ACCREDITATION

BSI KITEMARKS:

All kitemarks

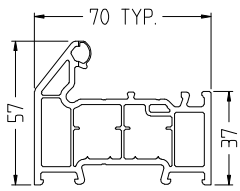
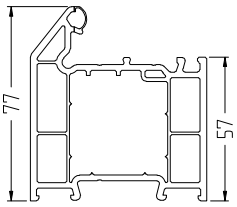
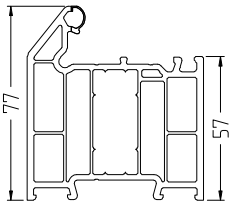
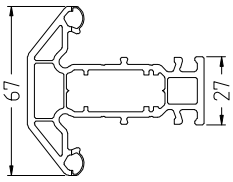
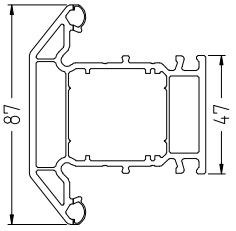
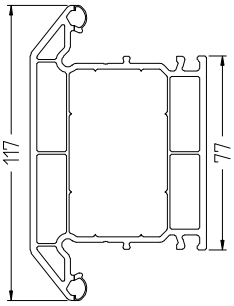
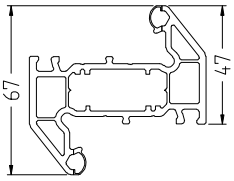
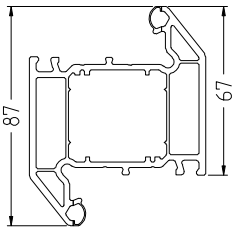
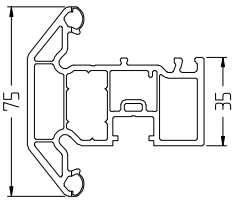
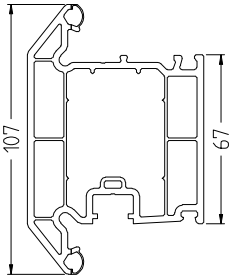
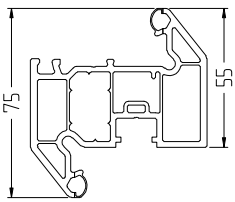
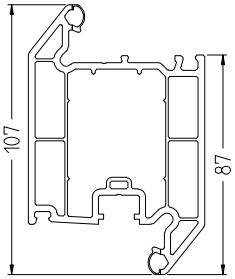
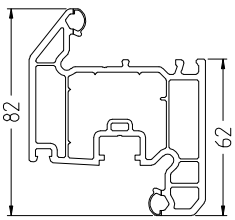
BS EN 12608:2003	PVC-u profiles for the fabrication of windows and doors. KM522037
BS7950:1997	Specification for enhanced security performance of casement and tilt/turn windows in domestic applications. KM522039
PAS 23-1:1999	General performance requirements for door assemblies. KM522040
PAS 24:2007	Enhanced security performance requirementsfor door assemblies. KM522040
BS7412:2002	Specification for windows and doorsets made from PVC-u extruded hollow profiles. Meets the requirements of, enabling fabricators to achieve the kitemark.
ISO 9001:2000	Quality management systems. Requirements. FM524961

SYSTEM CREDENTIALS

- high gloss, lead free materials used in the manufacture of all frames & ancillary products.
- WER 'A' rating for thermal efficiency is achievable with many glazed unit combinations.
- designed specifically as a pre-gasketted system, featuring a patented double-action bubble gasket on all frames. No corner cleaning of the gasket or inner rebate required. Patent UK0802551.2
- enclosed screw retaining pocket within both outer & sash frames, typically halving the steel requirement. Quicker & cheaper to manufacture, easier to re-cycle.
- choice of chamfered & sculptured systems available, fully inter-changeable.
- symmetrical drainage for rebate & bead areas on all profiles.
- identical bead & rebate detail, ideal for internal glazing.
- snap together teature on 165mm cill, outer frames, low thresholds, frame extensions & 90° corner post.
- low thresholds available in 'Part M' compliant & standard format, both with shootbolt facility. No end milling of the door jambs required when using the connector moulding. Reg Des UK4006283
- 22mm backset harware for both internally & externally beaded sash windows, including night vent facility.
- equal frame cover on both faces of door sashes.
- comprehensive range of ancillary products.
- available in white, rosewood & oak finishes along with foiled on white options.

LINIAR COMPONENTS

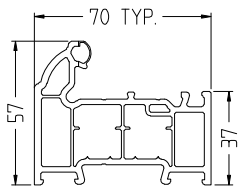
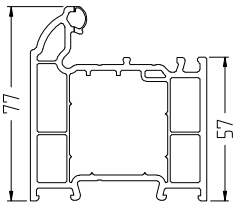
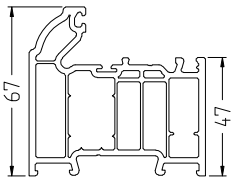
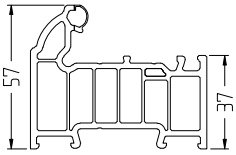
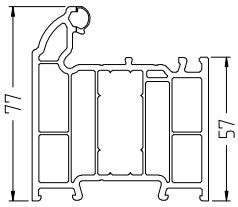
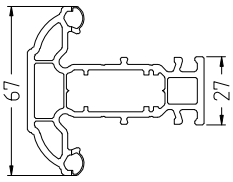
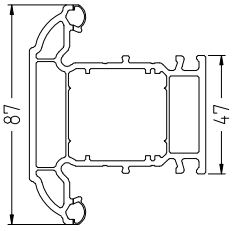
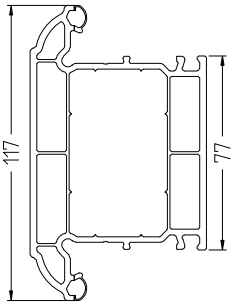
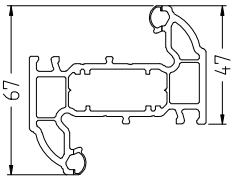
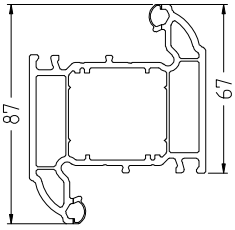
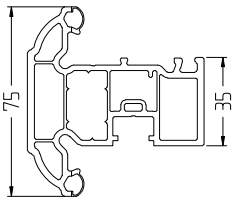
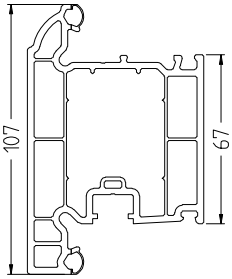
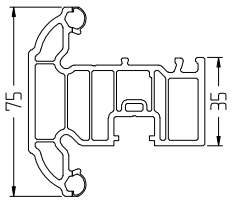
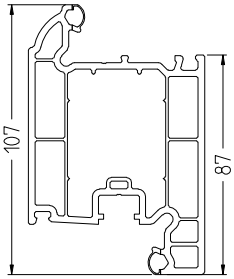
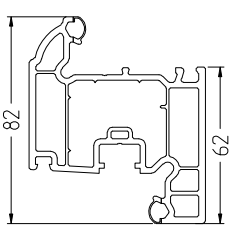
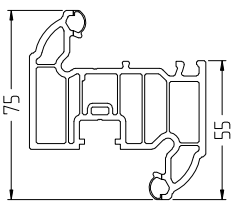
Chamfered

	Standard			Energy Plus	
Outer Frame	 LCW011	 LCW016			 LCW017
Transom/Mullion	 LCW021	 LCW026	 LCW029		
	 LCW022	 LCW027			
Sash	 LCW031	 LCW036			
	 LCW032	 LCW037	 LCW035		

LCW - Liniar Chamfered Windows

LINIAR COMPONENTS

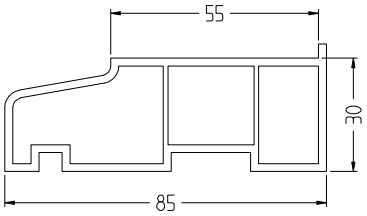
Sculptured

	Standard			Energy Plus	
Outer Frame	 LSW011	 LSW016	 LSW018	 LSW012	 LSW017
Transom/Mullion	 LSW021	 LSW026	 LSW029		
	 LSW022	 LSW027			
Sash	 LSW031	 LSW036		 LSW033	
		 LSW037	 LSW035	 LSW032	

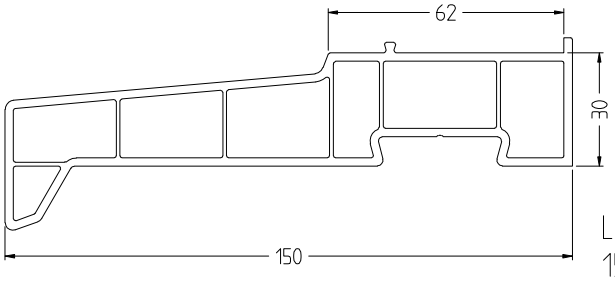
LSW - Liniar Sculptured Windows

LINIAR COMPONENTS

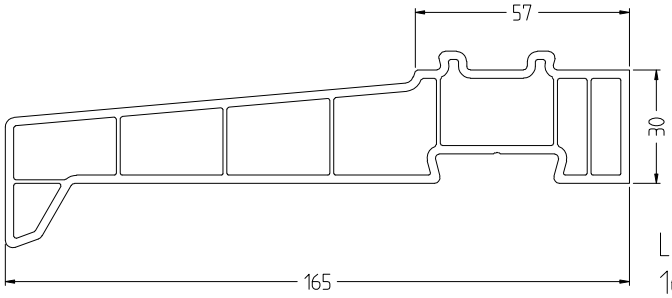
CILLS



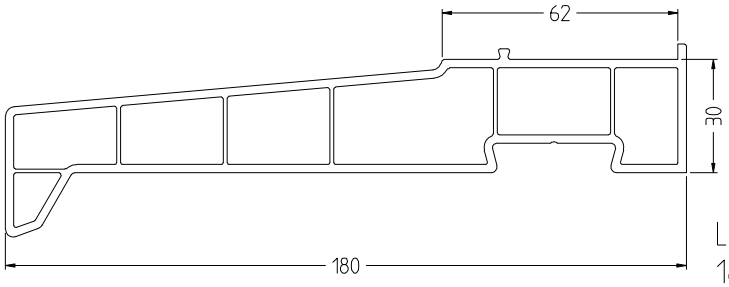
LCL085
85MM CILL



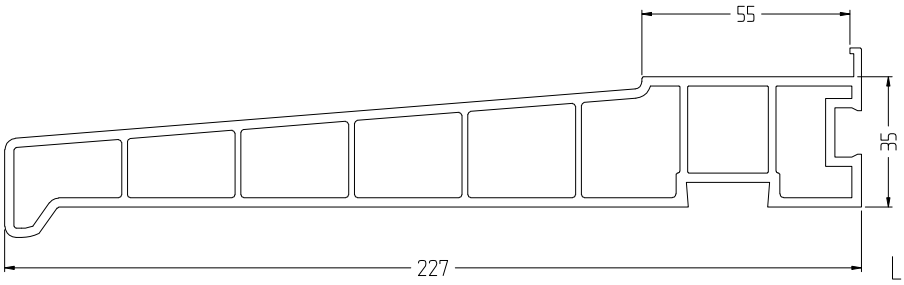
LSL150
150MM CILL



LCL165
165MM CILL



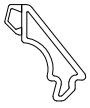
LSL180
180MM CILL



LCL225
225MM CILL

LINIAR COMPONENTS

BEAD



LCW041
CHAMF. BEAD

LSW041
SCULPT. BEAD

LSW042
36MM BEAD

GASKET

LGA401
REPAIR GASKET

LGA411
BI-FOLD
REBATE SEAL

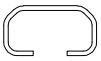
LGA435
BAY POLE NEST
GASKET

REINFORCEMENTS STEEL

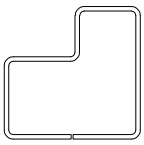
LSR011

LSR017

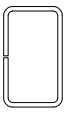
LSR021



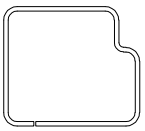
LSR031



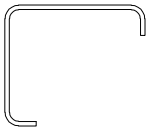
LSR016



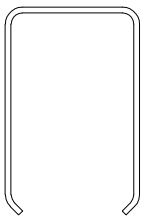
LSR018



LSR026

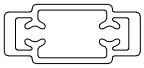


LSR035

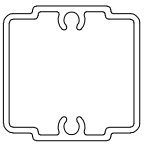


LSR036
LSR036P (PUNCHED)

REINFORCEMENTS ALUM.

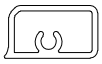


LAR021



LAR026

LAR029

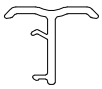


LAR031
MOCK SASH HORN
REINFORCING

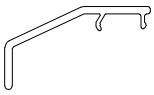
ANCILLARIES PVCu

LAN101
SECURITY STRIP

LAN102
GLAZING
FLIPPER

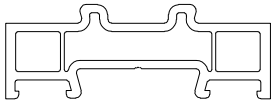


LAN103
SINGLE BUTT
JOINT



LAN104
HEAD DRIP

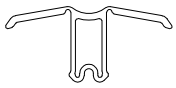
LAN105
CILL DRIP



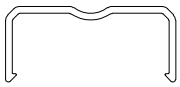
LAN106
20MM FRAME EXTENSION

LAN107
THERMAL DAM

LAN111
COVER STRIP



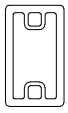
LAN112
SMALL TRIM



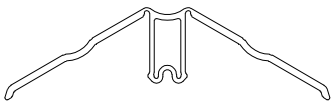
LAN113
H.D BUTT JOINT
CAPPING

LAN114
STRUCTURAL JOINT
CAPPING

LAN116
10MM FRAME EXTENSION

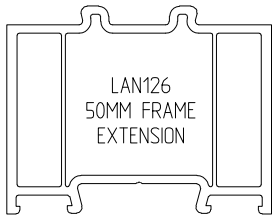


LAN118
COMP. DOOR MECH.
JOINT REINFORCEMENT

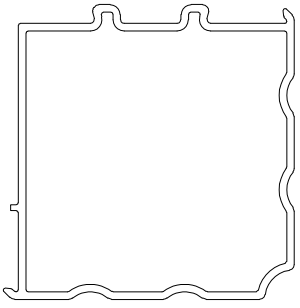


LAN131
LARGE TRIM

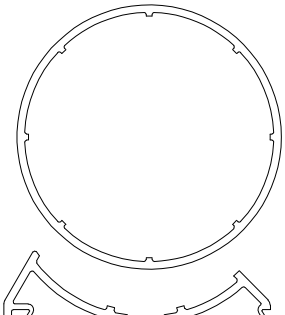
LAN165
CILL
REINFORCING



LAN126
50MM FRAME
EXTENSION

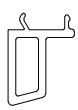


LAN153
90° CORNER POST



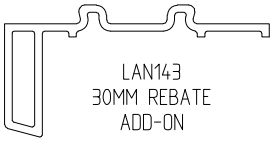
LAN134
BAY POLE NEST
COVER

LAN135
BAY POLE NEST



LAN141
20MM REBATE
ADD-ON

LAN142
35MM REBATE
ADD-ON

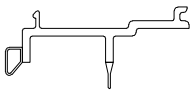


LAN143
30MM REBATE
ADD-ON

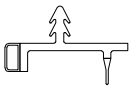
LINIAR COMPONENTS

ANCILLARIES

PVCu



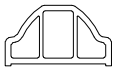
LAN171
LOW THRESHOLD
TRIM



LAN172
COMPOSITE DOOR LOW
THRESHOLD TRIM

LAN180
COMPOSITE DOOR
REINFORCING

LAN160
20MM GEORGIAN BAR



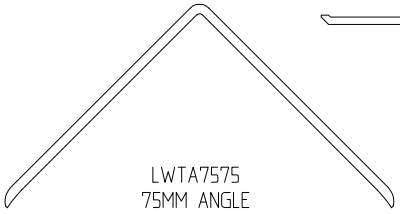
LAN161
28MM GEORGIAN BAR

TRIMS

LWTD24
24MM D MOULD

LWTCT18
18MM TRIM

LWTCT28
28MM TRIM



LWTA7575
75MM ANGLE

LWTAA75
75MM ADJ. ANGLE

LWTAA50
50MM ADJ. ANGLE

LWTQ135
13.5MM QUAD

LWTQ185
18.5MM QUAD

LWTB18
18MM BEAD

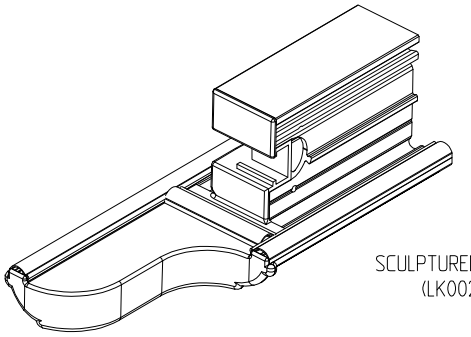
LWTARC40
40 X 6MM ARCHITRAVE

LWTARC60
60 X 6MM ARCHITRAVE

LWTARC90
90 X 6MM ARCHITRAVE

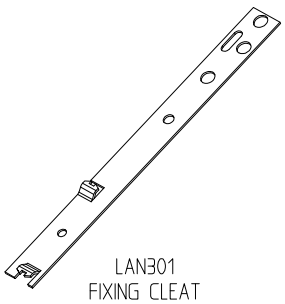
LWTQWC
20MM QUAD. WINDOW
BOARD CHANNEL

KITS

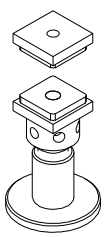


LK001
SCULPTURED MOCK SASH HORN KIT
(LK002, CHAMFERED KIT)

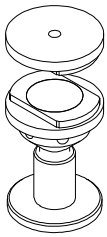
STEEL



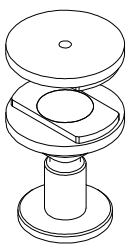
LAN301
FIXING CLEAT



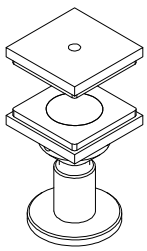
LAN311
BUTT JOINT JACK



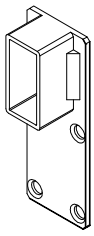
LAN331
SMALL BAY POLE
JACK



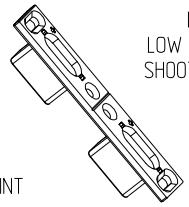
LAN332
LARGE BAY POLE
JACK



LAN353
SQUARE BAY POLE
JACK



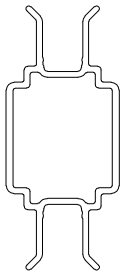
LAN314
STRUCTURAL JOINT
FIXING CLEAT



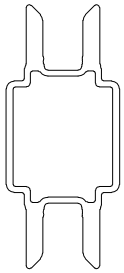
LAN371
LOW THRESHOLD
SHOOTBOLT KEEP

LINIAR COMPONENTS

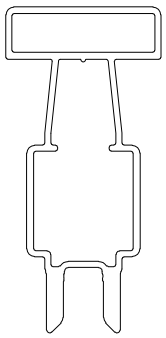
ANCILLARIES ALUMINIUM



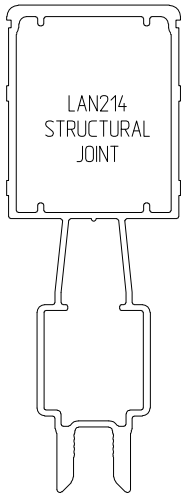
LAN211
STD. BUTT JOINT



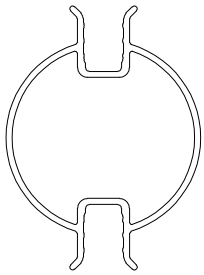
LAN212
MED. DUTY BUTT JOINT



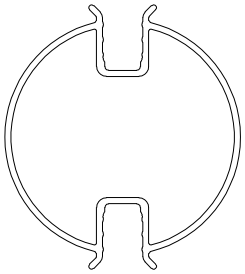
LAN213
H.D BUTT JOINT



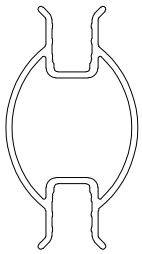
LAN214
STRUCTURAL JOINT



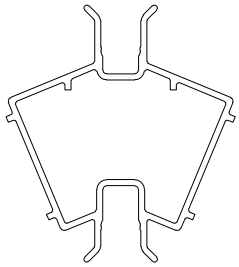
LAN231
SMALL BAY POLE



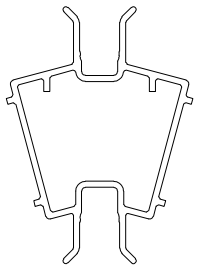
LAN232
LARGE BAY POLE



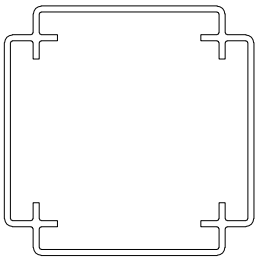
LAN233
BOW POLE



LAN251
135° CORNER JOINT

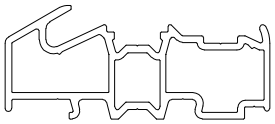


LAN252
150° CORNER JOINT

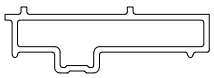


LAN253
90° CORNER JOINT

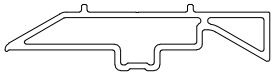
LAN271
PART 'M' COMPLIANT
LOW THRESHOLD



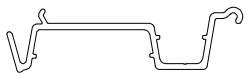
LAN272
STD. LOW THRESHOLD



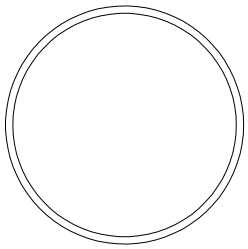
LAN273
THRESHOLD PACKER



LAN274
THRESHOLD PACKER



LAN291
MEETING STILE
ADAPTER

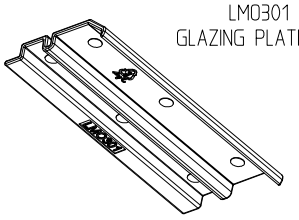


LAN234
BAY POLE NEST

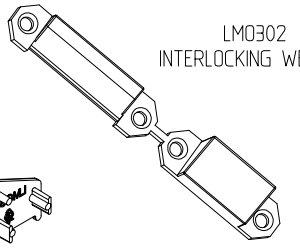
LAN275
LOW THRESHOLD
TRAY

LINIAR COMPONENTS

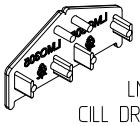
ANCILLARIES MOULDINGS



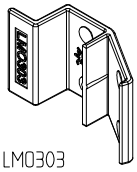
LM0301
GLAZING PLATFORM



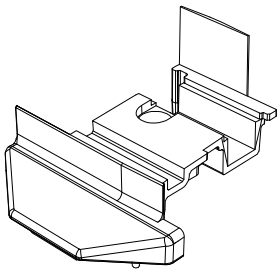
LM0302
INTERLOCKING WEDGES



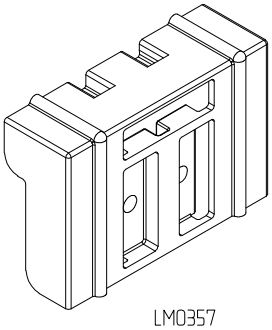
LM0305
CILL DRIP END CAP



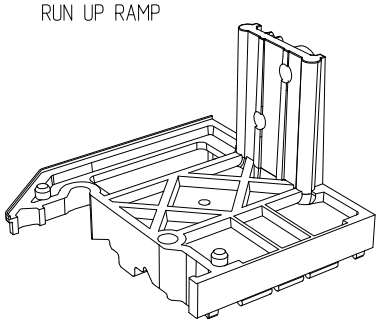
LM0303
RUN UP RAMP



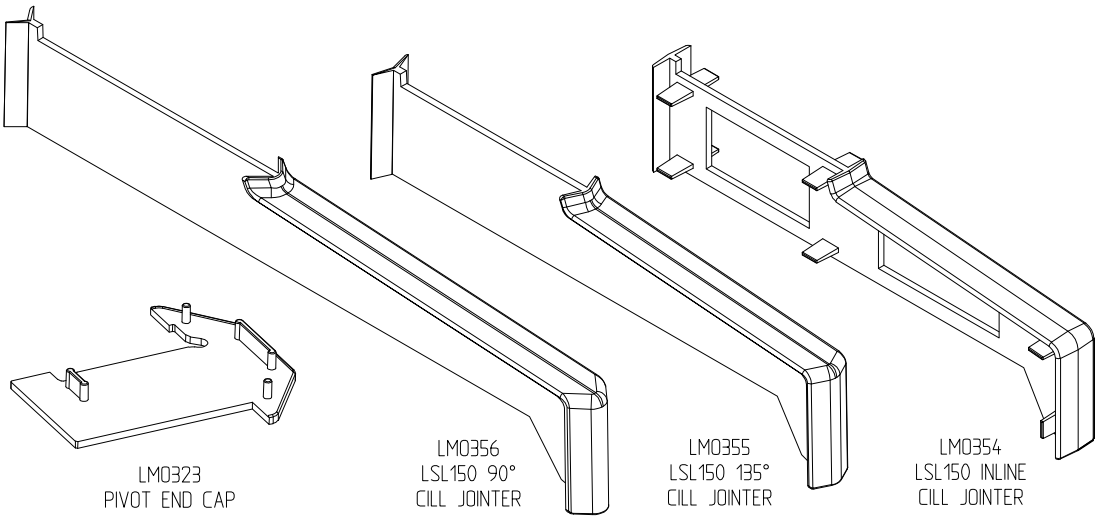
LM0321
FRENCH DOOR END CAP
(LM0322 SCULPTURED VERSION)



LM0357
CORNER PROTECTOR



LM0371
LOW THRESHOLD MOULDING
(LM0372 SCULPTURED VERSION)

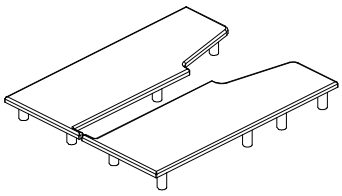


LM0323
PIVOT END CAP

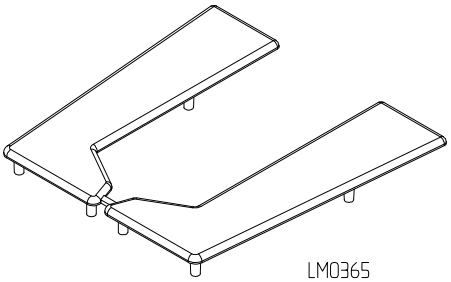
LM0356
LSL150 90°
CILL JOINTER

LM0355
LSL150 135°
CILL JOINTER

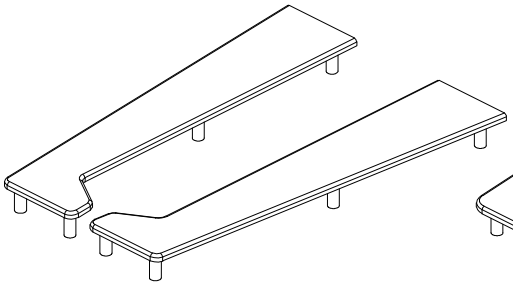
LM0354
LSL150 INLINE
CILL JOINTER



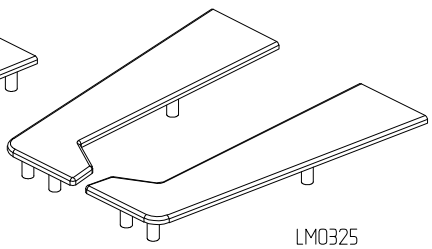
LM0385
85MM CILL END CAP



LM0365
150MM & 165MM CILL END CAP



LM0380
180MM CILL END CAP

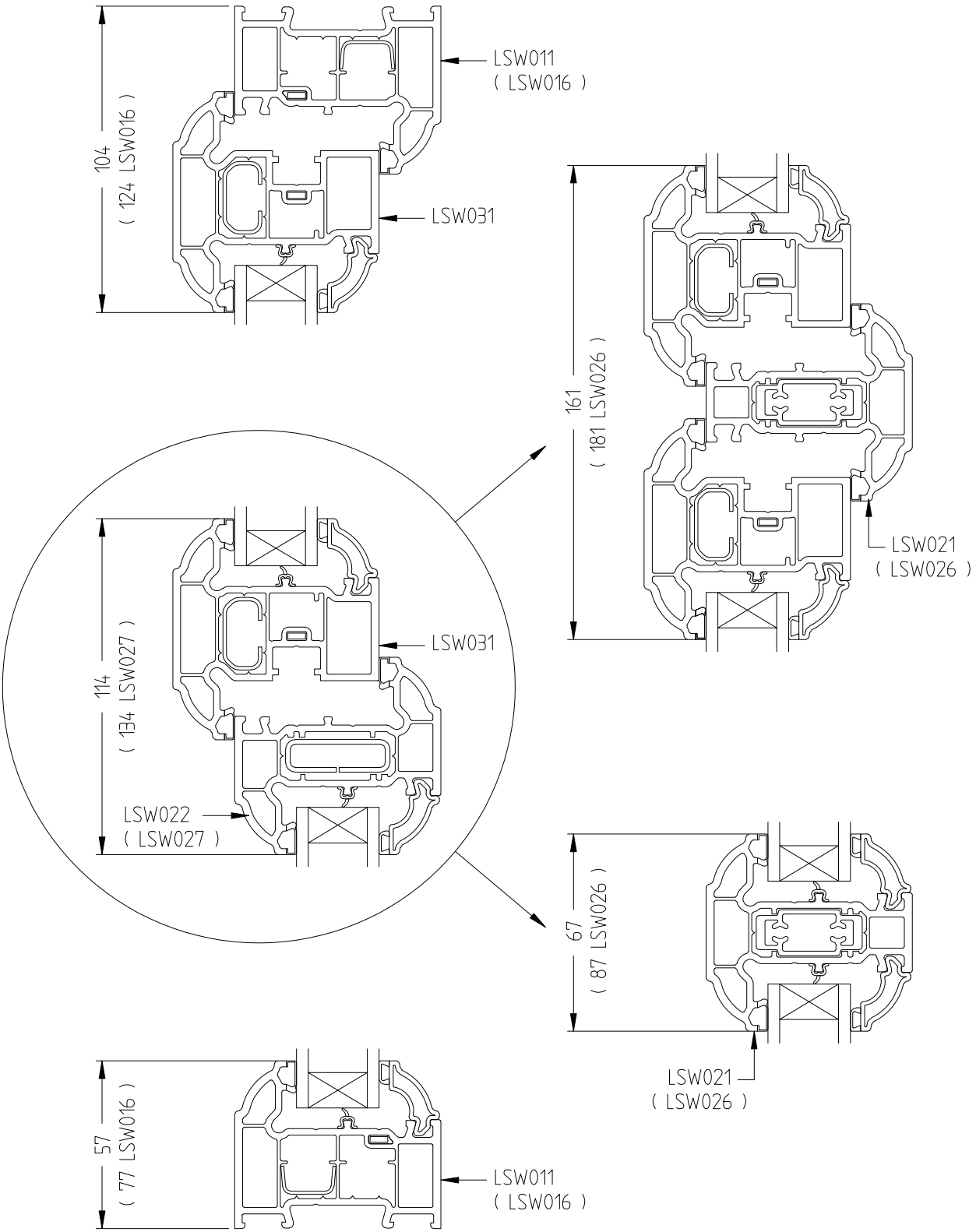


LM0325
225MM CILL END CAP

CASEMENT WINDOW

Internally Glazed

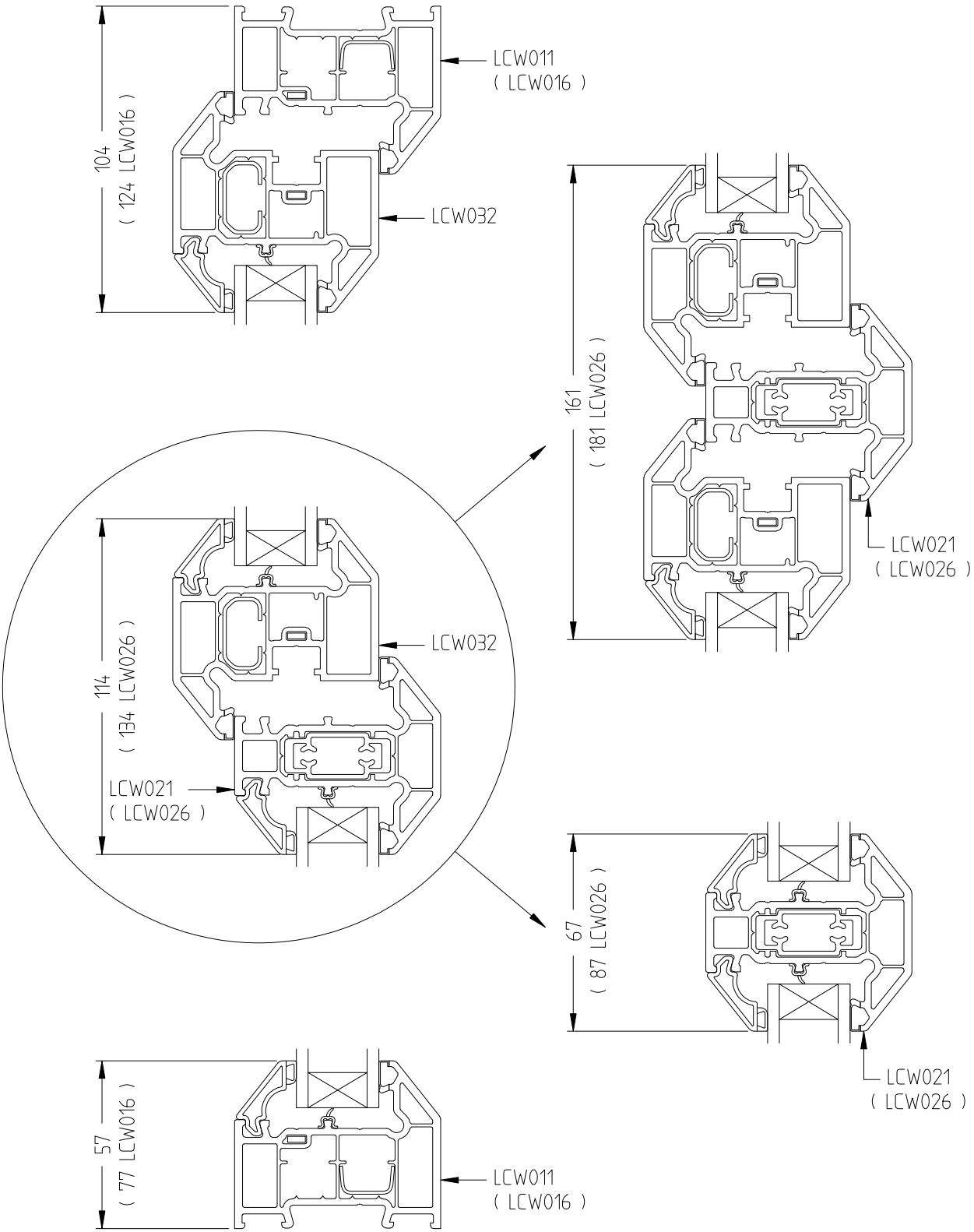
(re-inforcement shown for reference only)



CASEMENT WINDOW

Externally Glazed

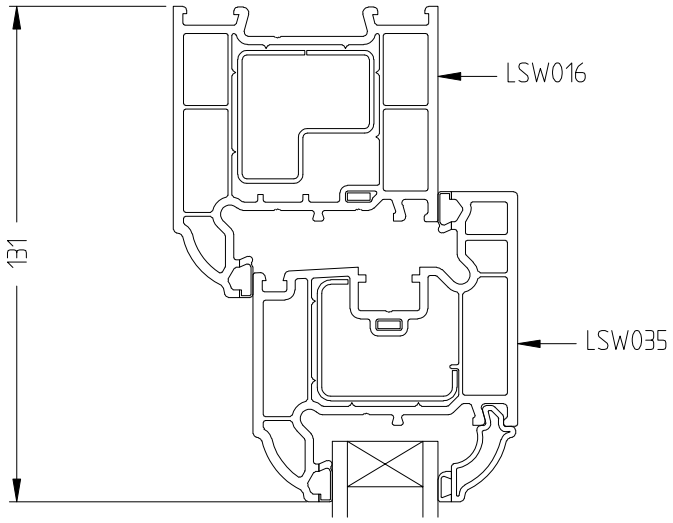
(re-inforcement shown for reference only)

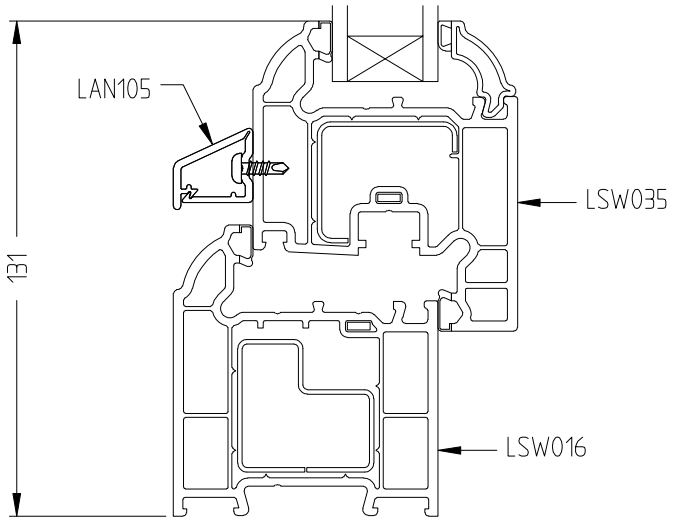


TILT + TURN WINDOW

Internally Glazed

(re-inforcement shown for reference only)

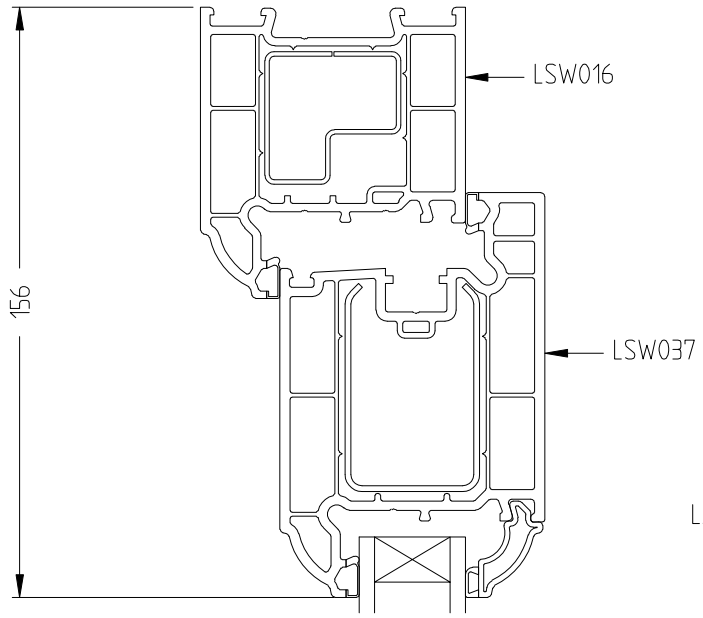


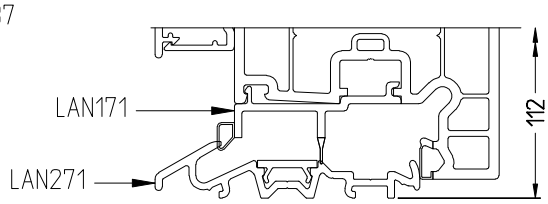


RESIDENTIAL DOOR

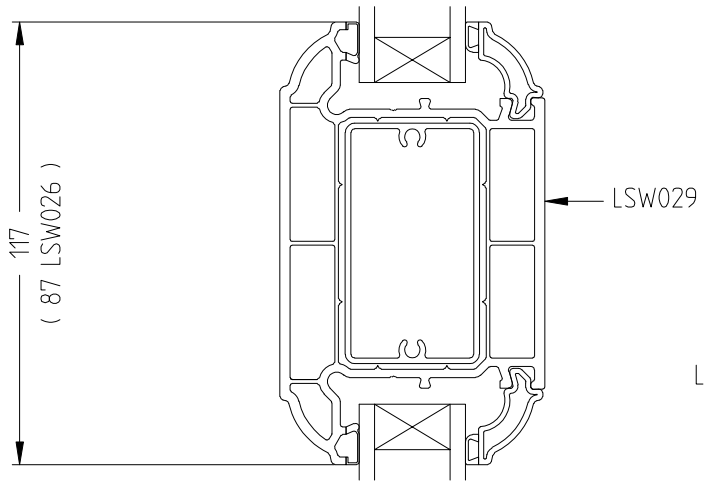
Internally Glazed

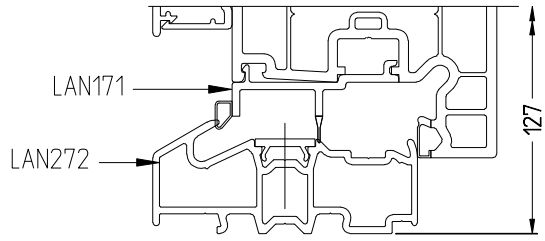
(re-inforcement shown for reference only)



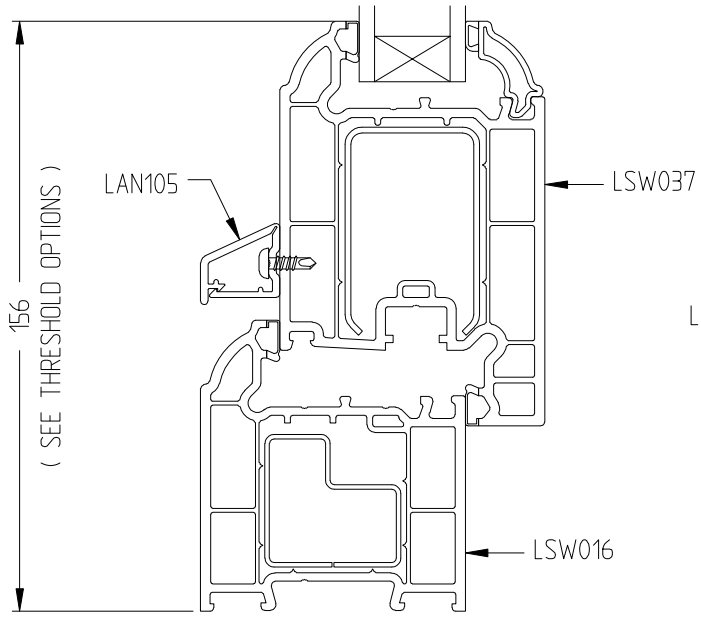


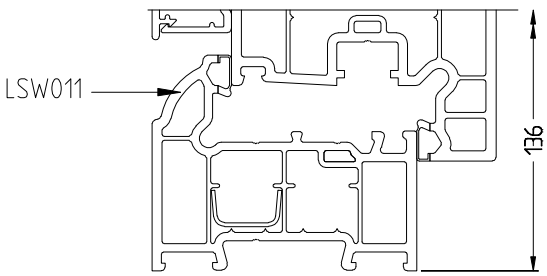
'Part M' Compliant
Low Threshold Option





Standard Low
Threshold Option



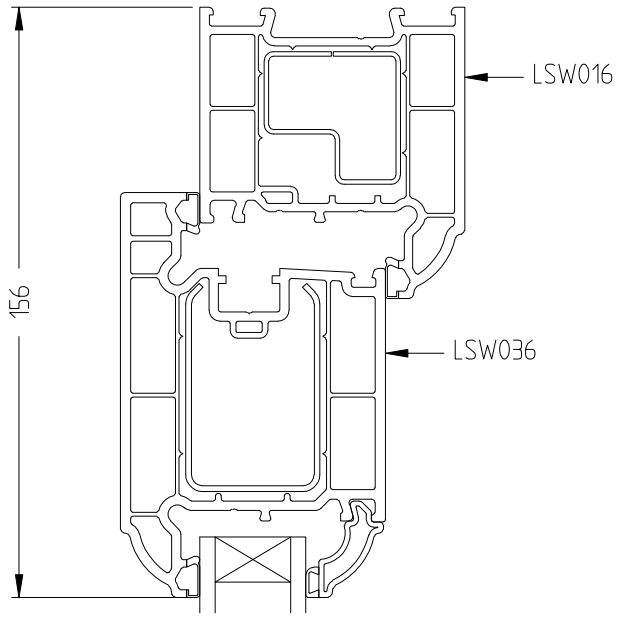


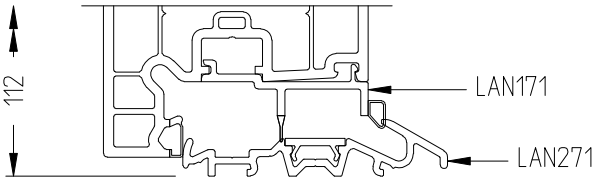
LSW011 Main Frame
Threshold Option

FRENCH DOOR

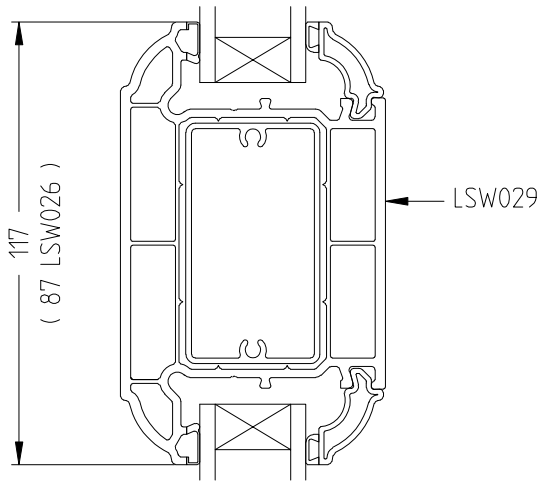
Internally Glazed

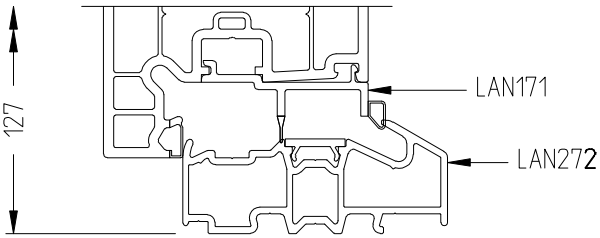
(re-inforcement shown for reference only)



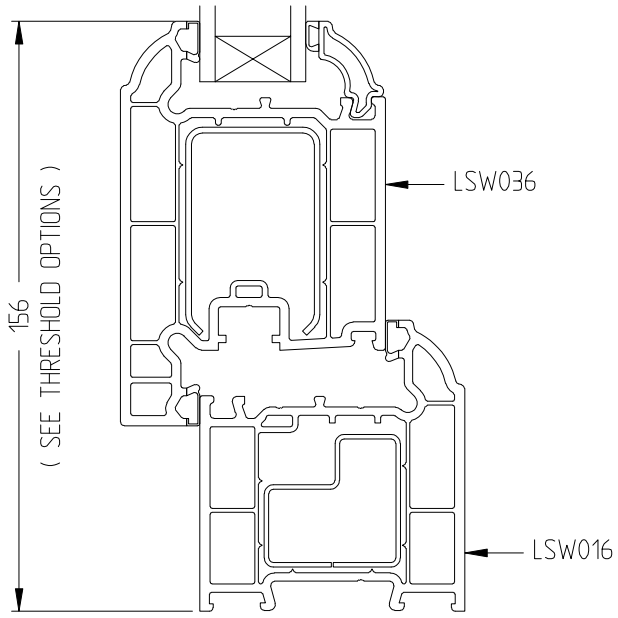


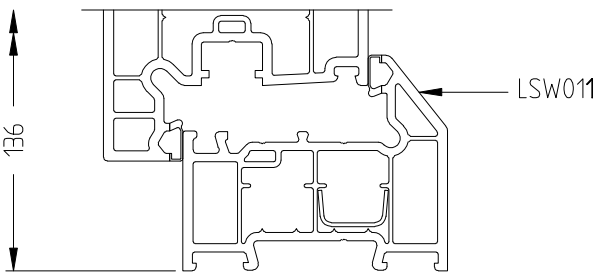
'Part M' Compliant
Low Threshold Option





Standard Low
Threshold Option



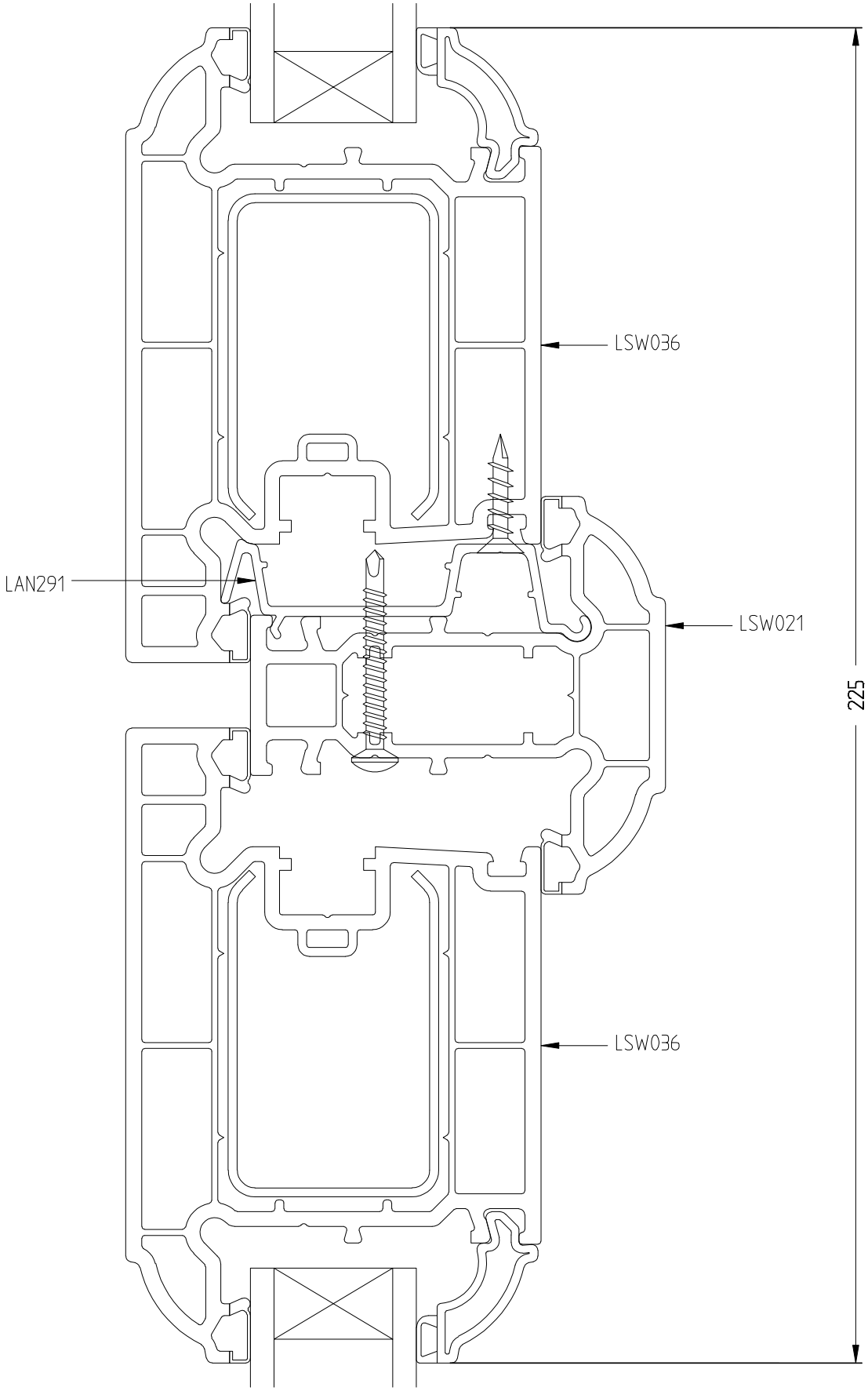


LSW011 Main Frame
Threshold Option

FRENCH DOOR

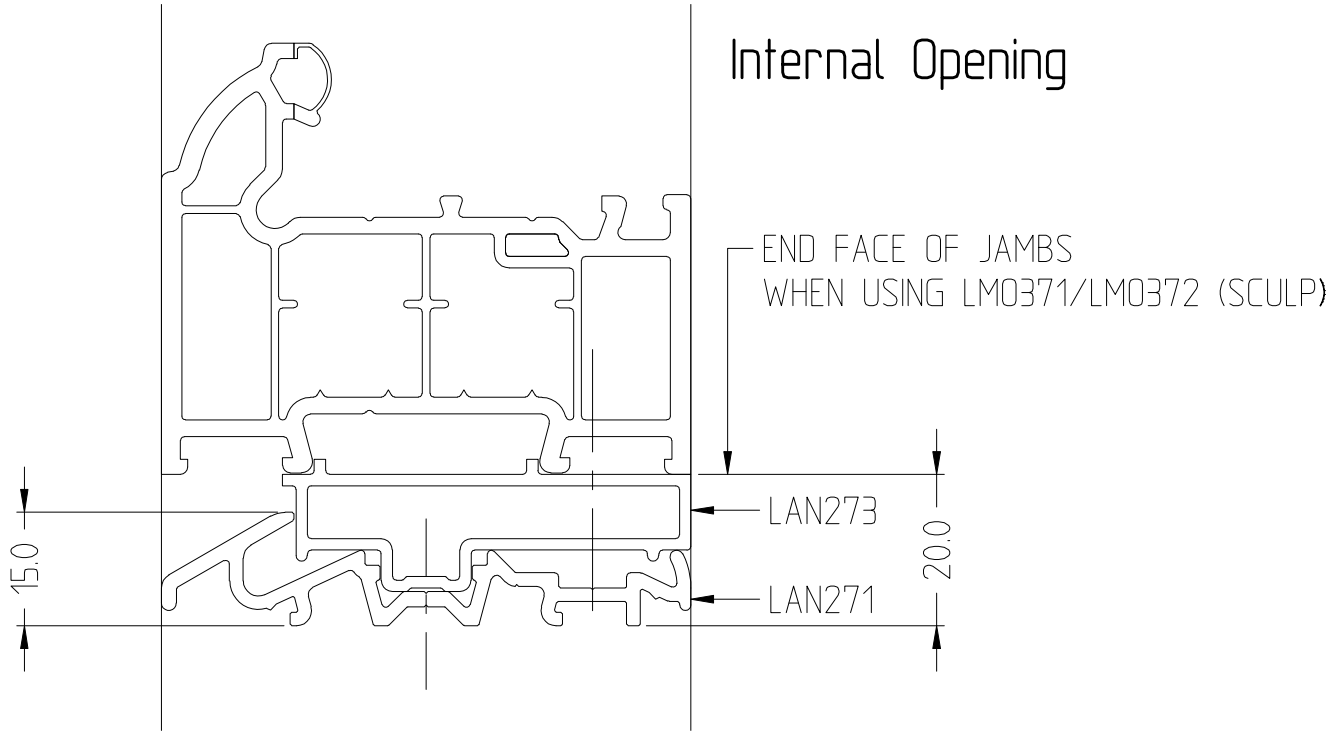
Meeting Stile Assembly

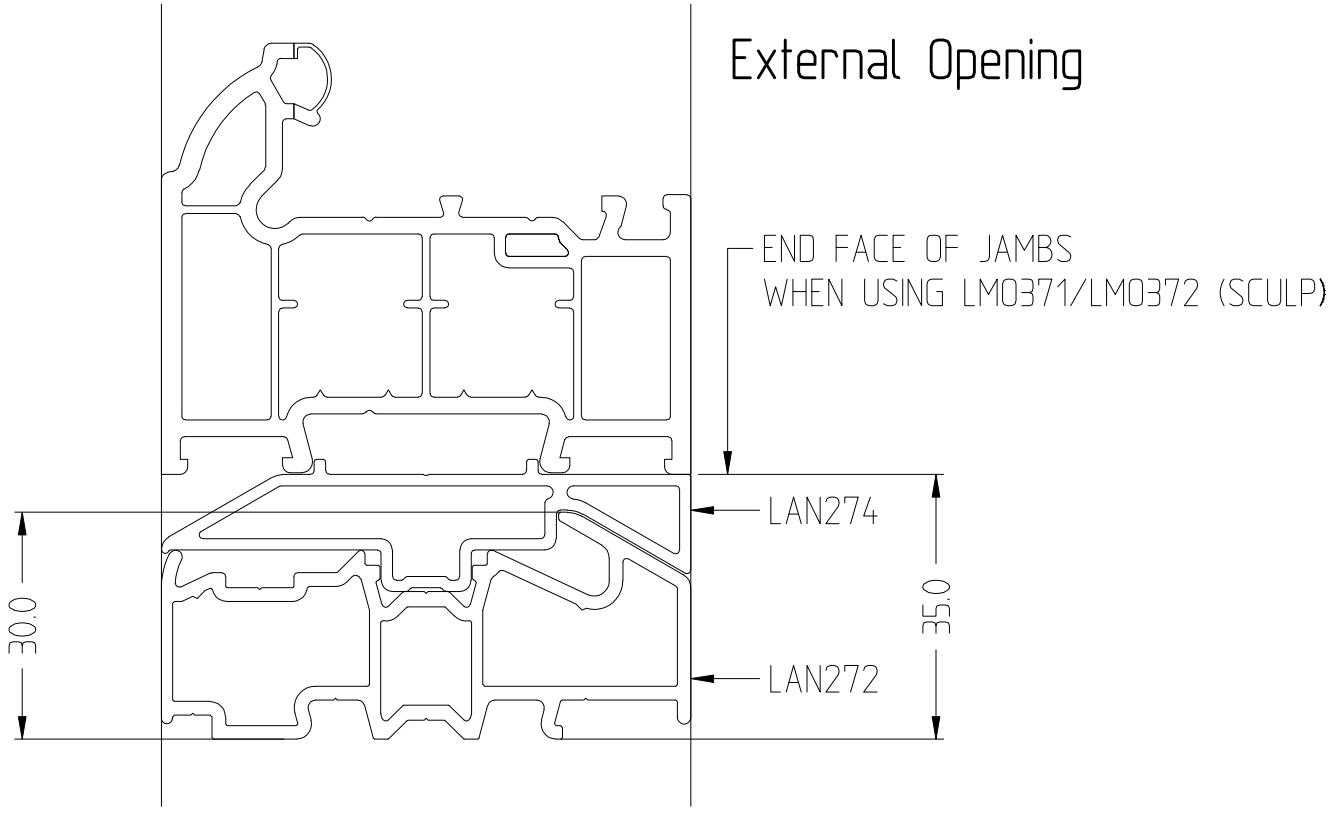
(re-inforcement shown for reference only)



THRESHOLD PACKER

Threshold Packer Assembly

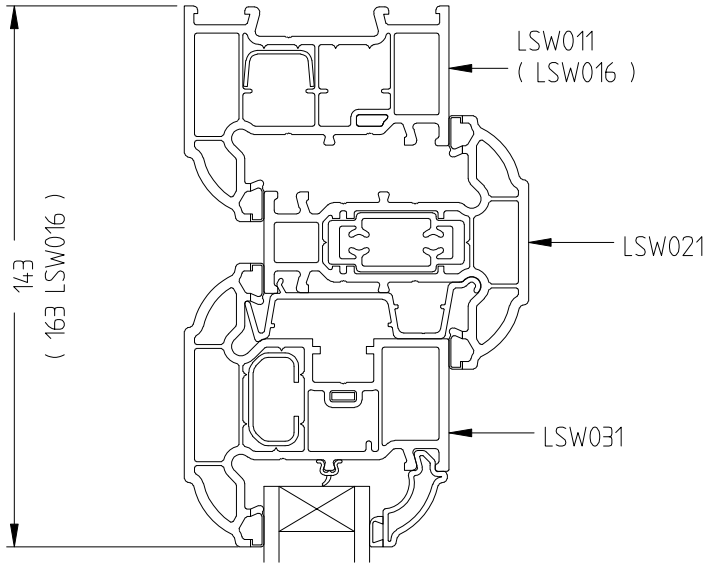


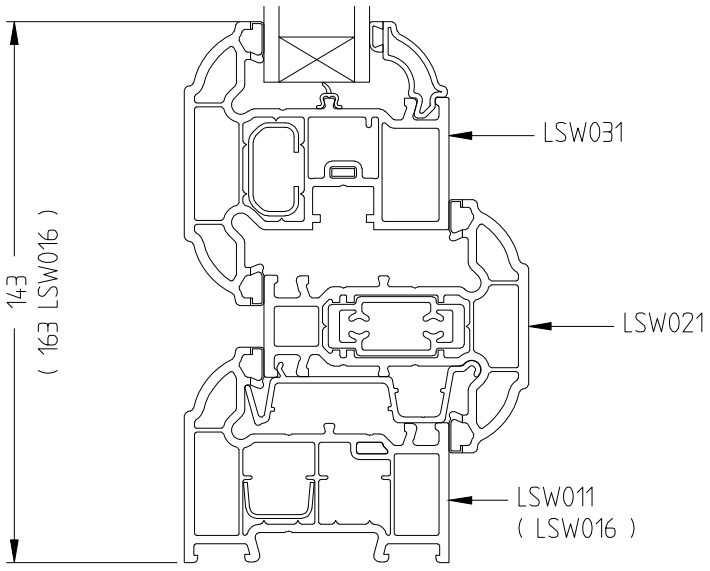


PIVOT WINDOW

Internally Glazed

(re-inforcement shown for reference only)

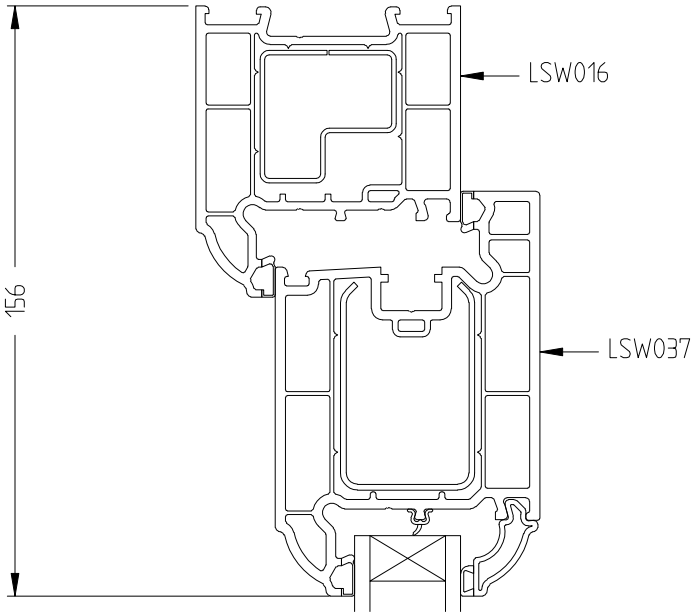


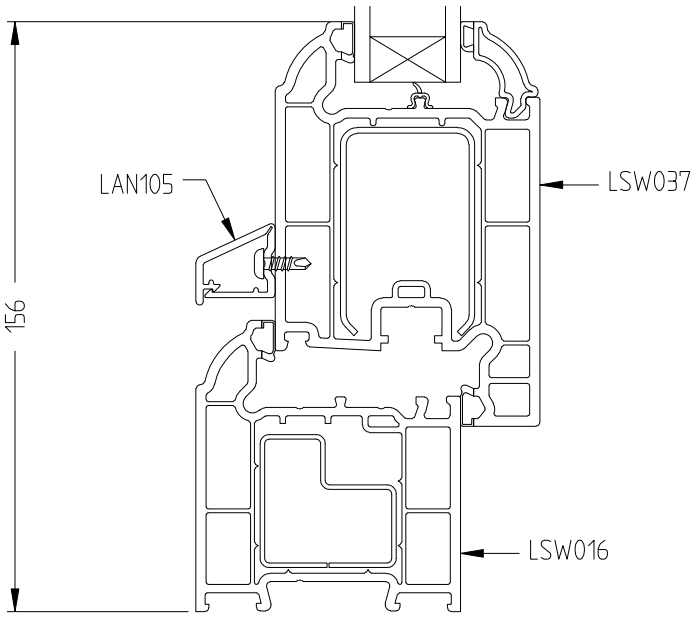


TILT + SLIDE PATIO DOOR

Internally Glazed

(re-inforcement shown for reference only)

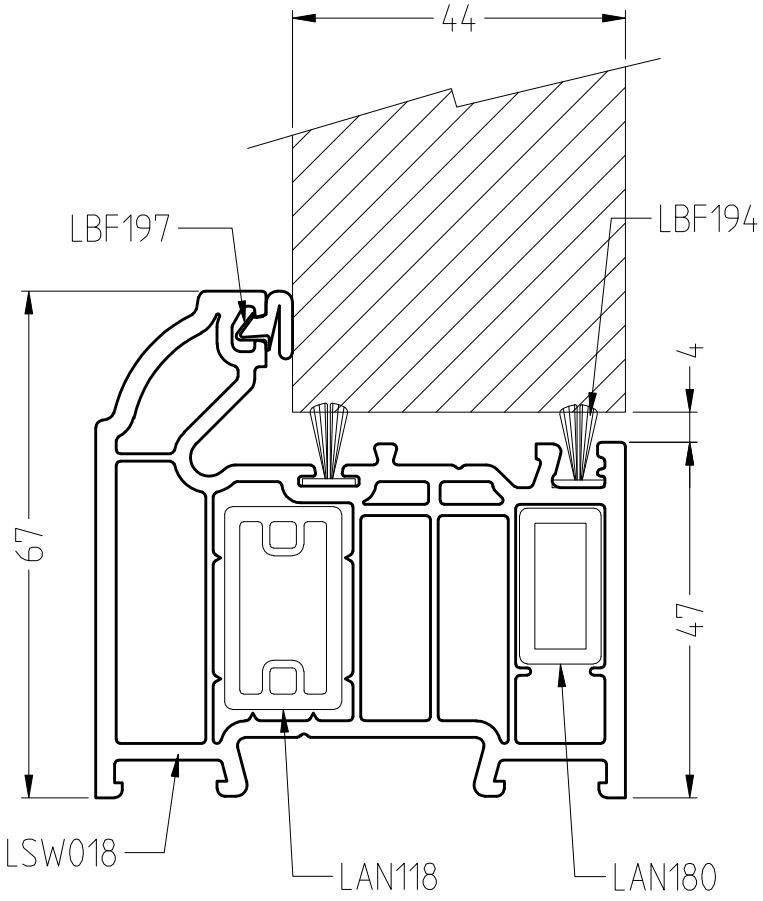


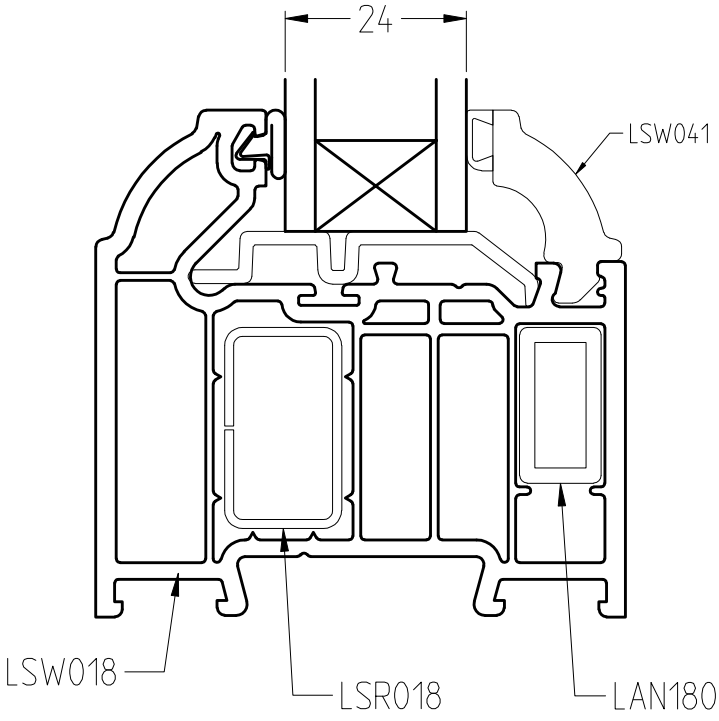


TYPICAL ASSEMBLIES

44mm Composite Door Outer Frame

(reinforcement shown for reference only)

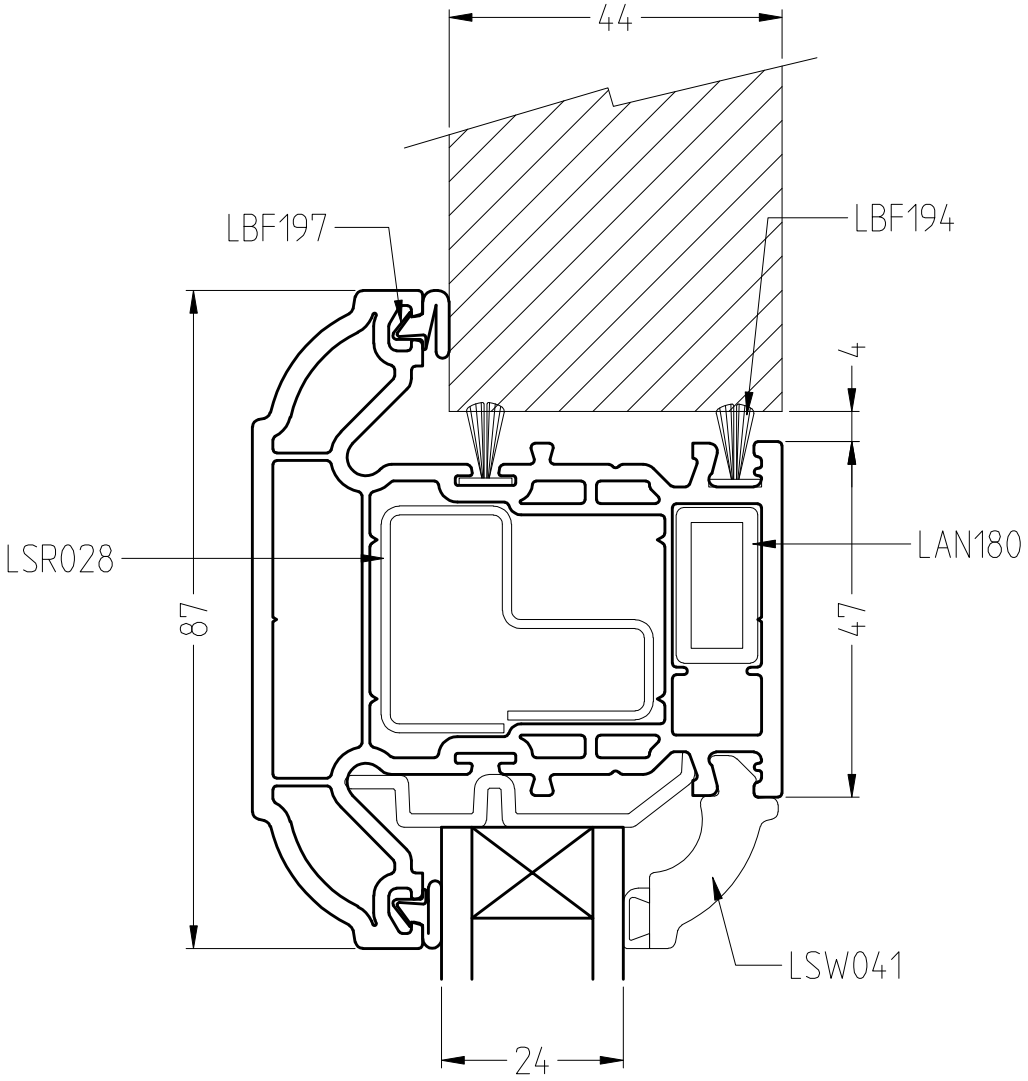




TYPICAL ASSEMBLIES

Composite Door Transom

(reinforcement shown for reference only)

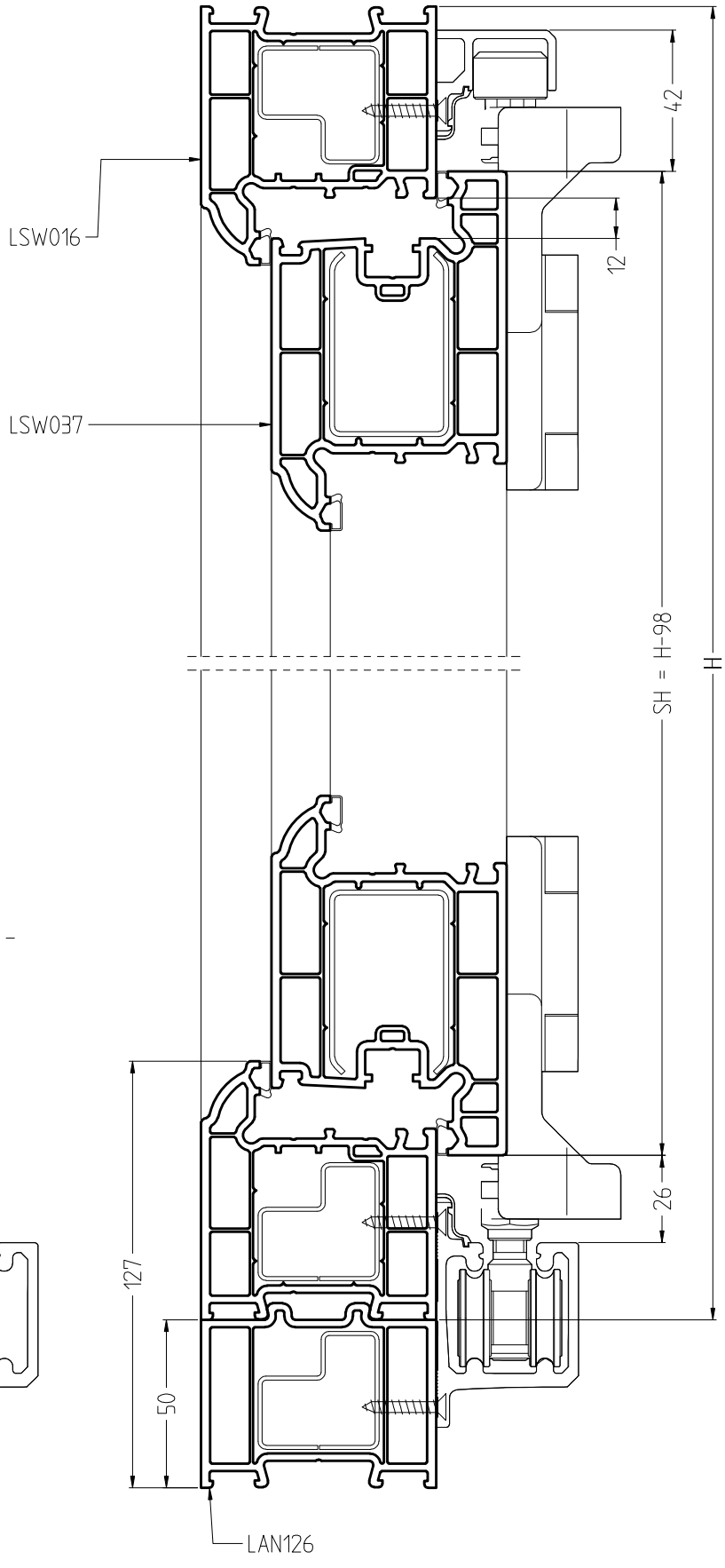


BI-FOLD DOOR

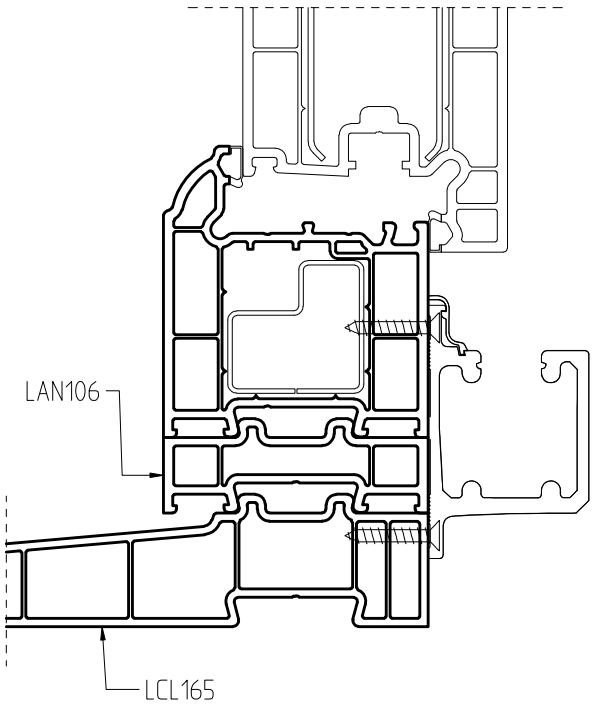
Vertical Section

Bottom Running

Siegenia hardware detailed in all instances

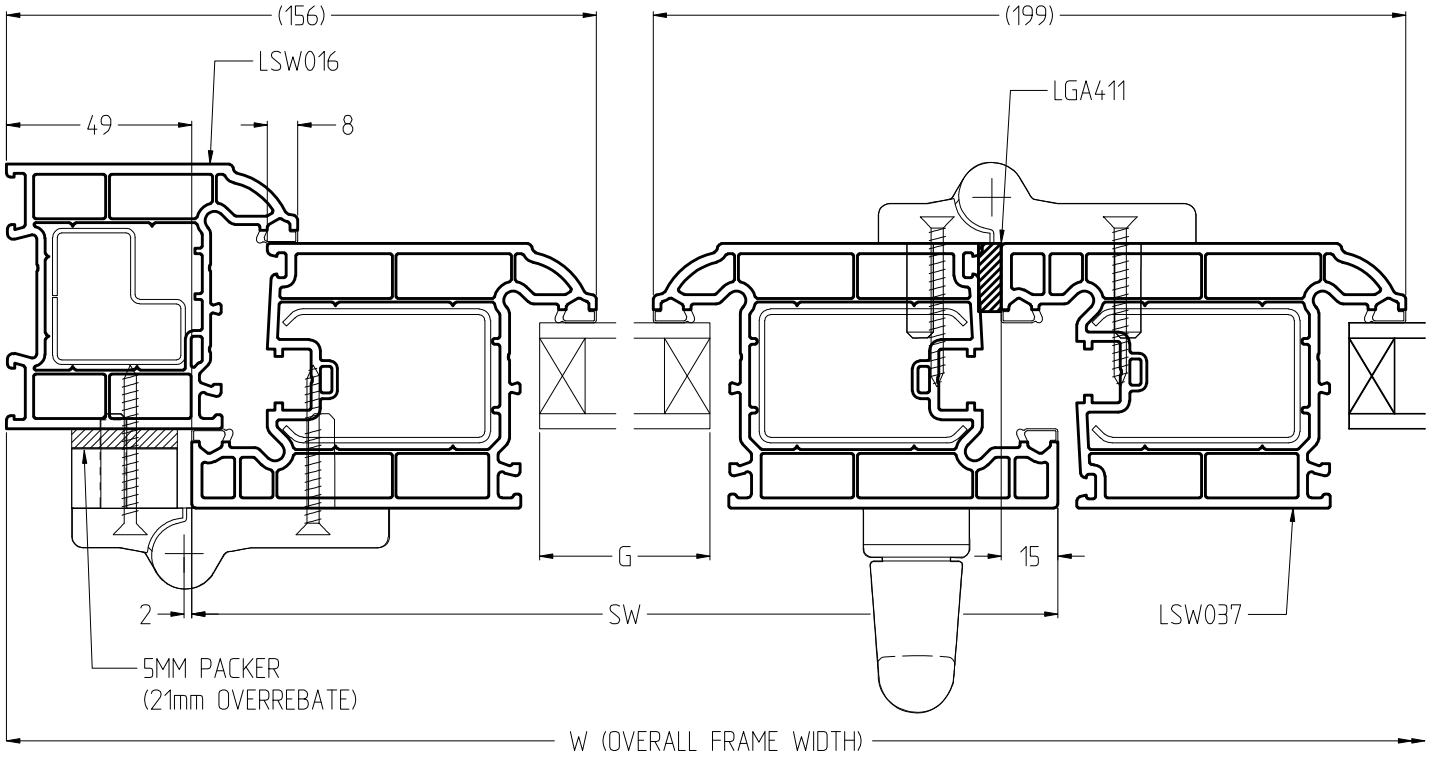


Cill Option

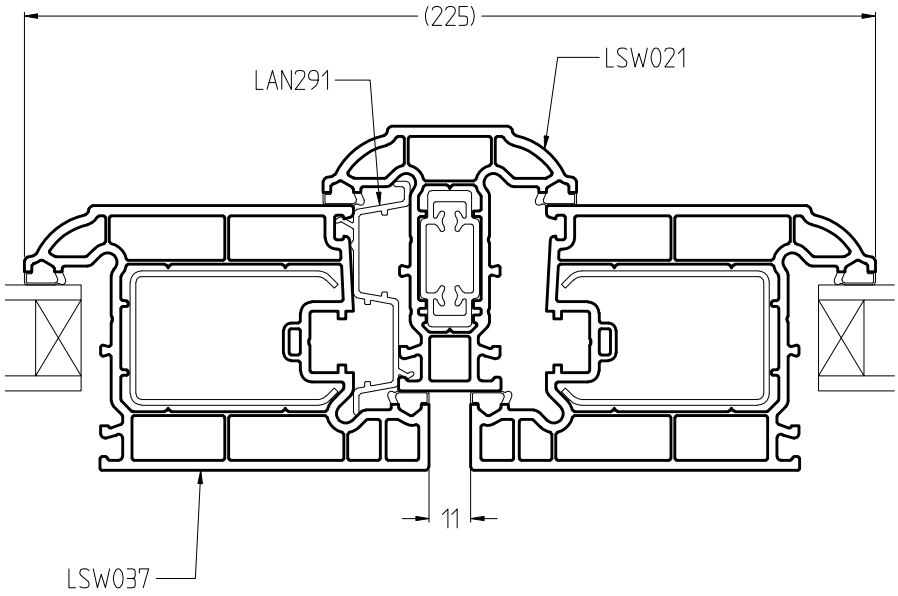


BI-FOLD DOOR

Horizontal Section

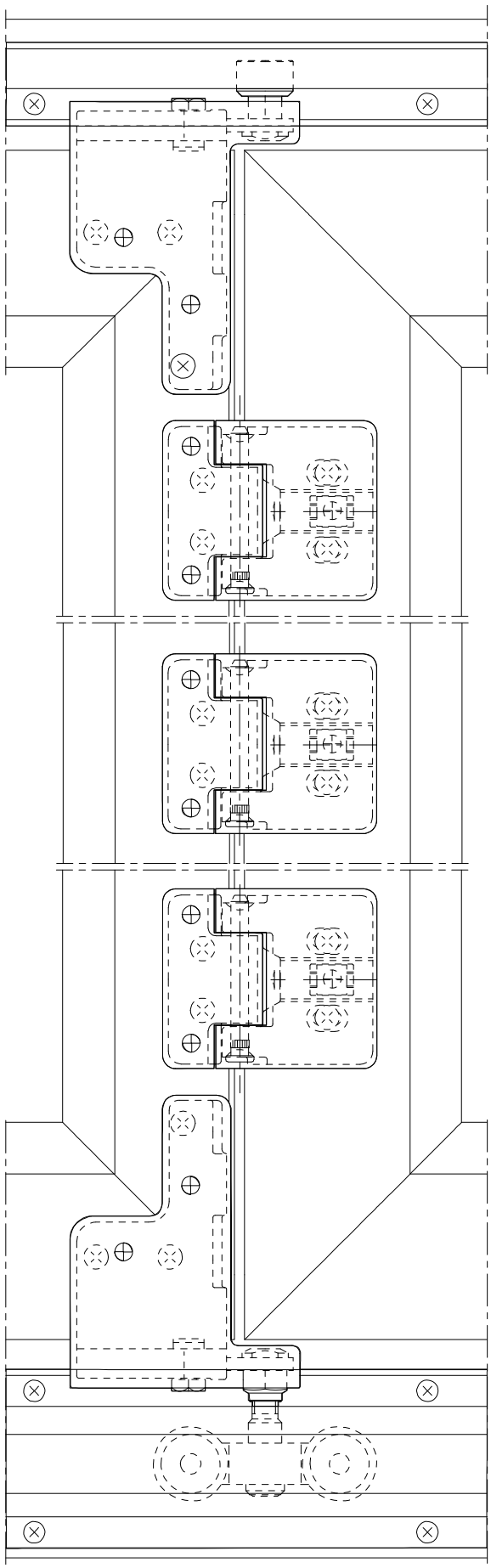


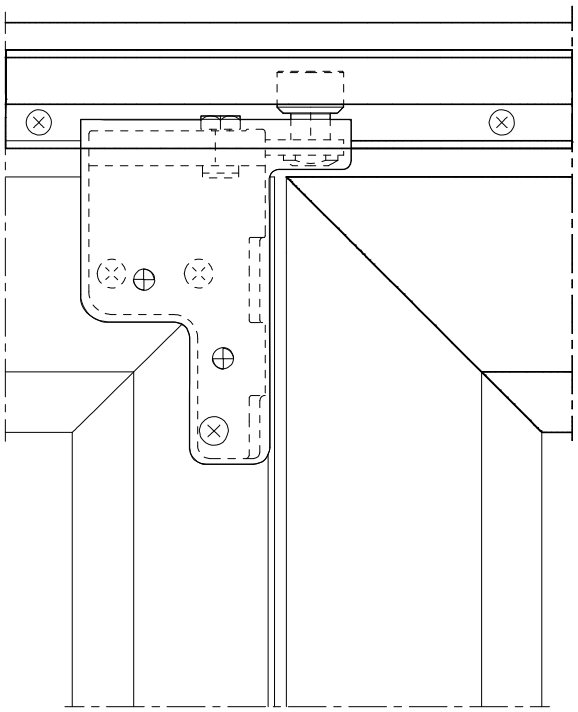
Meeting Stile

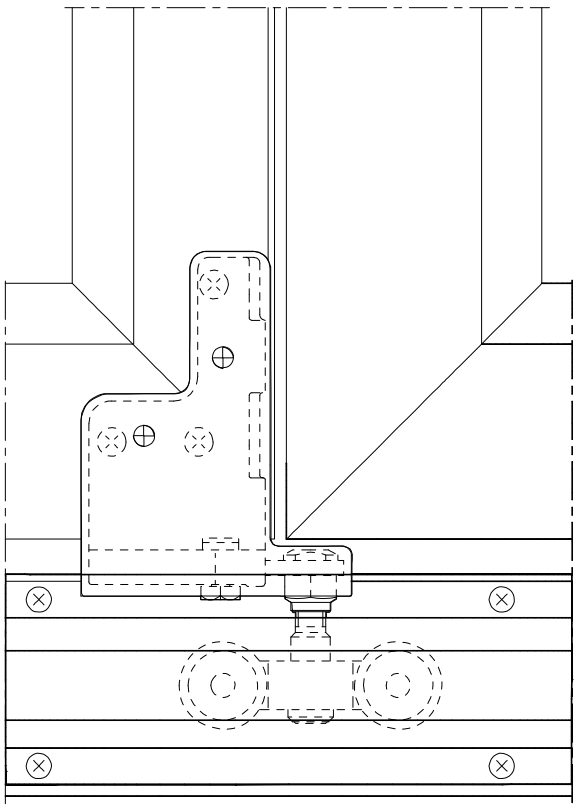


BI-FOLD DOOR

Hinge Positioning





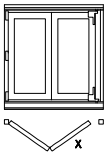


BI-FOLD DOOR

Width Deductions

Scheme 220

2 Folding sashes
0 Main opening sash

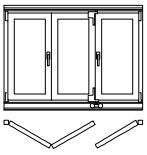


SW = ((W-83/2)-16
G = ((W-451/2)-16

SW(x) = ((W-83/2)+16
G(x) = ((W-451/2)+16

Scheme 321

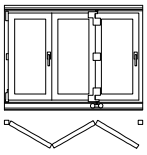
2 Folding sashes
1 Main opening sash



SW = (W-94/3)
G = (W-646/3)

Scheme 330

3 Folding sashes
0 Main opening sash



SW = (W-68/3)
G = (W-620/3)

Note:

All schemes can be made in opposite hand
Equal sash sizes unless otherwise stated

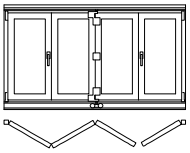
Schemes 220, 440 & 660 all require larger sash sizes noted at areas 'x' using specified cutting deductions SW(x) & G(x)

Key:

W - Frame Width
SW - Sash Width
G - Glass Size

Scheme 431

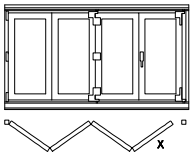
3 Folding sashes
1 Main opening sash



SW = (W-79/4)
G = (W-815/4)

Scheme 440

4 Folding sashes
0 Main opening sash

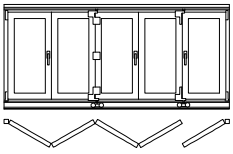


SW = ((W-53/4)-8
G = ((W-789/4)-8

SW(x) = ((W-53/4)+24
G(x) = ((W-789/4)+24

Scheme 541

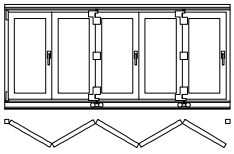
4 Folding sashes
1 Main opening sash



SW = (W-64/5)
G = (W-984/5)

Scheme 550

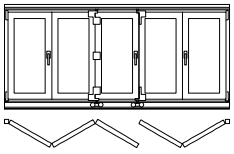
5 Folding sashes
0 Main opening sash



SW = (W-38/5)
G = (W-958/5)

Scheme 532

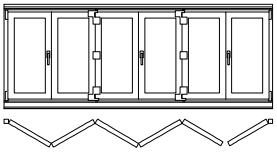
3+2 Folding sashes
0 Main opening sash



SW = (W-64/5)
G = (W-984/5)

Scheme 651

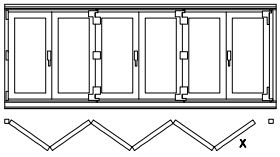
5 Folding sashes
1 Main opening sash



SW = (W-49/6)
G = (W-1153/6)

Scheme 660

6 Folding sashes
0 Main opening sash

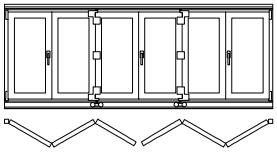


SW = ((W-23/6)-5.3
G = ((W-1127/6)-5.3

SW(x) = ((W-23/6)+26.6
G(x) = ((W-1127/6)+26.6

Scheme 633

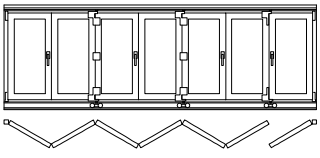
3+3 Folding sashes
0 Main opening sash



SW = (W-49/6)
G = (W-1153/6)

Scheme 761

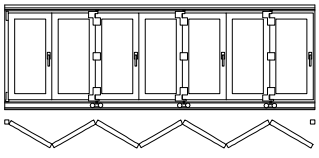
6 Folding sashes
1 Main opening sash



SW = (W-34/7)
G = (W-1322/7)

Scheme 770

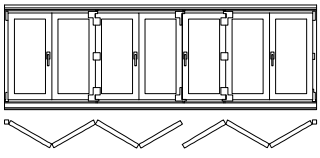
7 Folding sashes
0 Main opening sash



SW = (W-8/7)
G = (W-1296/7)

Scheme 743

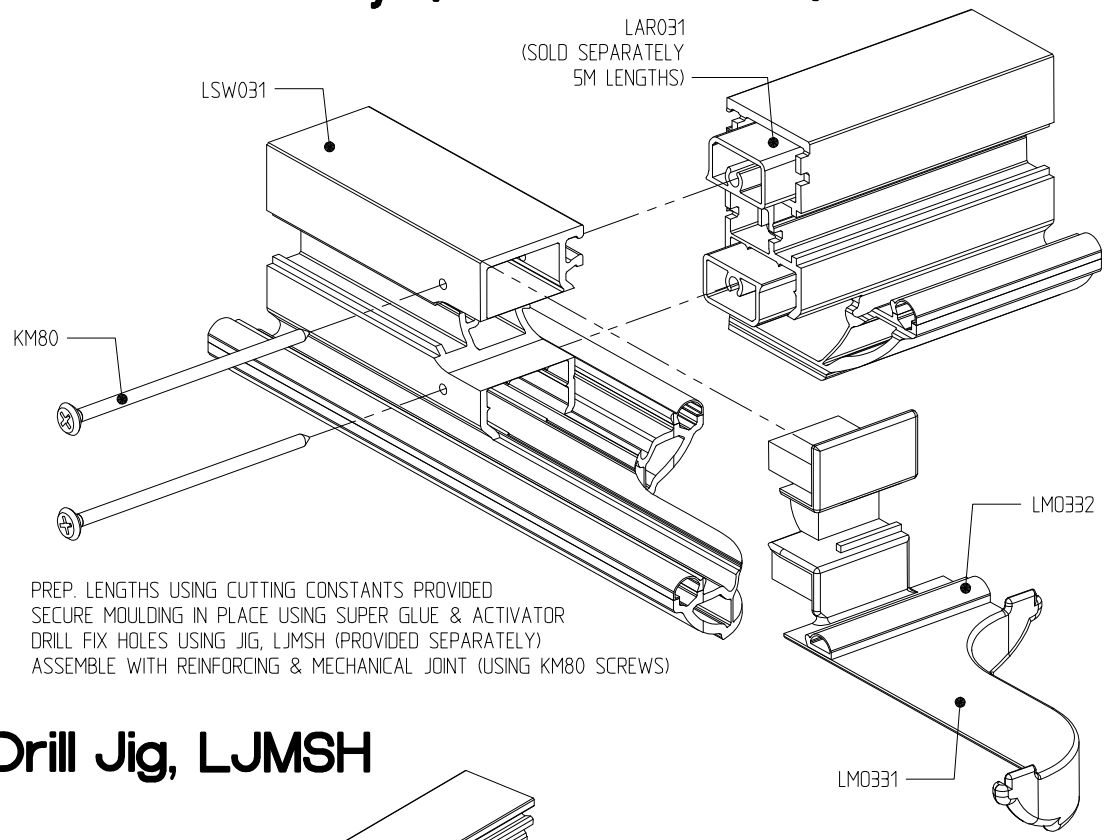
4+3 Folding sashes
0 Main opening sash



SW = (W-34/7)
G = (W-1322/7)

MOCK SASH HORN KIT, LK001

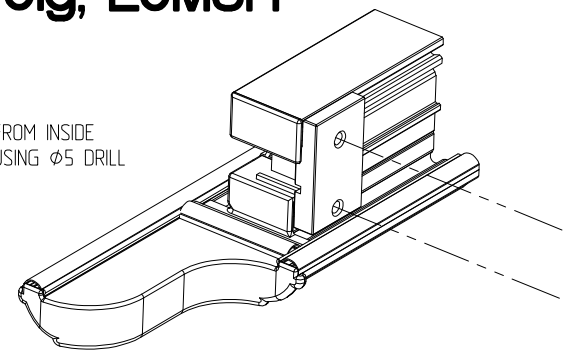
Mech. Joint Assy. (Recommended)



- PREP. LENGTHS USING CUTTING CONSTANTS PROVIDED
- SECURE MOULDING IN PLACE USING SUPER GLUE & ACTIVATOR
- DRILL FIX HOLES USING JIG, LJMSH (PROVIDED SEPARATELY)
- ASSEMBLE WITH REINFORCING & MECHANICAL JOINT (USING KM80 SCREWS)

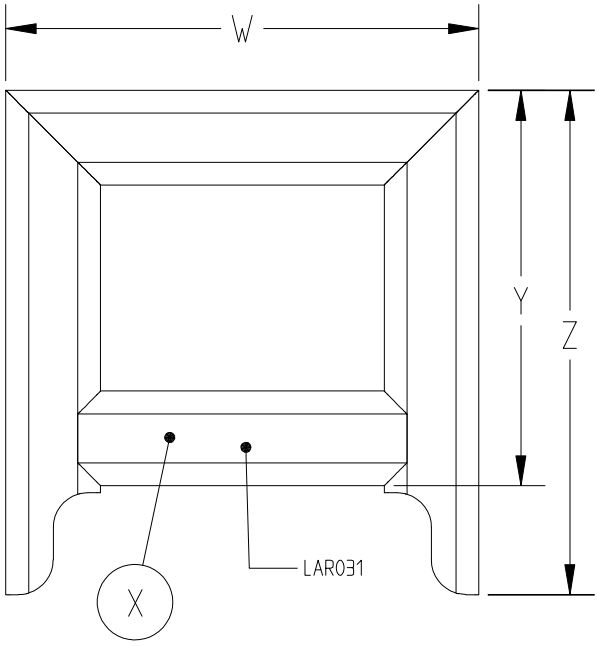
Drill Jig, LJMSH

- DRILL FROM INSIDE FACE USING ⌀5 DRILL



Cutting Constants

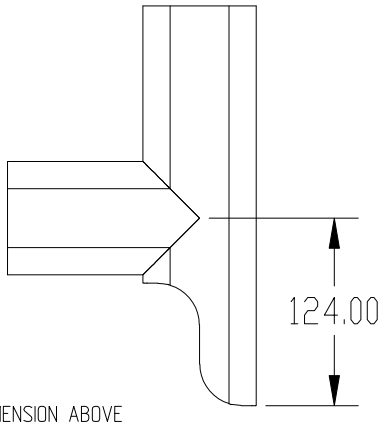
MECH. JOINT



X = W - 104
Z = Y + 86.5 + 2.5 WELD ALLOWANCE
LAR031 = W - 160

X & Y - FINISHED SIZES OF SASH

WELDING ASSEMBLY



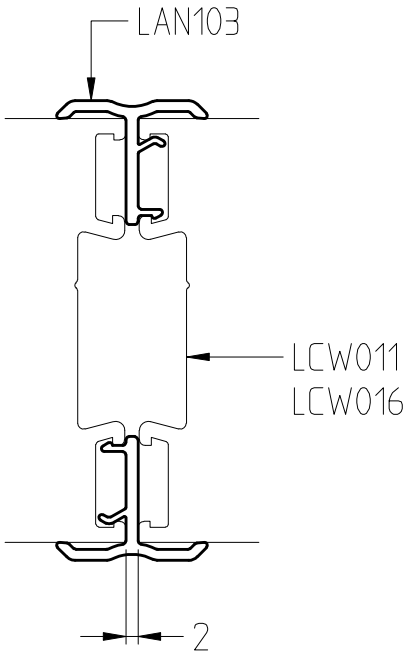
- V-NOTCH AT DIMENSION ABOVE
- WELD SASH(s) TOGETHER
- SECURE MOULDING IN PLACE USING SUPER GLUE & ACTIVATOR

Cutting Constants

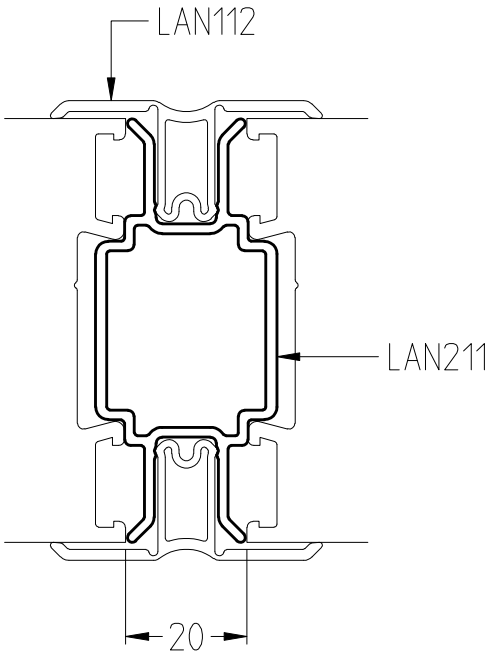
- 1ST CUT OF BOTTOM RAIL = TOP RAIL SIZE

JOINT ASSEMBLIES

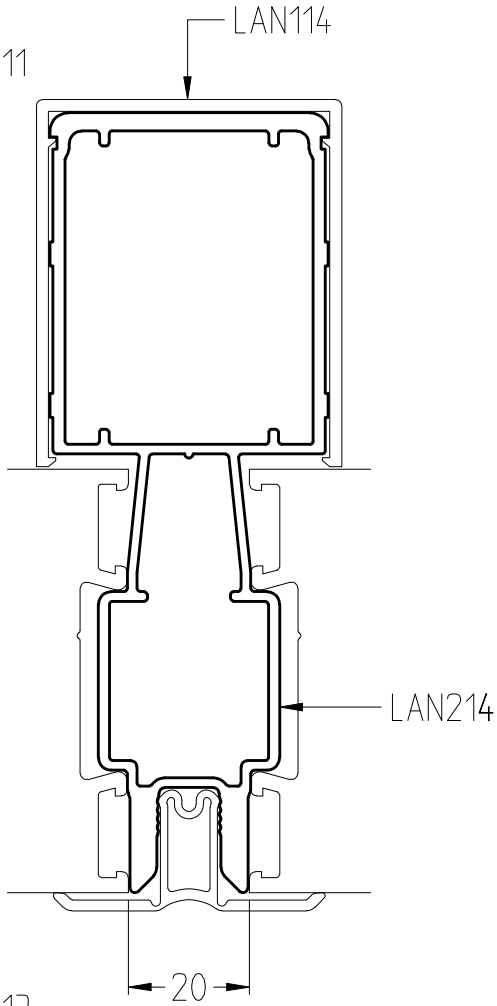
Butt Joints



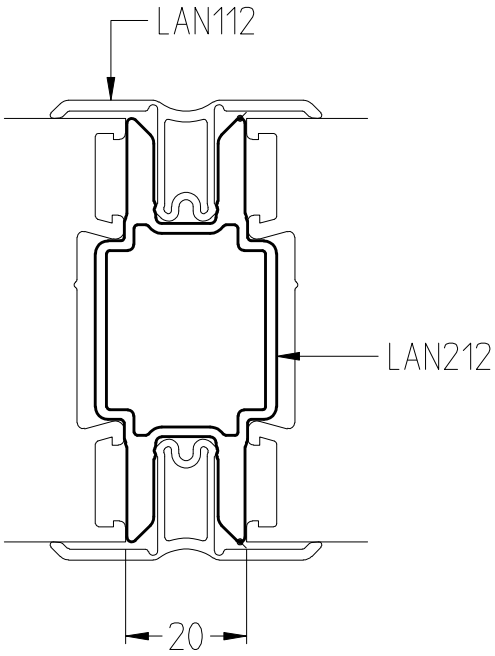
PVCu Joint



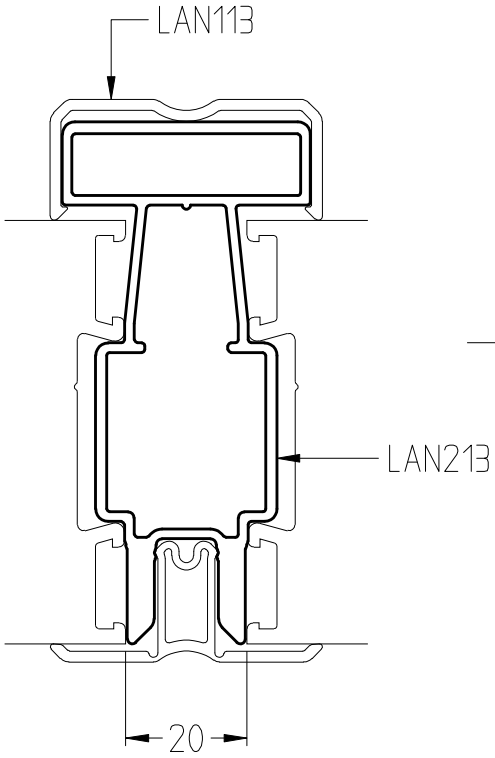
Standard
Butt Joint



Structural
Butt Joint



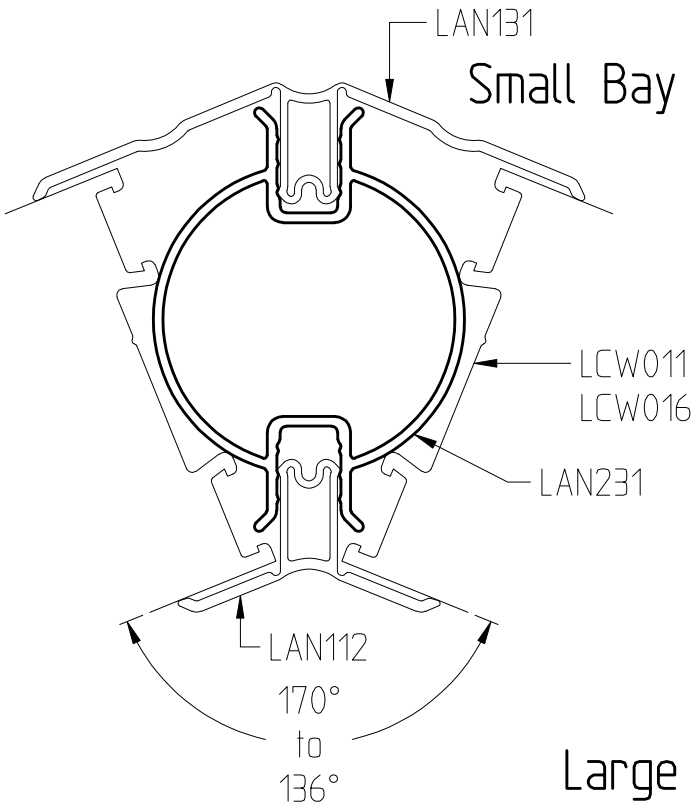
Medium Duty
Butt Joint



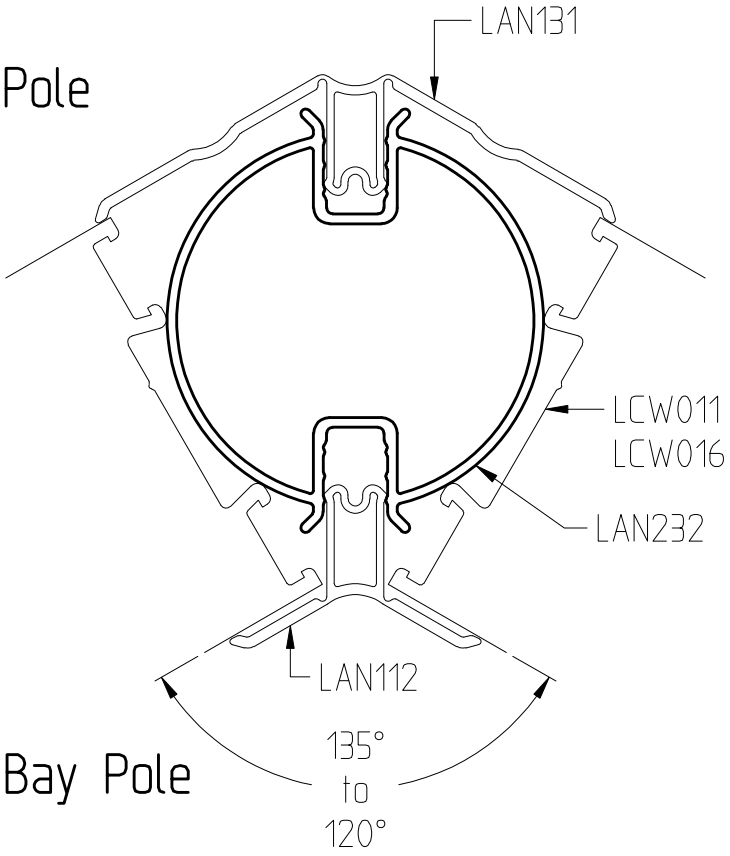
Heavy Duty
Butt Joint

JOINT ASSEMBLIES

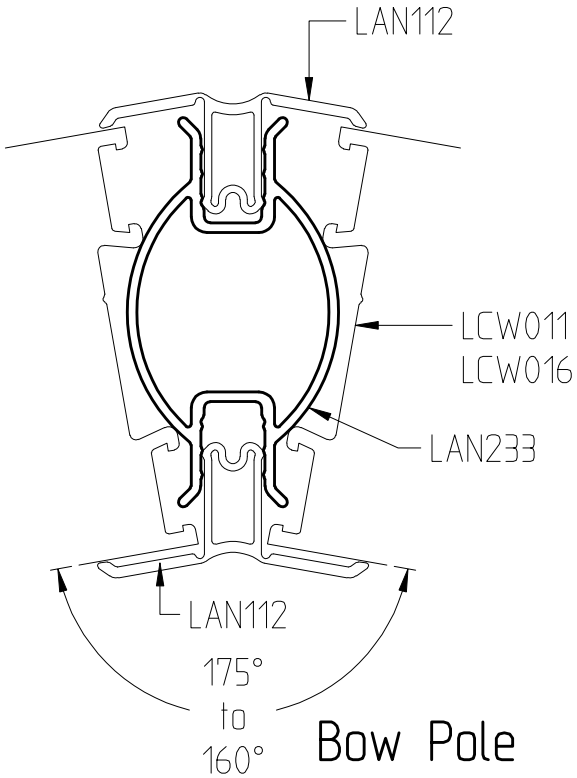
Variable Joints



Small Bay Pole

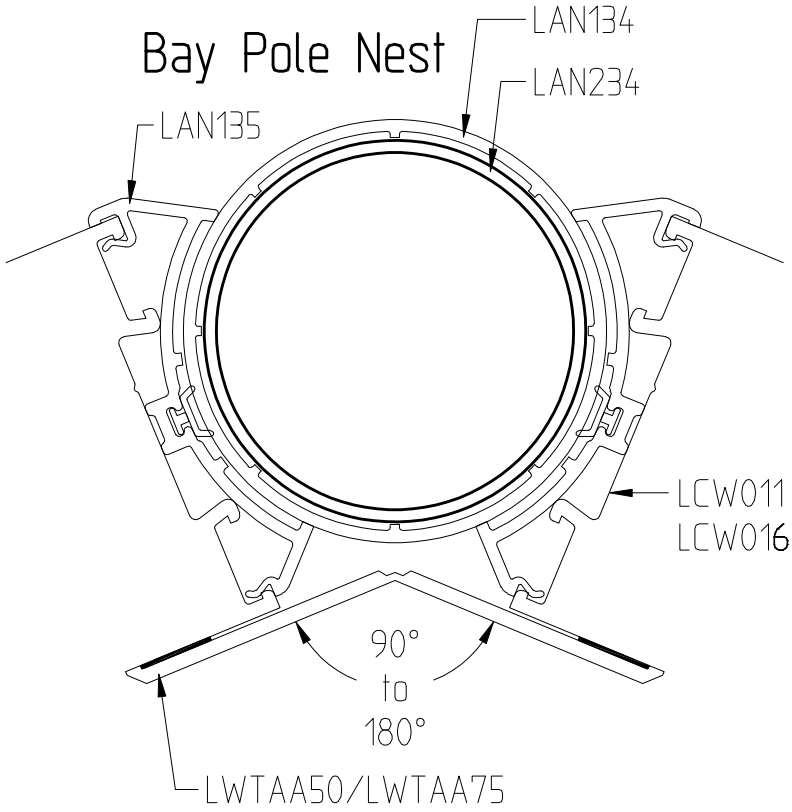


Large Bay Pole



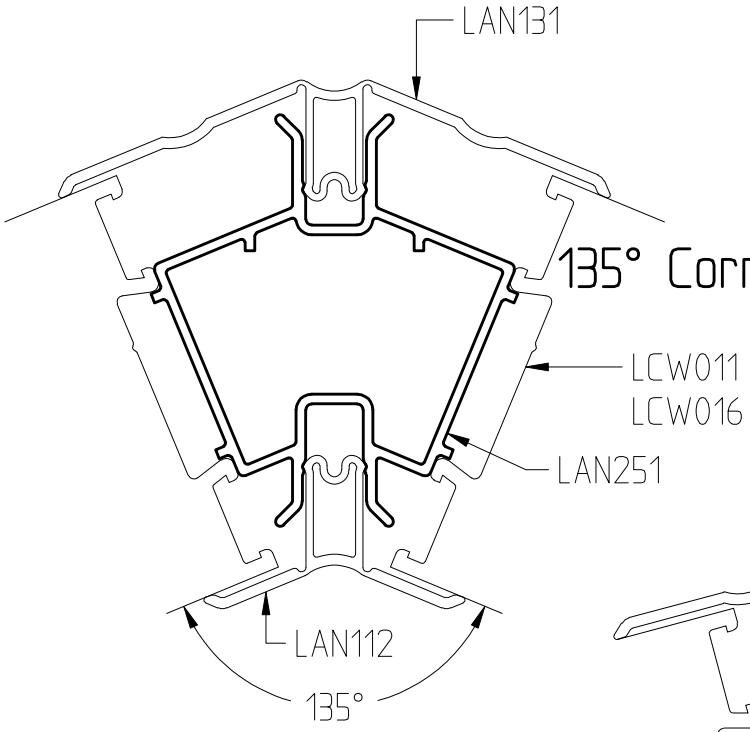
Bow Pole

Bay Pole Nest

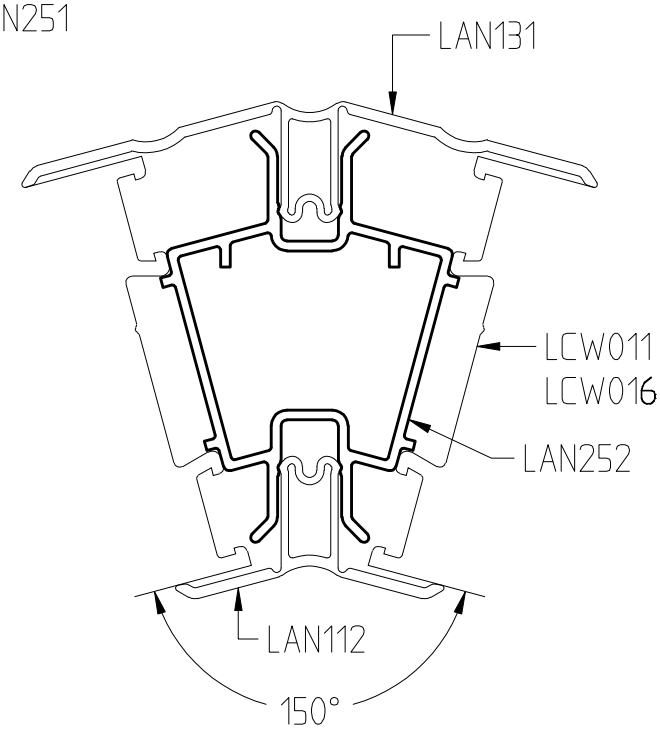


JOINT ASSEMBLIES

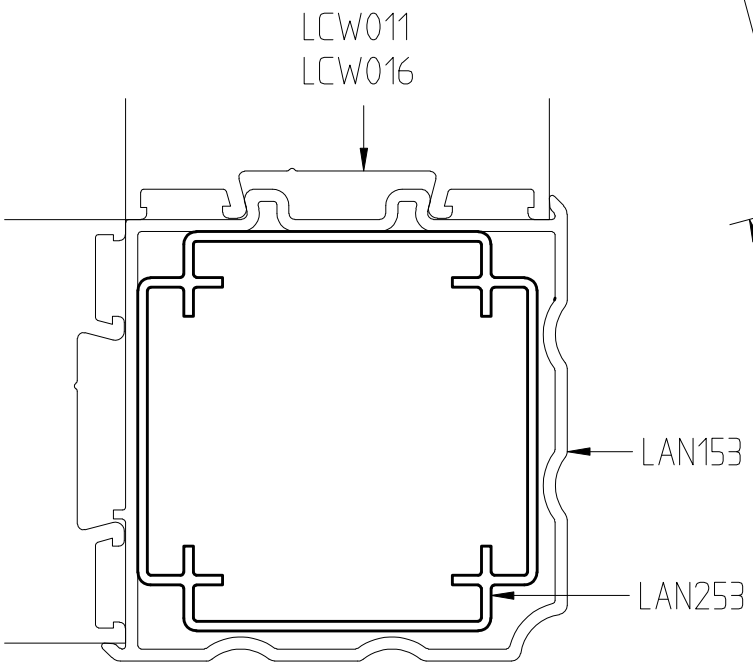
Fixed Joints



135° Corner Joint



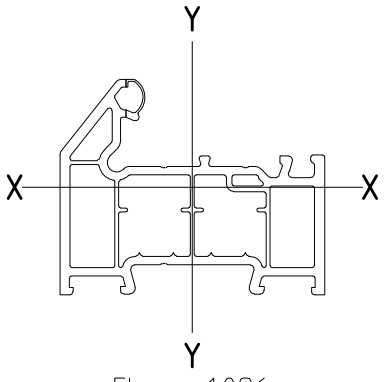
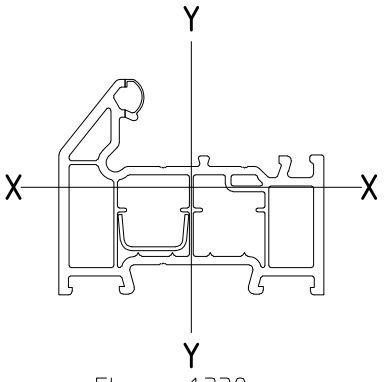
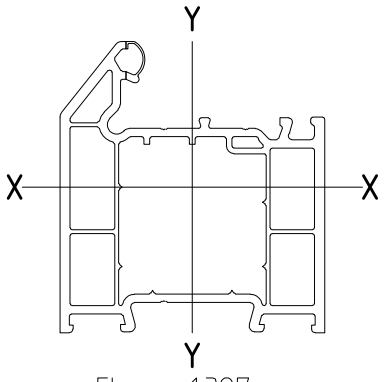
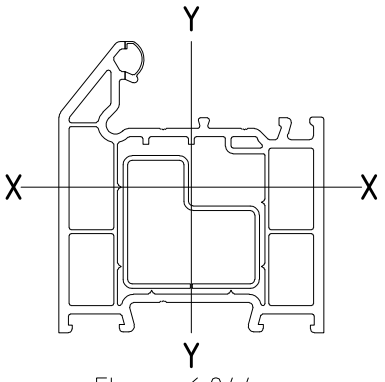
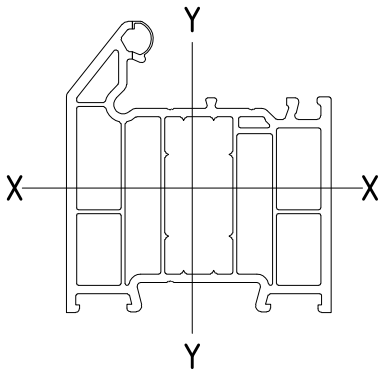
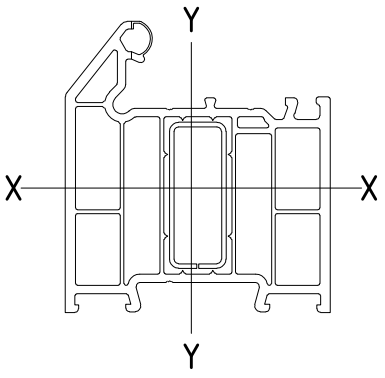
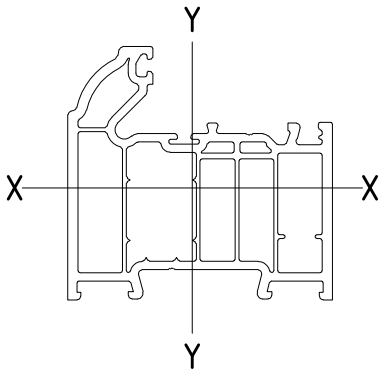
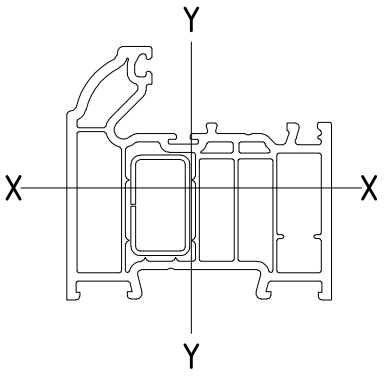
150° Corner Joint



90° Corner Post

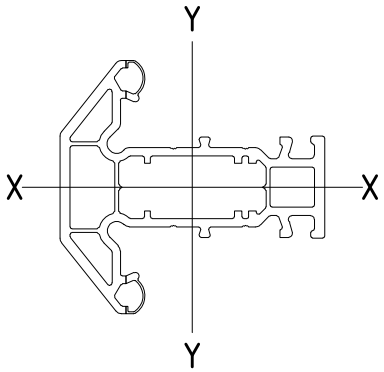
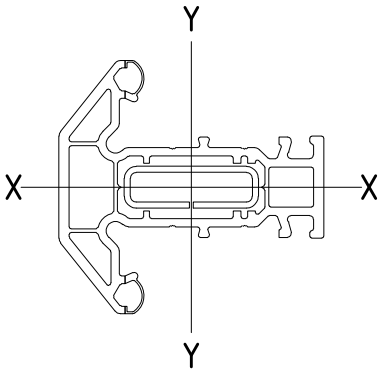
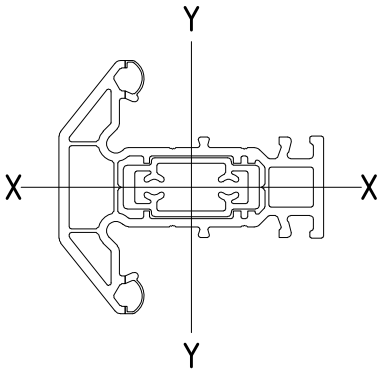
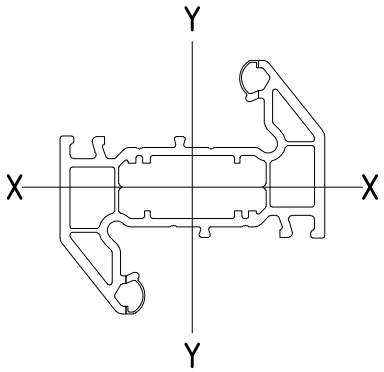
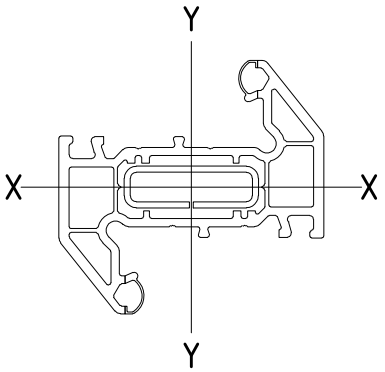
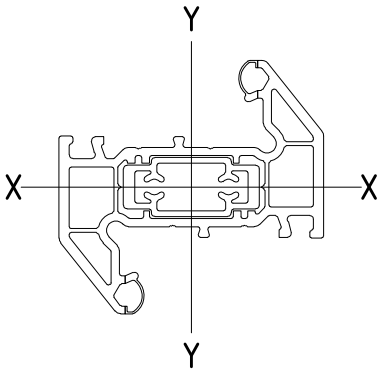
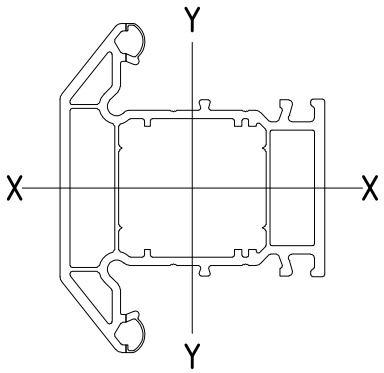
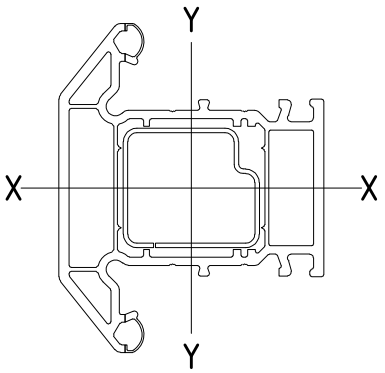
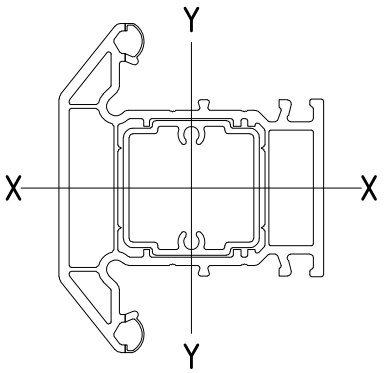
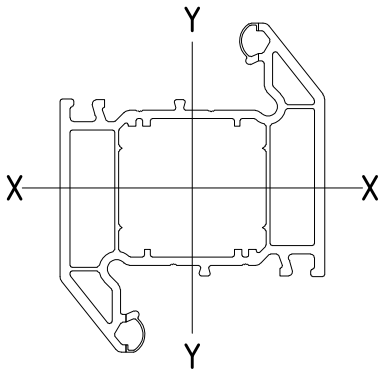
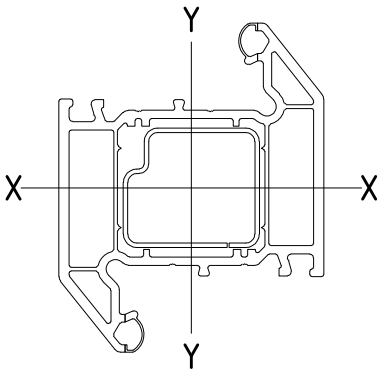
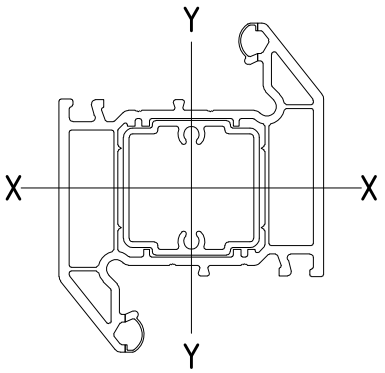
WIND LOADING

$x10^{9} N/mm^{2}$

		STEEL	ALUM
LCW011	 Elyy = 1.026 (LSW012 = 1.044)	 Elyy = 1.338	n/a
LCW016	 Elyy = 1.397	 Elyy = 6.844	n/a
LCW017	 Elyy = 1.412	 Elyy = 2.360	n/a
LSW018	 Elyy = 1.233	 Elyy = 1.947	n/a

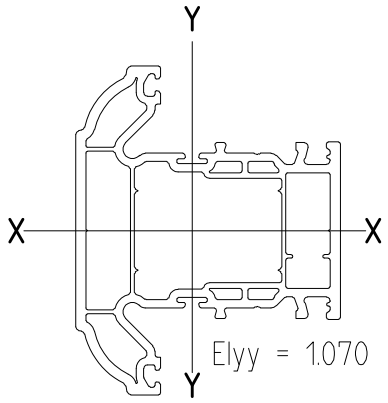
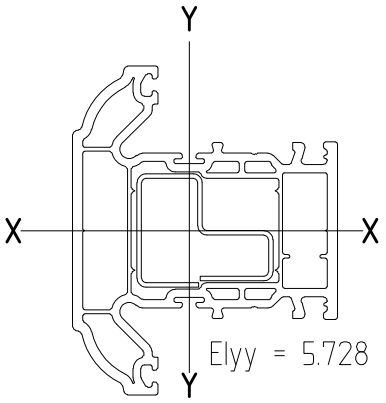
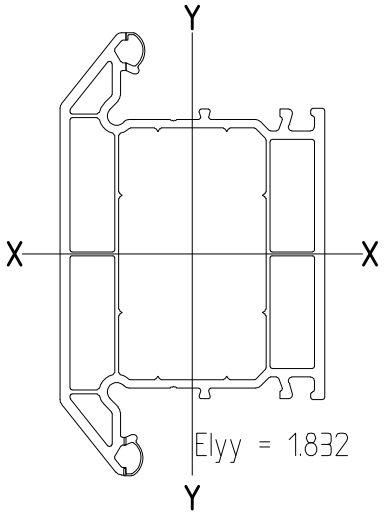
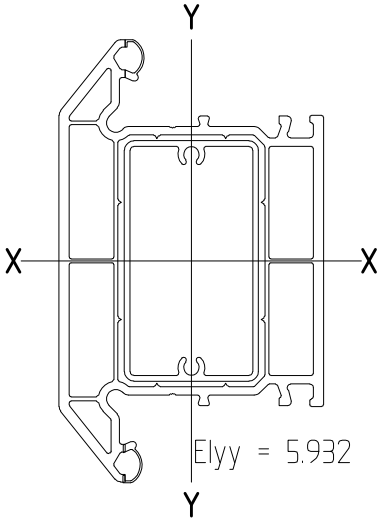
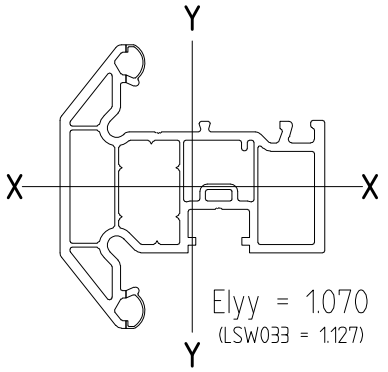
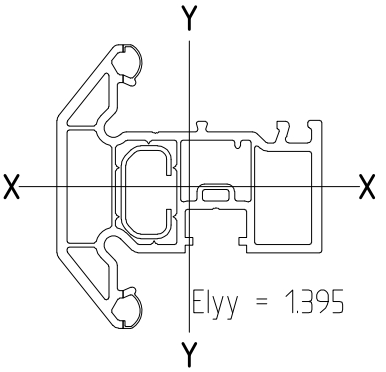
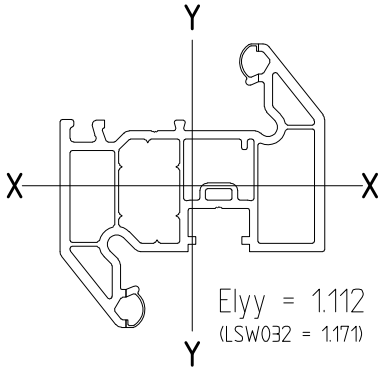
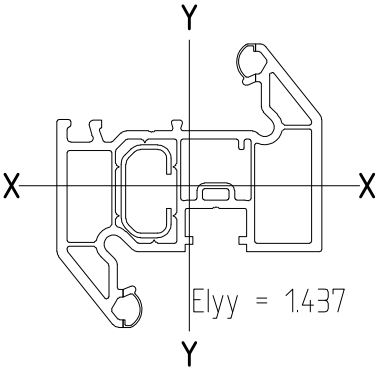
WIND LOADING

$x10^{9} N/mm^{2}$

		STEEL	ALUM
LCW021	 Elyy = 0.961	 Elyy = 4.425	 Elyy = 2.961
LCW022	 Elyy = 1.003	 Elyy = 4.467	 Elyy = 3.003
LCW026	 Elyy = 1.300	 Elyy = 6.631	 Elyy = 3.724
LCW027	 Elyy = 1.335	 Elyy = 6.666	 Elyy = 3.759

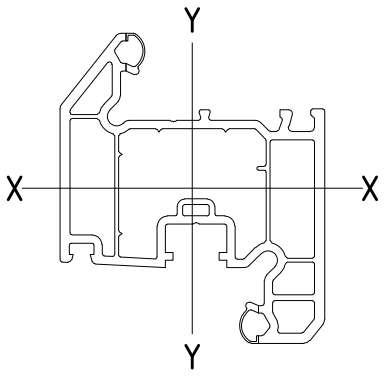
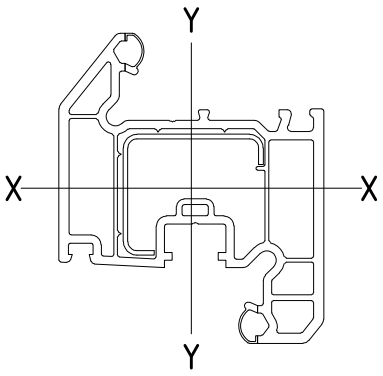
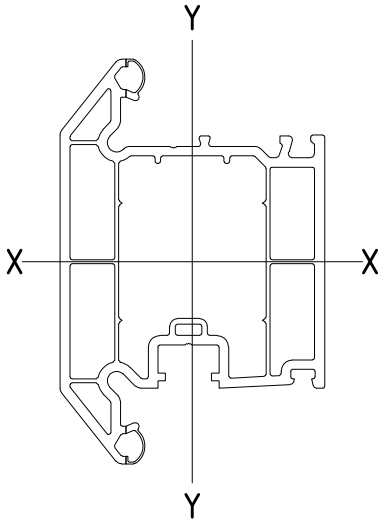
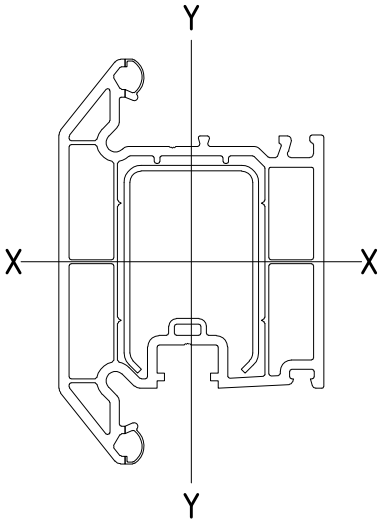
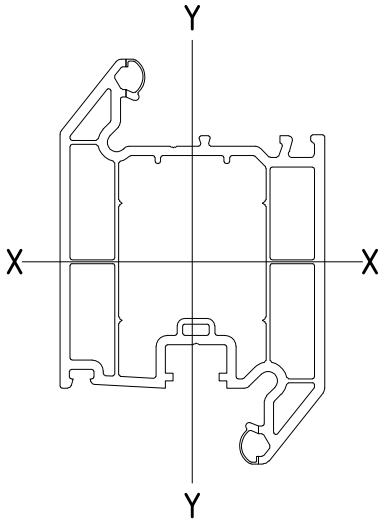
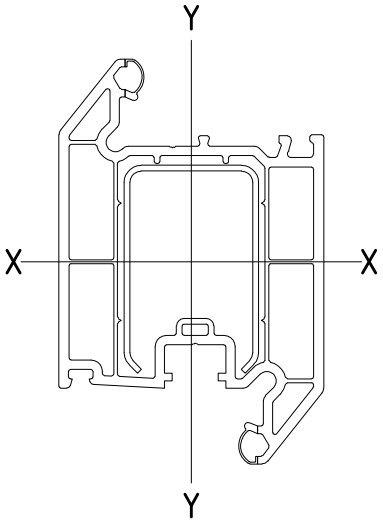
WIND LOADING

$x10^{9} N/mm^{2}$

		STEEL	ALUM
LSW028			n/a
LCW029		n/a	
LCW031			n/a
LCW032			n/a

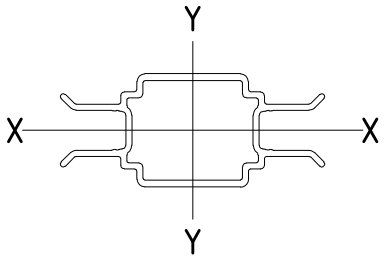
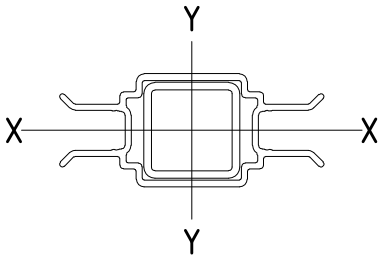
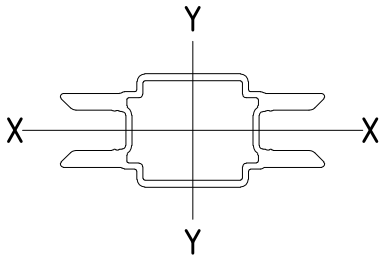
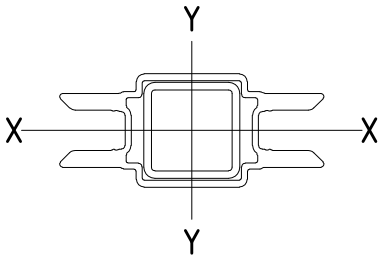
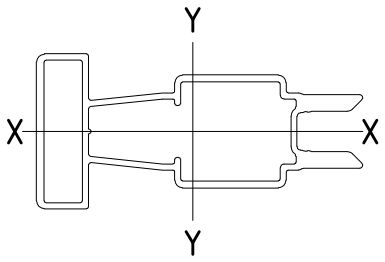
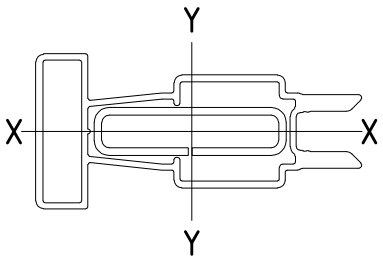
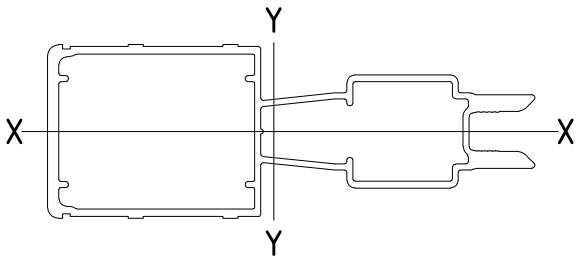
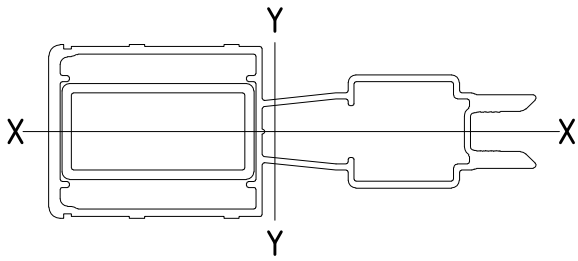
WIND LOADING

$x10^{9} N/mm^{2}$

		STEEL	ALUM
LCW035	 Elyy = 1.346	 Elyy = 4.563	n/a
LCW036	 Elyy = 1.703	 Elyy = 12.023	n/a
LCW037	 Elyy = 1.739	 Elyy = 12.059	n/a

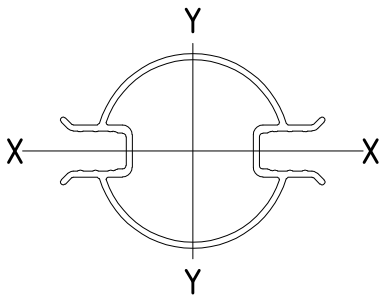
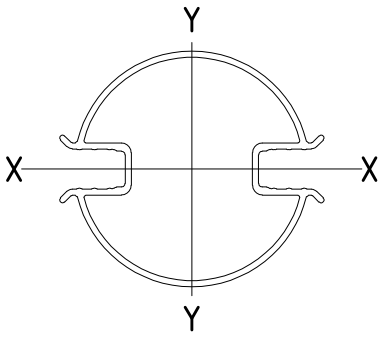
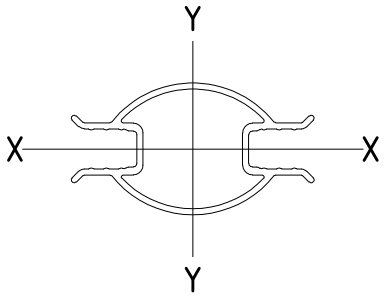
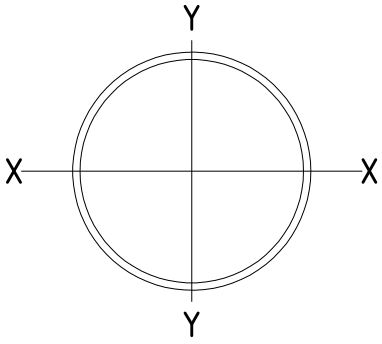
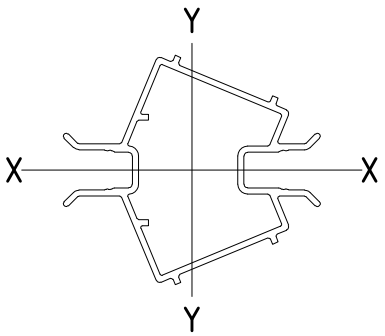
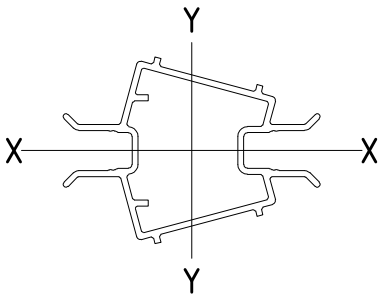
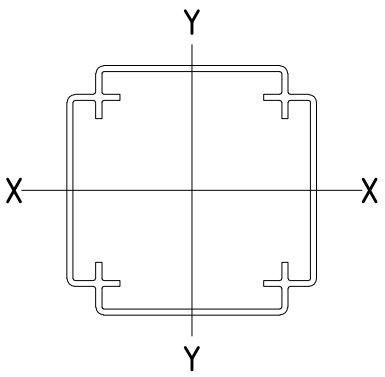
WIND LOADING

$x10^{9} N/mm^{2}$

		STEEL
LAN211	 Elyy = 8.008	 Elyy = 11.325
LAN212	 Elyy = 14.820	 Elyy = 18.137
LAN213	 Elyy = 31.365	 Elyy = 43.251
LAN214	 Elyy = 100.20	 Elyy = 123.3

WIND LOADING

$x10^{9} N/mm^{2}$

LAN231	 Elyy = 9.878	LAN232	 Elyy = 13.118
LAN233	 Elyy = 6.750	LAN234	 Elyy = 11.759
LAN251	 Elyy = 9.537	LAN252	 Elyy = 8.762
LAN253	 Elyy = 19.079		

LOAD BEARING CAPACITY OF JOINT PROFILES

The following 'Load Tables' have been calculated in accordance with BPF Code of Practice for the Survey and Installation of White High Impact uPVC Windows, and are only applicable for those joint profiles restrained at their centre, for example by means of adjacent windows.

The 'Load Tables' must not be applied to those joint profiles used in isolation.

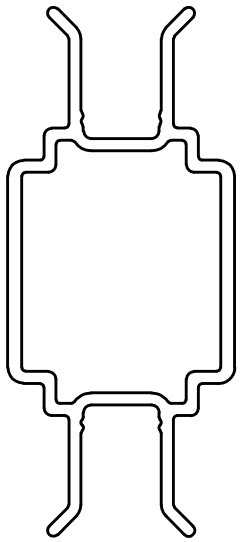
These tables should be used for guidance only.

N/A - joint profile IS NOT suitable for load bearing situations at this length and above.

Consult - joint profile IS suitable for load bearing situations at this length and above. Consult the Liniar Design Office

LOAD BEARING CAPACITY

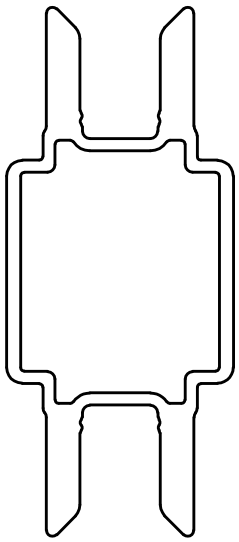
LAN211



can be used with Butt Joint Jack LAN311

LENGTH mm	LOAD tonnes
500	2.49
600	2.34
700	2.24
800	2.16
900	2.04
1000	1.92
1100	1.79
1200	1.62
1300	1.38
1400	1.18
1500	1.06
1600	0.94
1700	0.83
1800	N/A

LAN212

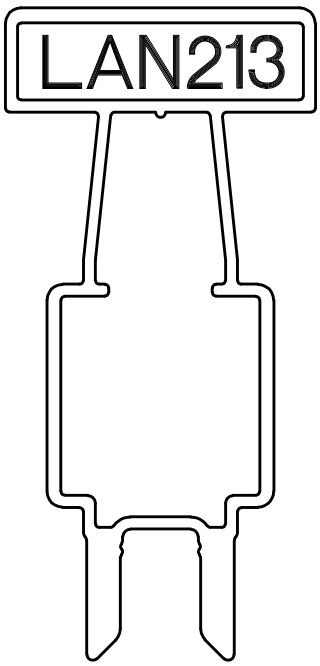


can be used with Butt Joint Jack LAN311

LENGTH mm	LOAD tonnes
500	3.60
600	3.43
700	3.23
800	3.13
900	2.91
1000	2.72
1100	2.54
1200	2.16
1300	1.85
1400	1.61
1500	1.43
1600	1.24
1700	1.09
1800	N/A

LOAD BEARING CAPACITY

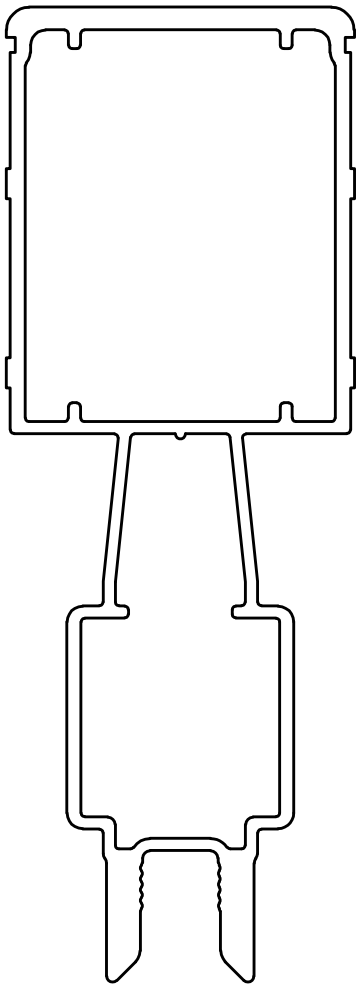
LAN213



can be used with Butt Joint Jack LAN311

LENGTH mm	LOAD tonnes
500	4.37
600	4.23
700	4.05
800	3.83
900	3.68
1000	3.53
1100	3.35
1200	3.17
1300	2.98
1400	2.62
1500	2.30
1600	2.01
1700	1.82
1800	1.63
1900	1.46
2000	1.30
2100	1.16
2200	N/A

LAN214

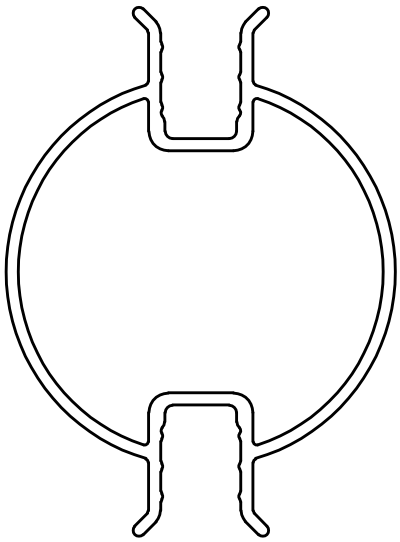


can be used with Butt Joint Jack LAN311

LENGTH mm	LOAD tonnes	LENGTH mm	LOAD tonnes
500	6.71	1400	4.97
600	6.58	1500	4.76
700	6.29	1600	4.59
800	6.20	1700	4.33
900	5.99	1800	3.74
1000	5.69	1900	3.57
1100	5.48	2000	3.36
1200	5.39	2100	2.89
1300	5.18	2200	consult

LOAD BEARING CAPACITY

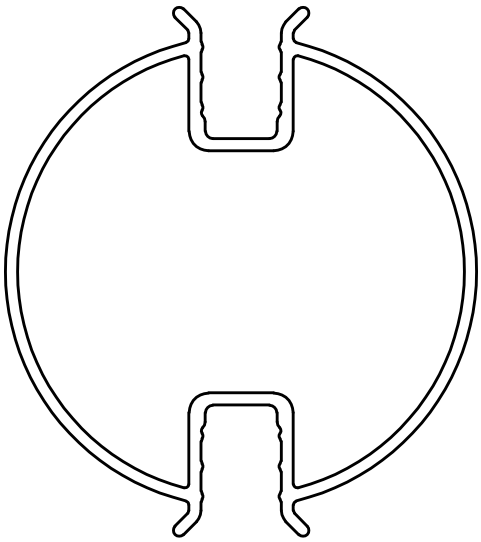
LAN231



can be used with Small Bay Pole Jack LAN331

LENGTH mm	LOAD tonnes
500	2.99
600	2.91
700	2.83
800	2.76
900	2.67
1000	2.56
1100	2.47
1200	2.35
1300	2.33
1400	2.23
1500	2.15
1600	2.06
1700	1.96
1800	1.80
1900	1.63
2000	1.48
2100	1.34
2200	consult

LAN232

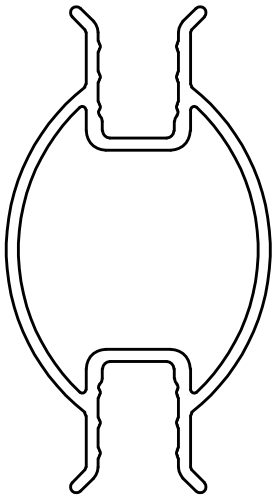


can be used with Large Bay Pole Jack LAN332

LENGTH mm	LOAD tonnes
500	3.53
600	3.45
700	3.37
800	3.29
900	3.22
1000	3.16
1100	3.08
1200	2.98
1300	2.88
1400	2.81
1500	2.74
1600	2.67
1700	2.59
1800	2.51
1900	2.43
2000	2.35
2100	2.27
2200	consult

LOAD BEARING CAPACITY

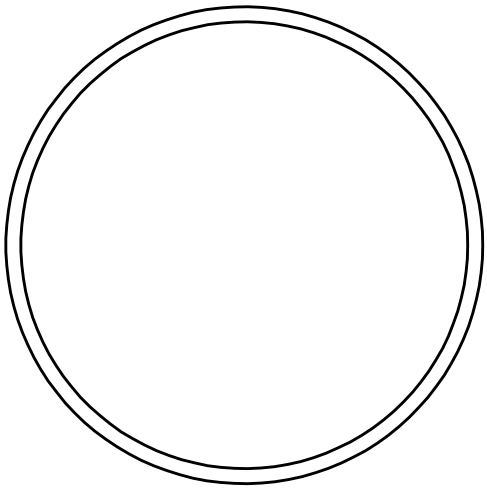
LAN233



can be used with Butt Joint Jack LAN311

LENGTH mm	LOAD tonnes
500	2.40
600	2.31
700	2.18
800	2.07
900	1.98
1000	1.87
1100	1.77
1200	1.64
1300	1.42
1400	1.23
1500	1.07
1600	0.96
1700	0.85
1800	N/A

LAN234

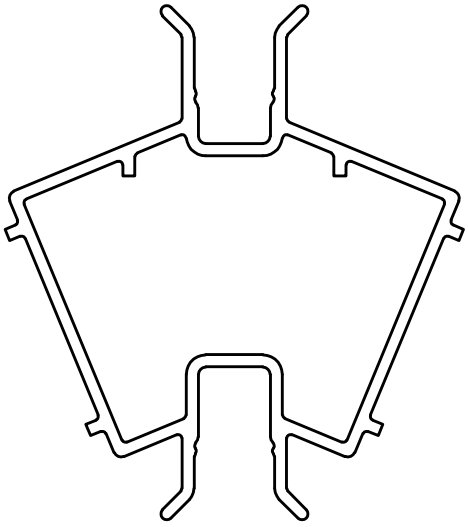


can be used with Large Bay Pole Jack LAN332

LENGTH mm	LOAD tonnes
500	3.19
600	3.12
700	3.06
800	3.00
900	2.94
1000	2.88
1100	2.83
1200	2.79
1300	2.72
1400	2.64
1500	2.57
1600	2.51
1700	2.46
1800	2.41
1900	2.35
2000	2.29
2100	2.23
2200	consult

LOAD BEARING CAPACITY

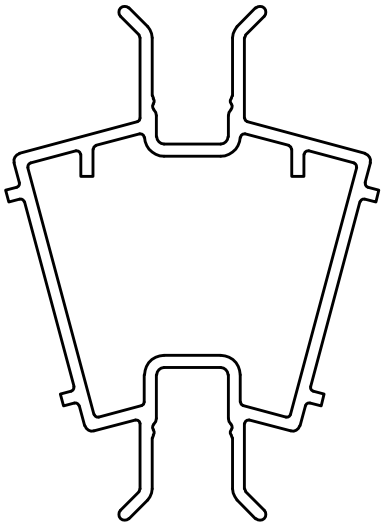
LAN251



can be used with Butt Joint Jack LAN311

LENGTH mm	LOAD tonnes
500	3.40
600	3.31
700	3.21
800	3.14
900	3.07
1000	2.96
1100	2.85
1200	2.75
1300	2.68
1400	2.60
1500	2.50
1600	2.41
1700	2.32
1800	2.23
1900	2.05
2000	1.87
2100	1.67
2200	consult

LAN252

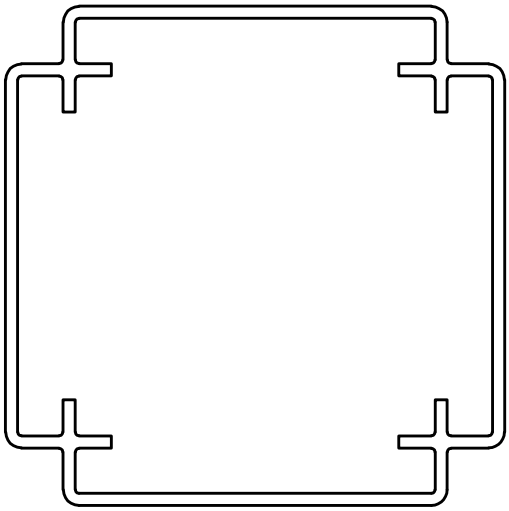


can be used with Butt Joint Jack LAN311

LENGTH mm	LOAD tonnes
500	3.08
600	2.98
700	2.90
800	2.79
900	2.67
1000	2.57
1100	2.48
1200	2.38
1300	2.30
1400	2.17
1500	2.07
1600	1.87
1700	1.66
1800	1.49
1900	1.34
2000	1.23
2100	1.13
2200	consult

LOAD BEARING CAPACITY

LAN253



can be used with Square Pole Jack LAN353

LENGTH mm	LOAD tonnes
500	4.00
600	3.94
700	3.87
800	3.80
900	3.74
1000	3.67
1100	3.61
1200	3.55
1300	3.50
1400	3.44
1500	3.37
1600	3.29
1700	3.21
1800	3.13
1900	3.08
2000	3.03
2100	2.98
2200	consult

ENERGY RATINGS

Operated by the BFRC (British Fenestration Ratings Council), Window Energy Ratings (WER's), are a straight forward way of assessing the thermal efficiency of window systems.

The rating system is recognised and referred to in Part L of The Building Regulations.

WER's are calculated using a standard size and style of window and a formula taking into account solar gain and air leakage, amongst other factors. The resulting numerical value falls into lettered bands A to G, A being the most efficient.
These lettered bands being familiar sights on white goods such as refrigerators, indicating the efficiency of the product.
As all calculations are based on the exact same window, the resulting values are directly comparable between window systems.

The benefits of installing the most efficient windows in both new build and refurbish properties is obvious, reducing heating bills and reducing carbon emissions.

Whilst some manufactureres of ageing systems, are forced into ever increasing levels of complexity and expense to ensure their products achieve acceptable ratings, Liniar products have been designed using the latest software to make the most efficient use of materials.

For more information on WER's, visit www.bfrc.org