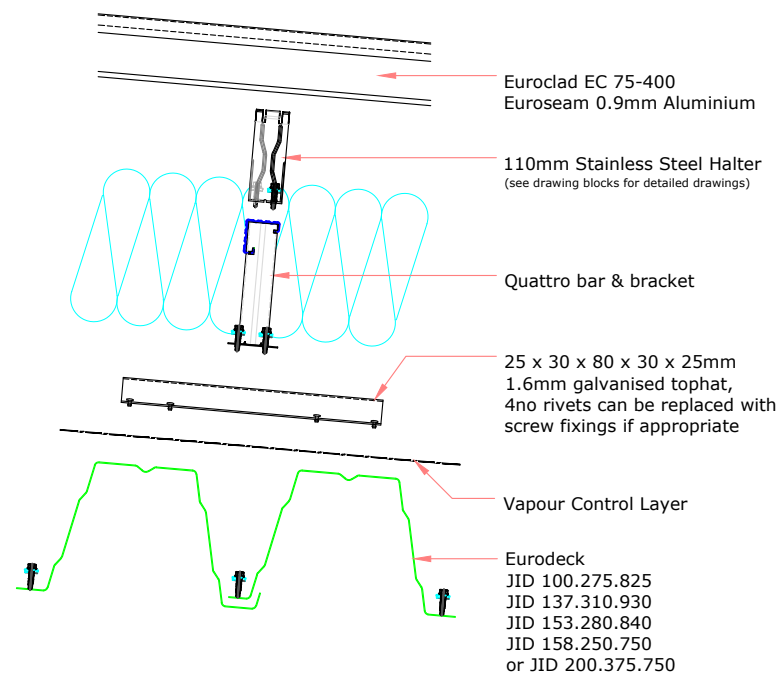
ELITE SYSTEM 5 SIDE LAP DETAIL



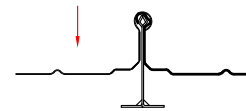
Tophat fixings

Rivets are recommended for gauges $\geq 0.7\text{mm} - 1.25\text{mm}$
Self drilling screws recommended for gauges $\geq 1.25\text{mm}$
Screw fixings specified for tophats can be replaced
with rivets if required for aesthetics.
Rivets for illustration only.

ELITE SYSTEM 5 END DETAIL



COLOUR SIDE (IF APPLICABLE)



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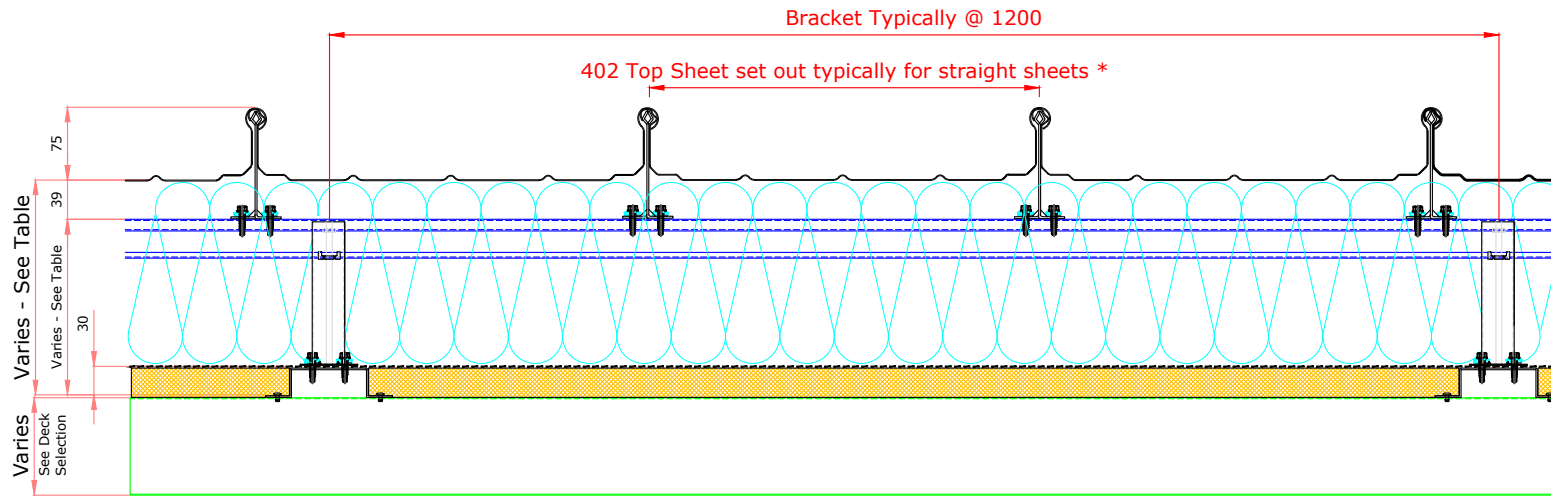
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To be read in conjunction with Elite System specification documents



Elite System 5A1

Bracket Height	Halter Size	Cavity Depth	Insulation Thickness	Insulation Value	System Depth Excluding deck	U Value at 1.5M Centres	Nominal Weight/M ²	
							Kn 40	RW
100mm	110mm	169mm	150/160 + 30mm	0.040 & 0.034 λ	245mm	0.25	9.33Kg/m ²	11.46Kg/m ²
120mm	110mm	189mm	180 + 30mm	0.040 & 0.034 λ	265mm	0.22	9.60Kg/m ²	12.30Kg/m ²
140mm	110mm	209mm	200 + 30mm	0.040 & 0.034 λ	285mm	0.20	9.86Kg/m ²	12.86Kg/m ²
160mm	110mm	229mm	220 + 30mm	0.040 & 0.034 λ	305mm	0.19	10.12Kg/m ²	13.42Kg/m ²
180mm	110mm	249mm	240 + 30mm	0.040 & 0.034 λ	325mm	0.17	10.38Kg/m ²	13.98Kg/m ²
200mm	110mm	269mm	260/270 + 30mm	0.040 & 0.034 λ	345mm	0.16	10.64Kg/m ²	14.81Kg/m ²
220mm	110mm	289mm	280 + 30mm	0.040 & 0.034 λ	365mm	0.15	10.90Kg/m ²	15.10Kg/m ²

Weight not including deck

*Some adjustment of the halter setout for sheets may be required

The Elite A1 systems onto structural deck achieve a **Class D** sound absorption performance.

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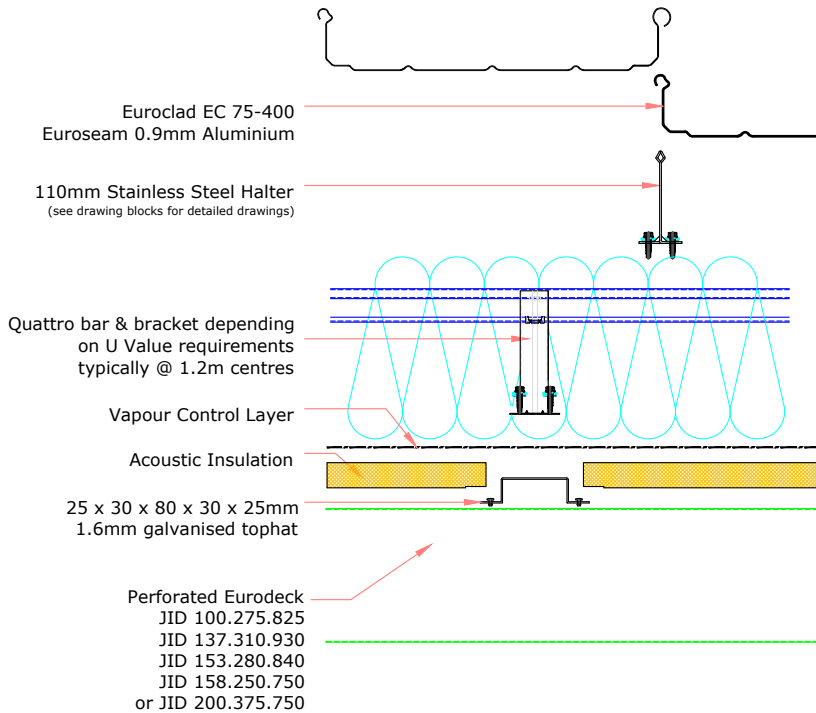
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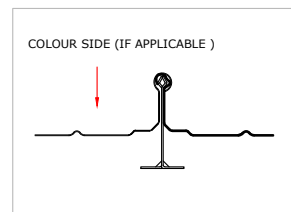
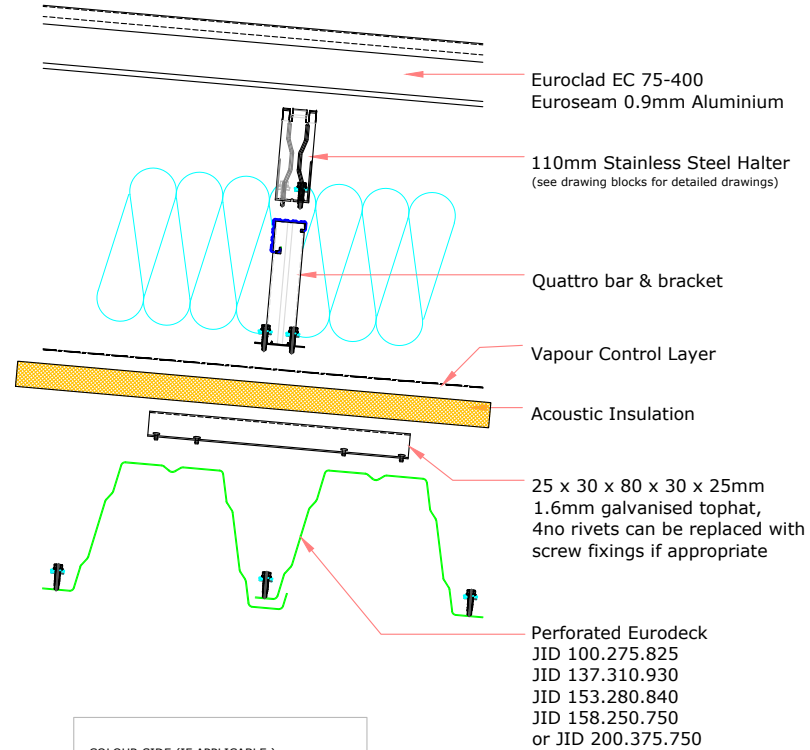
See drawing number FR16 for non-fragile fixing requirements

To be read in conjunction with Elite System specification documents

ELITE SYSTEM 5A1 SIDE LAP DETAIL



ELITE SYSTEM 5A1 END DETAIL



Tophat fixings
Rivets are recommended for gauges $\geq 0.7\text{mm} - 1.25\text{mm}$
Self drilling screws recommended for gauges $\geq 1.25\text{mm}$
Screw fixings specified for tophats can be replaced with rivets if required for aesthetics.
Rivets for illustration only.

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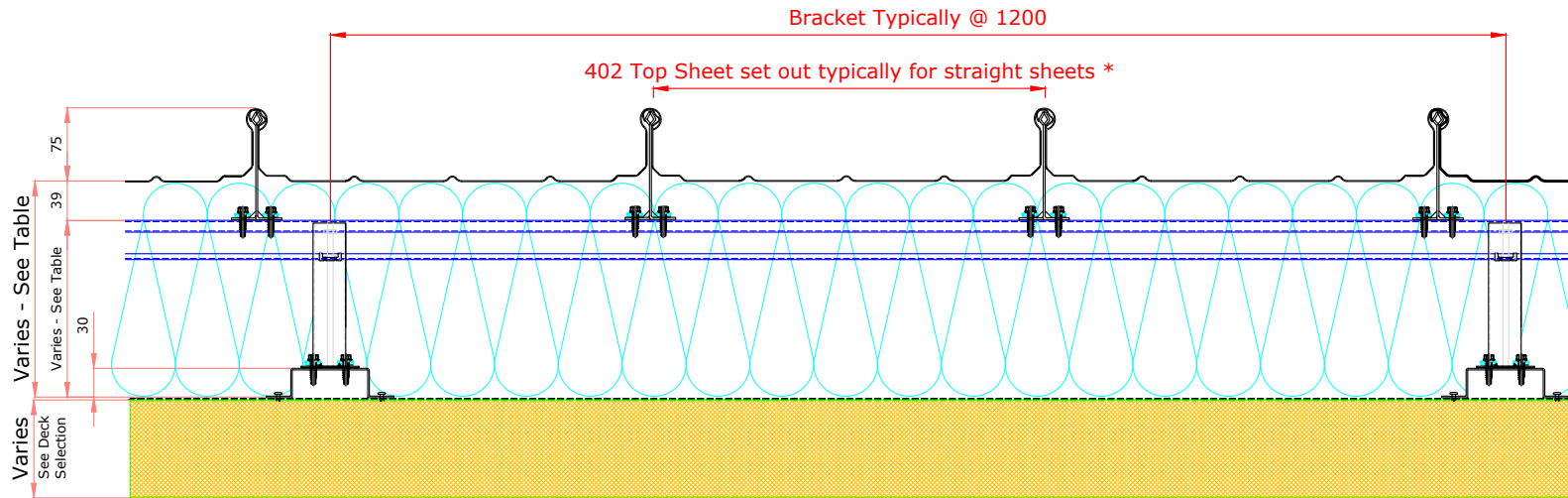
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See drawing number FR16 for non-fragile fixing requirements

To be read in conjunction with Elite System specification documents



Elite System 5A2

Bracket Height	Halter Size	Cavity Depth	Insulation Thickness	Insulation Value	System Depth Excluding deck	U Value at 1.5M Centres	Nominal Weight/M ²	
							Kn 40	RW
100mm	110mm	169mm	200mm	0.040 λ	245mm	0.25	14.27kg/m ²	17.57kg/m ²
120mm	110mm	189mm	220mm	0.040 λ	265mm	0.22	14.50kg/m ²	18.13kg/m ²
140mm	110mm	209mm	240mm	0.040 λ	285mm	0.20	14.72kg/m ²	18.68kg/m ²
160mm	110mm	229mm	250 / 260mm	0.040 λ	305mm	0.19	14.94kg/m ²	19.23kg/m ²
180mm	110mm	249mm	280mm	0.040 λ	325mm	0.17	15.16kg/m ²	19.78kg/m ²
200mm	110mm	269mm	300mm	0.040 λ	345mm	0.16	15.38kg/m ²	20.33kg/m ²
220mm	110mm	289mm	320mm	0.040 λ	365mm	0.15	15.60kg/m ²	20.88kg/m ²

Weight not including deck

*Some adjustment of the halter setout for sheets may be required

The Elite A2 systems onto structural deck achieve a **Class C** sound absorption performance.

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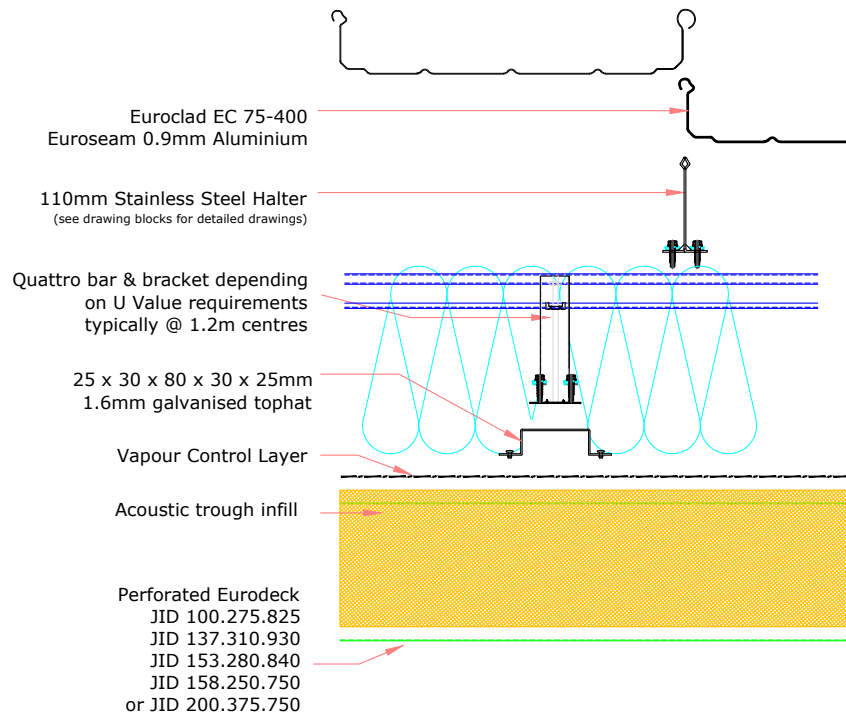
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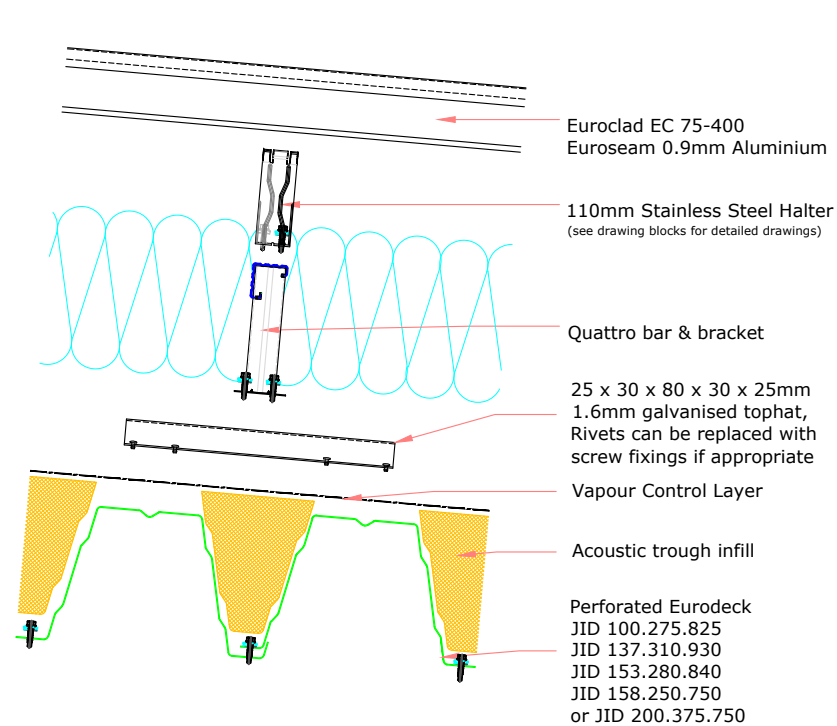
See drawing number FR16 for non-fragile fixing requirements

To be read in conjunction with Elite System specification documents

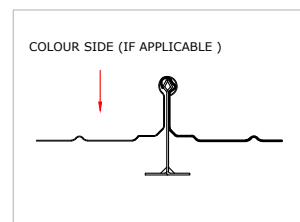
ELITE SYSTEM 5A2 SIDE LAP DETAIL



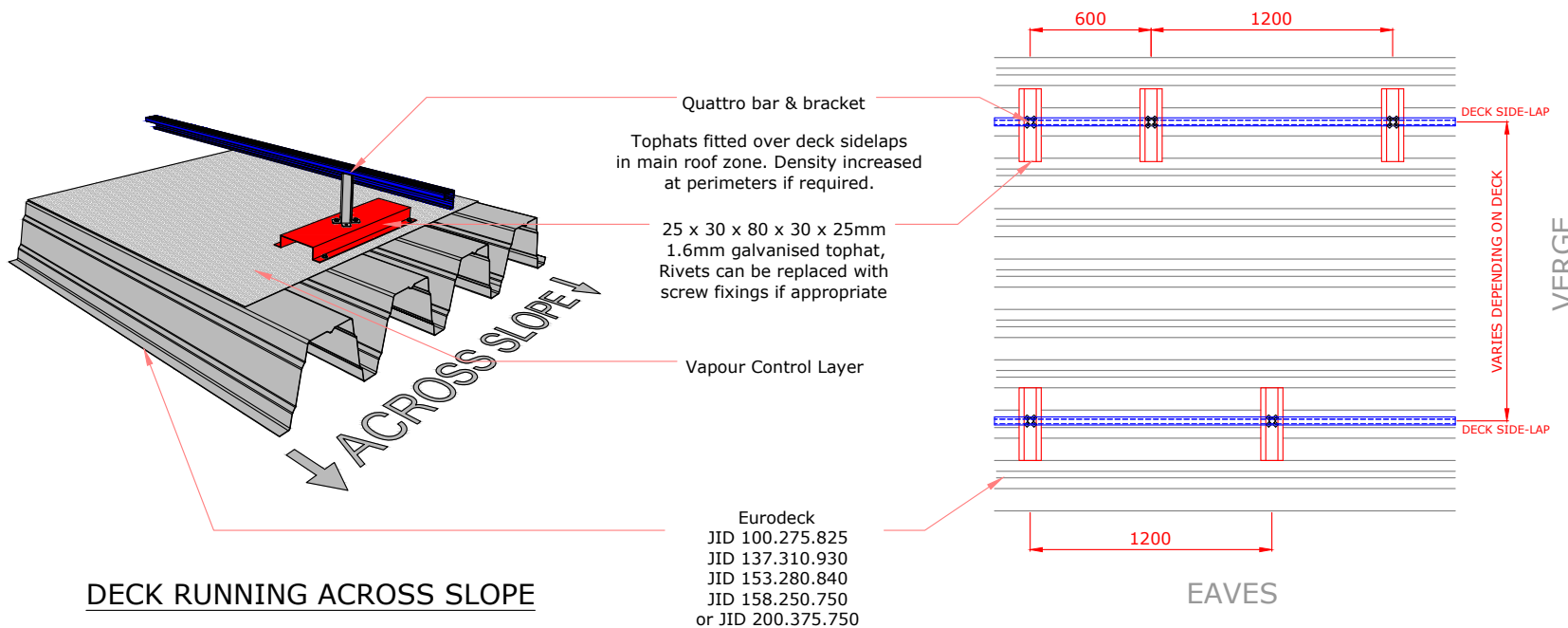
ELITE SYSTEM 5A2 END DETAIL



Tophat fixings
Rivets are recommended for gauges $\geq 0.7\text{mm} - 1.25\text{mm}$
Self drilling screws recommended for gauges $\geq 1.25\text{mm}$
Screw fixings specified for tophats can be replaced with rivets if required for aesthetics.
Rivets for illustration only.



The distributed load from the external sheet is transferred through the spacer system and tophats to the deck. The tophats as illustrated allow the load to be distributed to each and every deck sheet, avoiding any 1 sheet taking all of the load. It also allows spacer rails to be fitted to the deck in straight rows (rather than diagonal). The use of tophats c400mm long allows for ease of installation on curved roofs. In most cases the maximum spacing achieved will not cause any issues for the external sheet load/span capacity. However, some deck sheets with larger widths will result in centres which may become problematic for the external sheet span ie 1120 wide deck giving centres of 2.240M. In such cases other deck profiles should be considered or the use of longer tophats to allow closer centres for the spacer rails to be achieved. In all cases the external sheet load should be distributed to all deck sheets.



Tophat and Rail centres Upslope determined by loadings and deck cover-width. Typically fixed on each deck sheet for approx 2M from eaves & ridge line and then straddling the deck sidelap in main roof zones at 2 x deck coverwidth. Tophat/Bracket centres along rail determined by loading but typically at 1.2M

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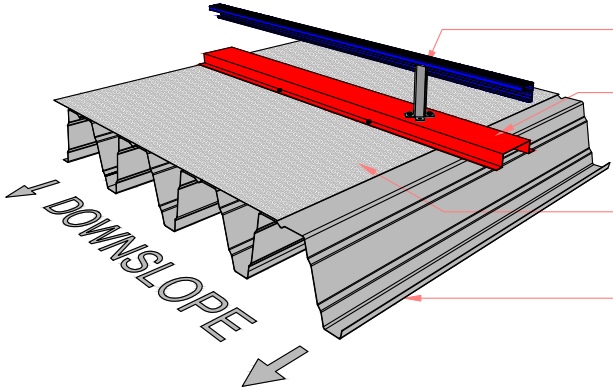
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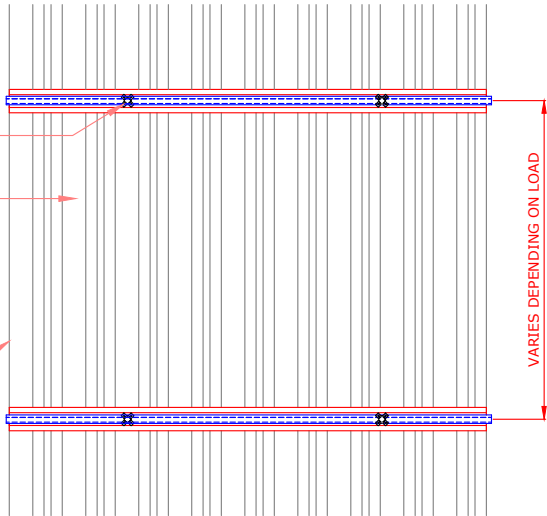
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- Quattro bar & bracket
- 25 x 30 x 80 x 30 x 25mm
1.6mm galvanised tophat,
Rivets can be replaced with
screw fixings if appropriate
- Vapour Control Layer
- Eurodeck
JID 100.275.825
JID 137.310.930
JID 153.280.840
JID 158.250.750
or JID 200.375.750



1200

EAVES

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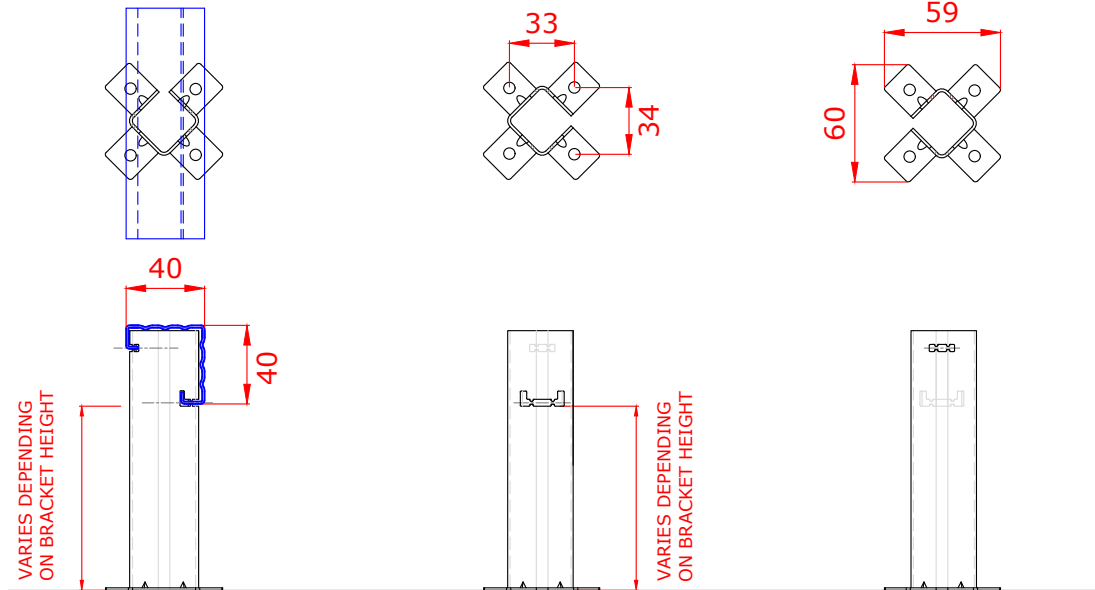
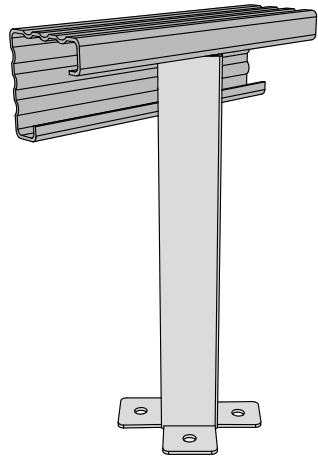
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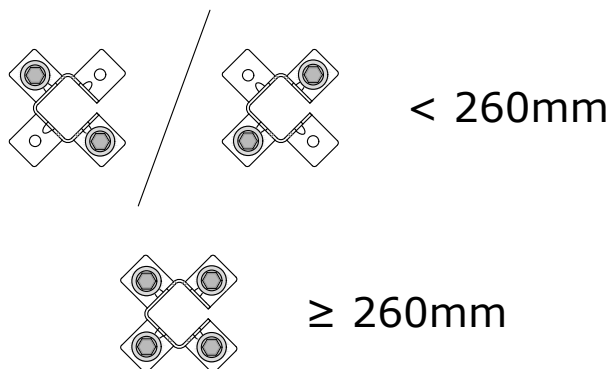
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Brackets less than 260mm require 2 fixings diagonally opposite.
Brackets 260mm or more require 4 fixings.



Maximum bar cantilever at free ends is 300mm.
Spigot can fall anywhere between two brackets.

