CUSTOMER TECHNICAL MEMO # 174

Subject: **NEW HAWKESBURY DIES –**
MFE26 150MM HEAD, MFE27S 150MM TRANSOM

Date: 5/6/13

From: Vince Ravese

Good Afternoon all,

Please refer below for the new 150mm head and transom available for our Hawkesbury suite.

If you have any questions please do not hesitate to contact your local Area Manager or Sales Office.

Kind Regards,

Vince Ravese
Product Development

HAWKSBURY

Section 2.3
TEST RESULTS - AS2047

Test report: AS12-194

4 PANEL INWARD OPENING BIFOLD WINDOW OVER HUNTER EVO LOW LITE

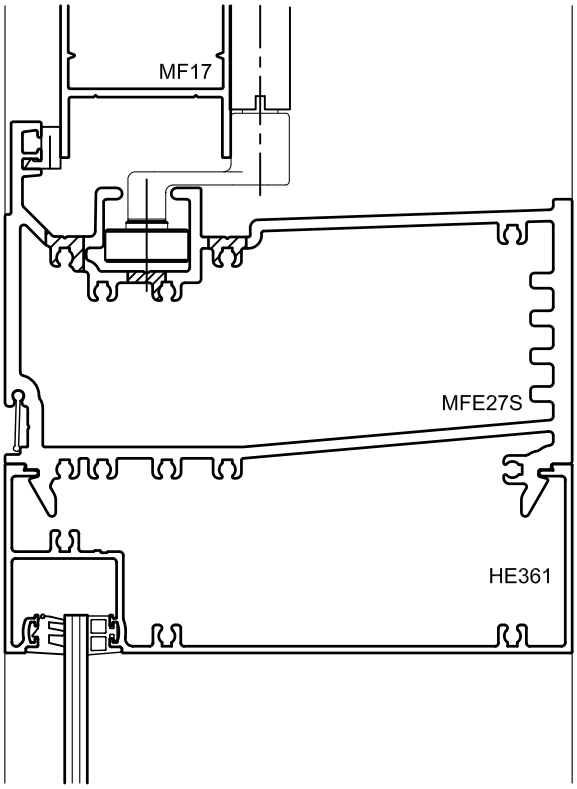
Test sample size.....2600 H x 3600 W

Serviceability load @ L/250.....3000 kPa

Ultimate load.....4000 kPa

Water penetration.....450 Pa

Air infiltration @75Pa.....+0.46 L/s/m²
-0.72 L/s/m²
@150Pa.....+0.76 L/s/m²
-1.40 L/s/m²



NOTES:
1. ALL FRAME JOINTS SEALED USING 308509 FOAM TAPE

2. SILICONE SEAL MFE27S AND HE361 TOGETHER AT TIME OF INSTALATION

3. 6.38 LAMINATED GLASS USING GR3 GLAZING RUBBER IN SASH

4. AQ21 FRAME SEAL

5. CE12 SILL FLAP

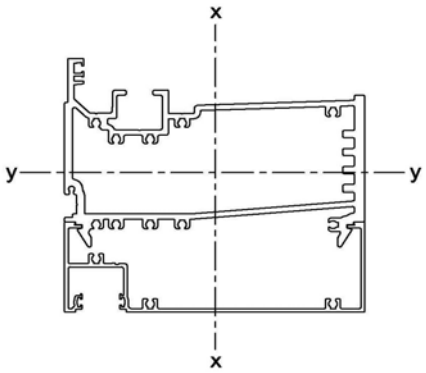
6. MFE27S PRE-SLOTTED 25MM X 6MM @ 450 CTRS

7. 3 X Ø10 DRAINAGE HOLES, 100MM FROM EACH END AND AT EVERY STILE

ALSPEC ALUMINIUM SYSTEMS
TECHNICAL MANUAL

HAWKESBURY

WIND PRESSURE TABLE



MFE27S + HE361 Transom
Ixx = 8976 X 10^3 mm^4 **Max Stress** = 110 Mpa **S =** Serviceability limit state l/180 **U =** Ultimate limit state

L/180

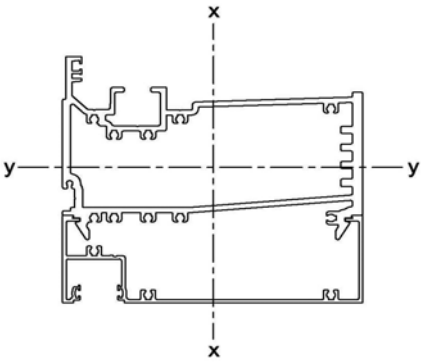
Window Height	Low Lite Height		Maximum Design Pressure (Pa)						
1700	**1000**	S	3000	3000	3000	2990	2400	1960	1620
		U	8030	6630	5570	4750	4100	3570	3140
1600	**1000**	S	3000	3000	3000	3000	2480	2020	1670
		U	8270	6840	5750	4900	4240	3700	3250
1500	**1000**	S	3000	3000	3000	3000	2570	2100	1730
		U	8540	7070	5950	5080	4390	3830	3370
1400	**1000**	S	3000	3000	3000	3000	2670	2180	1800
		U	8840	7320	6170	5270	4560	3980	3510
1300	**1000**	S	3000	3000	3000	3000	2770	2260	1870
		U	9000	7600	6410	5480	4740	4140	3650
1200	**1000**	S	3000	3000	3000	3000	2890	2360	1960
		U	9000	7910	6680	5710	4940	4320	3810
1100	**1000**	S	3000	3000	3000	3000	3000	2470	2040
		U	9000	8260	6970	5970	5170	4520	3980
Transom Length			**3200**	**3500**	**3800**	**4100**	**4400**	**4700**	**5000**

This table is based on theoretical section properties

ALSPEC ALUMINIUM SYSTEMS
TECHNICAL MANUAL

HAWKESBURY

WIND PRESSURE TABLE



MFE27S + HE361 Transom

Ixx = 8976 X 10^3 mm^4

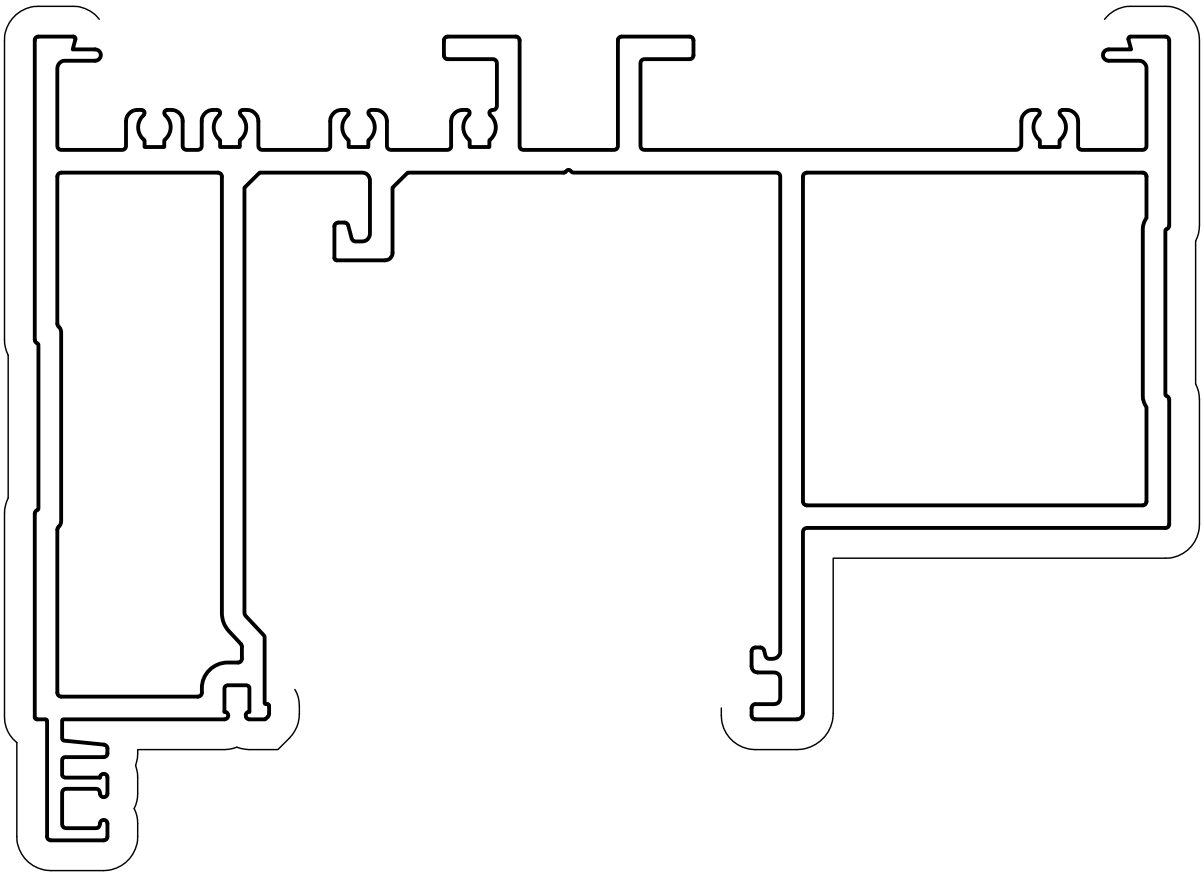
Max Stress = 110 Mpa
S = Serviceability limit state l/250
U = Ultimate limit state

L/250

Window Height	Low Lite Height		Maximum Design Pressure (Pa)						
1700	**1000**	S	3000	3000	2730	2150	1730	1410	1160
		U	8030	6630	5570	4750	4100	3570	3140
1600	**1000**	S	3000	3000	2810	2220	1780	1460	1200
		U	8270	6840	5750	4900	4240	3700	3250
1500	**1000**	S	3000	3000	2910	2300	1850	1510	1250
		U	8540	7070	5950	5080	4390	3830	3370
1400	**1000**	S	3000	3000	3000	2380	1920	1570	1300
		U	8840	7320	6170	5270	4560	3980	3510
1300	**1000**	S	3000	3000	3000	2480	1990	1630	1350
		U	9000	7600	6410	5480	4740	4140	3650
1200	**1000**	S	3000	3000	3000	2580	2080	1700	1410
		U	9000	7910	6680	5710	4940	4320	3810
1100	**1000**	S	3000	3000	3000	2690	2170	1780	1470
		U	9000	8260	6970	5970	5170	4520	3980
Transom Length			**3200**	**3500**	**3800**	**4100**	**4400**	**4700**	**5000**

This table is based on theoretical section properties

Extrusions

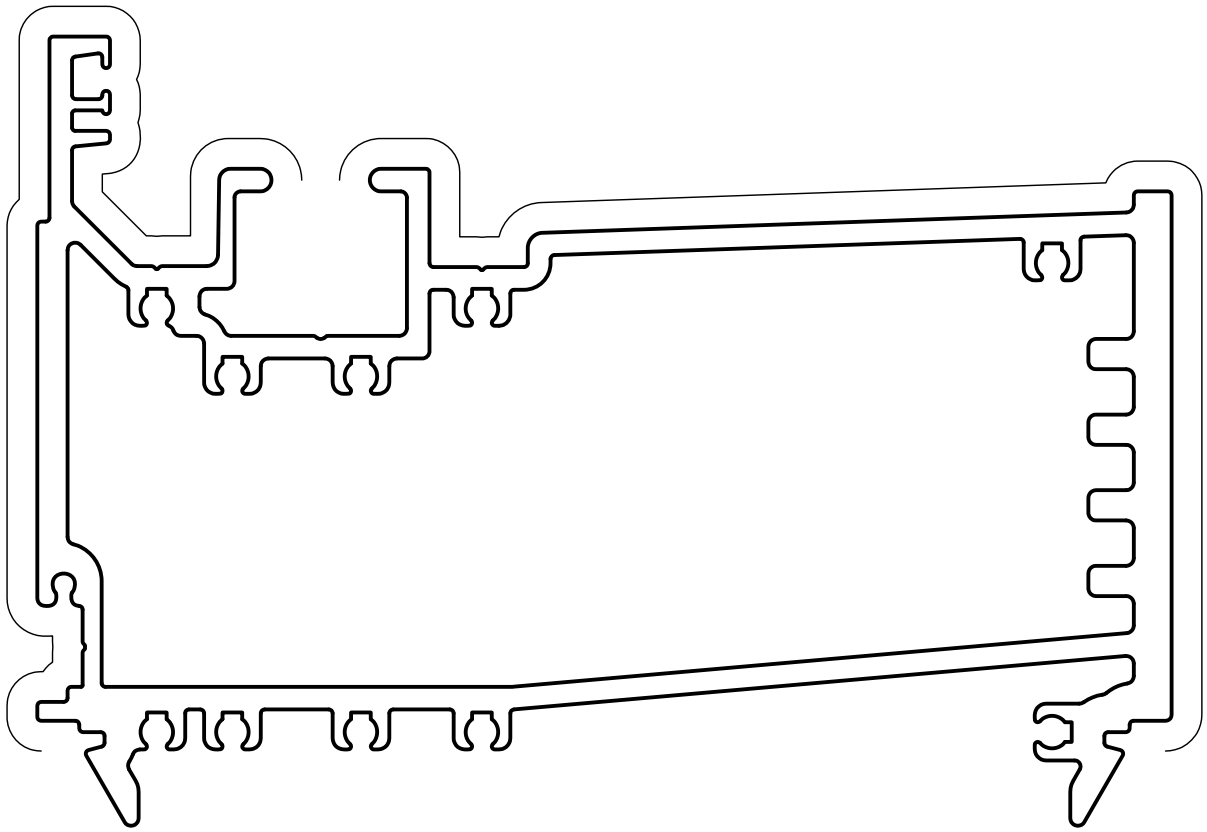


MFE26
150mm HEAD

Mass. 5.291 Kg/m
Anod. Per. 980
Paint Per. 357

Ixx = 5162.55 x 10^3 mm^4
Iyy = 1599.92 x 10^3 mm^4

Extrusions

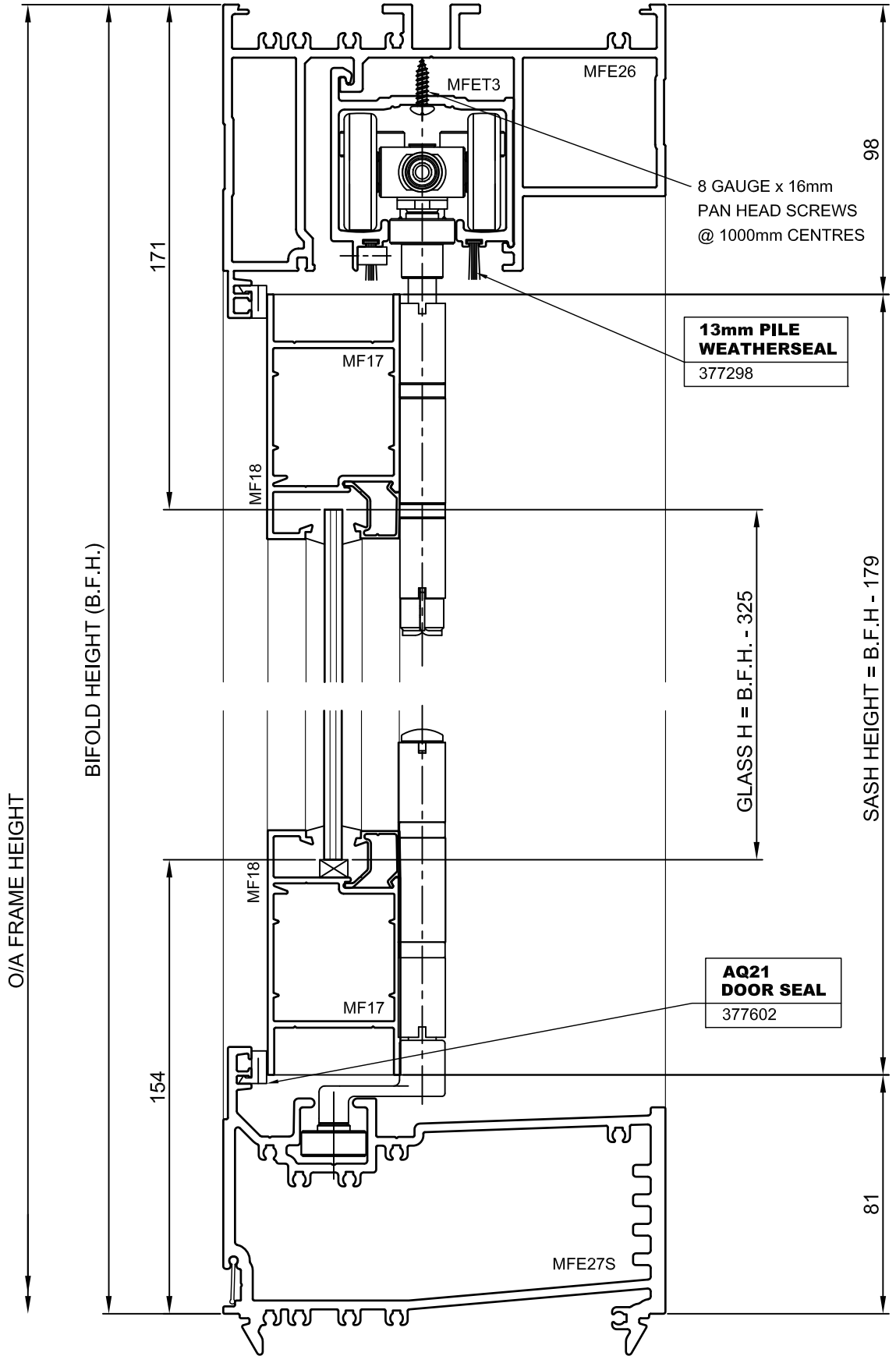


MFE27S
150mm TRANSOM

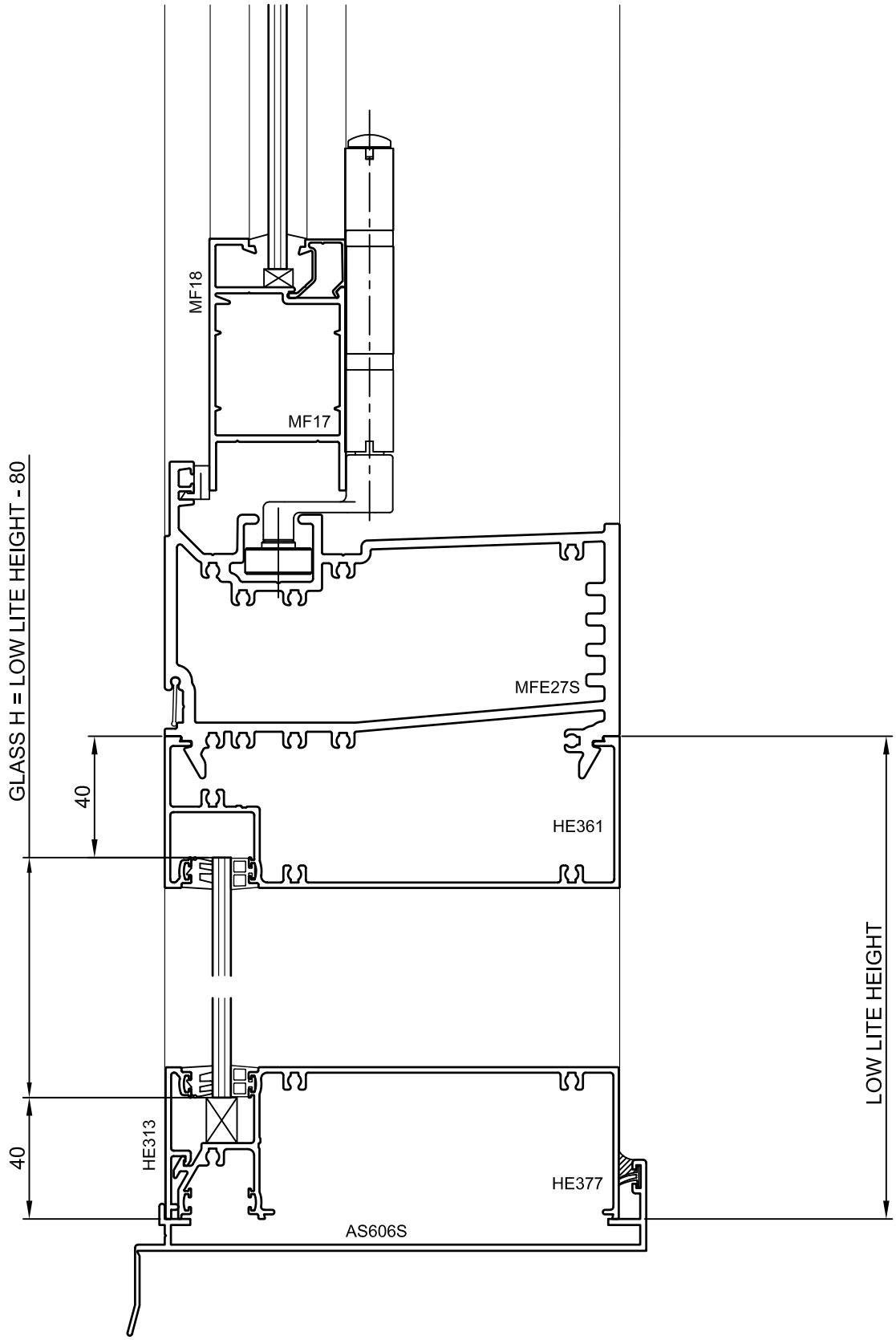
Mass. 5.968 Kg/m
Anod. Per. 800
Paint Per. 407

Ixx = 6986.16 x 10^3 mm^4
Iyy = 1689.52 x 10^3 mm^4

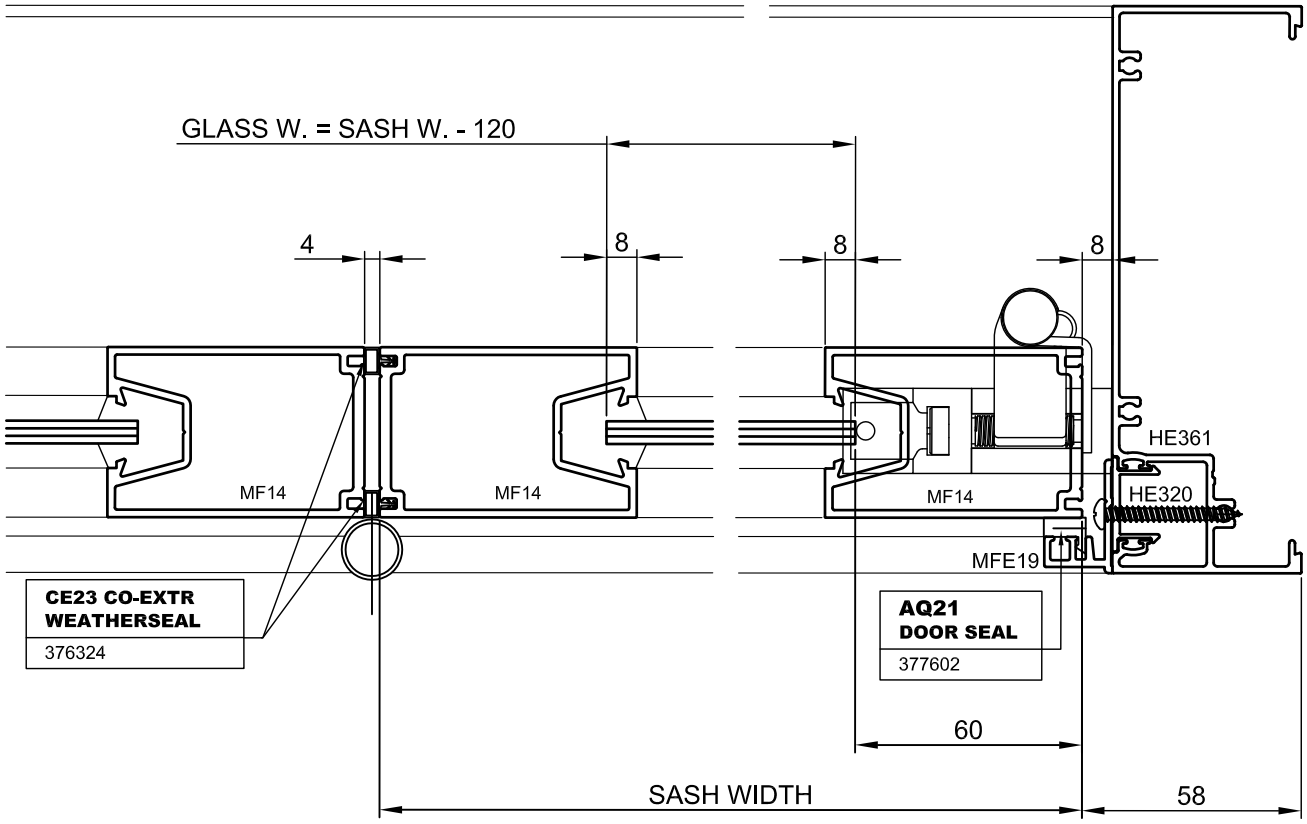
Vertical Detail - 150mm Head & Transom

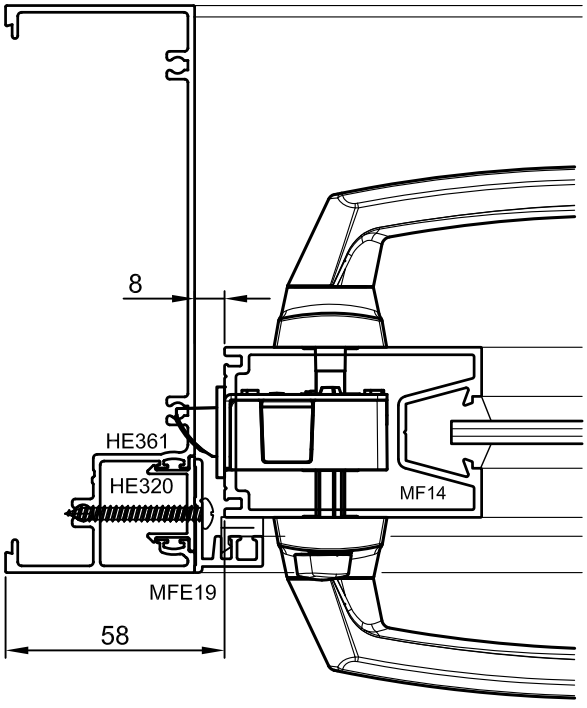


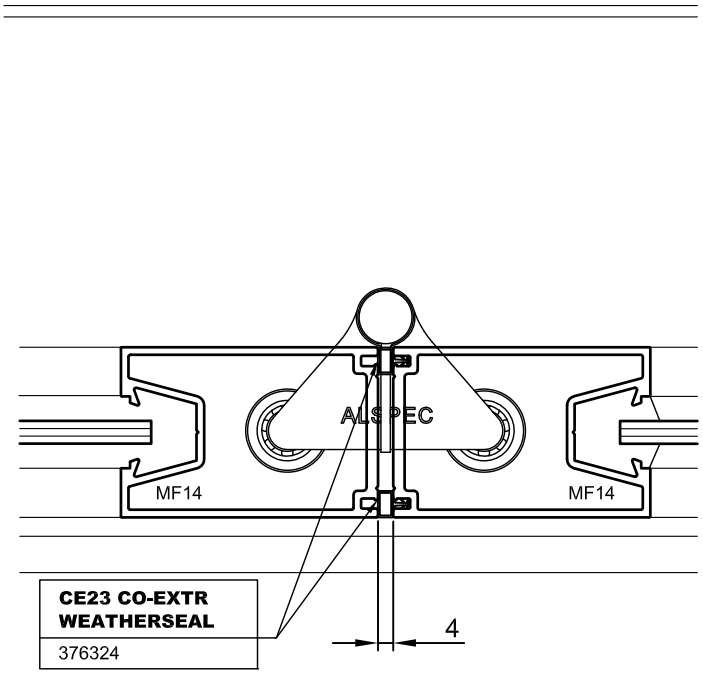
Vertical Detail - 150mm Transom & Hunter Evo Low Lite



Horizontal - LH Jamb, Hinge Stile, Meeting Stile & Lock Stile/Jamb







Horizontal Detail - Hunter Evo Low Lite Jamb/Mullion