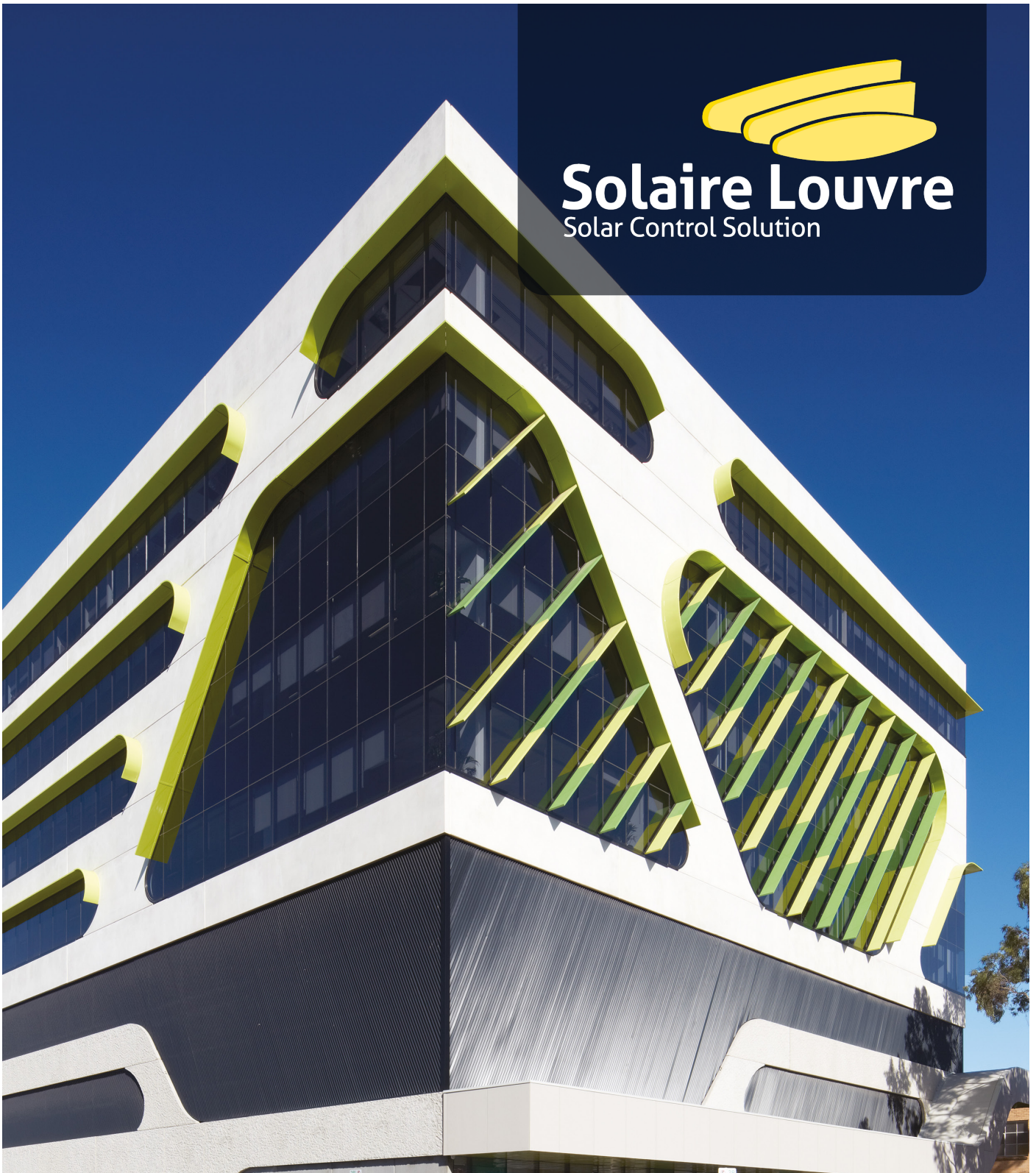




Solaire Louvre
Solar Control Solution



Solaire Louvre Solar Control Solution

Technical Manual
February 2024 | ISSUE D

alspec[®]
EVERYTHING ALUMINIUM
& HARDWARE

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Solaire Louvre
Solar Control Solution

Changes or additions to this manual will be itemised with a brief description and date when the amendments were made.

[illegible]

2. Technical Specifications

ALUMINIUM

Aluminium frames should be manufactured using Alspec's **SOLAIRE LOUVRE SOLAR CONTROL SOLUTION** framing system.

HARDWARE

- All other hardware as per Alspec Technical Manual

FINISHED

- All powder coated material shall be produced to AS3715
- All anodised material shall be produced to AS1231

All products are available from Alspec (A.B.N. 63 001 252 259) as detailed in the "Alspec" catalogue or on the Internet at www.alspec.com.au.

Fabricators of the **SOLAIRE LOUVRE SOLAR CONTROL SOLUTION** system should seek certification by a consultant structural engineer as to the framing being acceptable for the design wind pressure and deflection characteristics required of the site.

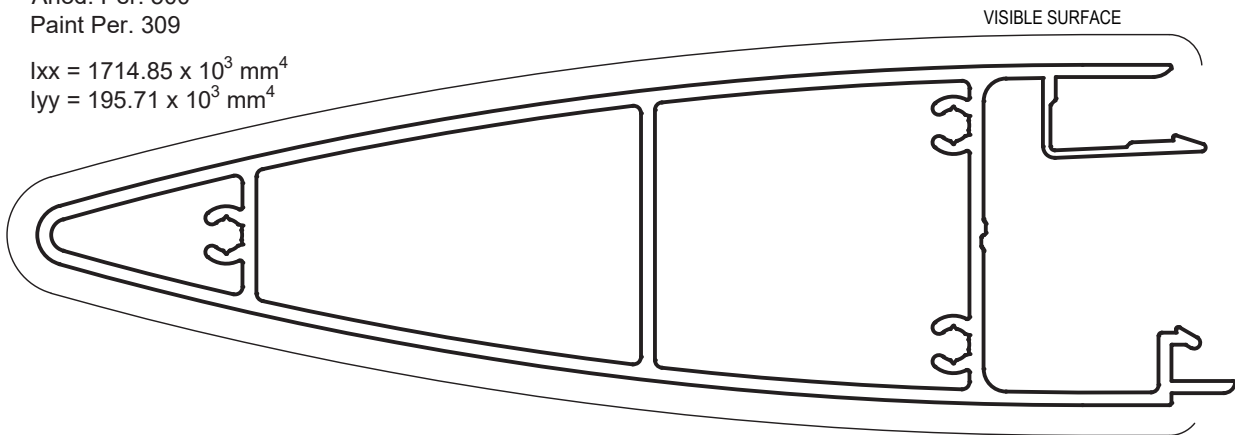
5. Extrusions

LVE351

150mm x 45mm ELLIPTICAL
MATING LOUVRE

Mass. 2.317 Kg/m
Anod. Per. 500
Paint Per. 309

$I_{xx} = 1714.85 \times 10^3 \text{ mm}^4$
 $I_{yy} = 195.71 \times 10^3 \text{ mm}^4$

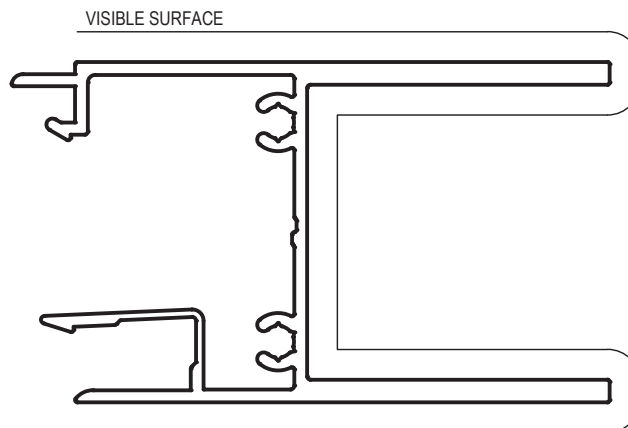


LVE362

H NOSE CLIP

Mass. 1.408 Kg/m
Anod. Per. 507
Paint Per. 266

$I_{xx} = 213.91 \times 10^3 \text{ mm}^4$
 $I_{yy} = 188.99 \times 10^3 \text{ mm}^4$

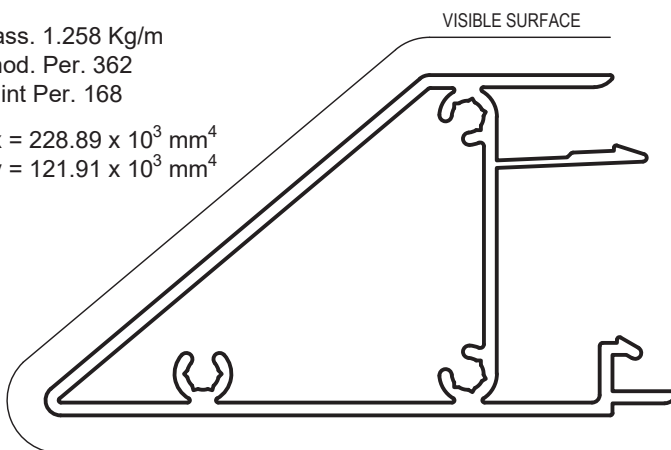


LVE311

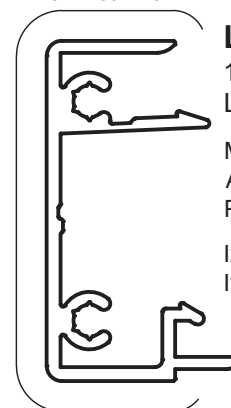
45 x 75mm LOUVRE
BULLNOSE

Mass. 1.258 Kg/m
Anod. Per. 362
Paint Per. 168

$I_{xx} = 228.89 \times 10^3 \text{ mm}^4$
 $I_{yy} = 121.91 \times 10^3 \text{ mm}^4$



VISIBLE SURFACE



LVE353

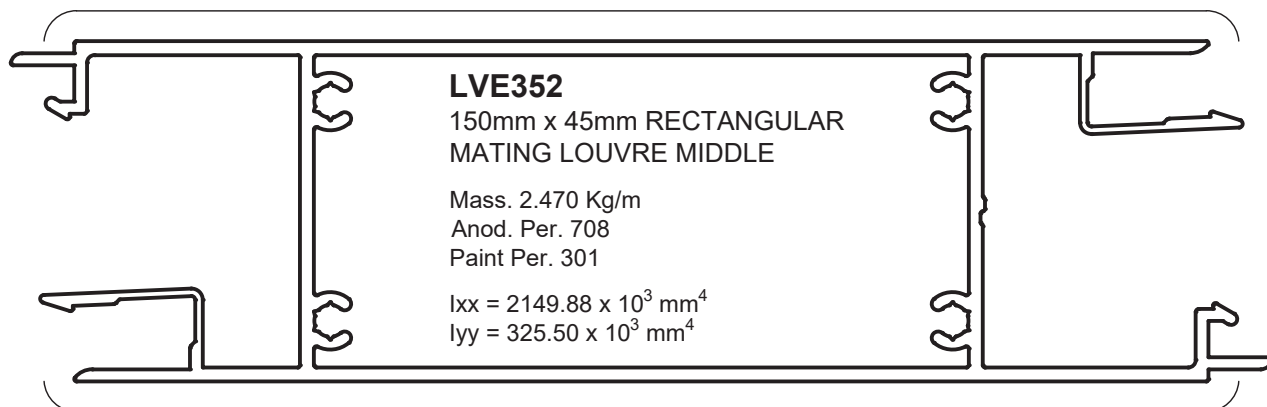
17mm x 45mm
LOUVRE END CAP

Mass. 0.653 Kg/m
Anod. Per. 270
Paint Per. 100

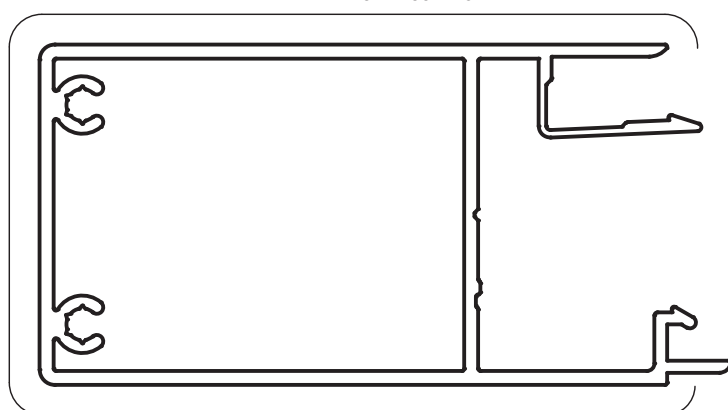
$I_{xx} = 10.97 \times 10^3 \text{ mm}^4$
 $I_{yy} = 61.10 \times 10^3 \text{ mm}^4$

5. Extrusions

VISIBLE SURFACE



VISIBLE SURFACE

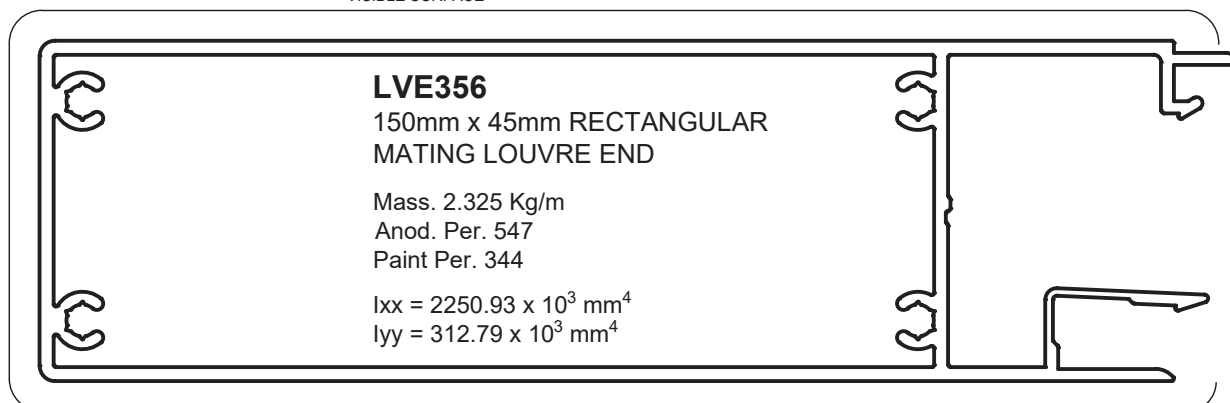


LVE355
83mm x 45mm
RECTANGULAR MATING
LOUVRE

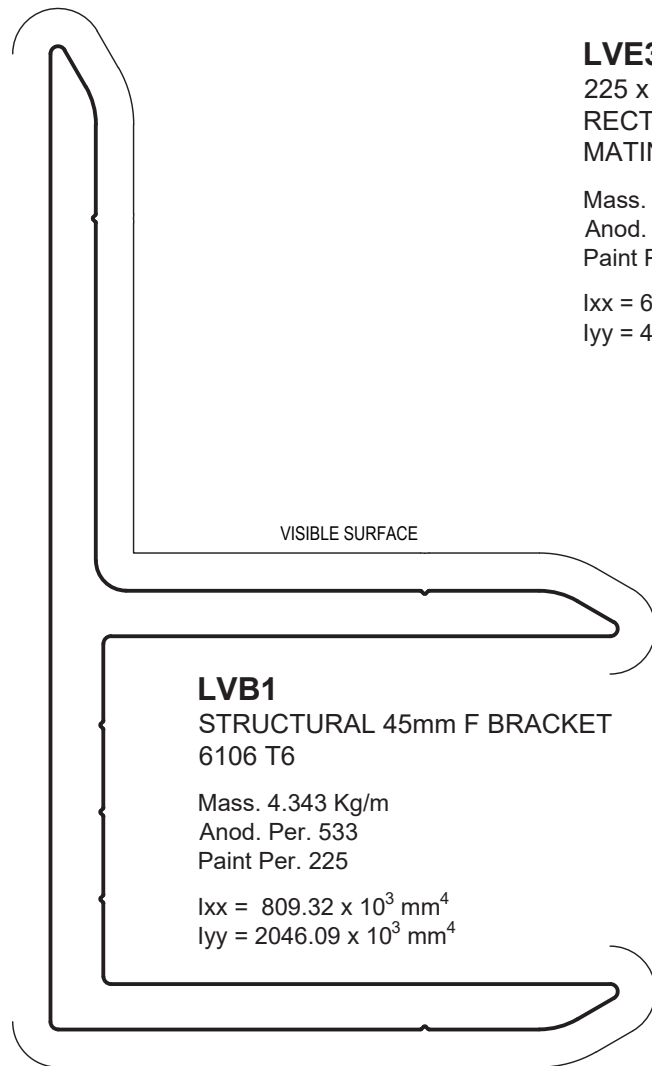
Mass. 1.558 Kg/m
Anod. Per. 404
Paint Per. 210

$I_{xx} = 483.42 \times 10^3 \text{ mm}^4$
 $I_{yy} = 189.80 \times 10^3 \text{ mm}^4$

VISIBLE SURFACE



5. Extrusions

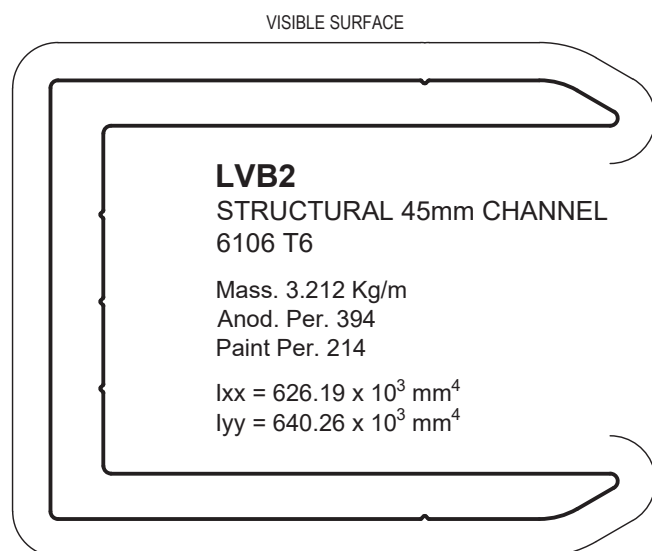


LVB1

STRUCTURAL 45mm F BRACKET
6106 T6

Mass. 4.343 Kg/m
Anod. Per. 533
Paint Per. 225

$I_{xx} = 809.32 \times 10^3 \text{ mm}^4$
 $I_{yy} = 2046.09 \times 10^3 \text{ mm}^4$



LVB2

STRUCTURAL 45mm CHANNEL
6106 T6

Mass. 3.212 Kg/m
Anod. Per. 394
Paint Per. 214

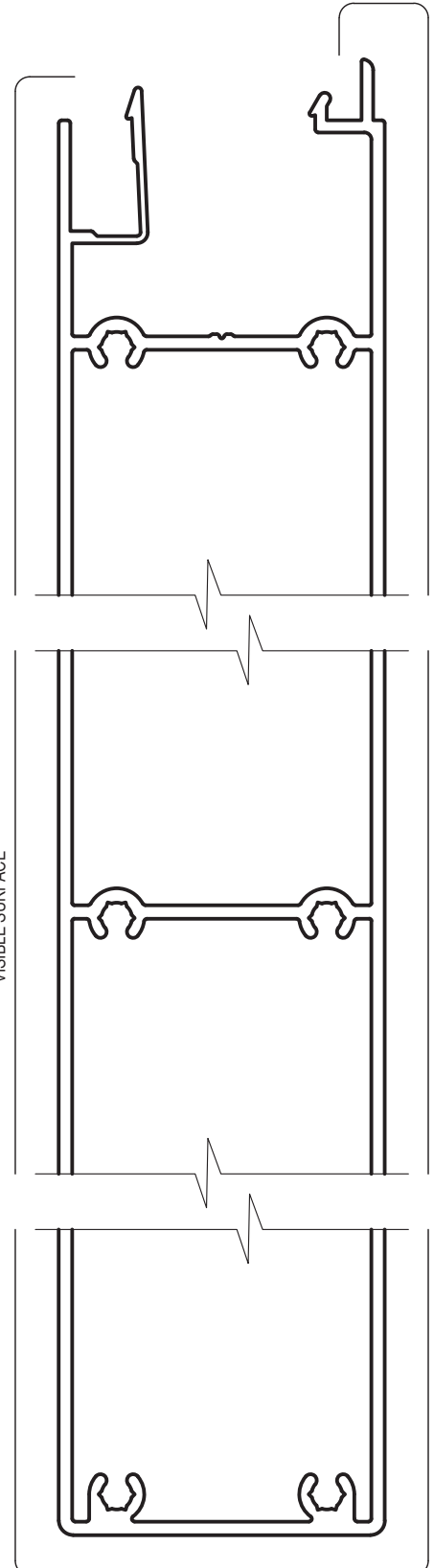
$I_{xx} = 626.19 \times 10^3 \text{ mm}^4$
 $I_{yy} = 640.26 \times 10^3 \text{ mm}^4$

LVE358

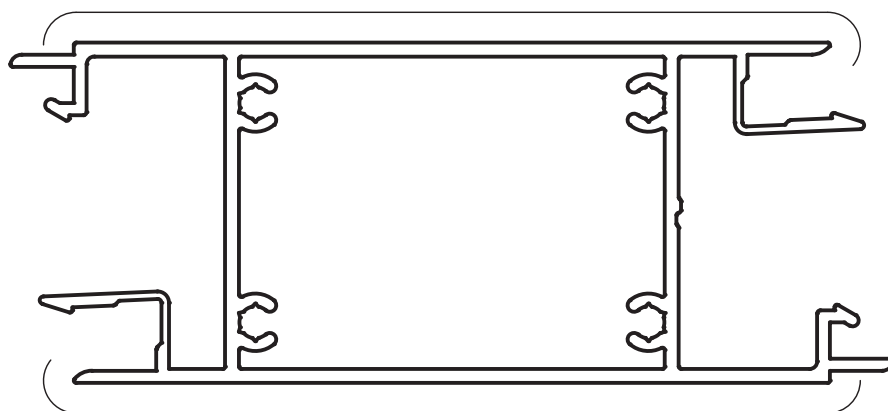
225 x 45mm
RECTANGULAR
MATING LOUVRE

Mass. 3.356 Kg/m
Anod. Per. 703
Paint Per. 703

$I_{xx} = 6610.01 \times 10^3 \text{ mm}^4$
 $I_{yy} = 459.28 \times 10^3 \text{ mm}^4$



5. Extrusions



VISIBLE SURFACE

LVE359

45mm x 100mm
RECTANGULAR MATING
LOUVRE

Mass. 1.950 Kg/m
Anod. Per. 550
Paint Per. 201

$I_{xx} = 780.16 \times 10^3 \text{ mm}^4$
 $I_{yy} = 239.21 \times 10^3 \text{ mm}^4$

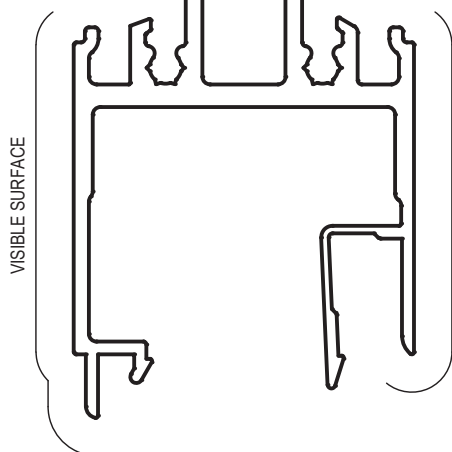


LVE310

45mm LOUVRE ADAPTOR

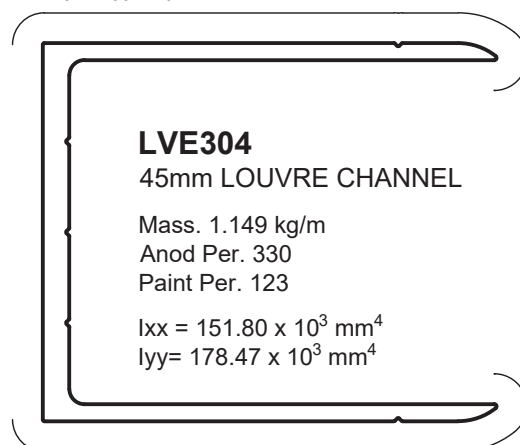
Mass. 2.456 Kg/m
Anod. Per. 634
Paint Per. 166

$I_{xx} = 956.72 \times 10^3 \text{ mm}^4$
 $I_{yy} = 178.86 \times 10^3 \text{ mm}^4$



VISIBLE SURFACE

VISIBLE SURFACE

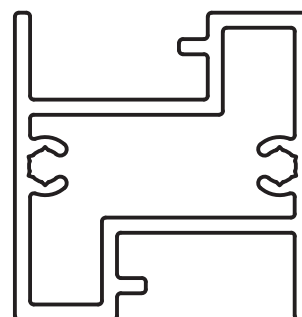


LVE304

45mm LOUVRE CHANNEL

Mass. 1.149 kg/m
Anod Per. 330
Paint Per. 123

$I_{xx} = 151.80 \times 10^3 \text{ mm}^4$
 $I_{yy} = 178.47 \times 10^3 \text{ mm}^4$

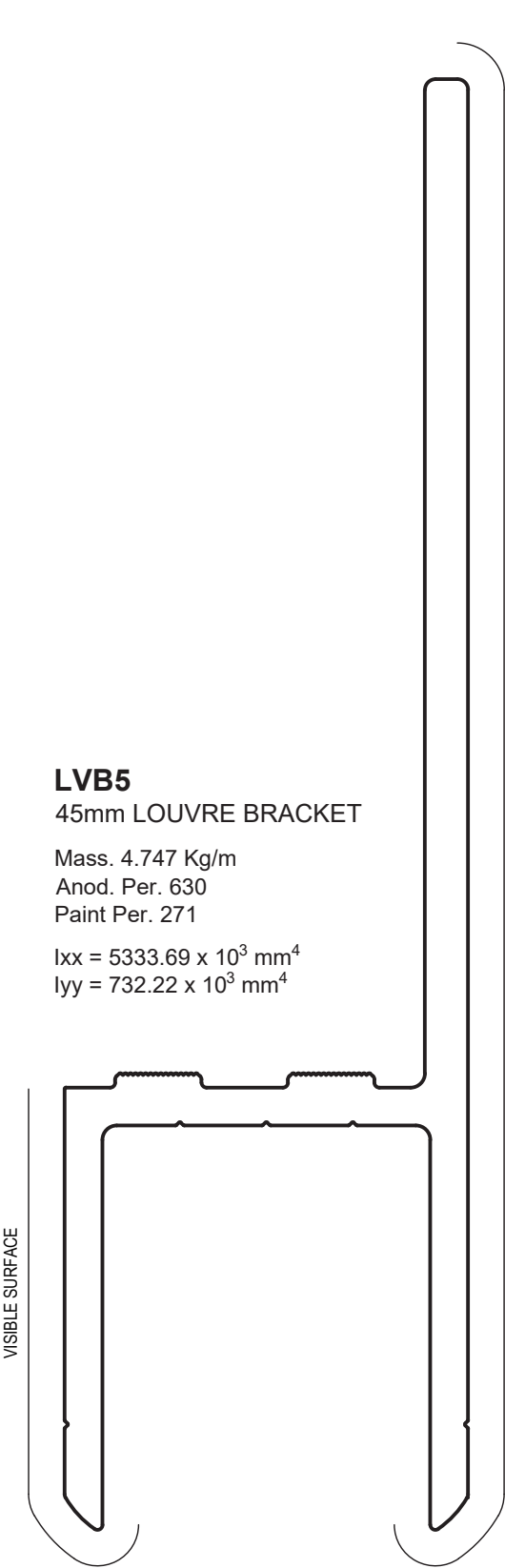


LVB4

45mm LOUVRE
LOCKING BAR

Mass. 1.076 Kg/m
Anod. Per. 216
No Visible Surface

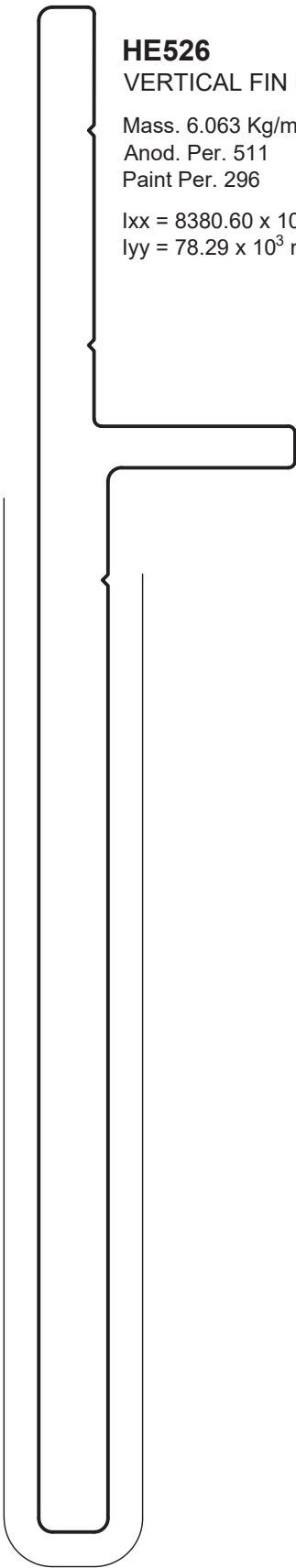
$I_{xx} = 80.18 \times 10^3 \text{ mm}^4$
 $I_{yy} = 56.93 \times 10^3 \text{ mm}^4$



LVB5
45mm LOUVRE BRACKET

Mass. 4.747 Kg/m
Anod. Per. 630
Paint Per. 271

$I_{xx} = 5333.69 \times 10^3 \text{ mm}^4$
 $I_{yy} = 732.22 \times 10^3 \text{ mm}^4$

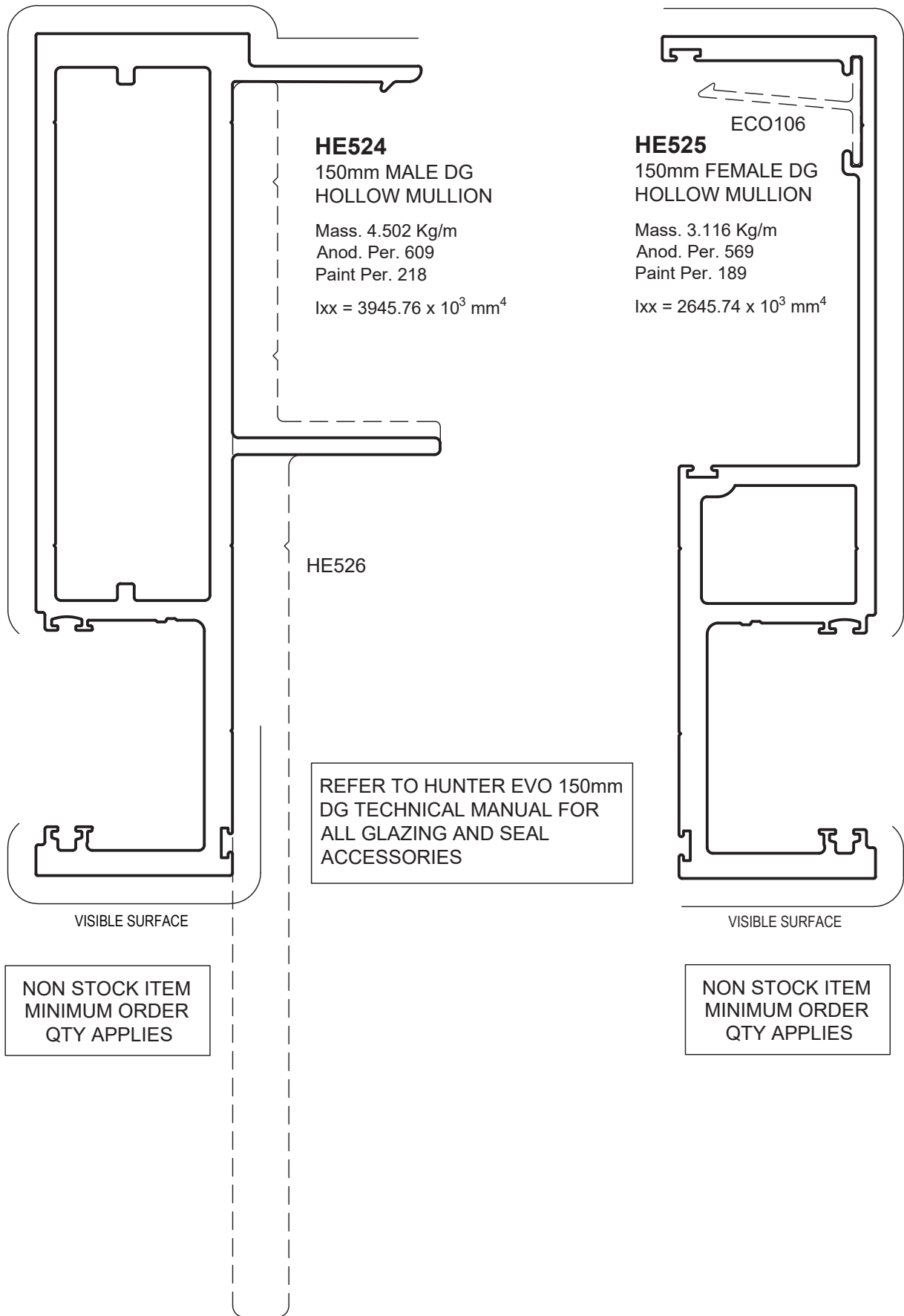


HE526
VERTICAL FIN BLADE 6106 T6

Mass. 6.063 Kg/m
Anod. Per. 511
Paint Per. 296

$I_{xx} = 8380.60 \times 10^3 \text{ mm}^4$
 $I_{yy} = 78.29 \times 10^3 \text{ mm}^4$

5. Extrusions



6. Hardware & Components

Silicone



100% NEUTRAL CURE SILICONE

- Premium 100% silicone
- UV Stable
- Superior adhesion
- Flexible + 25%
- AS4020 Approved



100% MATTE NEUTRAL CURE SILICONE

- Premium 100% silicone
- Matte finish
- UV Stable
- Outstanding elongation
- Higher strength



41 CLADDING SILICONE

- Premium 100% silicone
- UV Stable
- Superior adhesion
- Movement capability + 50%



WET AREA SILICONE

- Premium 100% silicone
- Mould inhibited
- Movement capability + 25%
- UV Stable
- Non corrosive
- Superior adhesion



HYBRID PU ADHESIVE SEALANT

- No isocyanates
- Internal/External
- No shrinking/staining
- Paintable
- Excellent adhesion



20 ACETIC CURE SILICONE

- Premium 100% silicone
- UV Stable
- Superior adhesion
- Flexible + 25%



D60 SILICONE

- Premium 100% silicone
- UV Stable
- 2-5 minute skin time
- Flexible + 25%
- No slump

*For more information on silicones,
please refer to Alspec Silicone Brochure.

6. Hardware & Components

Silicone Product Codes

Product Category	Item No.	Alspec Part No. Code	Description	Finish	Pack
ALSPEC 100%	1	1386113	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	ALMOND IVORY	CARTRIDGE
	2	1386114	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	ALUMINIUM	CARTRIDGE
	3	1386105	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	BLACK	CARTRIDGE
	4	1386140	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	CAULFIELD GREEN	CARTRIDGE
	5	1386111	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	CLASSIC CREAM	CARTRIDGE
	6	1386108	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	GREY	CARTRIDGE
	7	1386138	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	MONUMENT	CARTRIDGE
	8	1386112	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	OFF WHITE	CARTRIDGE
	9	1386141	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	STONE BEIGE	CARTRIDGE
	10	1386101	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	TRANSLUCENT	CARTRIDGE
	11	1386106	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	WHITE	CARTRIDGE
	12	1386143	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	WOODLAND GREY	CARTRIDGE
ALSPEC 100% MATT	13	1386103	ALSPEC 100% NEUTRAL CURE SILICONE x 420g CAT	BLACK MATT	CARTRIDGE
	14	1386107	ALSPEC 100% NEUTRAL CURE SILICONE x 420g CAT	GREY MATT	CARTRIDGE
	15	1386144	ALSPEC 100% NEUTRAL CURE SILICONE x 420g CAT	WHITE MATT	CARTRIDGE
ALSPEC 20	16	1386115	ALSPEC 20 SILICONE x 310g CAT	TRANSLUCENT	CARTRIDGE
ALSPEC 41 CLADDING	17	1386159	ALSPEC 41 SILICONE x 400g CAT	BLACK MATT	CARTRIDGE
	18	1386117	ALSPEC 41 SILICONE x 600ml SAU	BLACK MATT	SAUSAGE
	19	1386158	ALSPEC 41 SILICONE x 400g CAT	LIGHT GREY MATT	CARTRIDGE
	20	1386118	ALSPEC 41 SILICONE x 600ml SAU	LIGHT GREY MATT	SAUSAGE
	21	1386157	ALSPEC 41 SILICONE x 400g CAT	WHITE MATT	CARTRIDGE
	22	1386145	ALSPEC 41 SILICONE x 600ml SAU	WHITE MATT	SAUSAGE
ALSPEC D60	23	1386121	ALSPEC D60 SILICONE x 310g CAT	BLACK	CARTRIDGE
	25	1386123	ALSPEC D60 SILICONE x 310g CAT	GREY	CARTRIDGE
	26	1386120	ALSPEC D60 SILICONE x 310g CAT	TRANSLUCENT	CARTRIDGE
	27	1386124	ALSPEC D60 SILICONE x 310g CAT	WHITE	CARTRIDGE
ALSPEC HYBRID PU	28	1386127	ALSPEC HYBRID PU x 480g CAT	BLACK	CARTRIDGE
	29	1386126	ALSPEC HYBRID PU x 600ml SAU	BLACK	SAUSAGE
	30	1386160	ALSPEC HYBRID PU x 480g CAT	GREY	CARTRIDGE
	31	1386128	ALSPEC HYBRID PU x 600ml SAU	GREY	SAUSAGE
	32	1386130	ALSPEC HYBRID PU x 480g CAT	WHITE	CARTRIDGE
	33	1386129	ALSPEC HYBRID PU x 600ml SAU	WHITE	SAUSAGE
ALSPEC WET AREA	34	1386137	ALSPEC WET AREA SILICONE x 310g CAT	ALMOND IVORY	CARTRIDGE
	35	1386139	ALSPEC WET AREA SILICONE x 310g CAT	BLACK	CARTRIDGE
	36	1386146	ALSPEC WET AREA SILICONE x 310g CAT	BLUESTONE	CARTRIDGE
	37	1386147	ALSPEC WET AREA SILICONE x 310g CAT	CHARCOAL	CARTRIDGE
	38	1386136	ALSPEC WET AREA SILICONE x 310g CAT	LIGHT GREY	CARTRIDGE
	39	1386148	ALSPEC WET AREA SILICONE x 310g CAT	MID GREY	CARTRIDGE
	40	1386149	ALSPEC WET AREA SILICONE x 310g CAT	OFF WHITE	CARTRIDGE
	41	1386150	ALSPEC WET AREA SILICONE x 310g CAT	PEWTER	CARTRIDGE
	42	1386151	ALSPEC WET AREA SILICONE x 310g CAT	STONE BEIGE	CARTRIDGE
	43	1386154	ALSPEC WET AREA SILICONE x 310g CAT	TAUPE	CARTRIDGE
	44	1386152	ALSPEC WET AREA SILICONE x 310g CAT	TILE GREY	CARTRIDGE
	45	1386133	ALSPEC WET AREA SILICONE x 310g CAT	TRANSLUCENT	CARTRIDGE
	46	1386153	ALSPEC WET AREA SILICONE x 310g CAT	TRAVERTINE	CARTRIDGE
	47	1386134	ALSPEC WET AREA SILICONE x 310g CAT	WHITE	CARTRIDGE

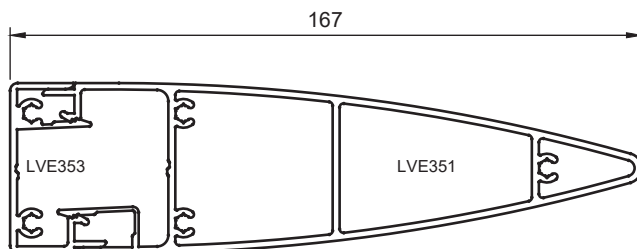
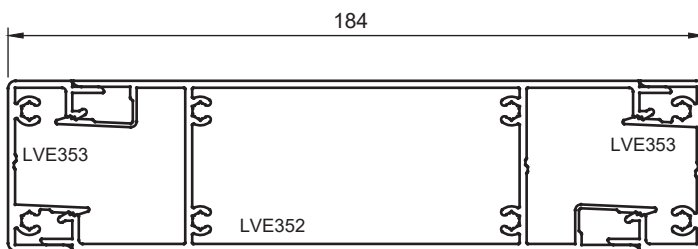
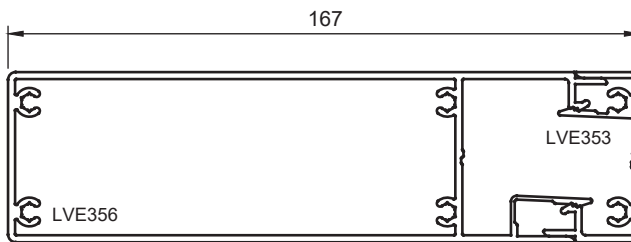
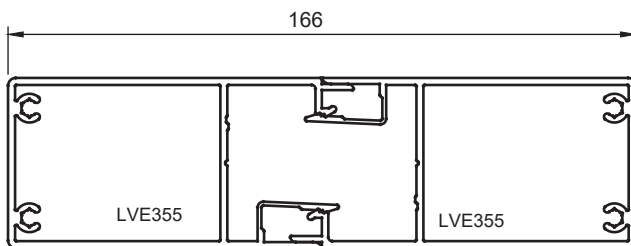
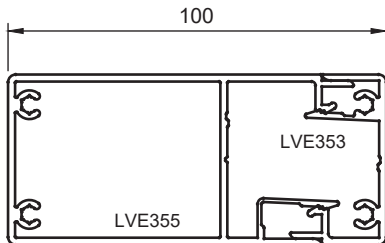
8. Typical Details

Typical Louvre Lengths/Combinations

FINISHED SIZE	MATING LOUVRE SECTIONS
100mm	LVE355 + LVE353
166mm	LVE355 + LVE355
167mm	LVE356 + LVE353
167mm	LVE353 + LVE351
184mm	LVE353 + LVE352 + LVE353
233mm	LVE356 + LVE355
250mm	LVE352 + LVE353 + LVE355
300mm	LVE356 + LVE356
300mm	LVE351 + LVE351
317mm	LVE356 + LVE352 + LVE353
317mm	LVE353 + LVE 352 + LVE351
334mm	LVE353 + LVE352 + LVE352 + LVE353
383mm	LVE356 + LVE352 + LVE355
450mm	LVE358 + LVE358
450mm	LVE351 + LVE352 + LVE351
600mm	LVE358 + LVE352 + LVE358
600mm	LVE356 + LVE352 + LVE352 + LVE356
600mm	LVE351 + LVE352 + LVE352 + LVE351

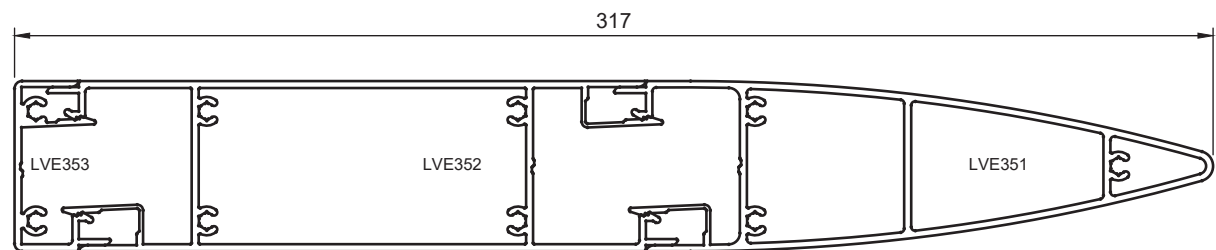
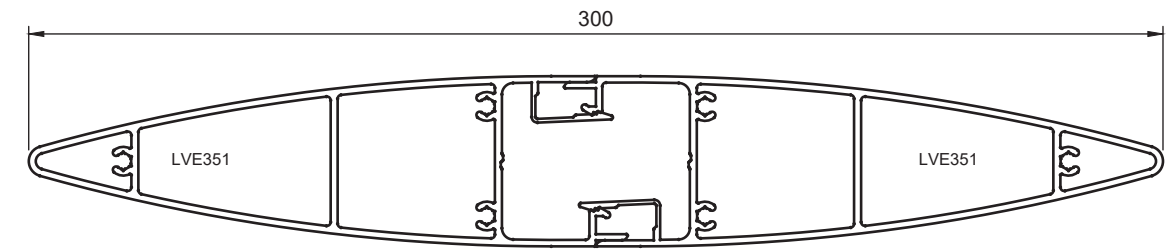
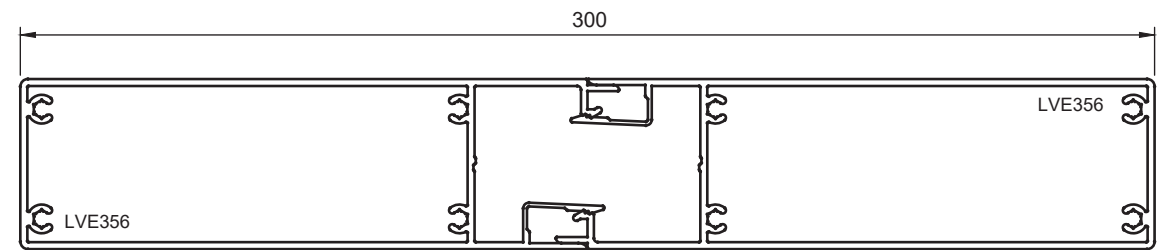
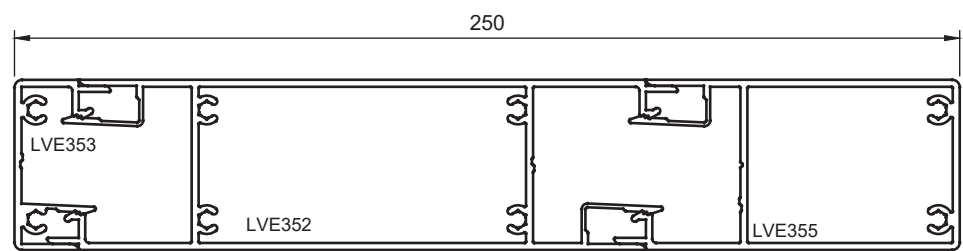
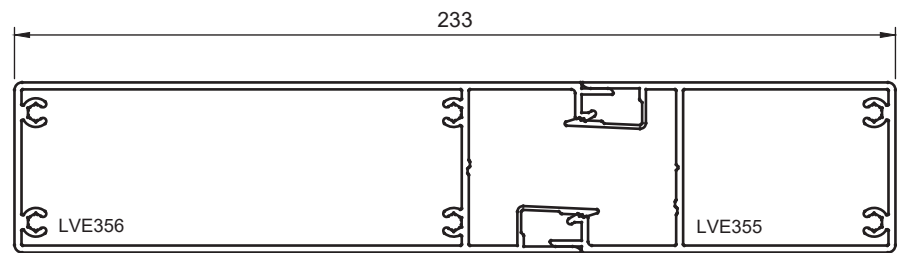
8. Typical Details

100mm - 184mm Typical Louvre Combinations



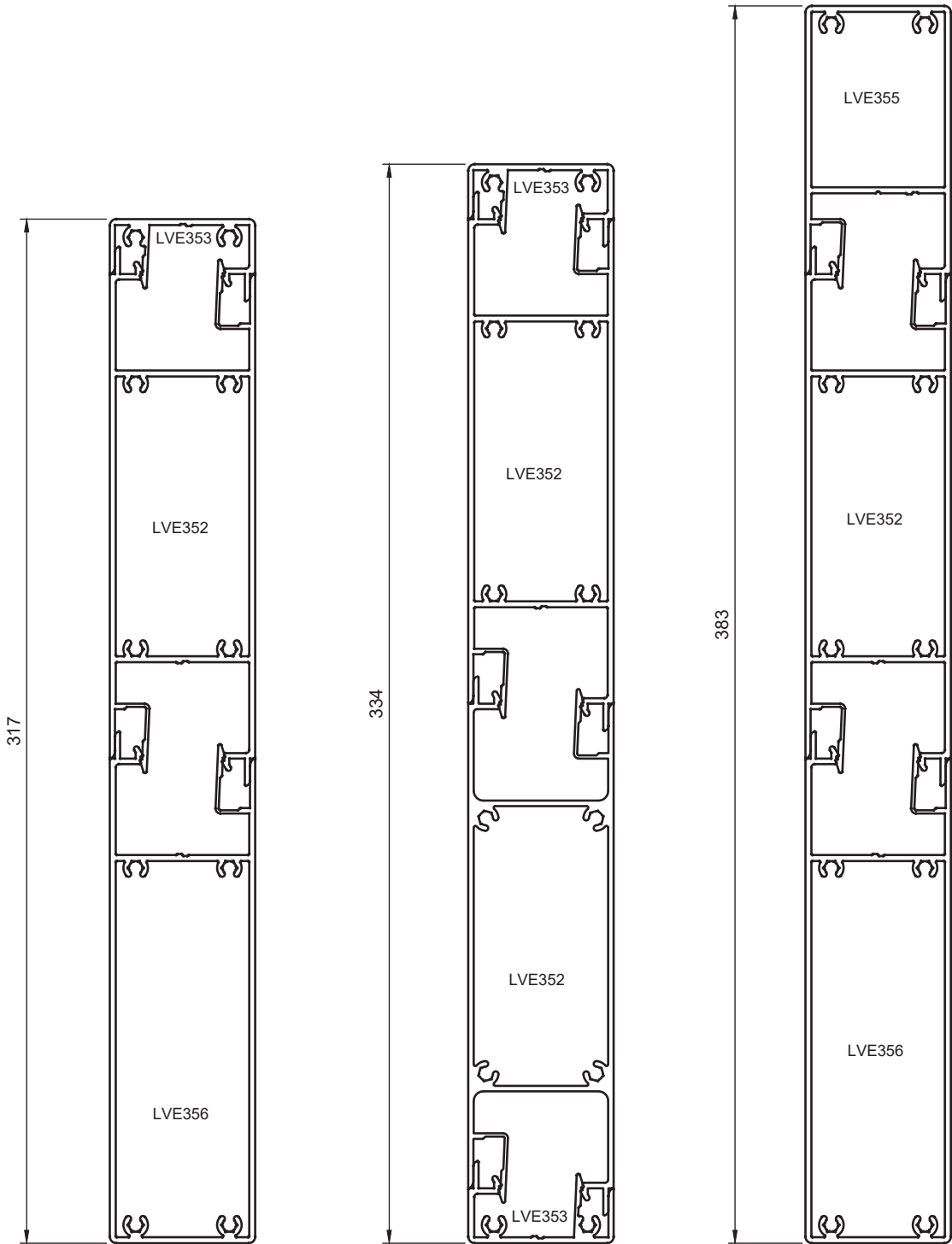
8. Typical Details

233mm - 317mm Typical Louvre Combinations



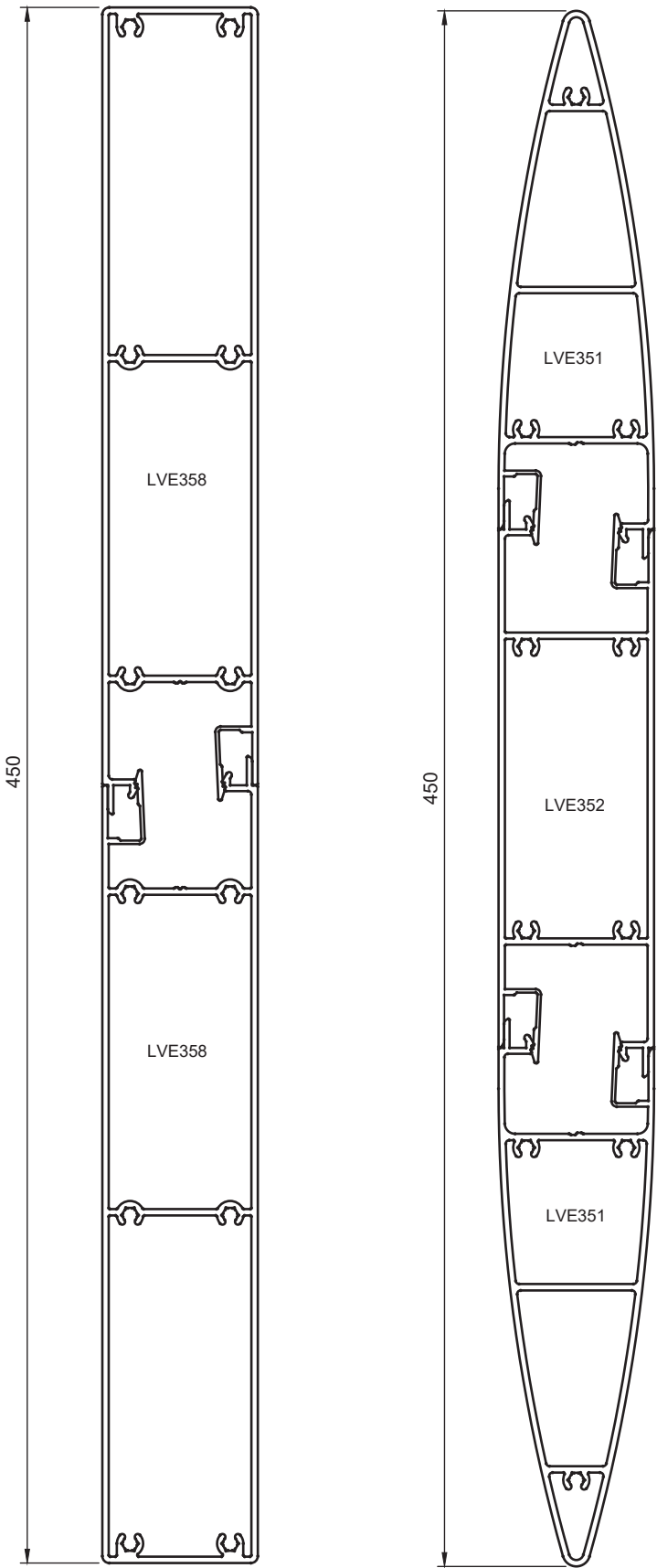
8. Typical Details

317mm - 383mm Typical Louvre Combinations



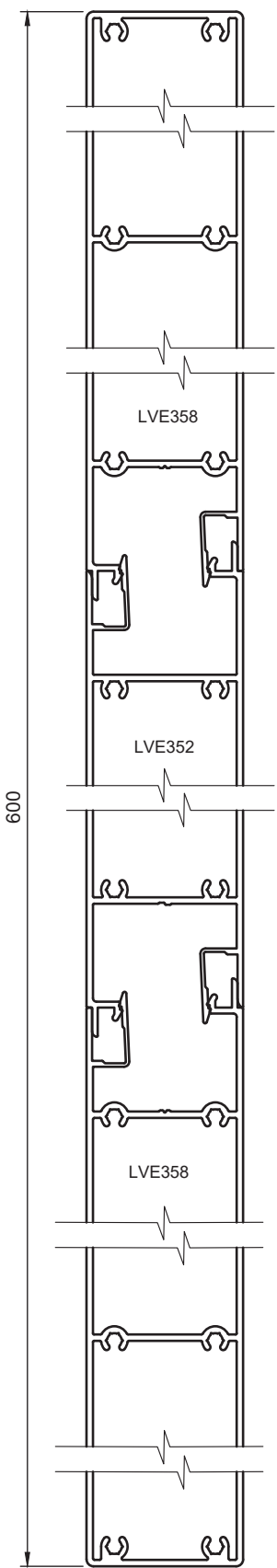
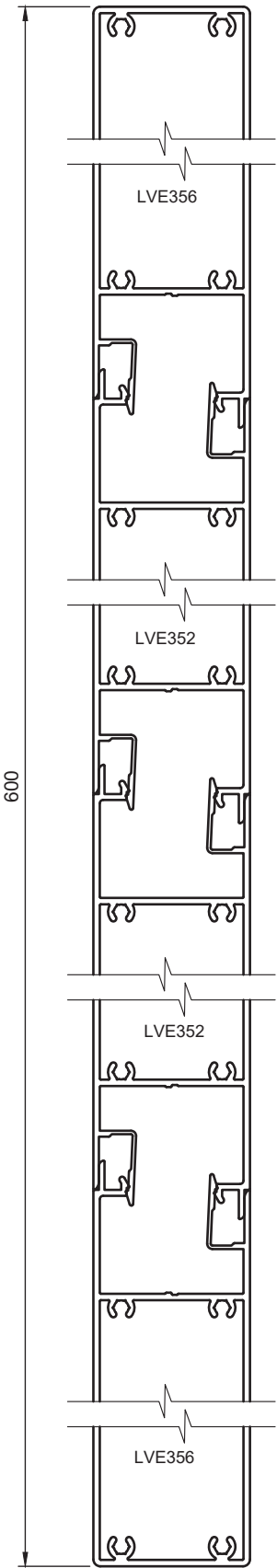
8. Typical Details

450mm Typical Louvre Combinations



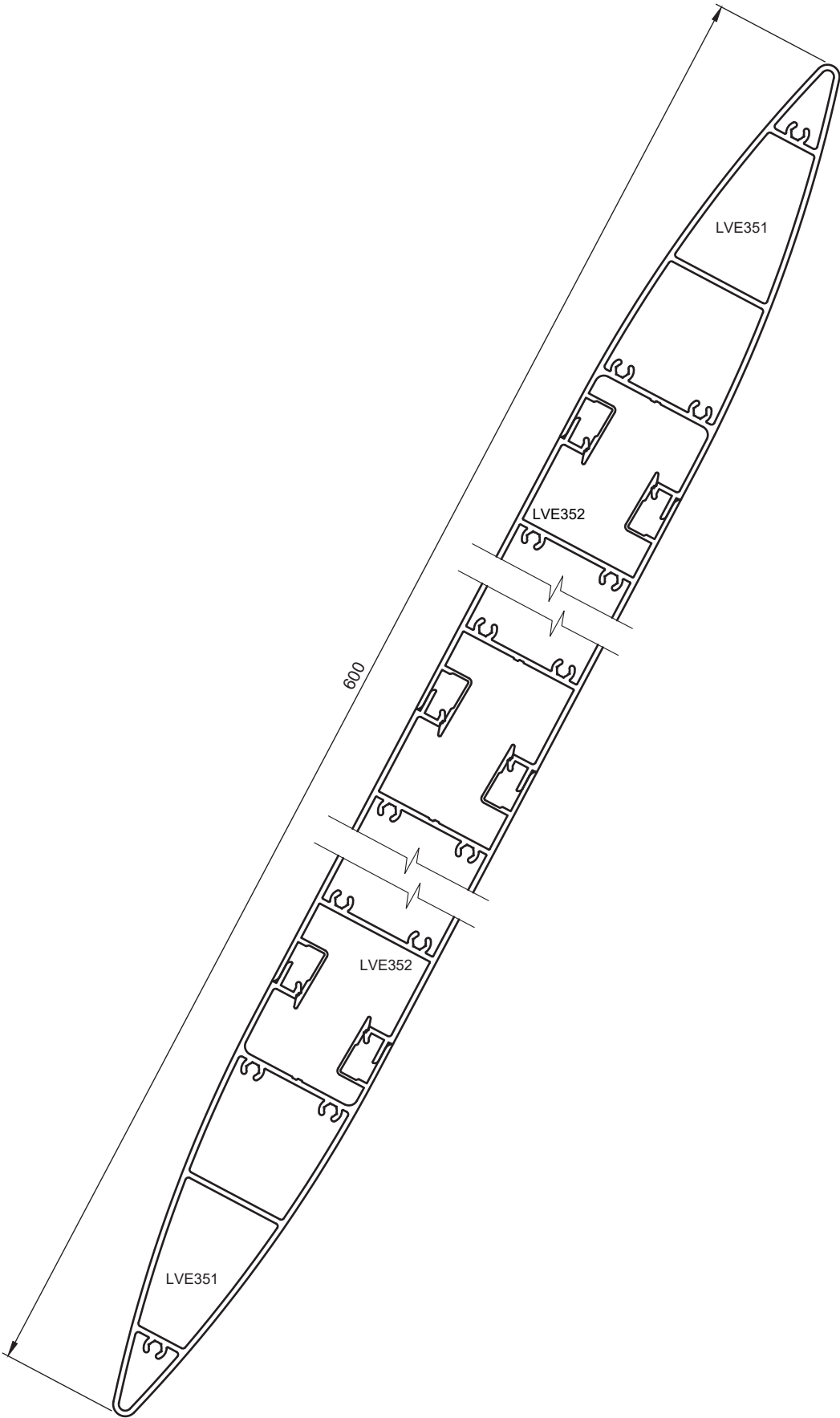
8. Typical Details

600mm Typical Louvre Combinations



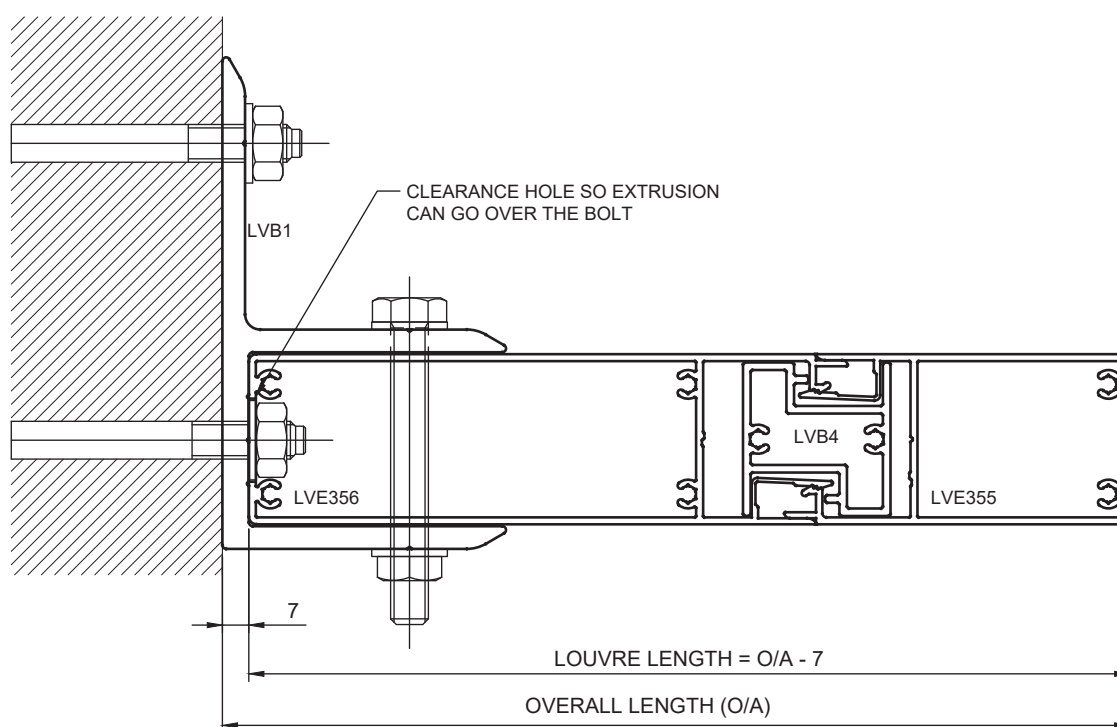
8. Typical Details

600mm Typical Louvre Combinations



8. Typical Details

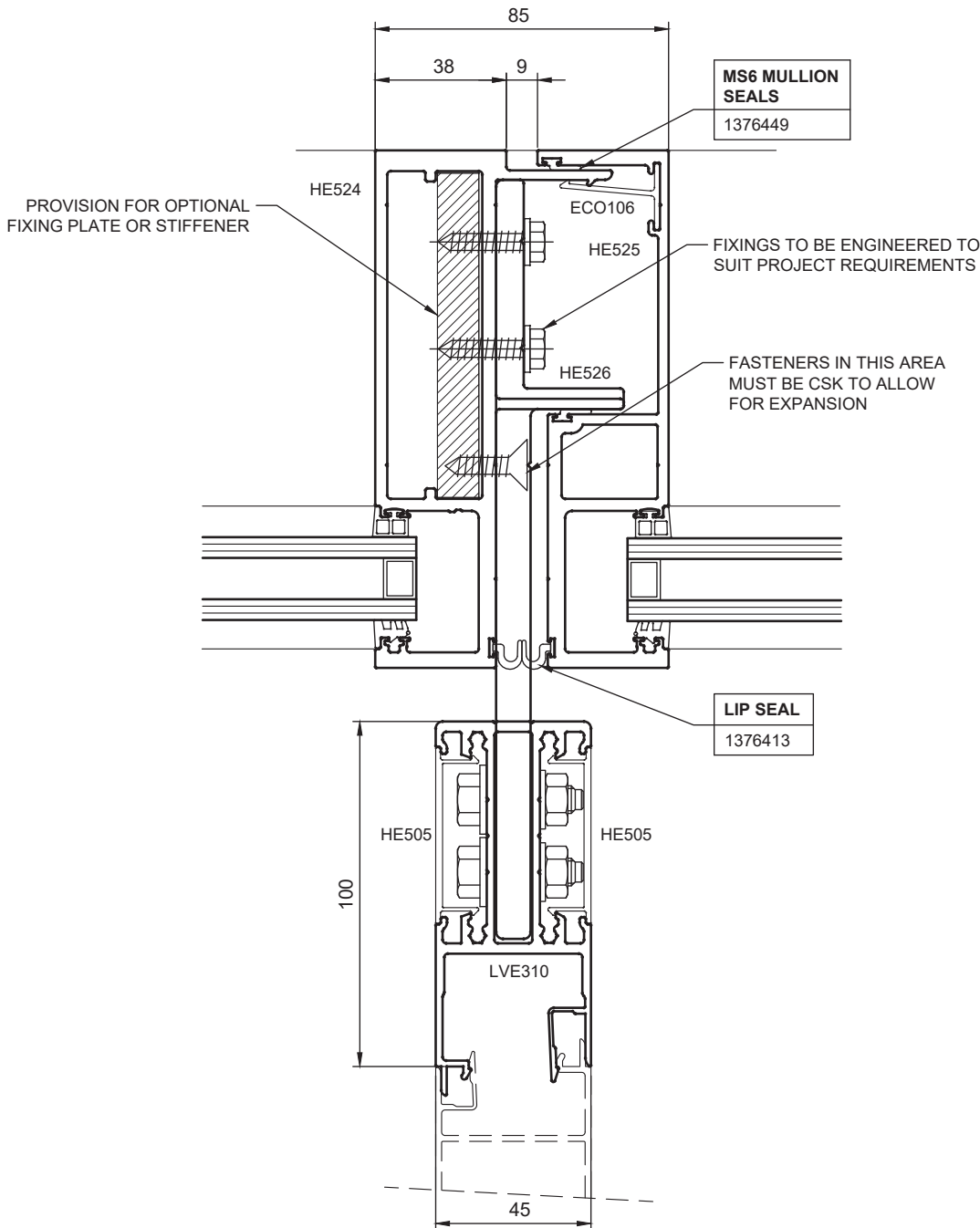
Typical Louvre LVB1 Wall Connection



FIXING TYPE AND SPACING TO BE ENGINEERED TO SUIT THE
SPECIFIC ONSITE CONDITIONS.

8. Typical Details

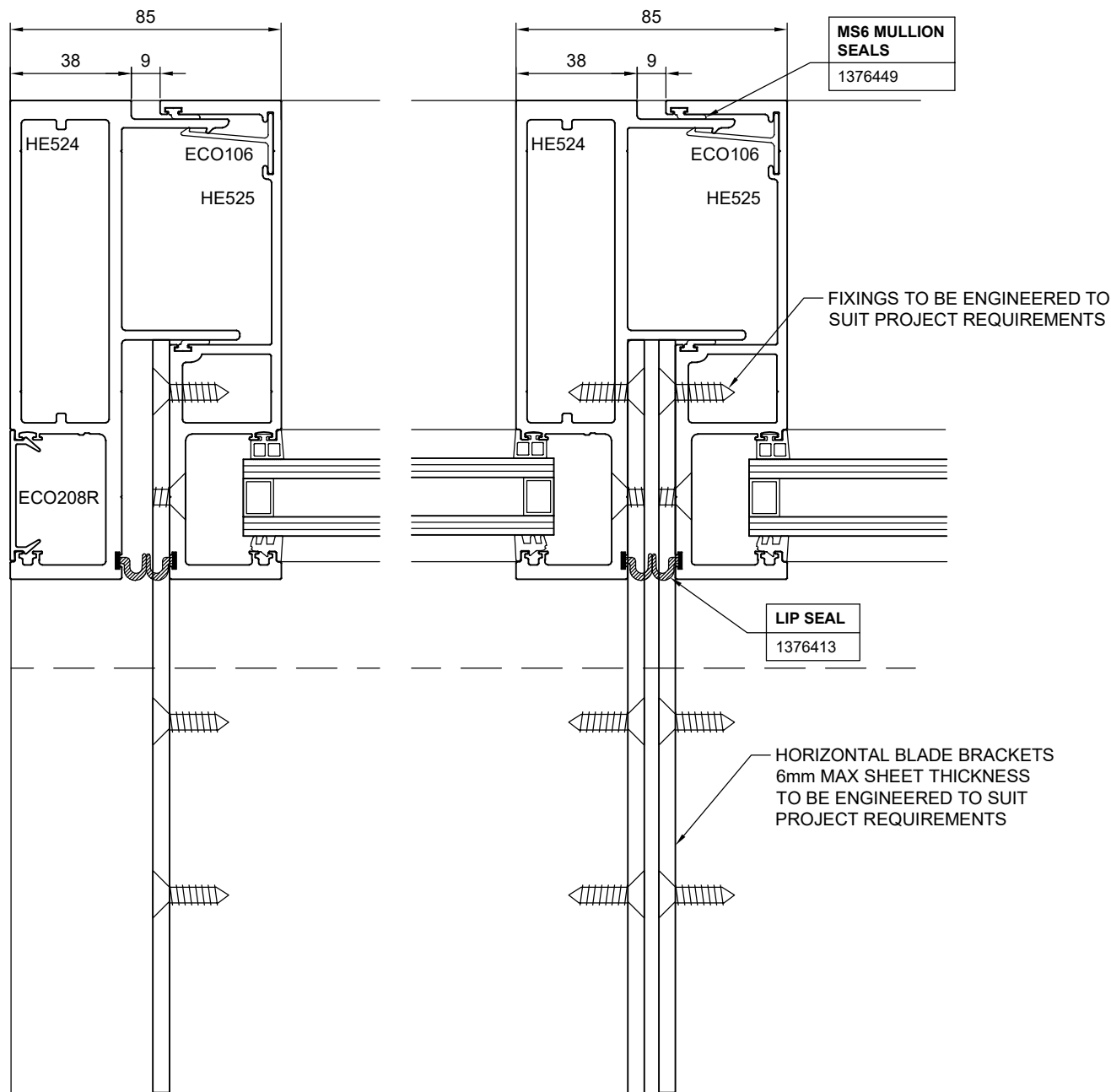
Hunter Evo Solaire Typical Details



FIXING TYPE AND SPACING TO BE ENGINEERED TO SUIT THE
SPECIFIC ONSITE CONDITIONS.

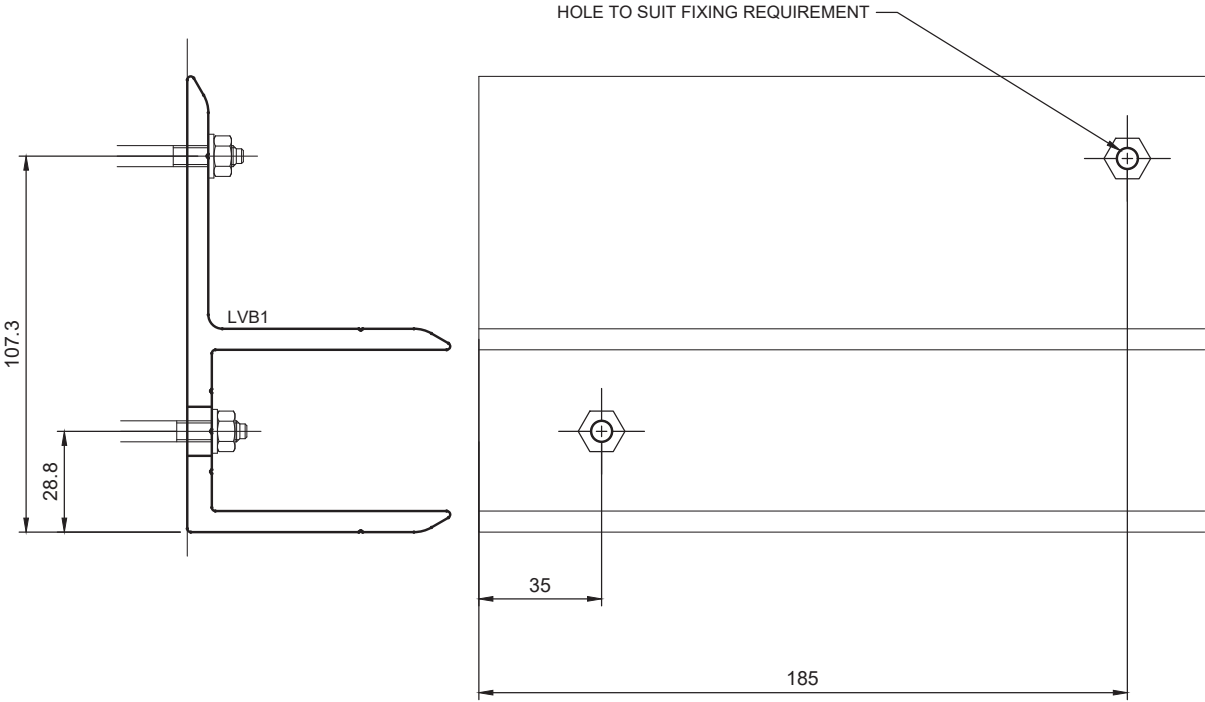
8. Typical Details

Hunter Evo Solaire Typical Details



FIXING TYPE AND SPACING TO BE ENGINEERED TO SUIT THE
SPECIFIC ONSITE CONDITIONS.

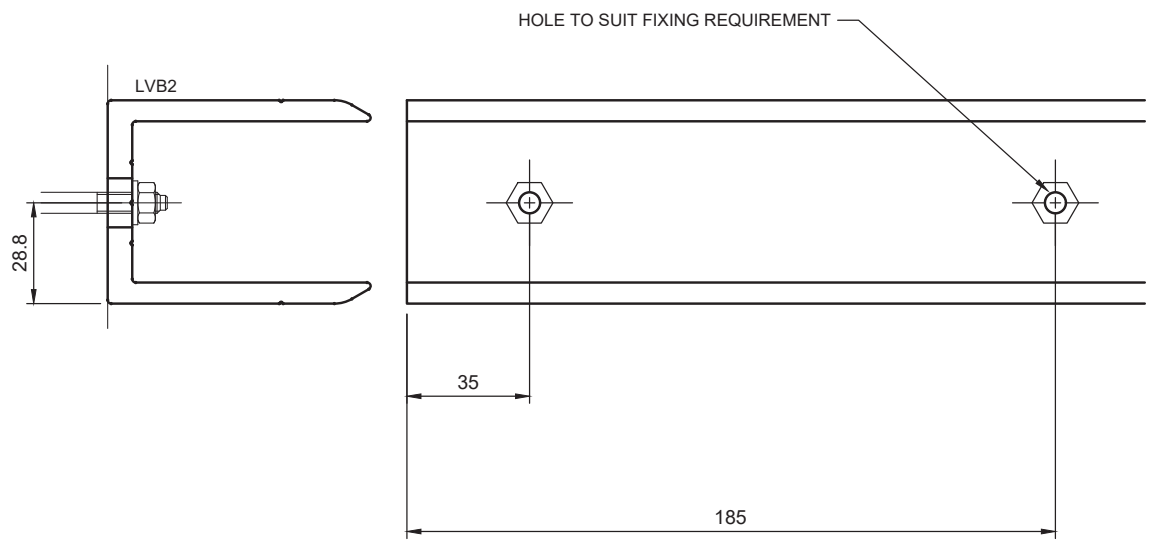
LVB1 Fixing Details



FIXING TYPE AND SPACING TO BE ENGINEERED TO SUIT THE
SPECIFIC ONSITE CONDITIONS.

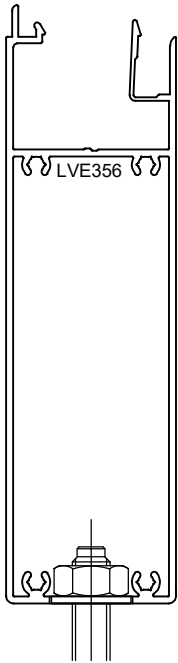
10. Manufacturing Details

LVB2 Fixing Details



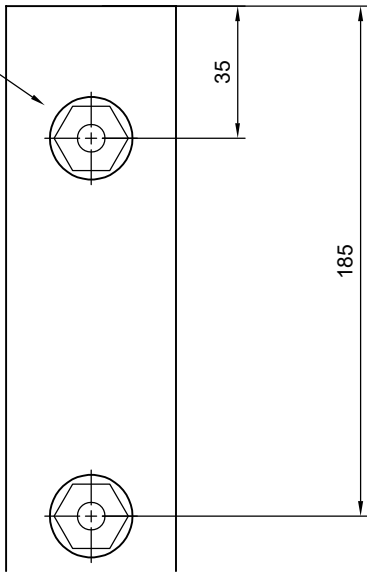
FIXING TYPE AND SPACING TO BE ENGINEERED TO SUIT THE
SPECIFIC ONSITE CONDITIONS.

Bolt/Hole Clearance Details



APPLY THE SAME DETAIL TO ALL LOUVRE THAT ARE NOT ACCESSIBLE FROM THE FRONT. LVE355, LVE356 AND LVE358

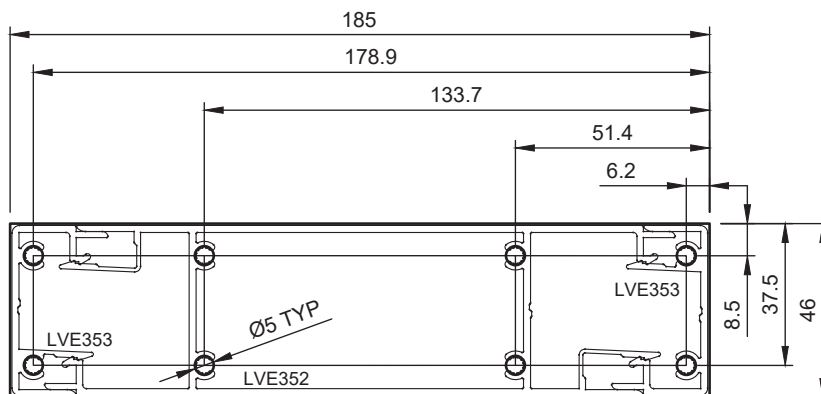
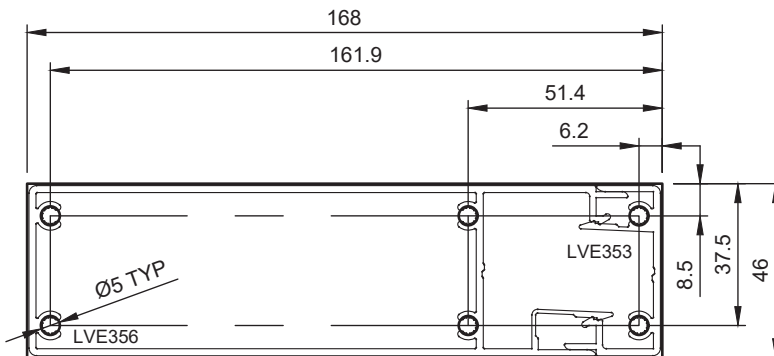
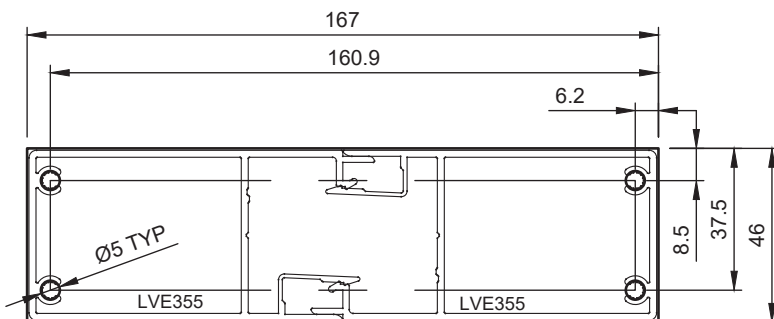
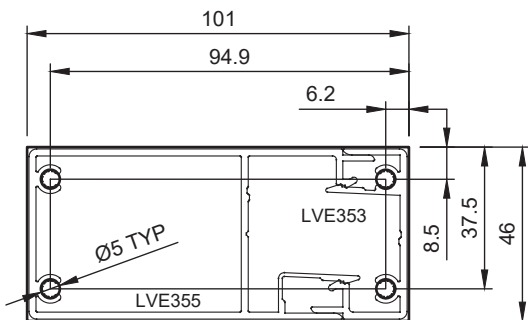
CLEARANCE HOLE AROUND BOLT



FIXING TYPE AND SPACING TO BE ENGINEERED TO SUIT THE SPECIFIC ONSITE CONDITIONS.

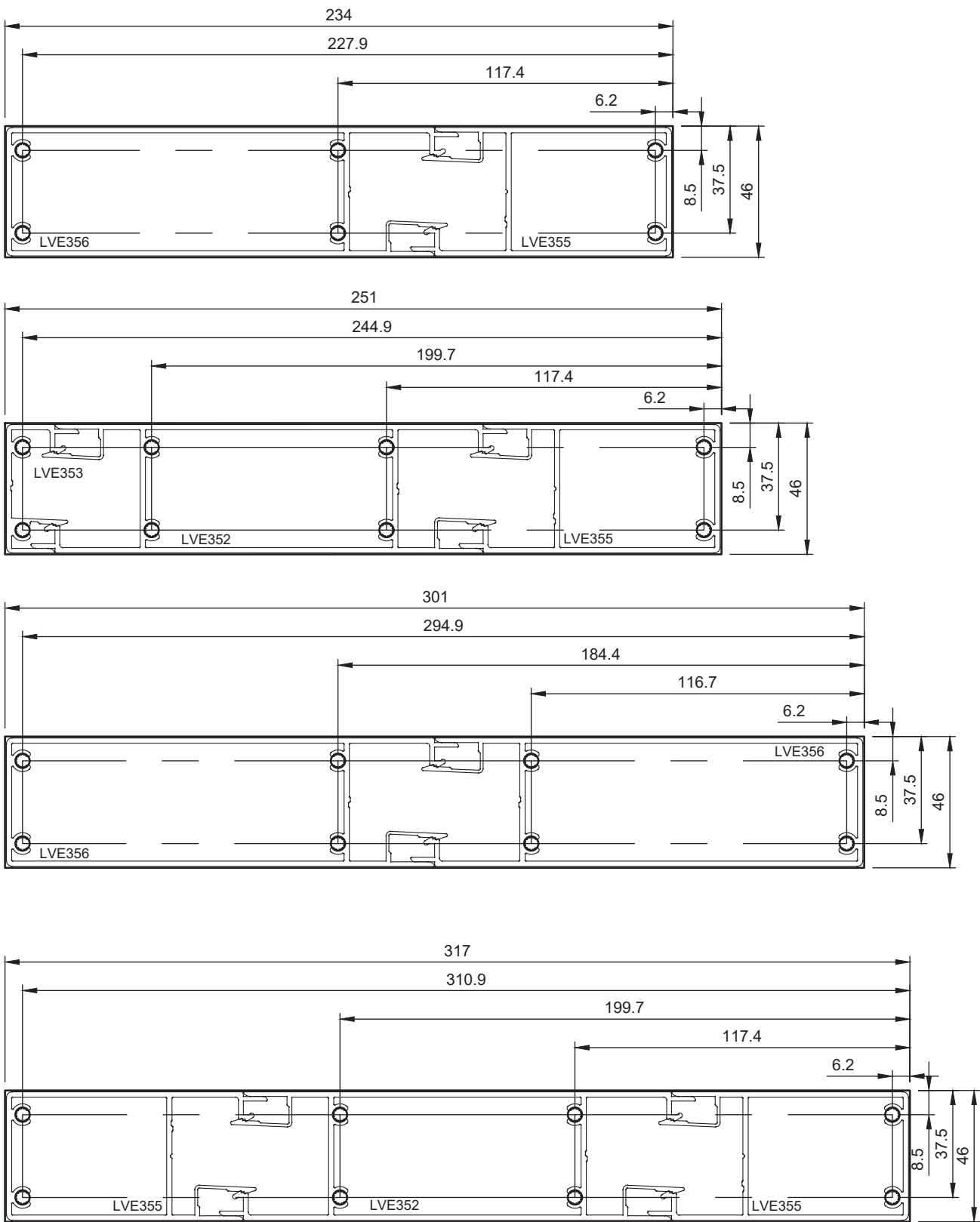
10. Manufacturing Details

End Caps



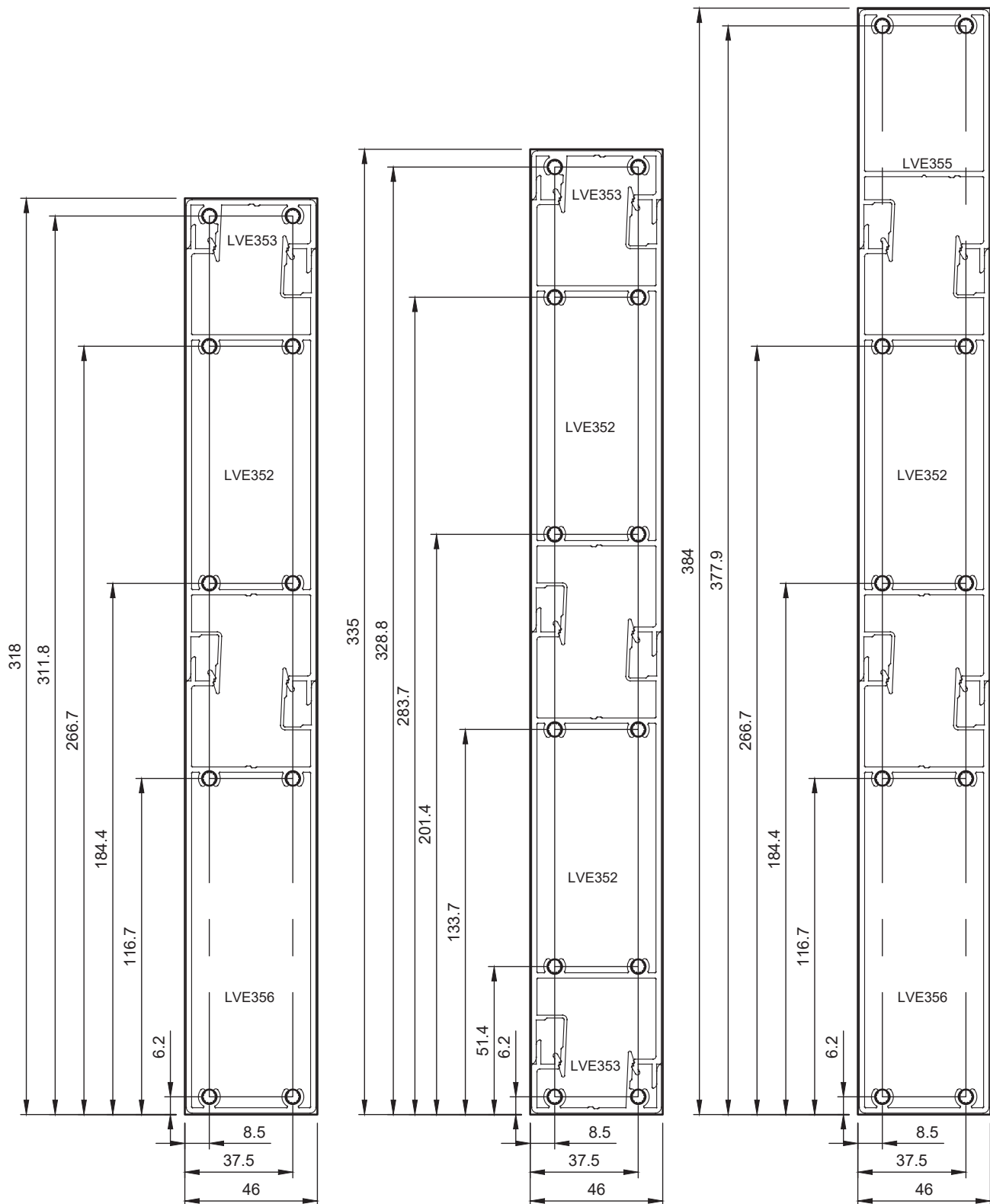
10. Manufacturing Details

End Caps



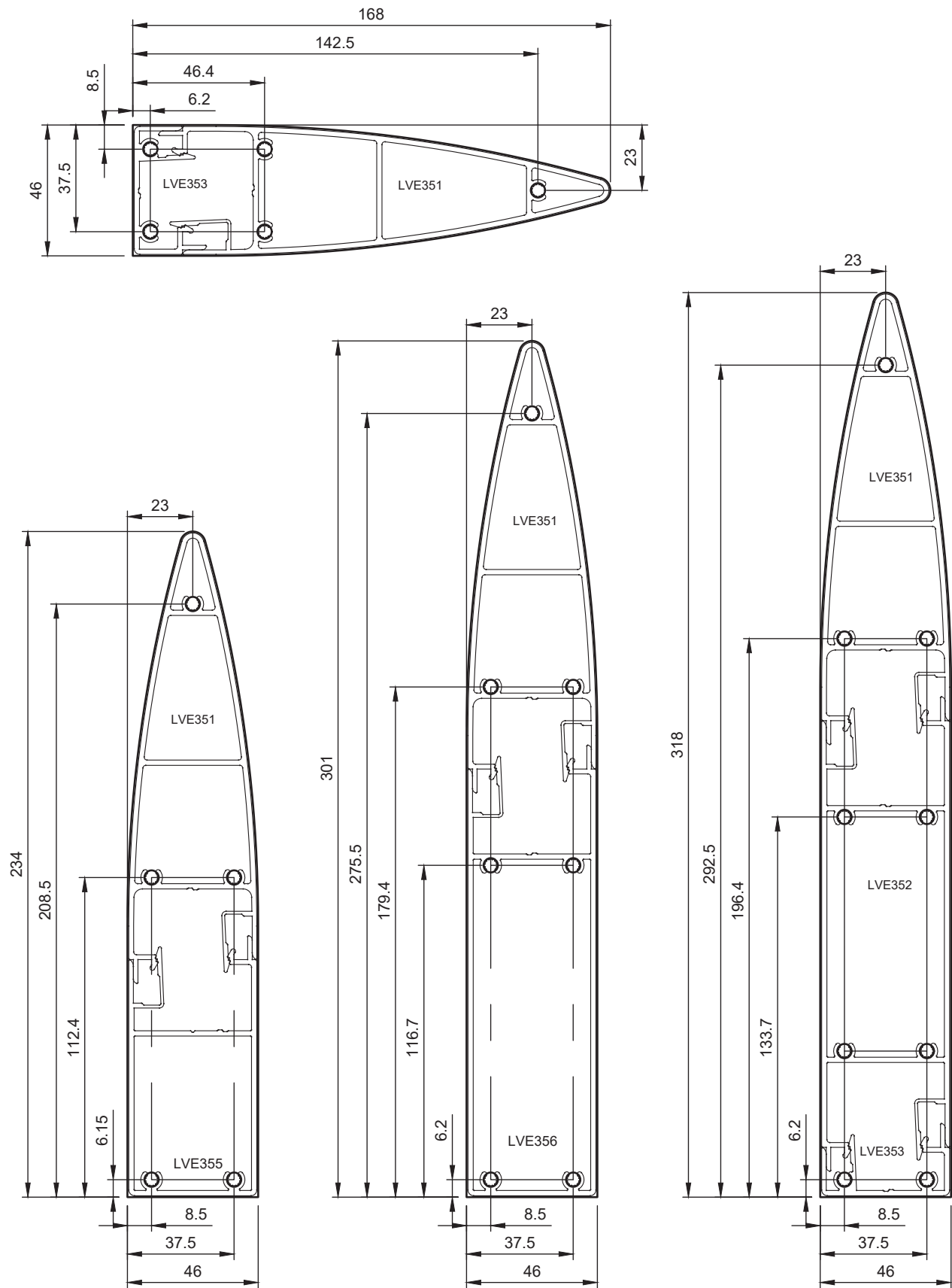
10. Manufacturing Details

End Caps



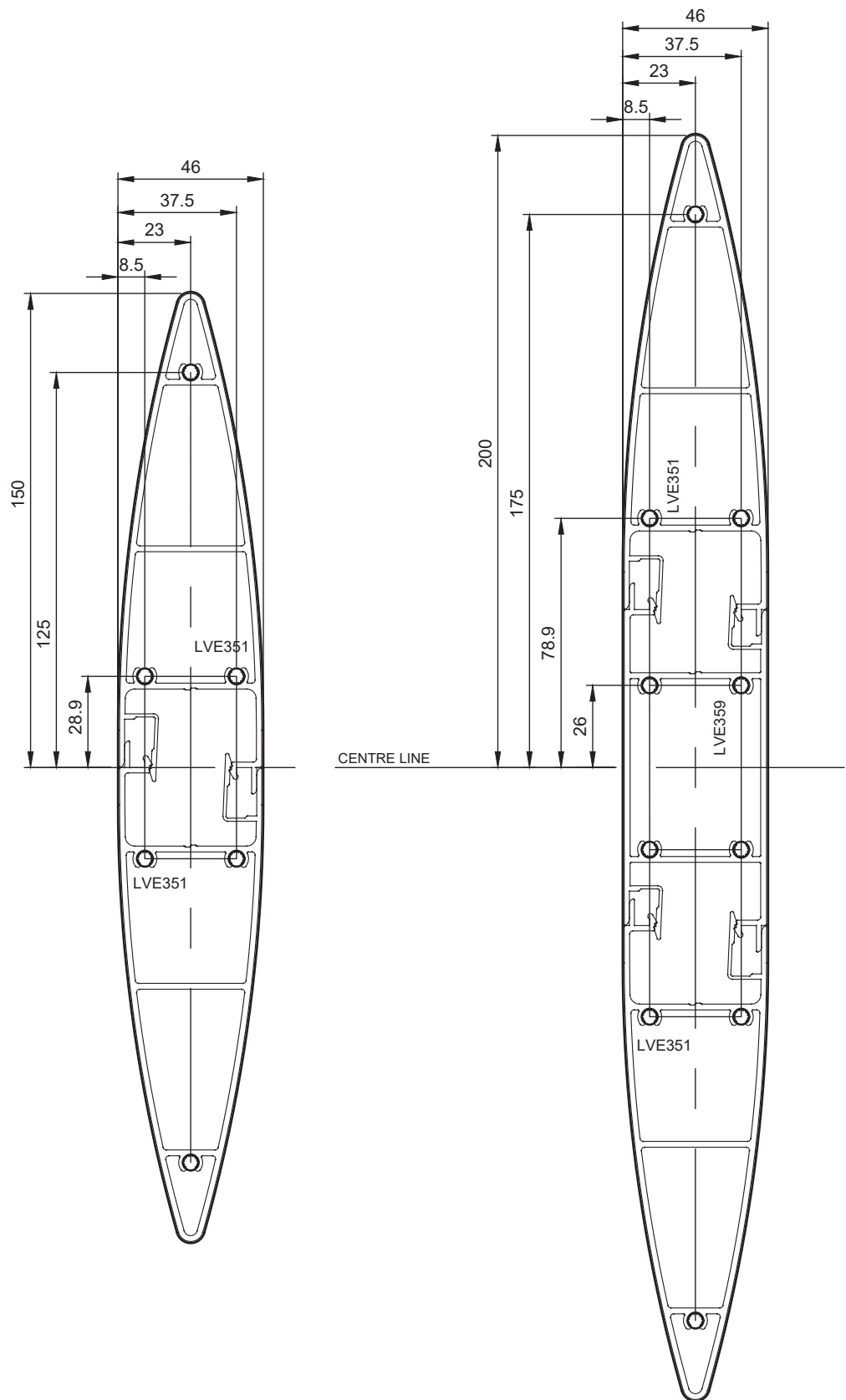
10. Manufacturing Details

End Caps

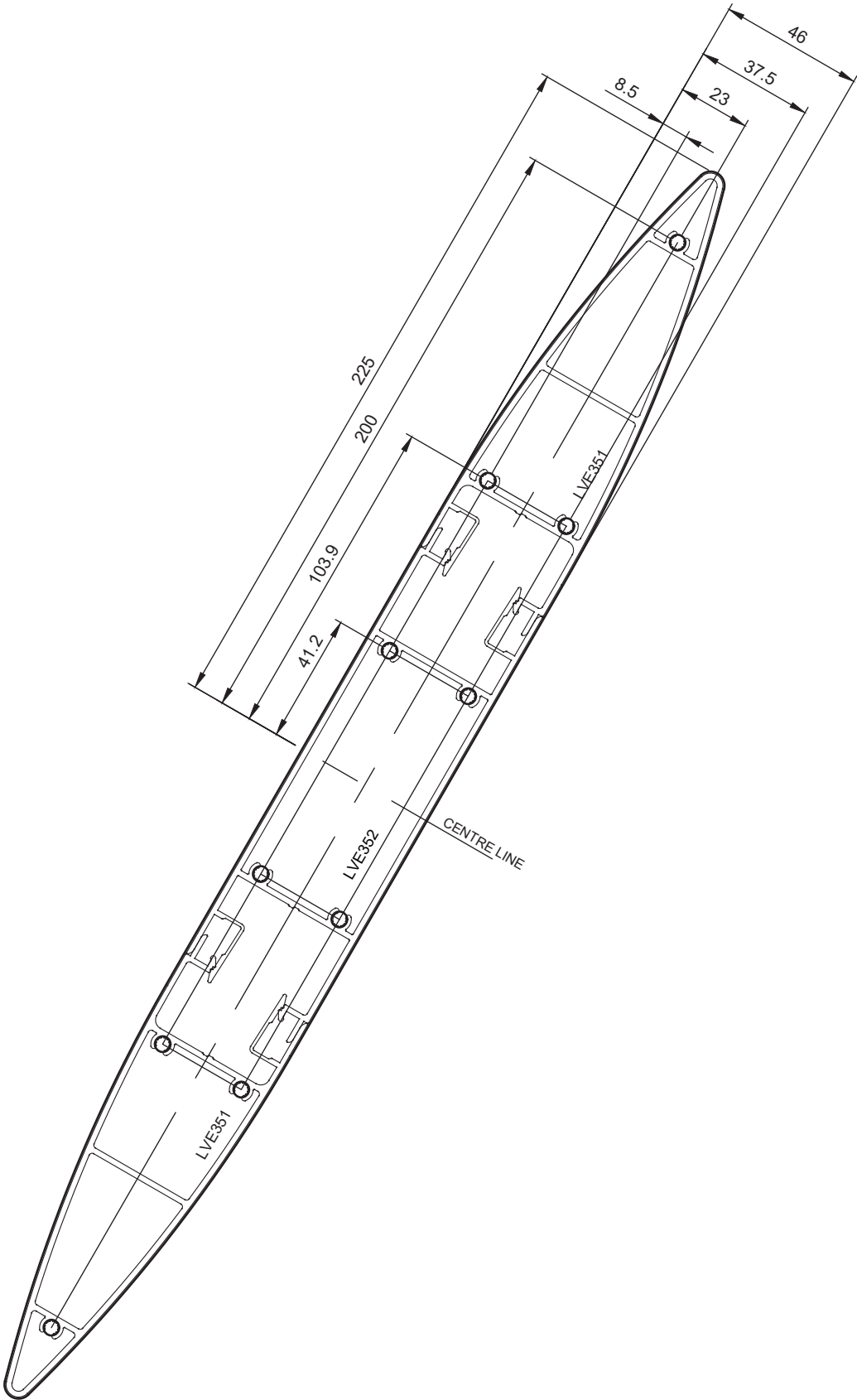


10. Manufacturing Details

End Caps

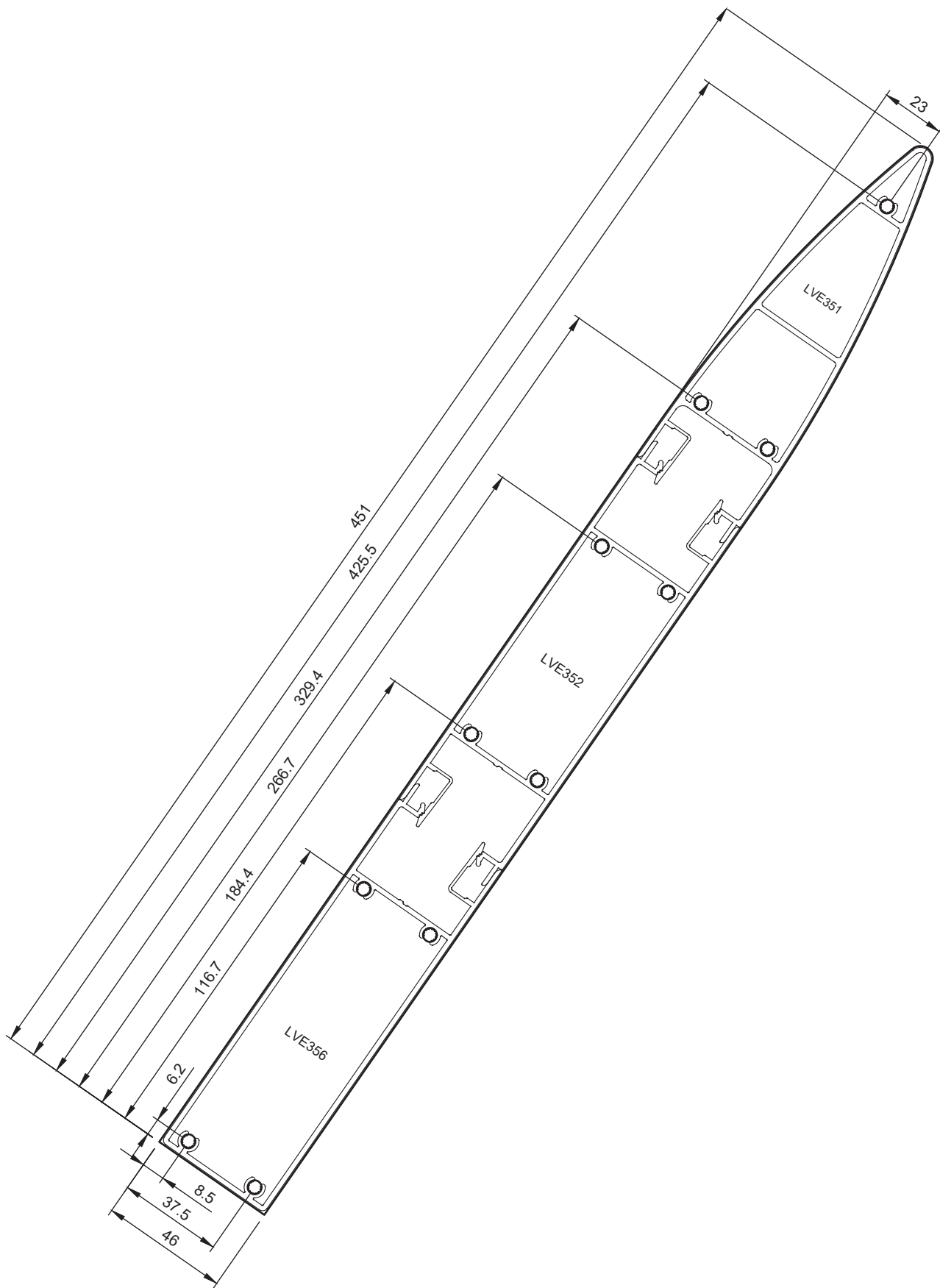


End Caps

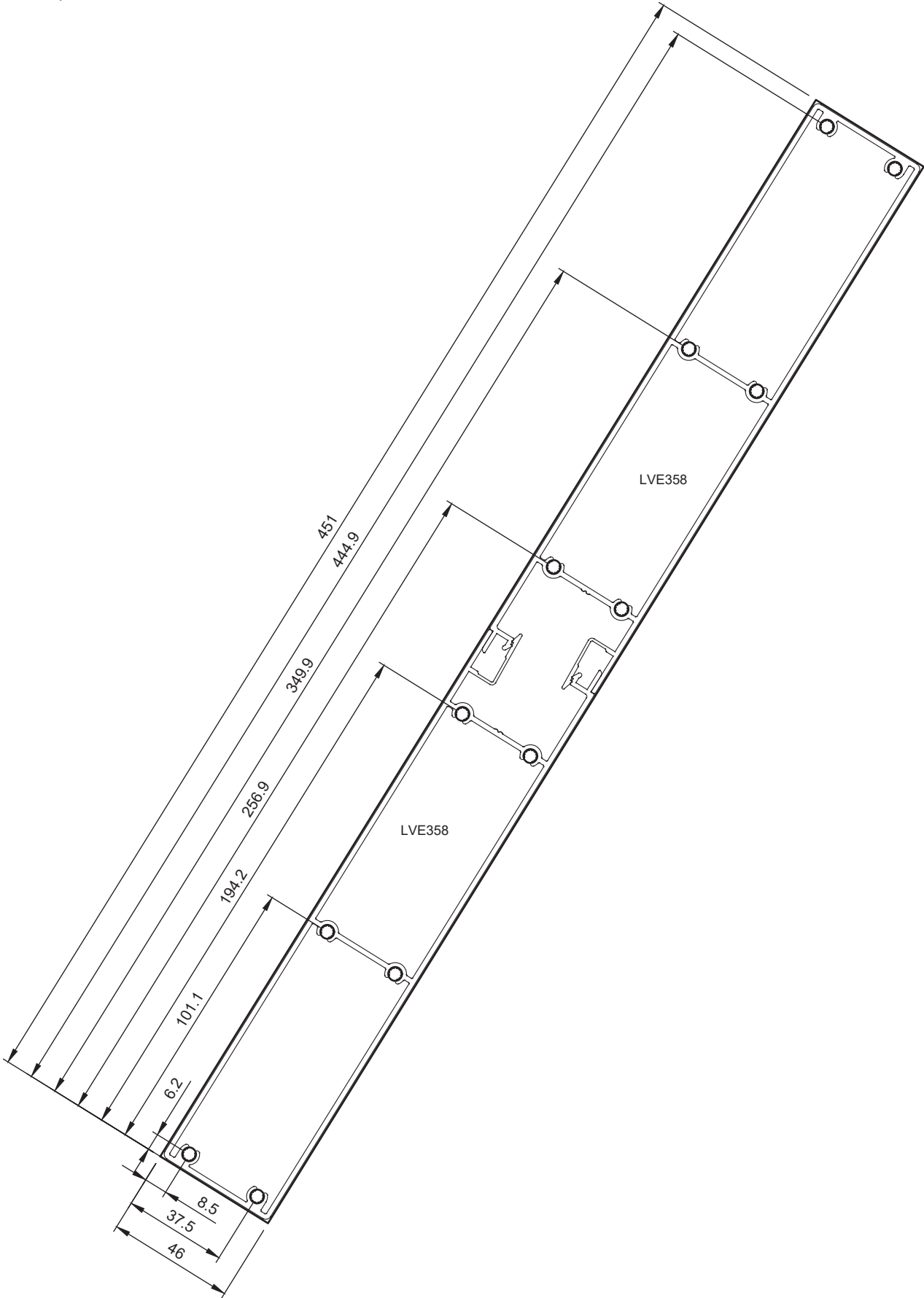


10. Manufacturing Details

End Caps

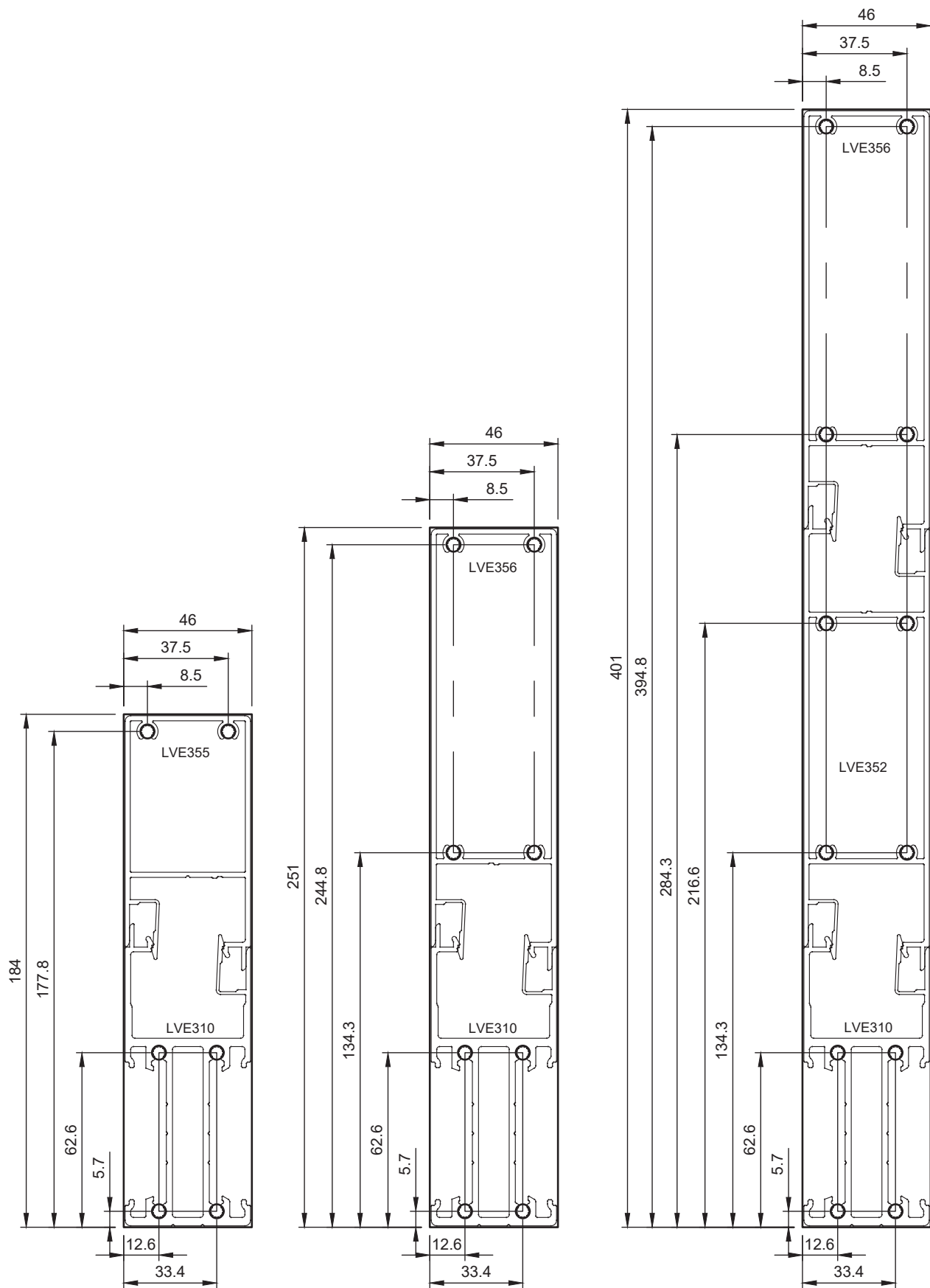


End Caps



10. Manufacturing Details

End Caps

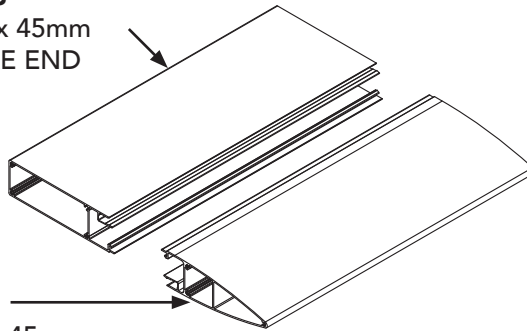


11. Assembly Details

Typical Louvre Blade Assembly

LVE353

17mm x 45mm
LOUVRE END
CAP



STEP ONE:

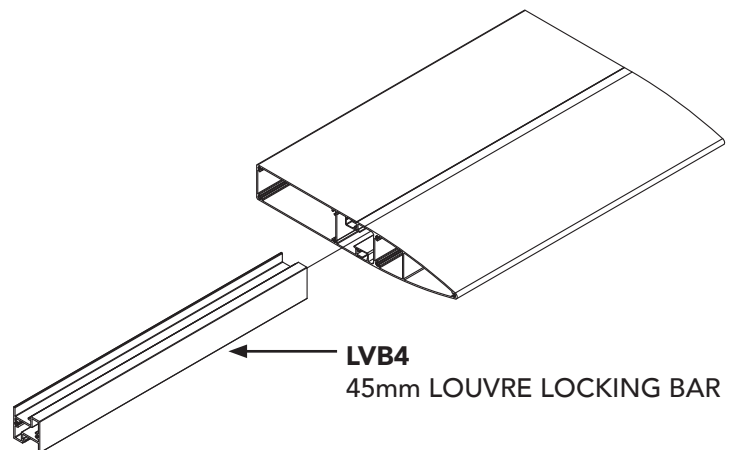
CLICK BLADES TOGETHER TO
FORM THE DESIRED BLADE
WIDTHS.

LVE352

150mm x 45mm
RECTANGULAR
MATING LOUVRE

STEP TWO:

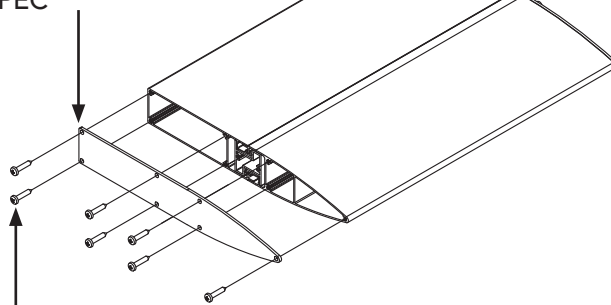
SLIDE IN LVB4 45mm LOUVRE
LOCKING BAR INTO THE JOINT
OF THE BLADES.



LVB4

45mm LOUVRE LOCKING BAR

3mm END CAP CUT
TO REQUIRED SIZE
- NOT SUPPLIED BY
ALSPEC



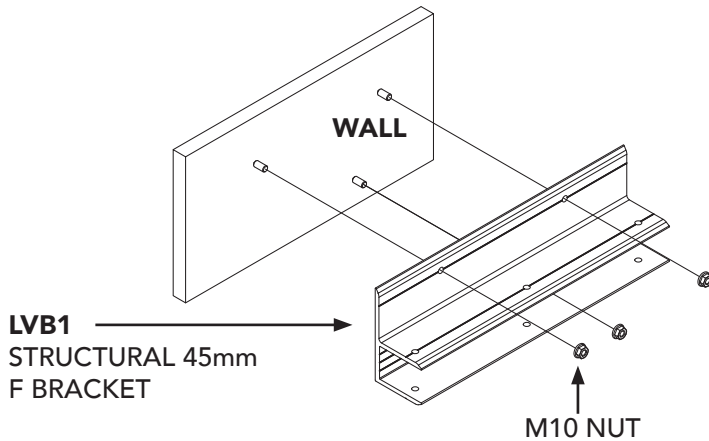
10g x 1(25mm) SS PHIL PAN HEAD
SCREW PAN HEAD SCREWS

STEP THREE:

APPLY THE 3mm END CAP TO
LOUVRE AND SCREW OFF WITH
10g PAN HEAD SCREWS.
END PLATES NOT SUPPLIED BY
ALSPEC HOWEVER END PLATE
DRAWINGS CAN BE SUPPLIED
BY ALSPEC.

11. Assembly Details

Typical LVB1 Assembly Steps



STEP FOUR:

APPLY THE M10 S/STEEL CHEMSET WALL ANCHORS. APPLY LVB1 TO THE WALL FIXINGS, SCREW OFF WITH MATCHING M10 SIZE BOLTS.

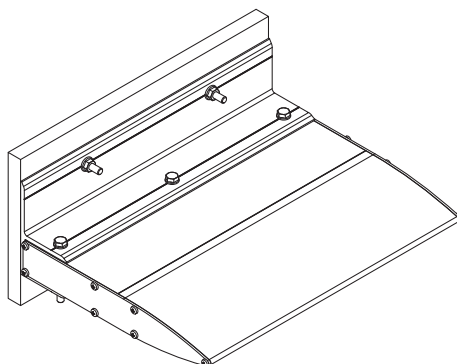
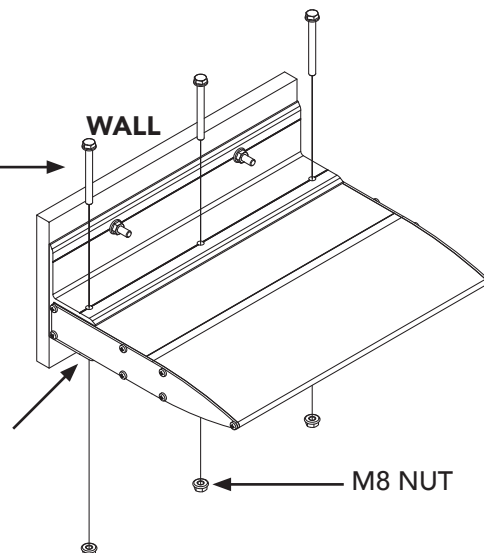
FIXING TYPE AND SPACING TO BE ENGINEERED TO SUIT THE SPECIFIC ONSITE CONDITIONS.

STEP FIVE:
APPLY M8 S/STEEL BOLT THROUGH THE LVB1 BRACKET AND THE LOUVRE. TIGHTEN OFF WITH MACHINING M8 NUTS.

FIXING TYPE AND SPACING TO BE ENGINEERED TO SUIT THE SPECIFIC ONSITE CONDITIONS.

**M8 x 75mm
S/STEEL HEX
BOLT**

**LOUVRE
ASSEMBLED
FROM STEPS
1-3**



STEP SIX:
LOUVRE IS
COMPLETED.

13. Care & Maintenance

FRAMING

Your new **Solaire Louvre Solar Control Solution** frames have been manufactured using the highest quality materials available to the Architectural industry. Constructed from Architectural grade aluminium, these products are highly corrosion resistant and exceptionally strong. With a moderate amount of maintenance, the **Solaire Louvre Solar Control Solution** frame will retain it's good looks and resist the elements for years to come.

The **Solaire Louvre Solar Control Solution** frames are the product of extensive research and development and designed to resist corrosion and rusting, but as with all external elements on the building require some maintenance to keep them looking good and performing well. Depending on how harsh the environment elements are, the maintenance period will vary. Refer to recommended maintenance table below.

Your **Solaire Louvre Solar Control Solution** frames should only ever need to be washed down with a soft bristled brush using warm water and mild detergent. Rinse well with fresh water and remove any detergent residue. Strong detergents and abrasive cleaners should never be used to clean the **Solaire Louvre Solar Control Solution** frames as they may scratch or damage the surface finish.

MAINTENANCE PERIOD TABLE

ENVIRONMENT	RECOMMENDED MAXIMUM MAINTENANCE INTERVAL
Mild	Six Months
Moderate	Three Months
Tropical/Severe	One Month

Environmental Definitions:

Mild – Being rural, away from the coast and remote from industry and urban activity.

Moderate – Being mainly urban, inland and away from heavy industry.

Tropical – Being coastal/marine, subject to salt deposition and within 15km of the Eastern coast or 10km of the Western coast of Australia.

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