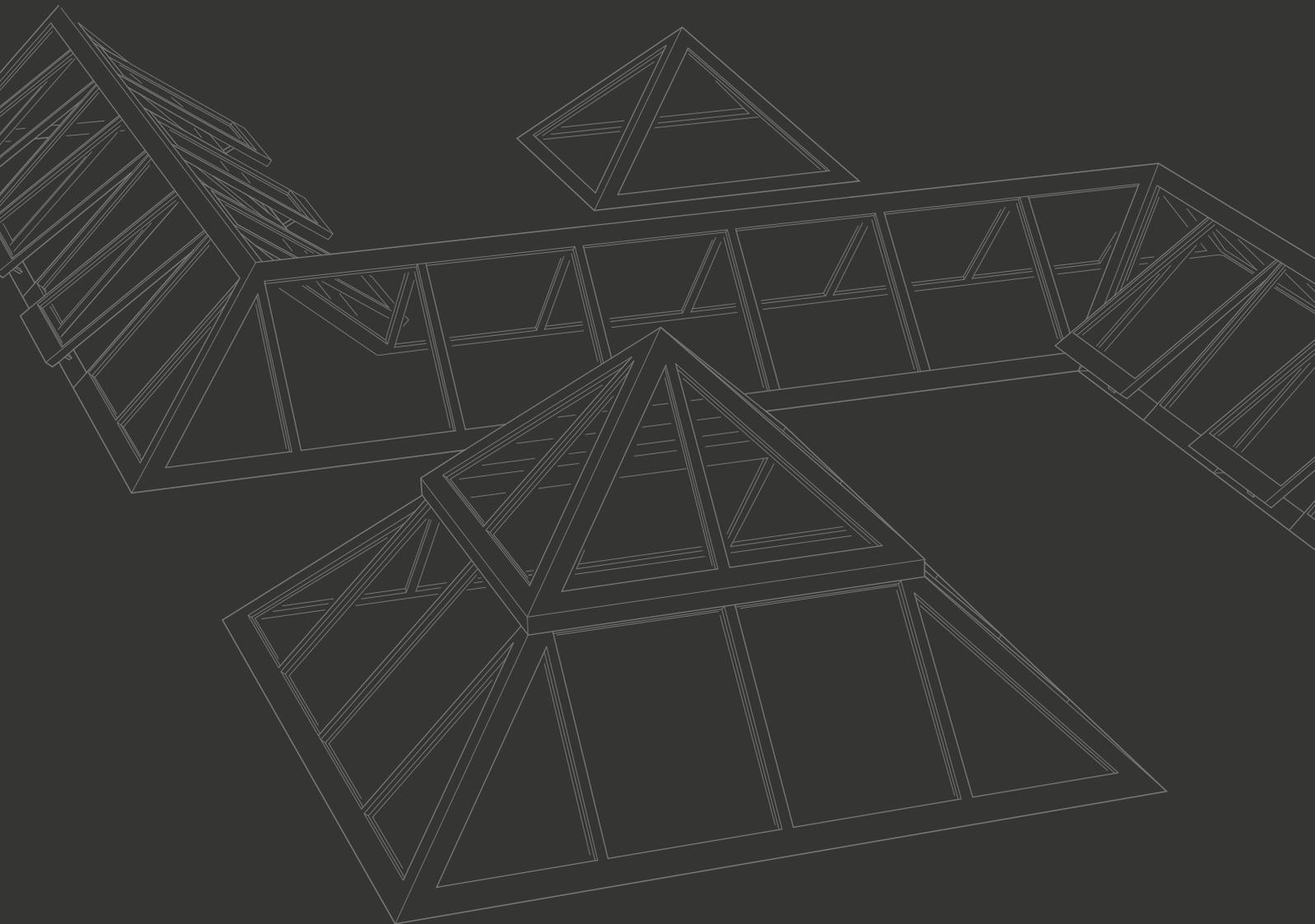


VELUX®

Commercial

Sub-construction for VELUX Glazing Panels



Index

Before you start	2
Section drawings overview	3
Section drawings:	4
11-01 Cill, Vertical	4
11-06 Cill, Tile	5
11-09 Cill, Slate	6
11-10 Cill, Slate low	7
21-03 Step, Purlin Steel	8
21-04 Step, Purlin Wood	9
31-01 Head, Mono pitch	10
31-05 Head, Tile	11
31-06 Head, Slate	12
42-04 Ridge	13
71-01 Gable, Solid	14
71-02 End junction	15
71-03 Gable, Tile	16
71-04 Gable, Slate	17
81-01 Gable Cill	18
Static information for dimensioning	19

Before you start

Before you can build a durable and secure sub-construction to provide the supporting base of the VELUX Glazing Panels, you will need the following two specification documents at hand and follow them closely:



Sub-construction quality assurance: project specific drawings.
This document must be obtained through your local VELUX Commercial sales office.



The Sub-construction document for VELUX Glazing Panels.
You are browsing the document right now.

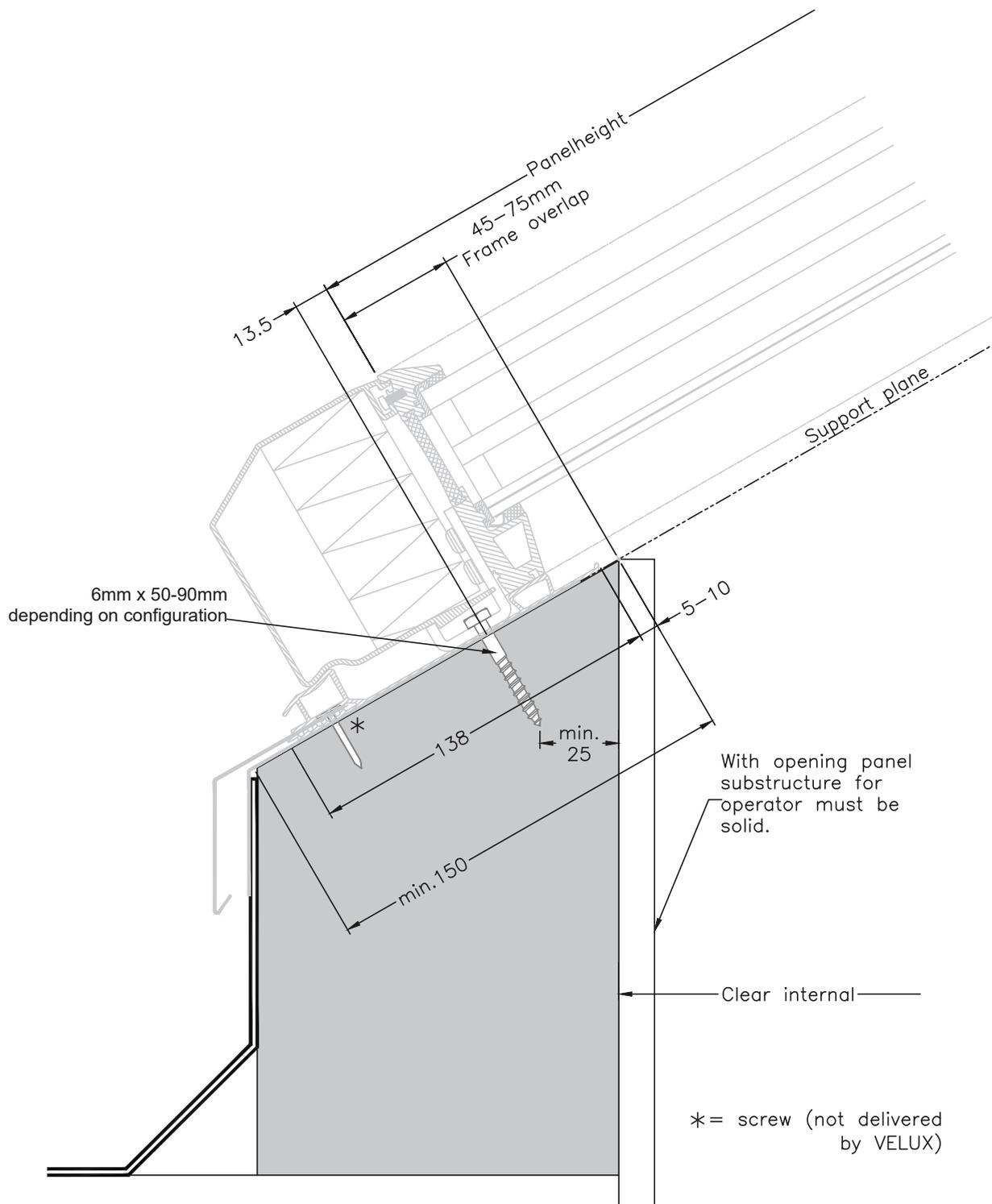
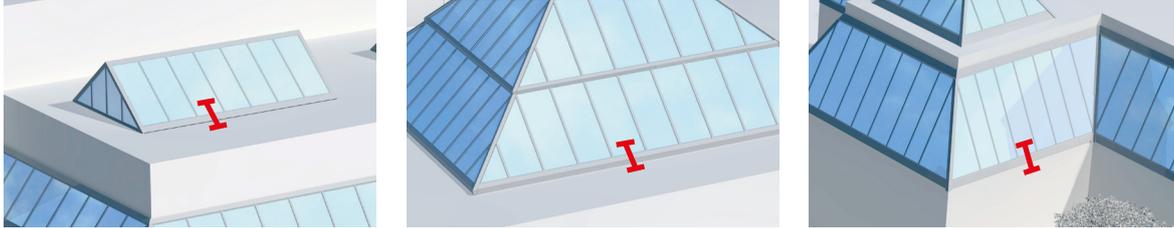
Section drawings overview



1 Mono pitched	A Cill, Vertical	11-01	page 4	J Ridge	42.04	page 13
2 Dual pitched	B Cill, Tile	11-06	page 5	K Gable, Solid	71.01	page 14
3 Vertical glass gable	C Cill, Slate	11.09	page 6	L End junction	71.02	page 15
4 Step	D Cill, Slate low	11.10	page 7	M Gable, Tile	71.03	page 16
5 Pyramids	E Step, Purlin Steel	21.03	page 8	N Gable, Slate	71.04	page 17
6 Wall-mounted	F Step, Purlin Wood	21.04	page 9	O Gable Cill	81.01	page 18
	G Head, Wall-mounted	31-01	page 10			
	H Head, Tile	31-05	page 11			
	I Head, Slate	31-06	page 12			

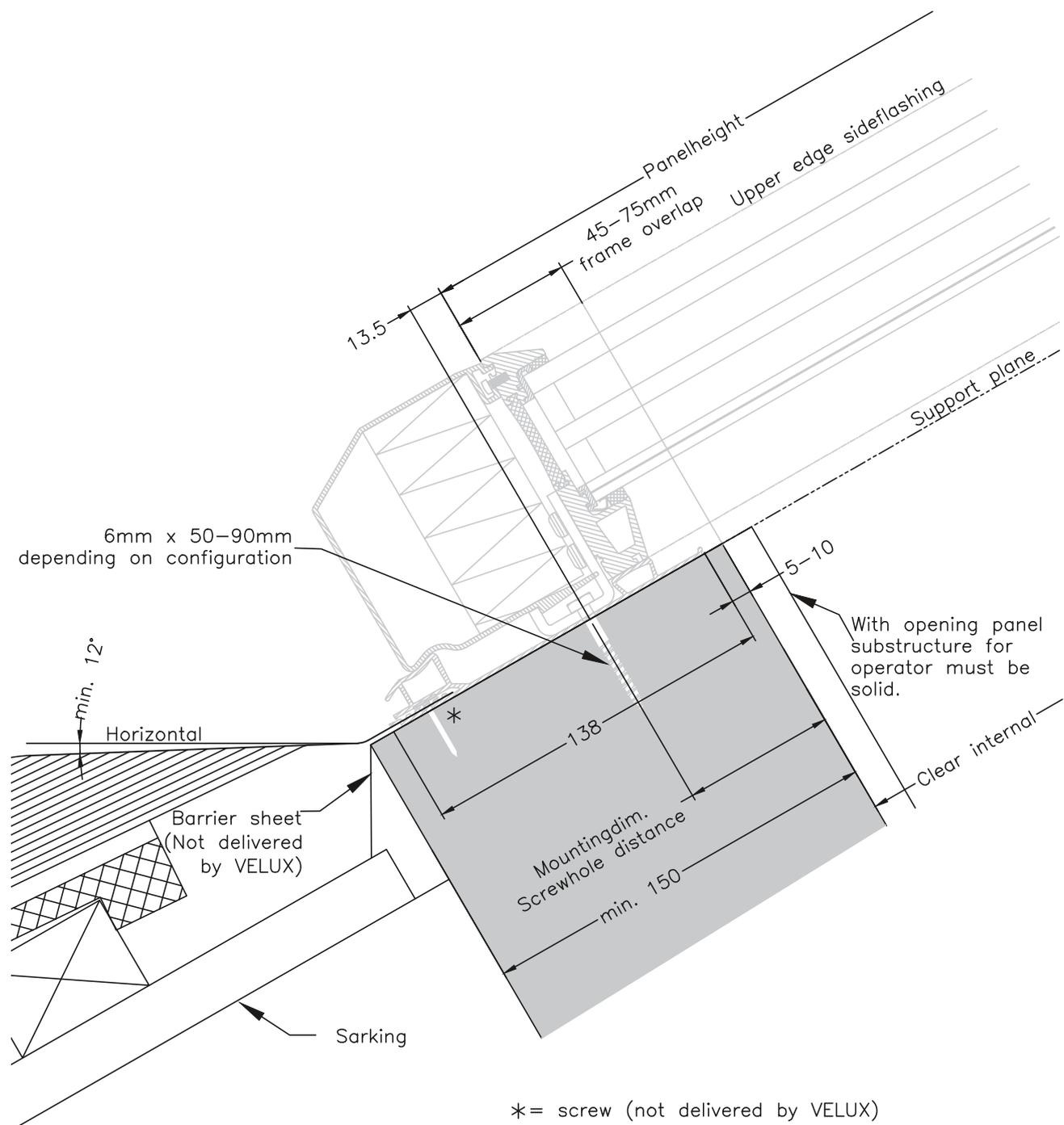
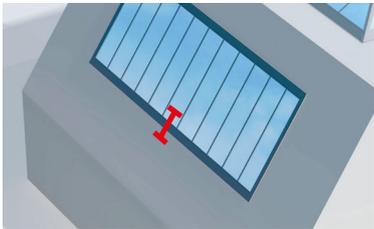
Sectional drawing – Cill, Vertical

11-01



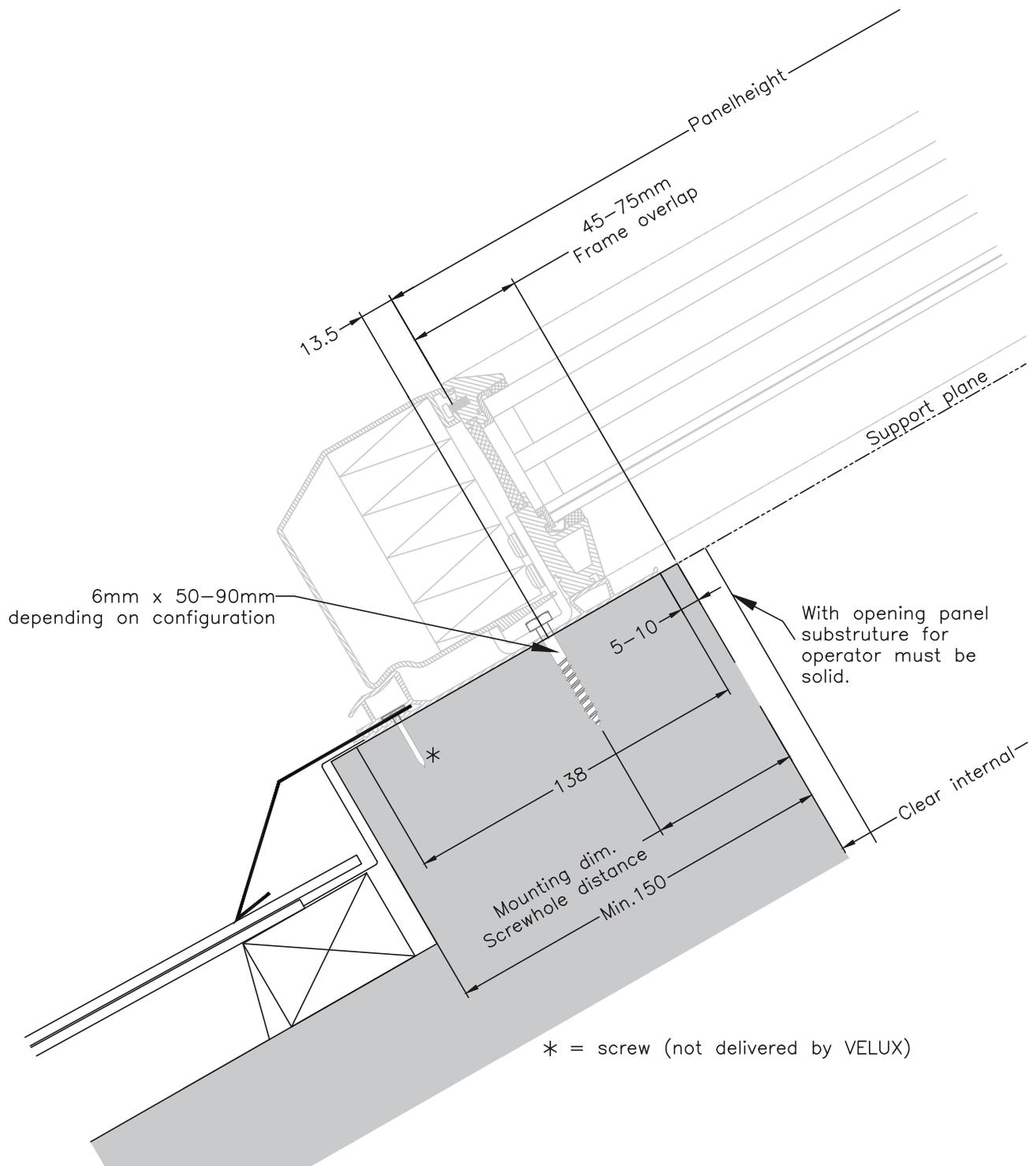
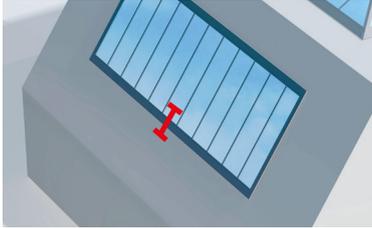
Sectional drawing – Cill, Tile

11-06



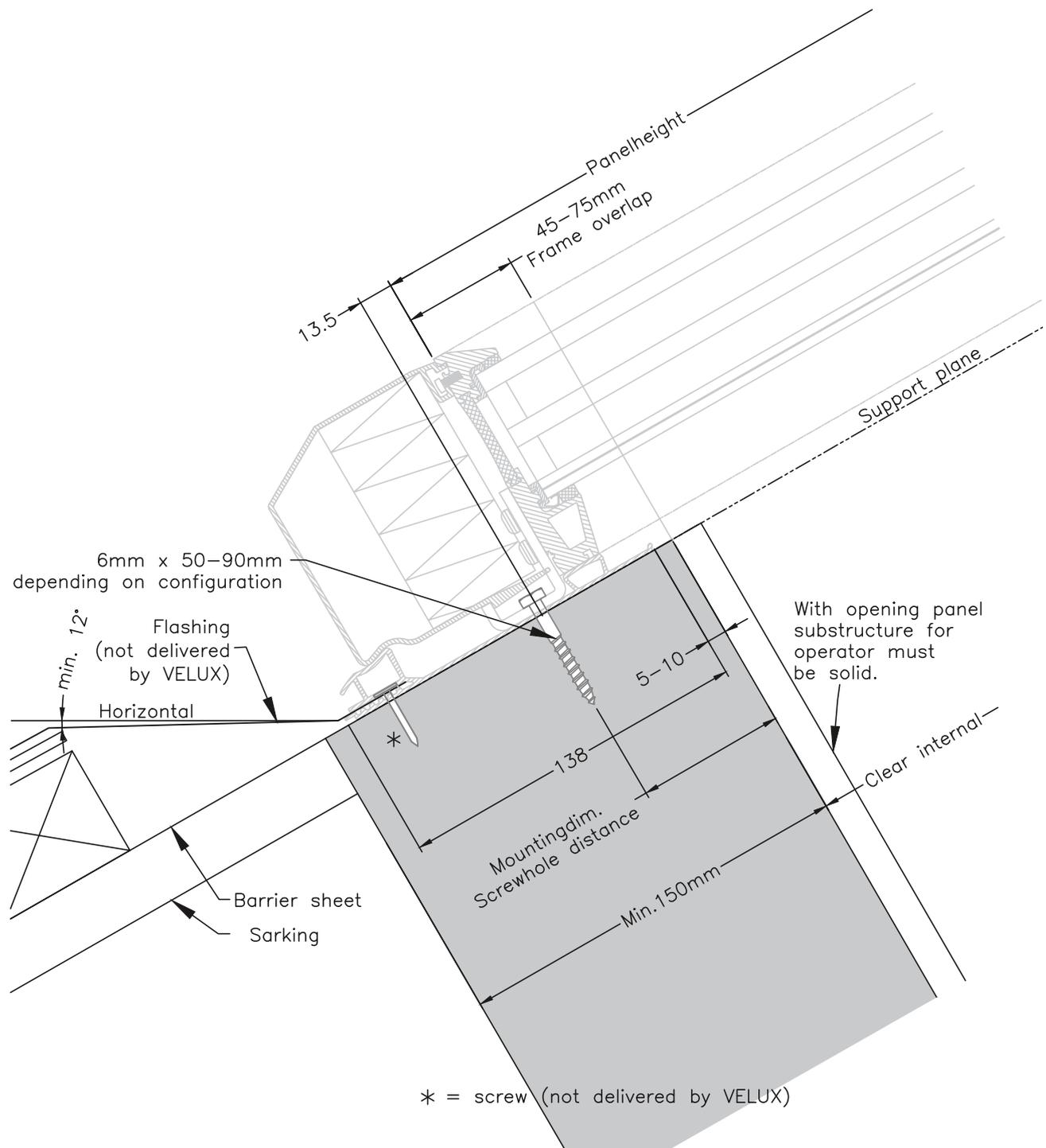
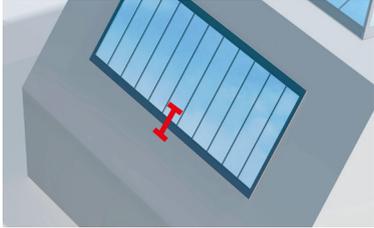
Sectional drawing – Cill, Slate

11-09



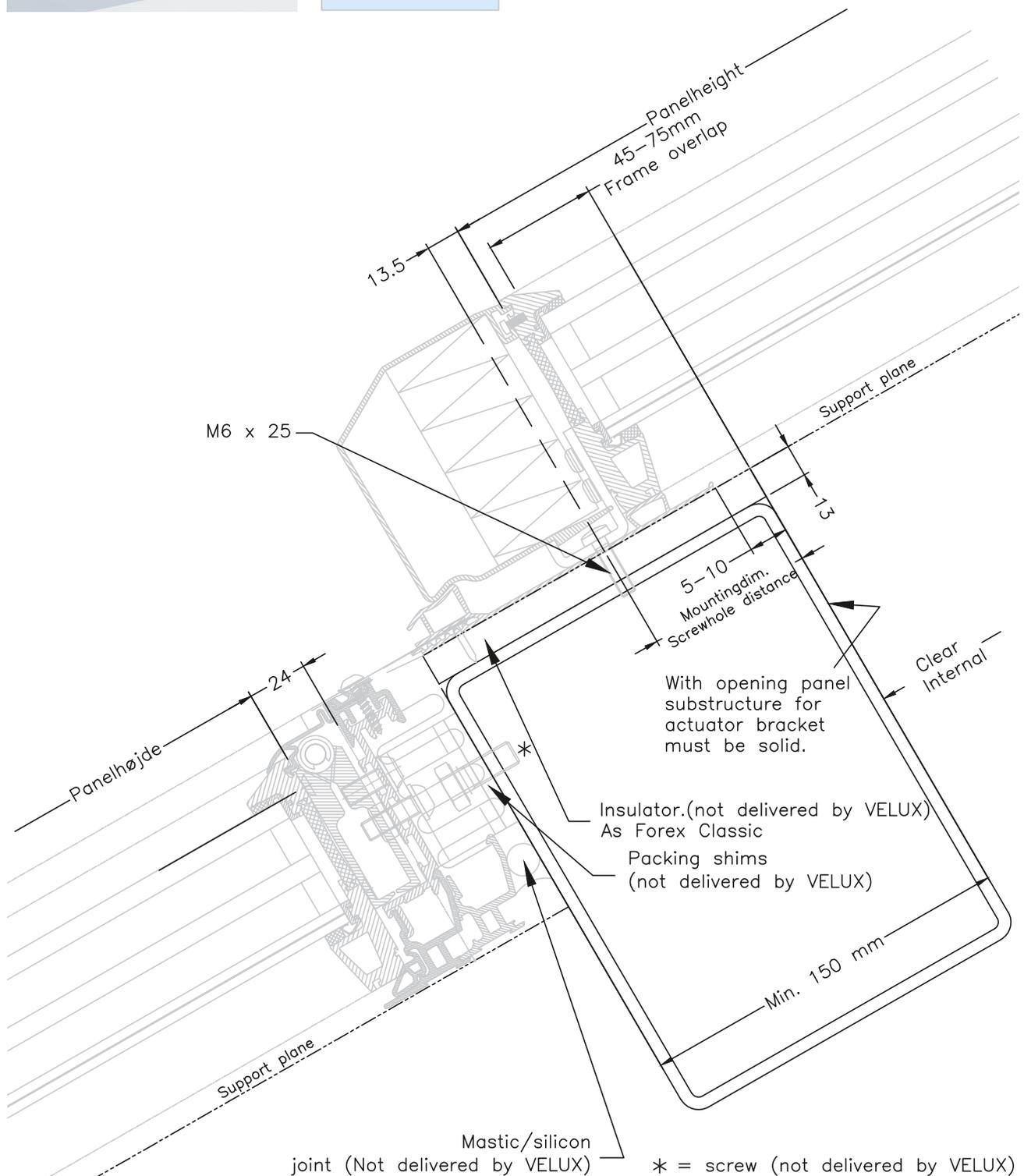
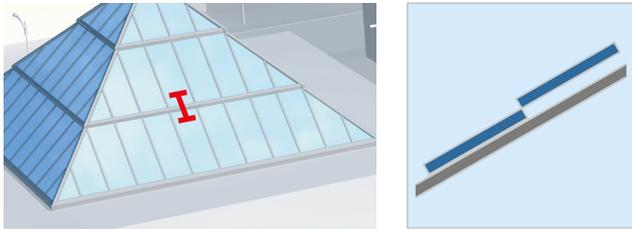
Sectional drawing – Cill, Slate low

11-10



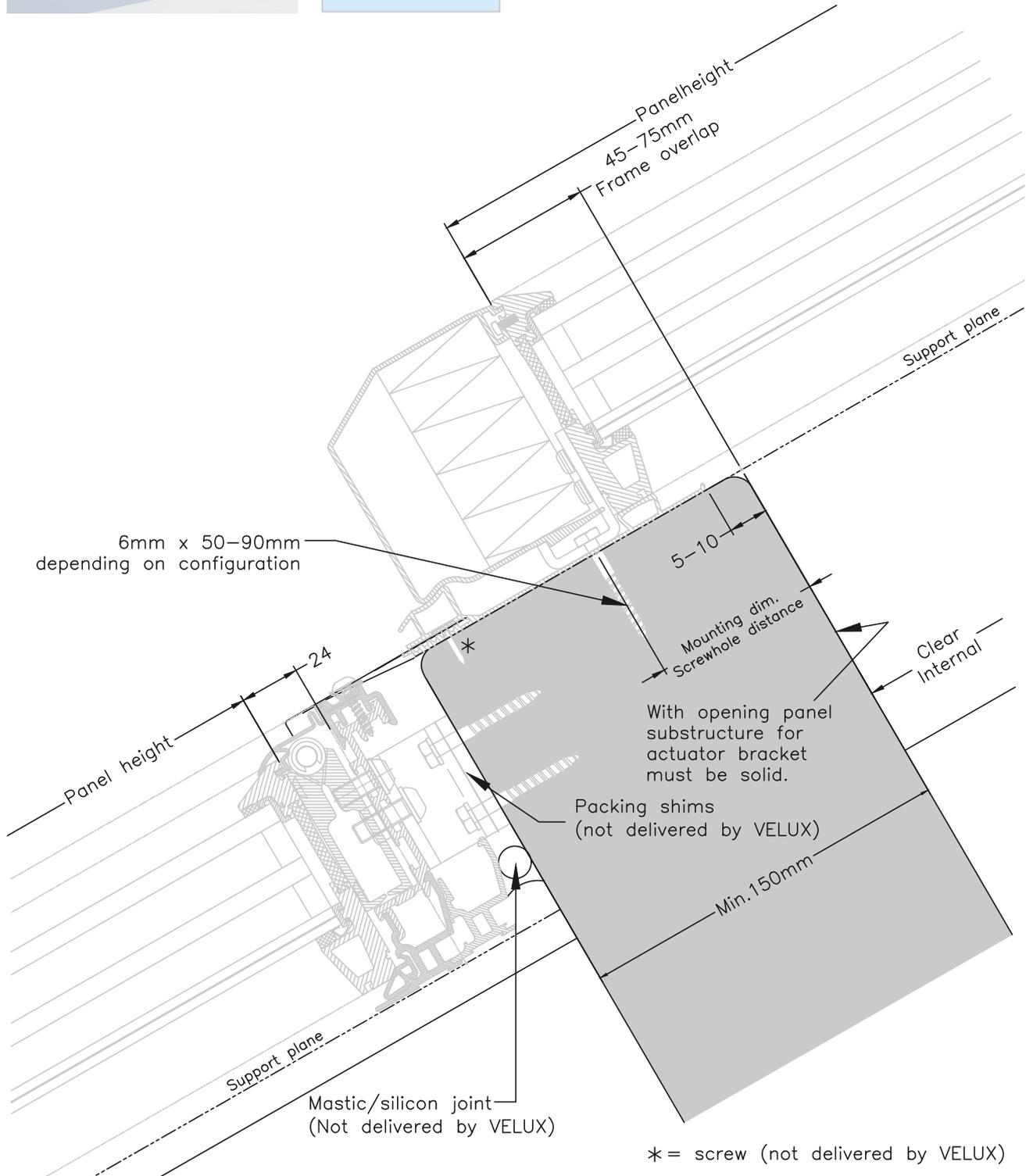
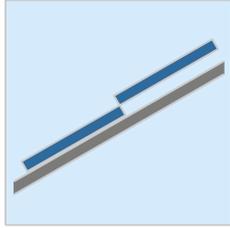
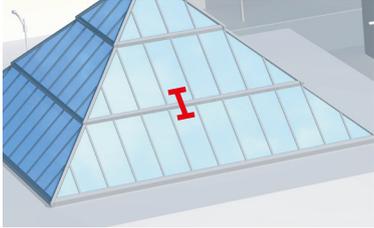
Sectional drawing – Step, Purlin Steel

21-03



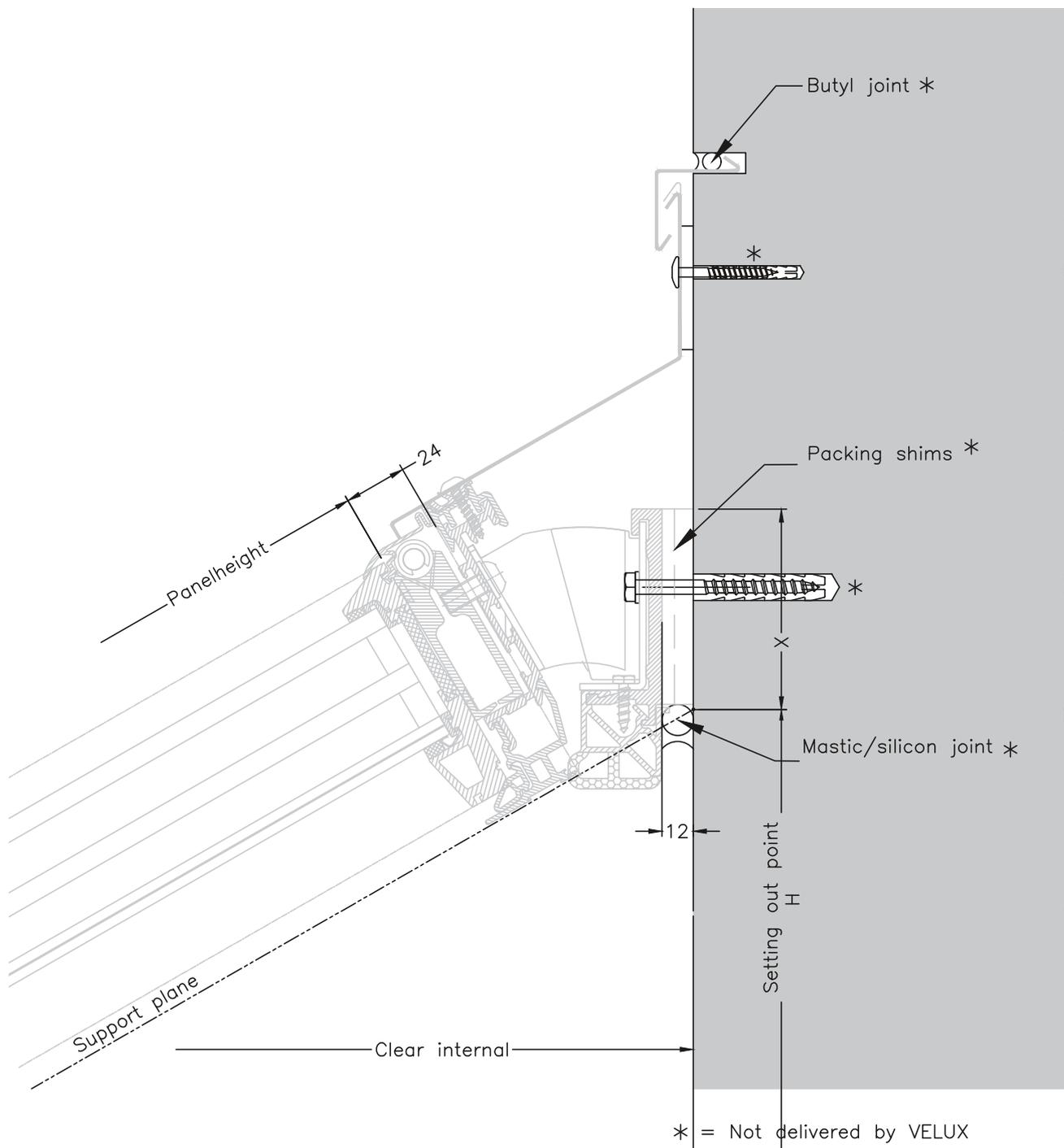
Sectional drawing – Step, Purlin Wood

21-04



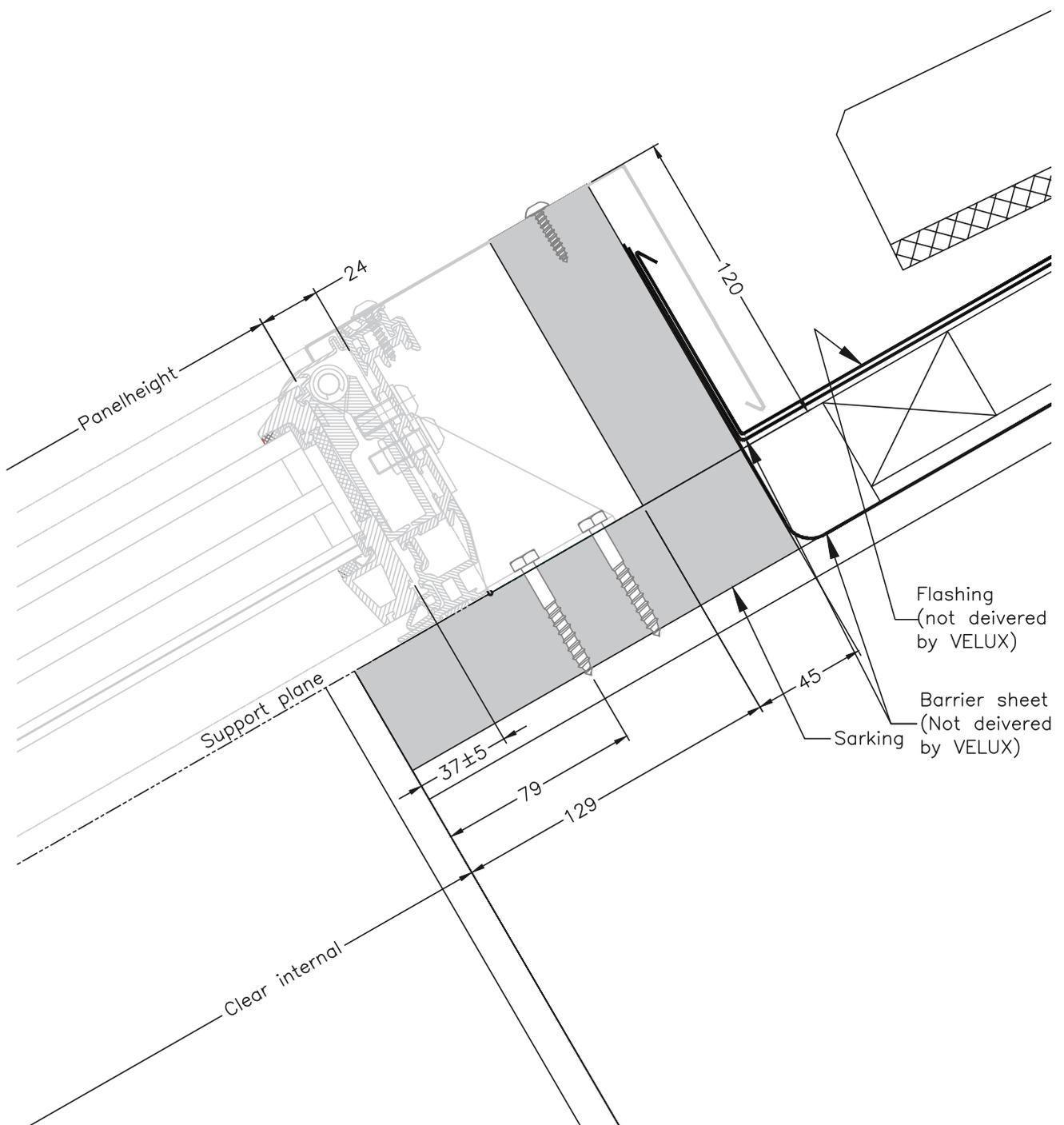
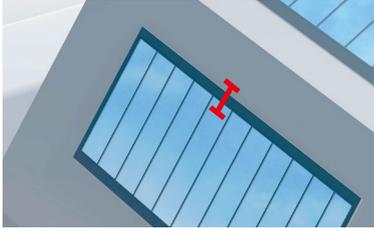
Sectional drawing – Head, Mono pitch

31-01



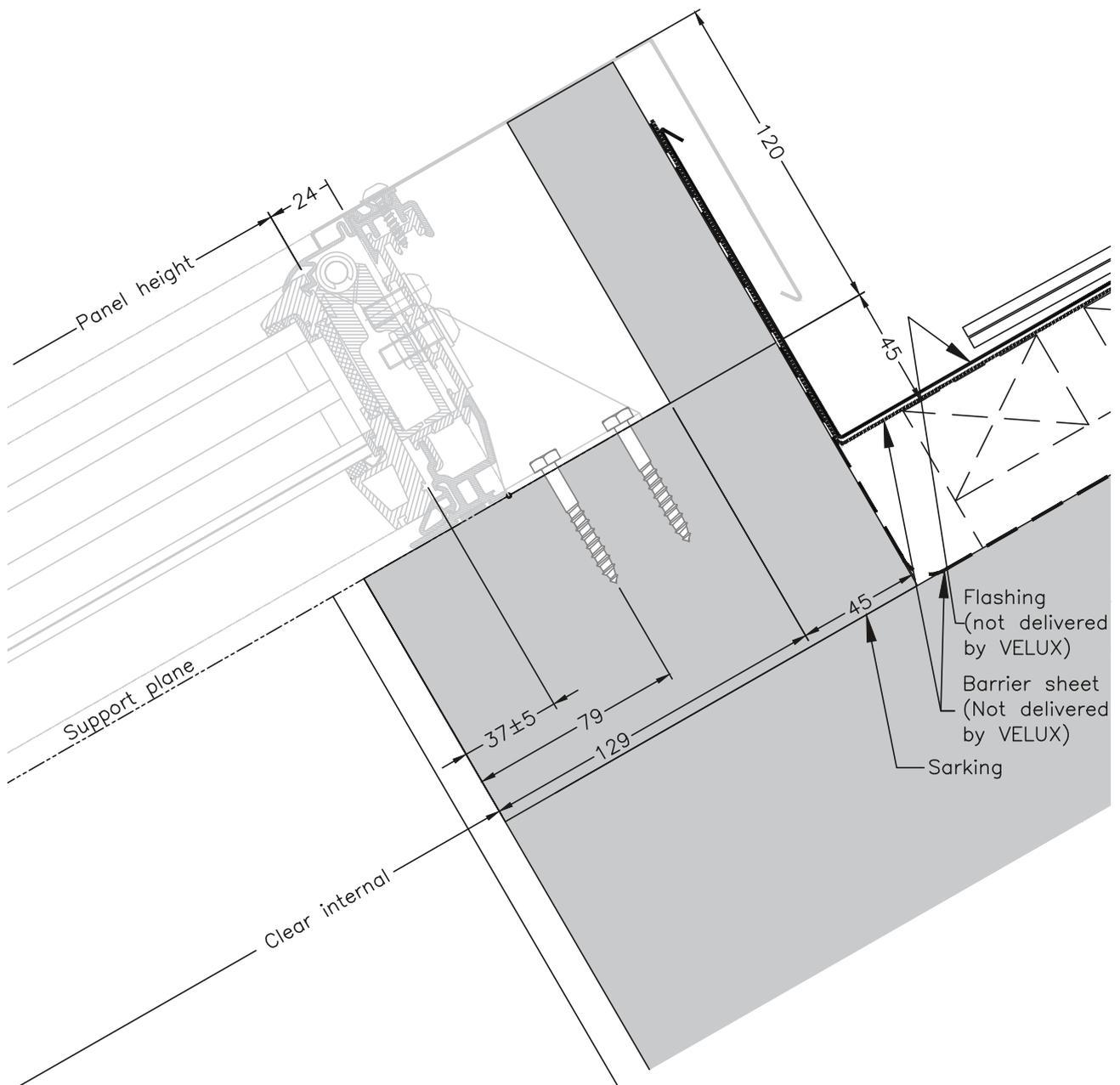
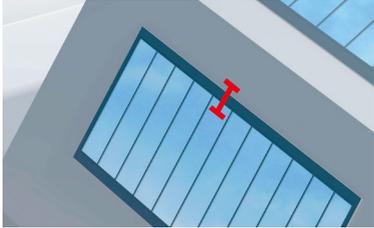
Sectional drawing – Head, Tile

31-05



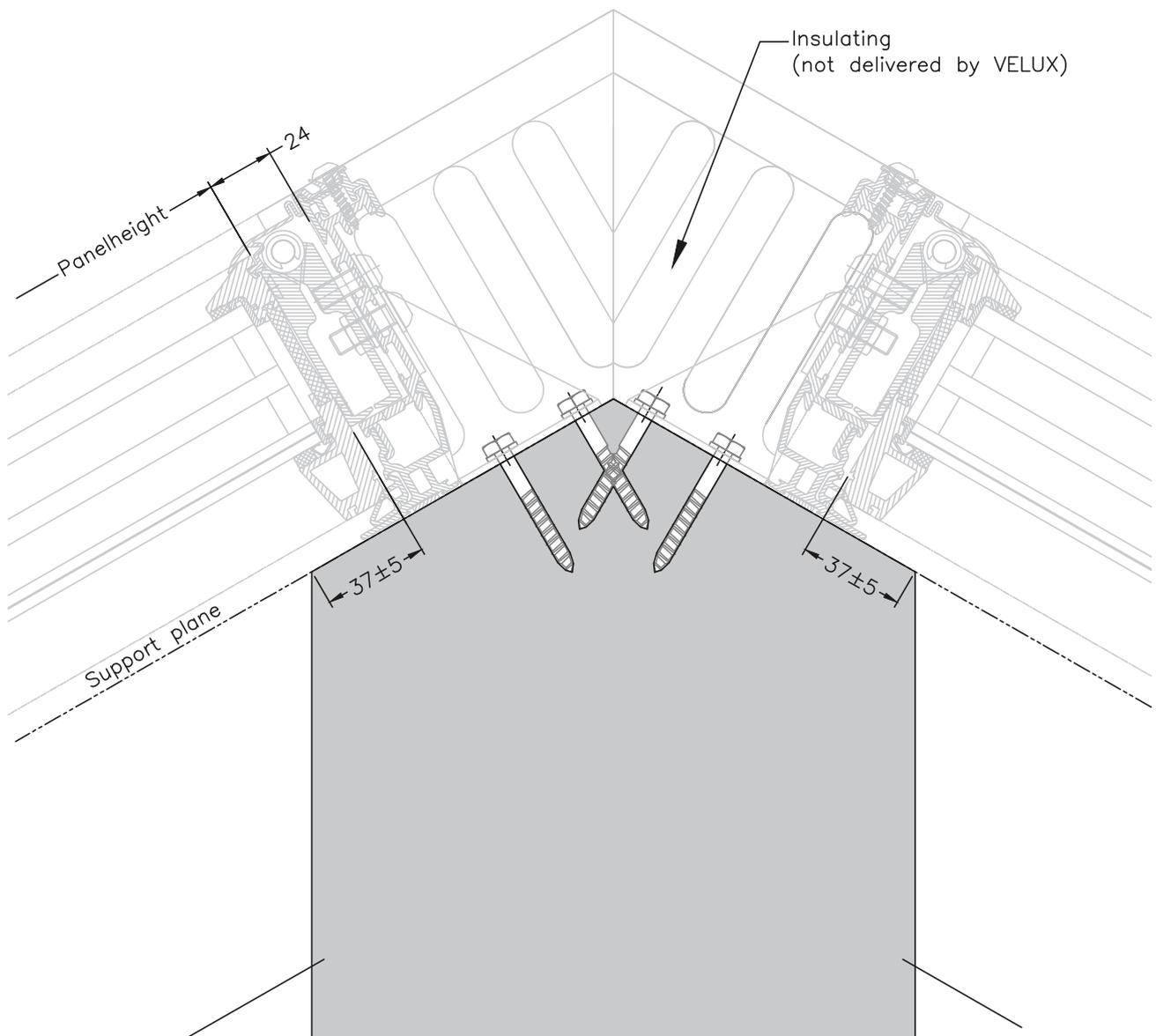
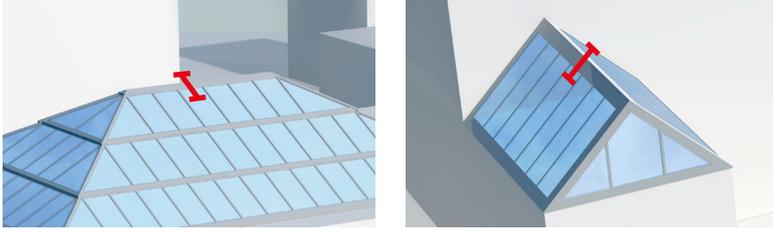
Sectional drawing – Head, Slate

31-06



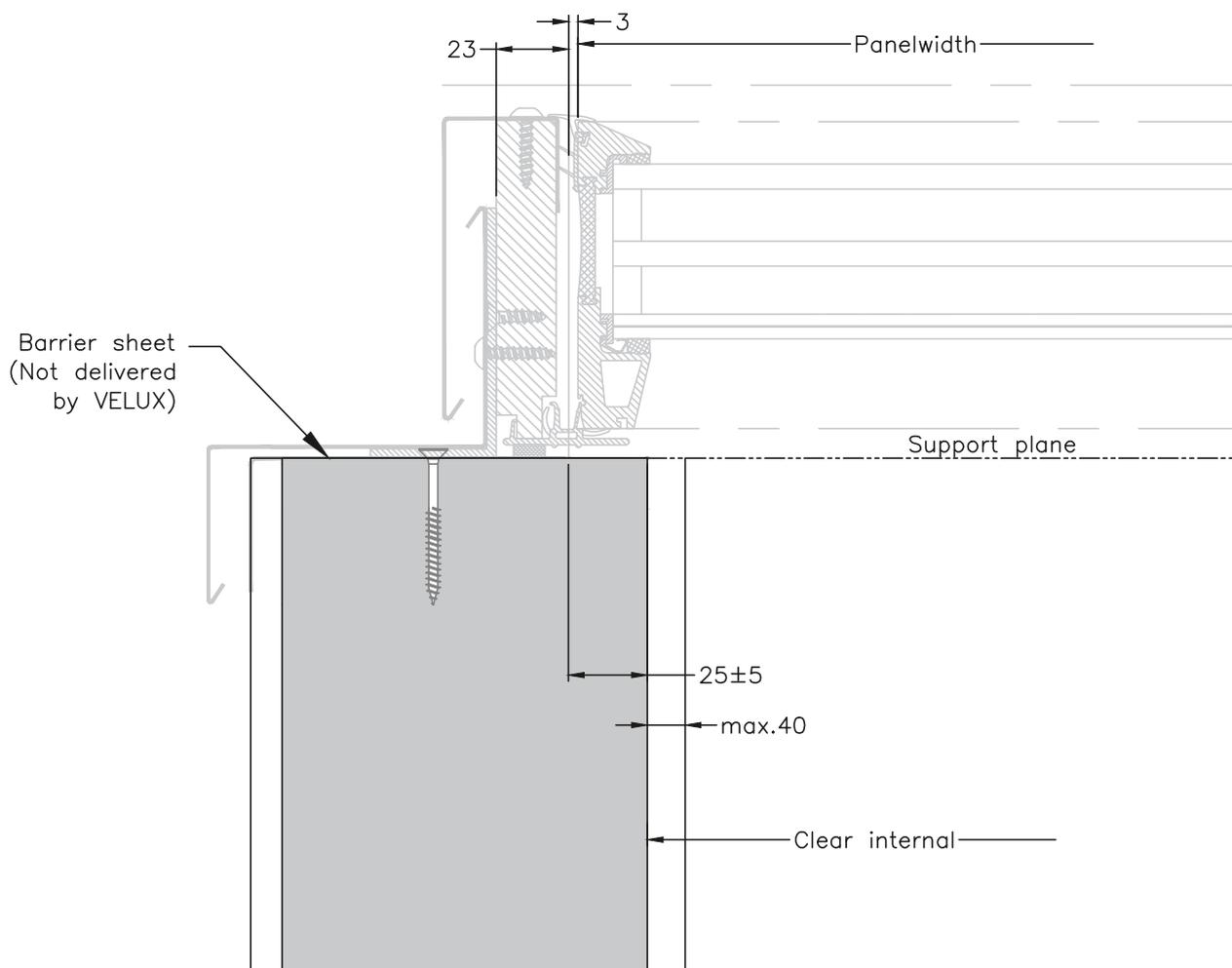
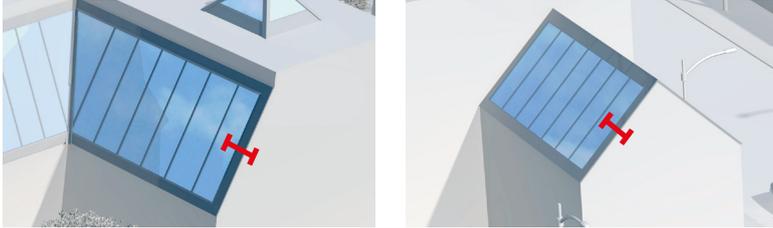
Sectional drawing – Ridge

42-04



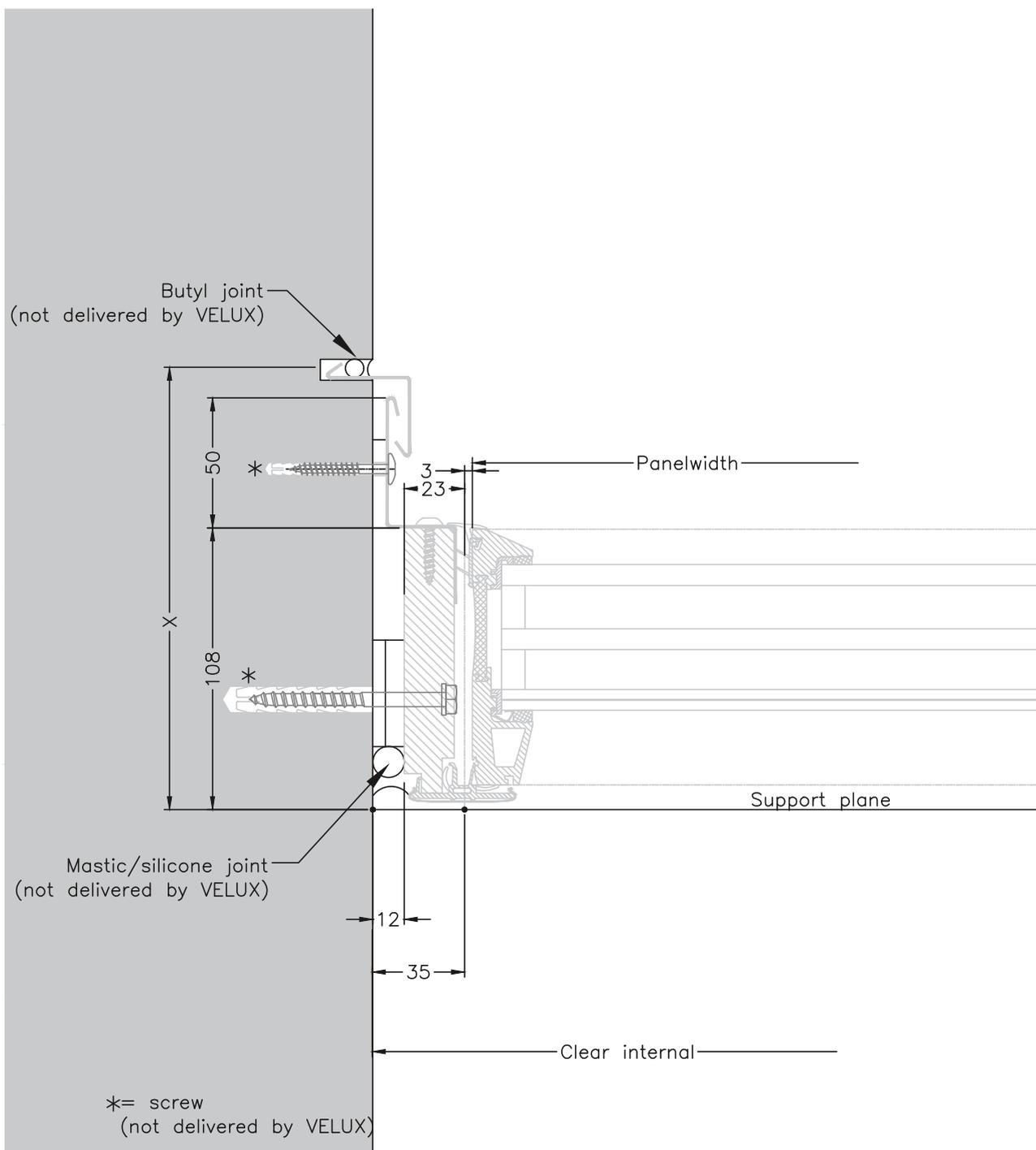
Sectional drawing – Gable, Solid

71-01



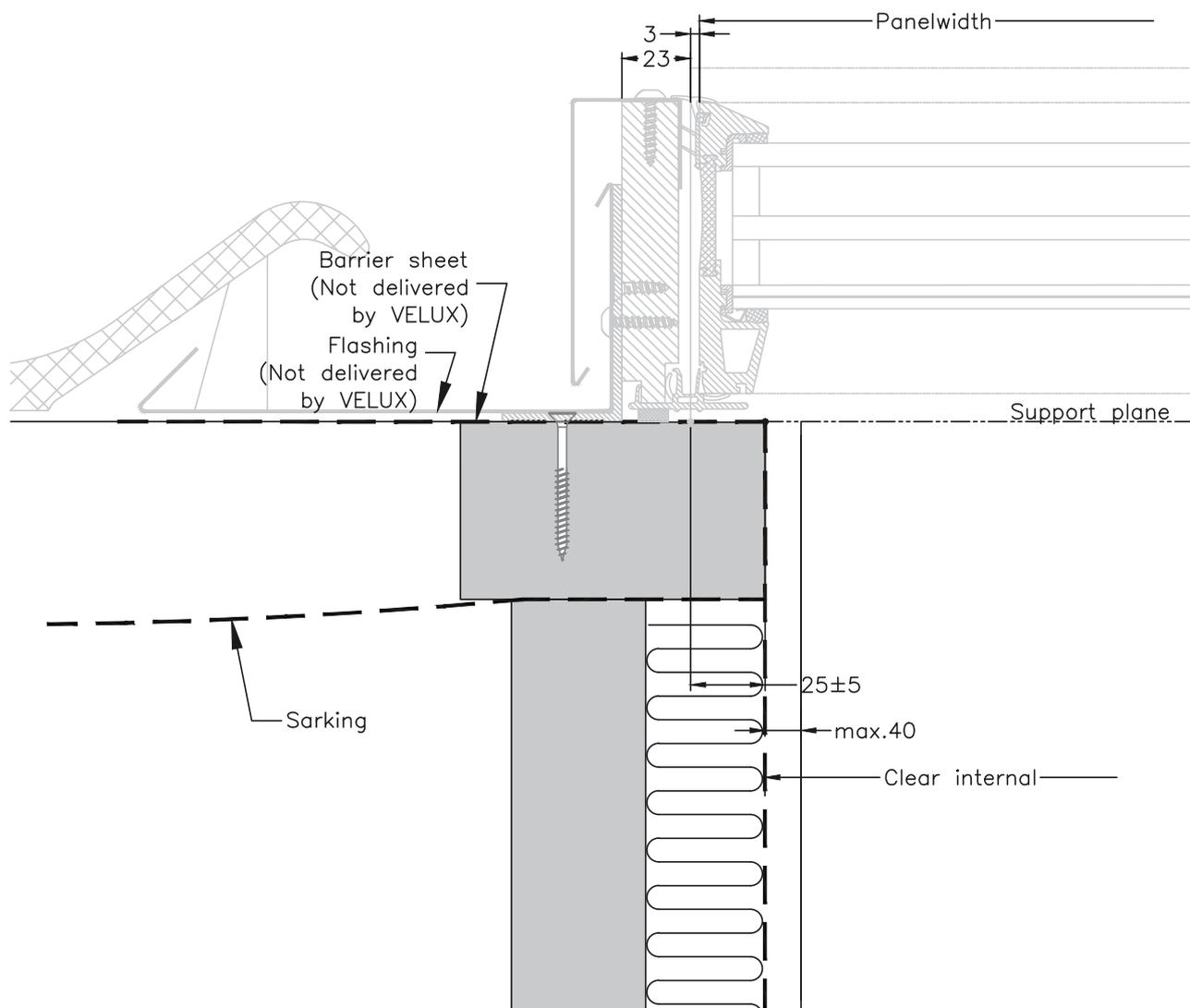
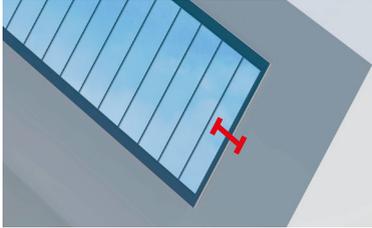
Sectional drawing – End junction

71-02



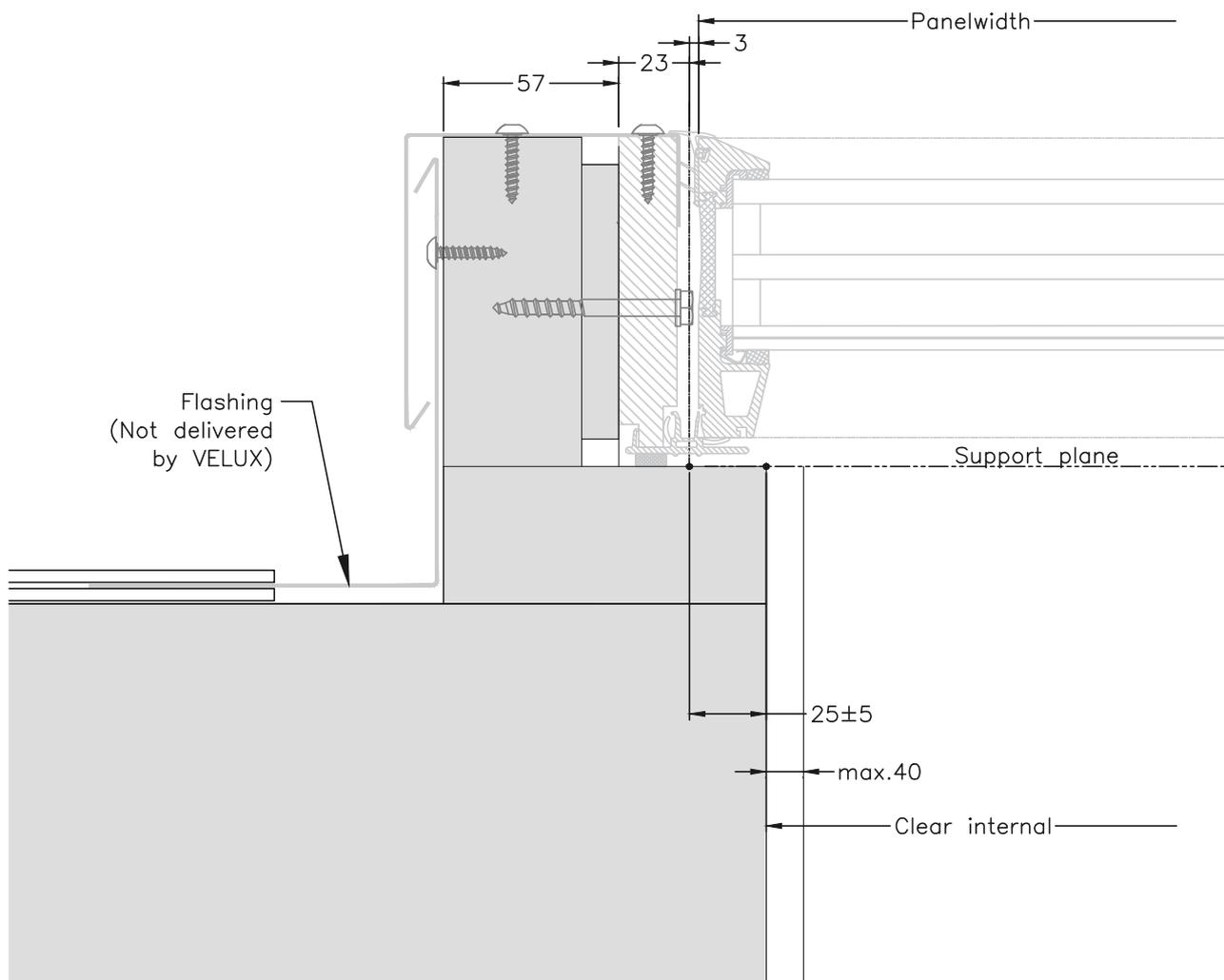
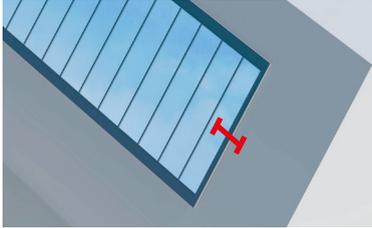
Sectional drawing – Gable, Tile

71-03



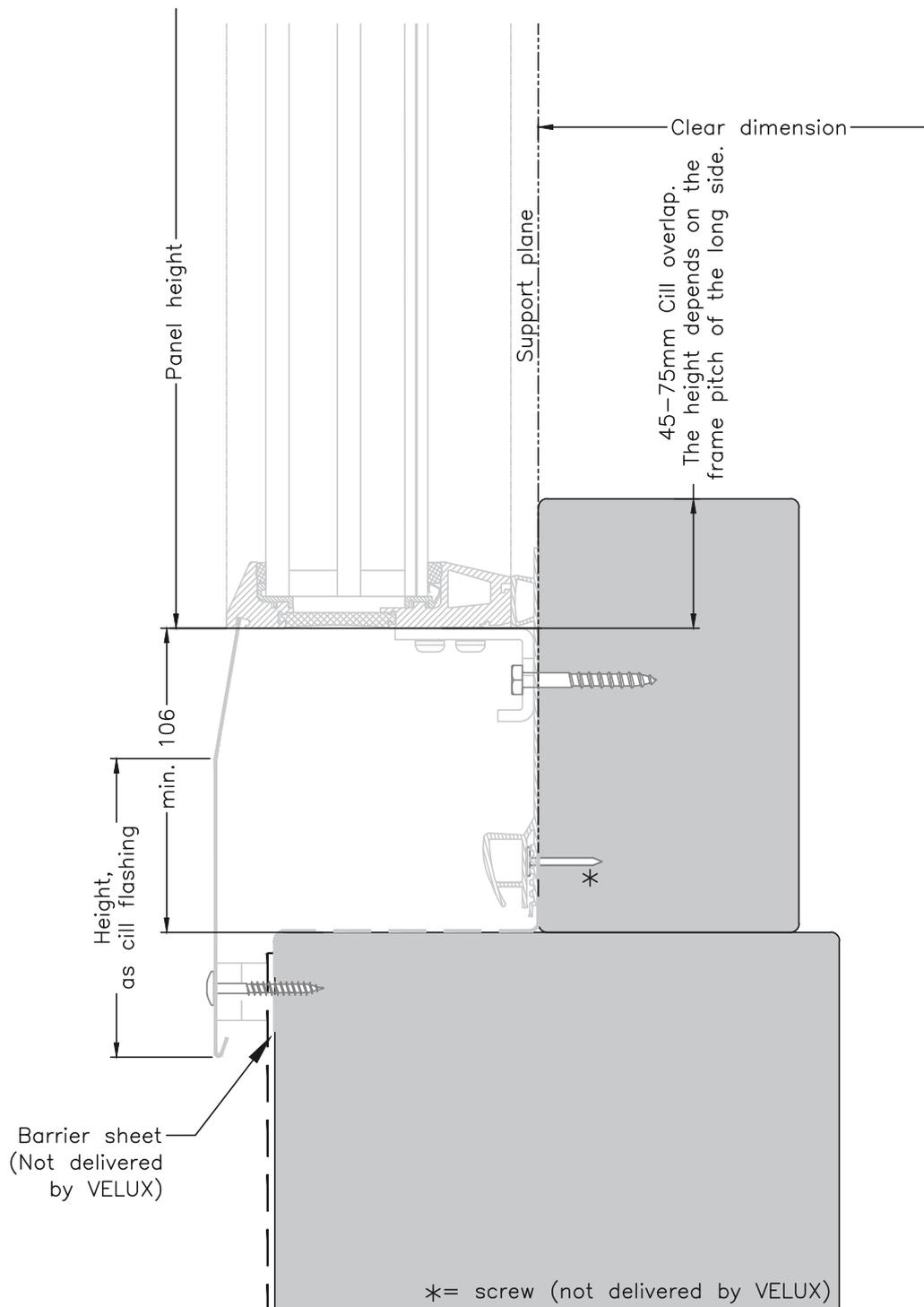
Sectional drawing – Gable, Slate

71-04



Sectional drawing – Gable Cill

81-01

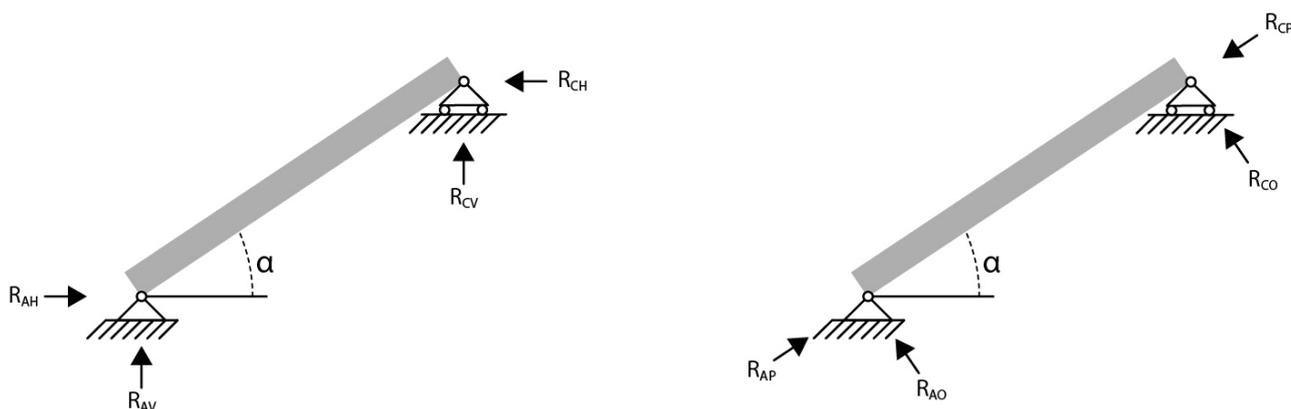


Static information for dimensioning

As an additional service, VELUX Commercial offers to provide static calculation for the skylight solution based on the actual loads

given by the customer. For static calculation please contact a VELUX Commercial sales office.

Static model of reactions



Reactions horizontal and vertical per /m

- R_{AH} – Reaction A-side Horizontal
- R_{AV} – Reaction A-side Vertical
- R_{CH} – Reaction C-side Horizontal
- R_{CV} – Reaction C-side Vertical

Reactions comparer to the panel per /m

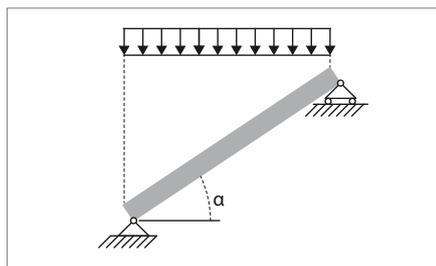
- R_{AO} – Reaction A-side Orthogonal
- R_{AP} – Reaction A-side Parallel
- R_{CO} – Reaction C-side Orthogonal
- R_{CP} – Reaction C-side Parallel

Characteristic loads

Fill out please

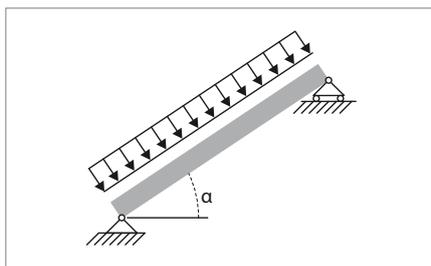
Name of your project:

Snowload pressure in kN/m^2



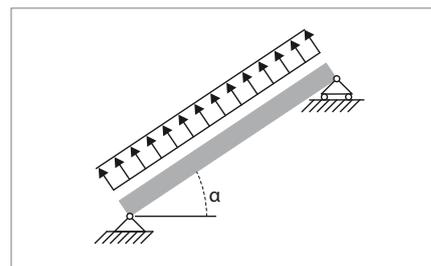
kN/m^2

Windload pressure in kN/m^2



kN/m^2

Windload suction in kN/m^2



kN/m^2

Recommended guidelines for dimensioning of sub-construction for VGP

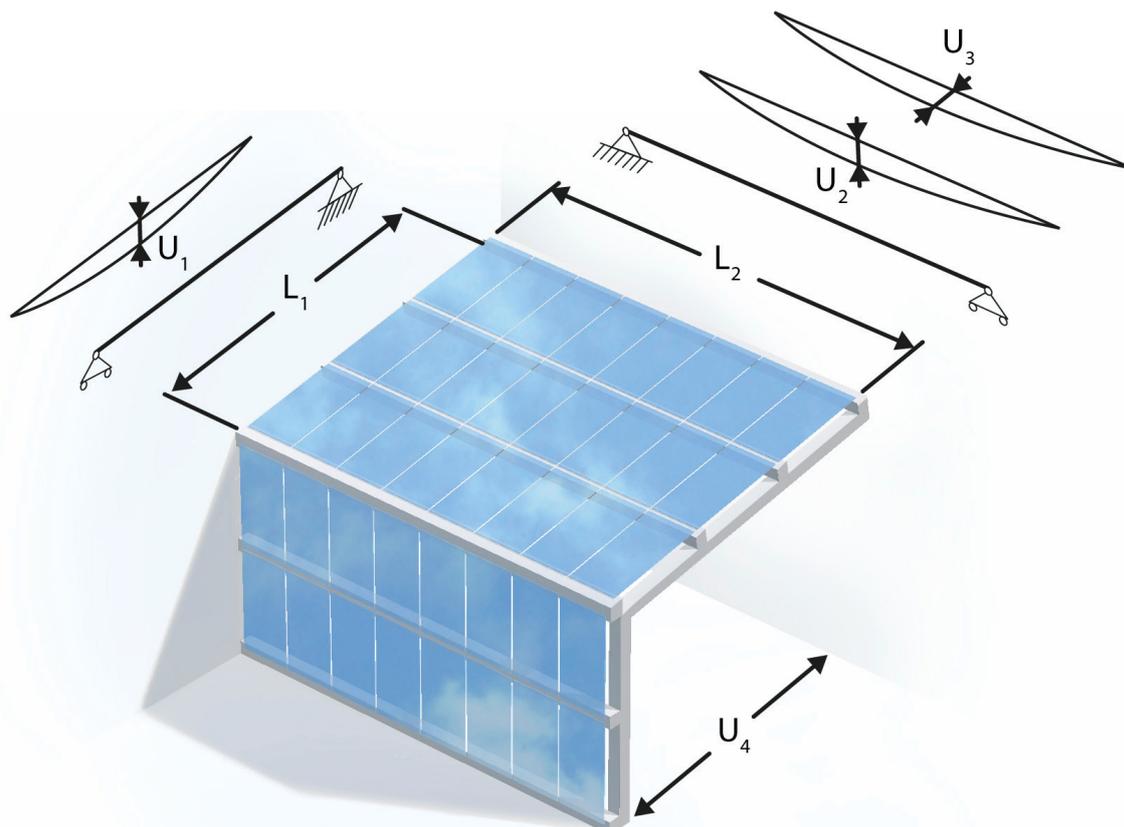
The roof construction is subject to deflection after installation of the glazing panels. These deflections includes subsequent roof covering, various building installations and external loads such as snow and wind etc.
The sub-construction must be designed to withstand all these loads and the deformations must be limited to the maximum deflection values stated below, measured over the full length of the sub-construction.

After completing the sub-construction, it must be secured against water penetrating the roof construction and insulation.

NOTE! All panels are hinged at the top.

Maximum deflection

- U1 = Max L1 / 200**
- U2 = Max L2 / 200**
- U3 = Max L2 / 1000, max 6 mm**
- U4 = Max L / 500, max 5 mm**



VELUX Group
VELUX Commercial
Ådalsvej 99
2970 Hørsholm
Denmark

Email: vms@velux.com
Web: veluxcommercial.com
Blog: commercial.velux.com/blog

Bringing light to life™

VELUX®

Commercial