

120MM AIRFOIL LOUVRE

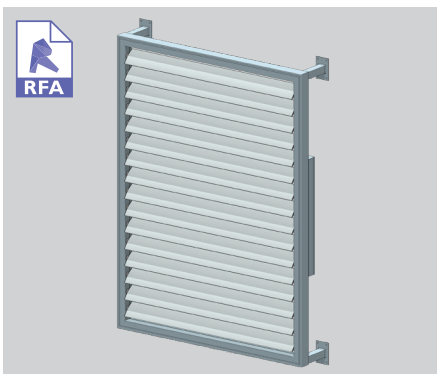
wide range of design applications

This airfoil shaped sun louvre blade combines distinctive styling and cool functionality in one.

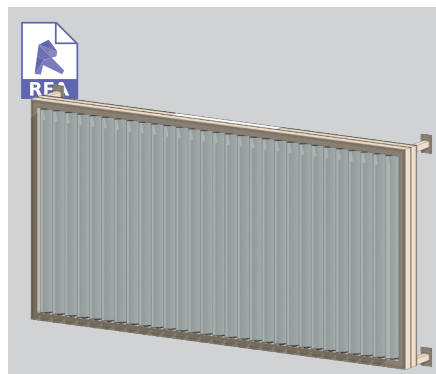
Also available in 180mm wide, both the 120mm and the 180mm Airfoil sun louvre blades provide a wide range of design applications.

Available motorised or hand operable using the Spiral Pivot system. The 120mm Airfoil is ideal for use within a structural frame for external window protection and privacy.

Also available as end fixed or bracket fixed, horizontal or vertical overhead panels.



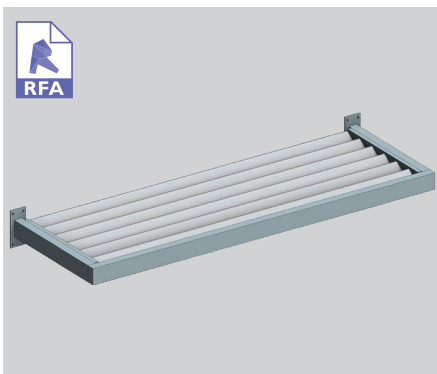
ELAM STREET STRUCTURAL FRAME - HORIZONTAL



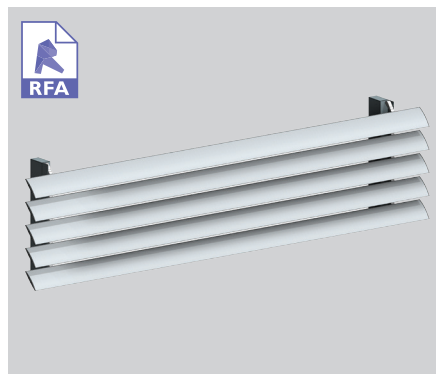
SUPER ELAM STREET STRUCTURAL FRAME WITH SUB-FRAME



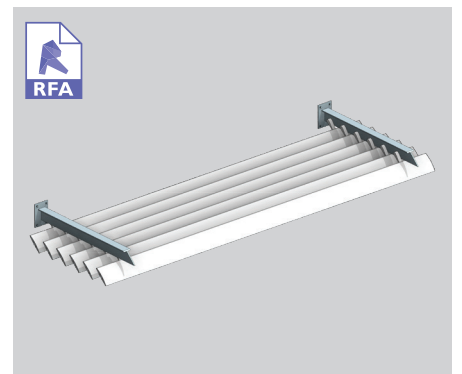
END FIXED - VERTICAL PANEL



END FIXED - OVERHEAD PANEL



BRACKET FIXED - VERTICAL PANEL



BRACKET FIXED - OVERHEAD PANEL

SURFACE COATINGS

A wide range of options are available.



ANODISED



WOOD FINISH



POWDERCOATED

OPERATING THIS SUN LOUVRE - THE CHOICE IS YOURS

Fixed options

Operable systems



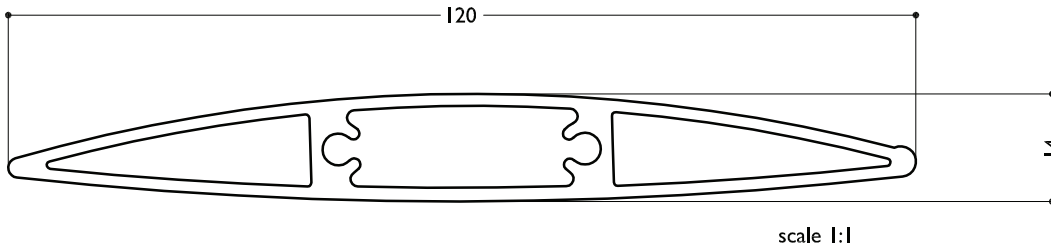
LOUVRETEC GEARBOX



MOTORS AND SENSORS



TECHNICAL DETAILS 120MM AIRFOIL LOUVRE



BLADE SPECIFICATIONS			
Blade cover - opening system	115 mm	Weight per lineal metre	1.3 kg/lm
Weight per square metre - opening system	11.3 kg/sqm	Actual blade width	120 mm
Blade centres - opening system	115 mm		

SPANS AT A GLANCE NB Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s 115 km/hr	37 m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Ultimate limit state loads (kPa)		+0.92 & -1.15	+1.23 & -1.53	+1.74 & -2.17	+2.24 & -2.80	+2.71 & -3.39
Adjustable and Fixed - horizontal & vertical	2400	2300	2100	1850	1700	1600

INSTALLATION OPTIONS



SPIRAL PIVOT SYSTEM: CALCULATE OPTIMUM FRAME OPENING SIZES

Width: Check engineering limits
Height: Calculation example showing 17 blades

STEP 1

16 blades x 115	1840
1 blade at 120	120
17 blades	=1960

STEP 2

Blade cover	1960
+ top and bottom closing angles allow for	
5mm + 5mm	10
Total exact opening height	=1970*

*This is inside measure - not outer frame size



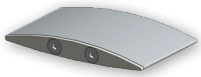
END FIXED

Louvres at any pitch
Louvres at any centre



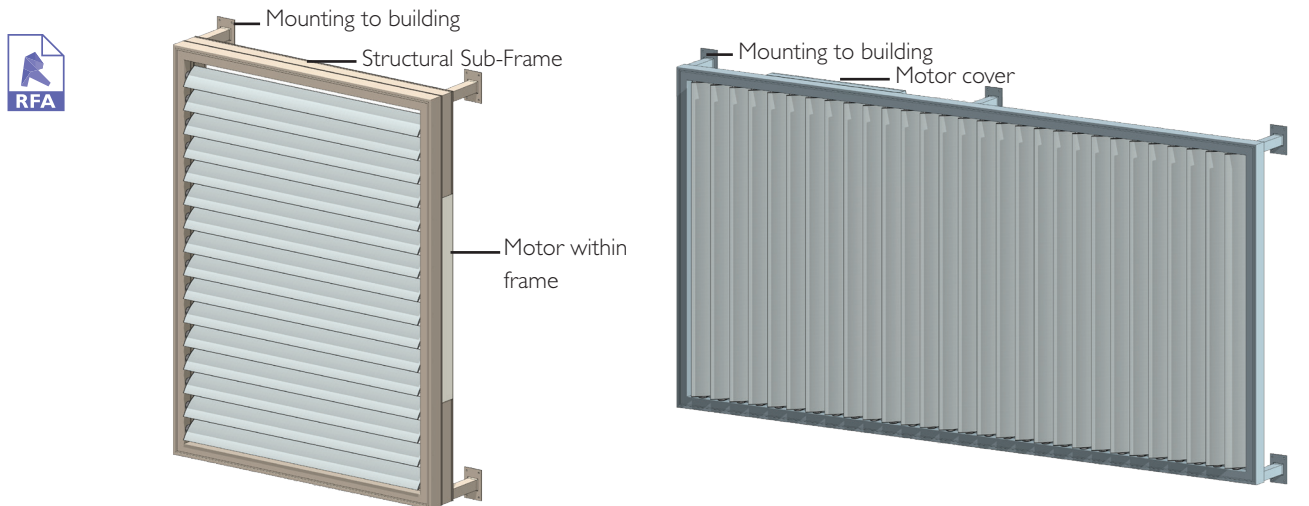
BRACKET FIXED

Louvres at any pitch
Louvres at any centre



TECHNICAL DETAILS | 120MM AIRFOIL LOUVRE SPIRAL PIVOT

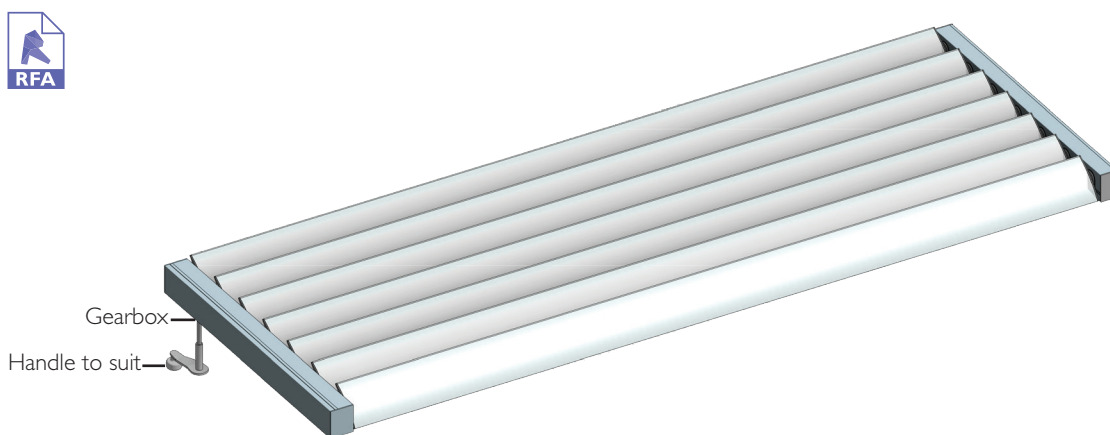
TYPICAL DETAIL 3D MODELS | 120MM AIRFOIL SPIRAL PIVOT MOTORISED LOUVRE



Super Elam Street Structural Frame
Vertical panel - horizontal blades

Elam Street Structural Frame
Vertical panel - vertical blades

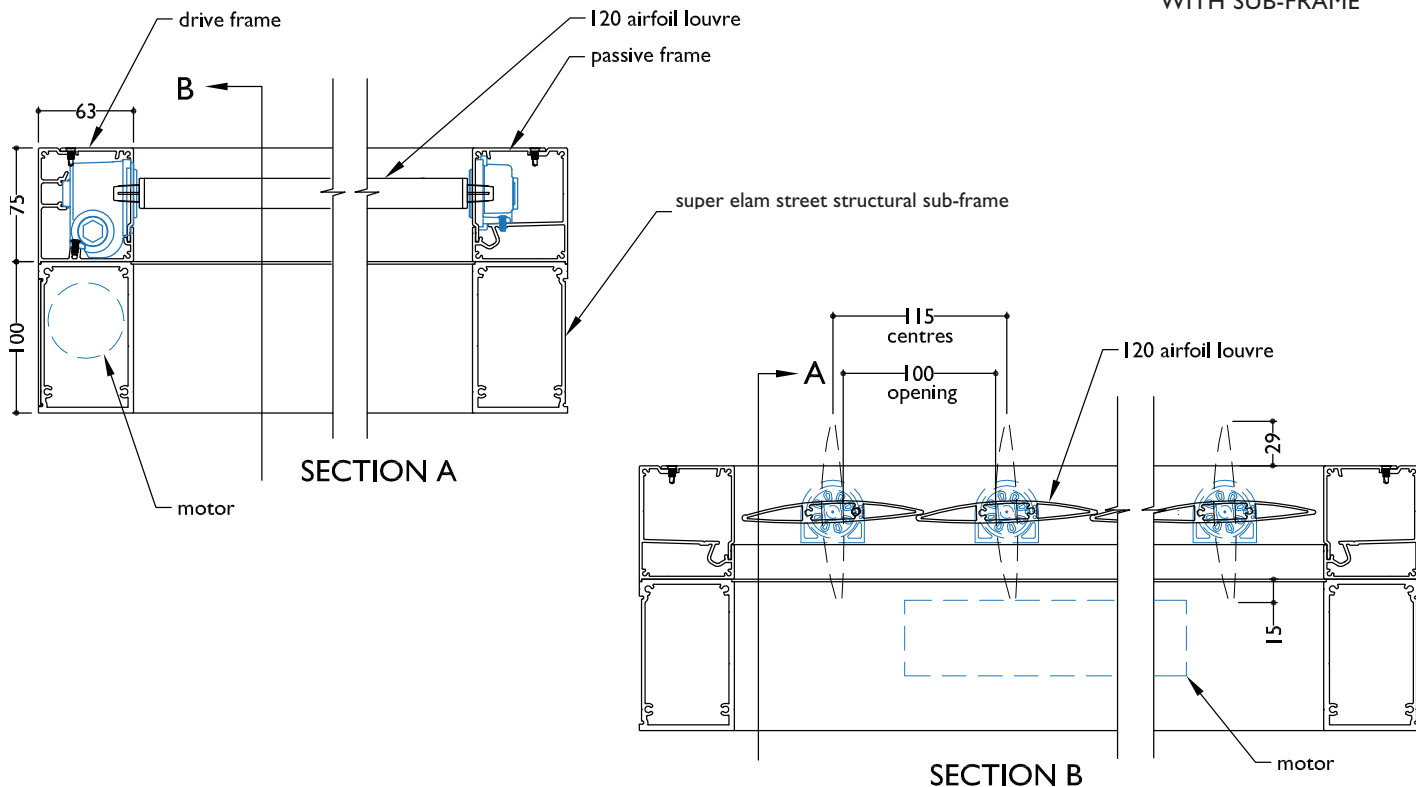
TYPICAL DETAIL 3D MODEL | 120MM AIRFOIL SPIRAL PIVOT HAND OPERABLE LOUVRE



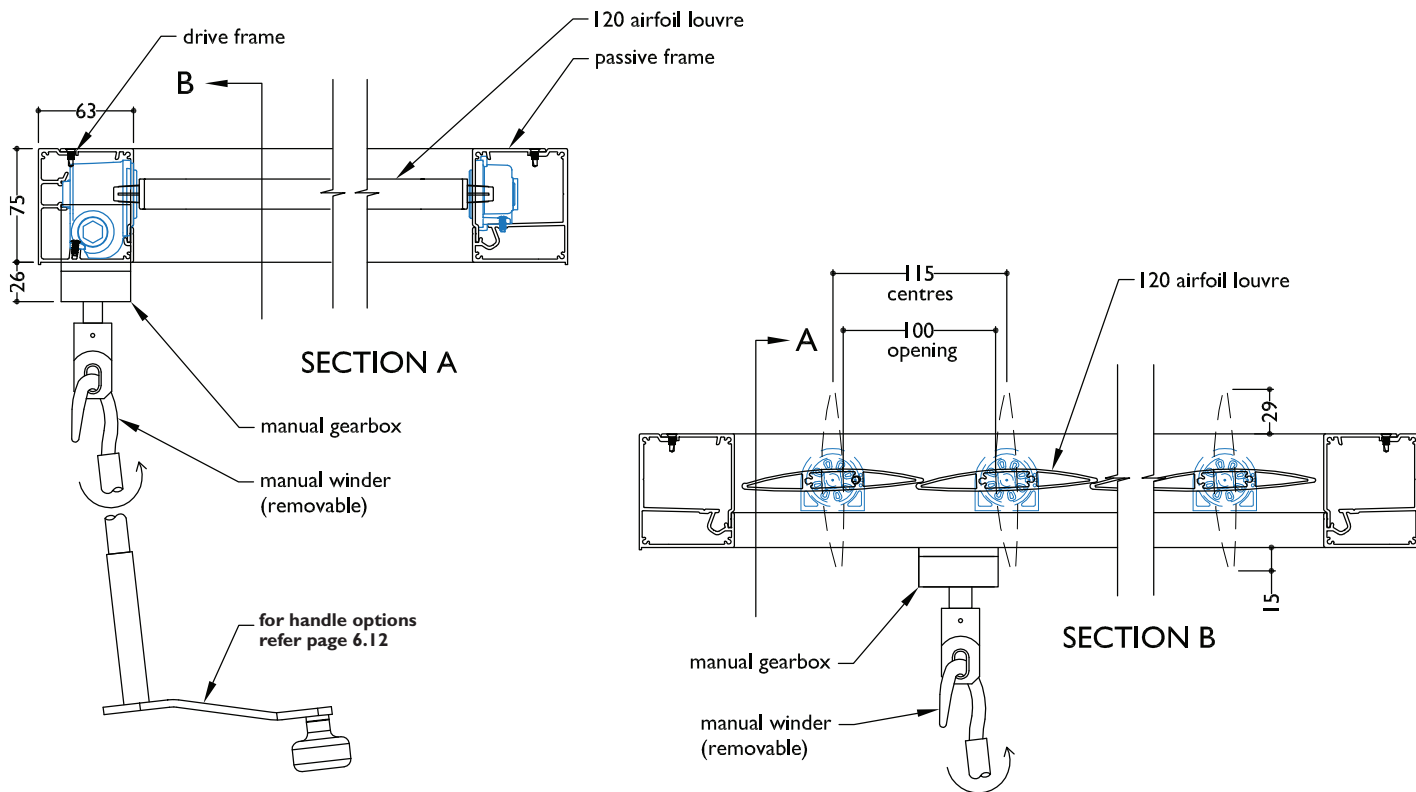
120mm Airfoil louvre Spiral Pivot overhead panel - hand operable

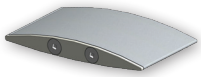
TYPICAL DETAIL : 120MM AIRFOIL LOUVRE SPIRAL PIVOT

SECTION - MOTORISED 120MM AIRFOIL LOUVRE SPIRAL PIVOT ON SUPER ELAM STREET STRUCTURAL FRAME WITH SUB-FRAME



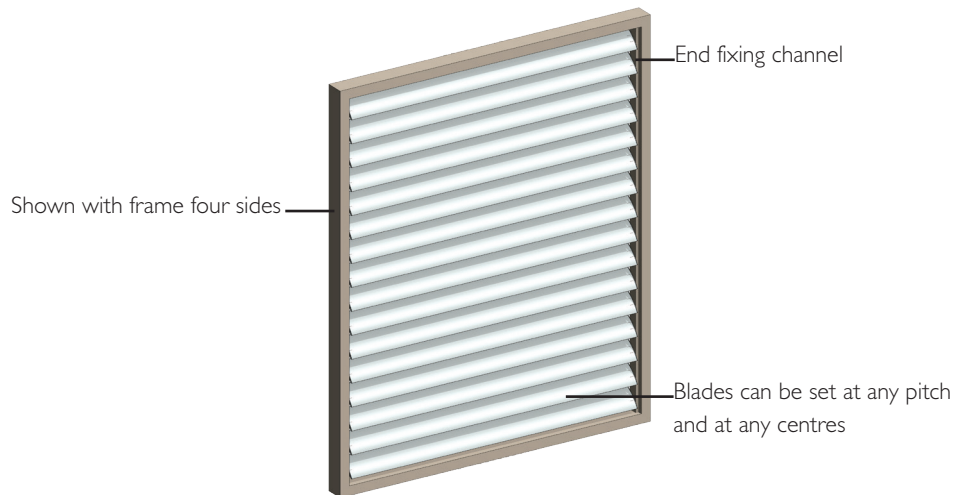
TYPICAL DETAIL : ELAM STREET STRUCTURAL FRAME HAND OPERABLE SPIRAL PIVOT 120MM AIRFOIL LOUVRE





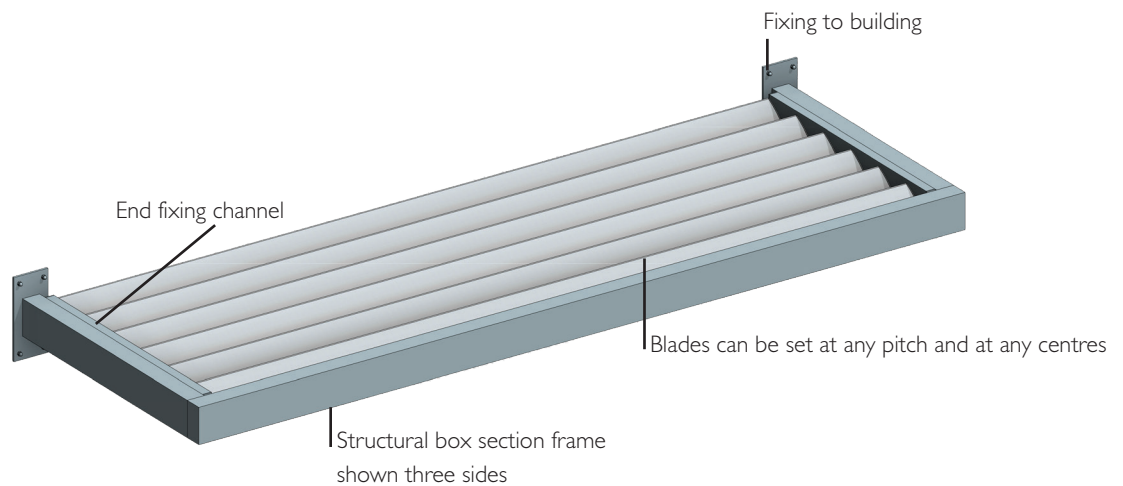
TECHNICAL DETAILS | 120MM AIRFOIL LOUVRE - END FIXED

TYPICAL DETAIL 3D MODEL | 120MM AIRFOIL LOUVRES END FIXED - VERTICAL PANEL



End fixed vertical panel

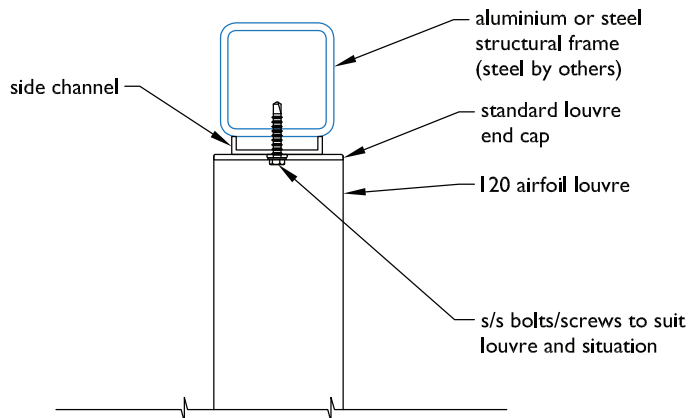
TYPICAL DETAIL 3D MODEL | 120MM AIRFOIL LOUVRES END FIXED OVERHEAD PANEL



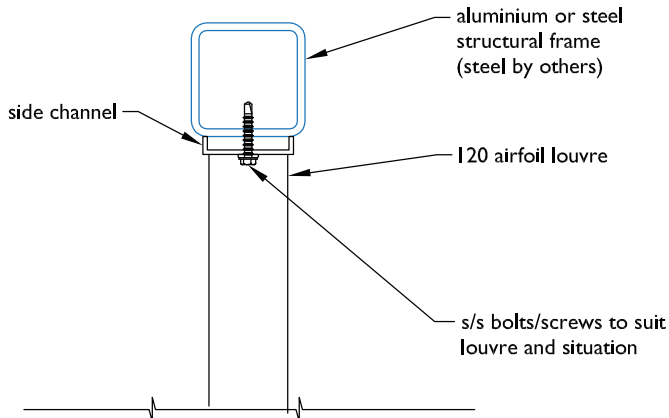
End fixed overhead panel

TYPICAL DETAIL : 120MM AIRFOIL LOUVRE - END FIXED

PLAN

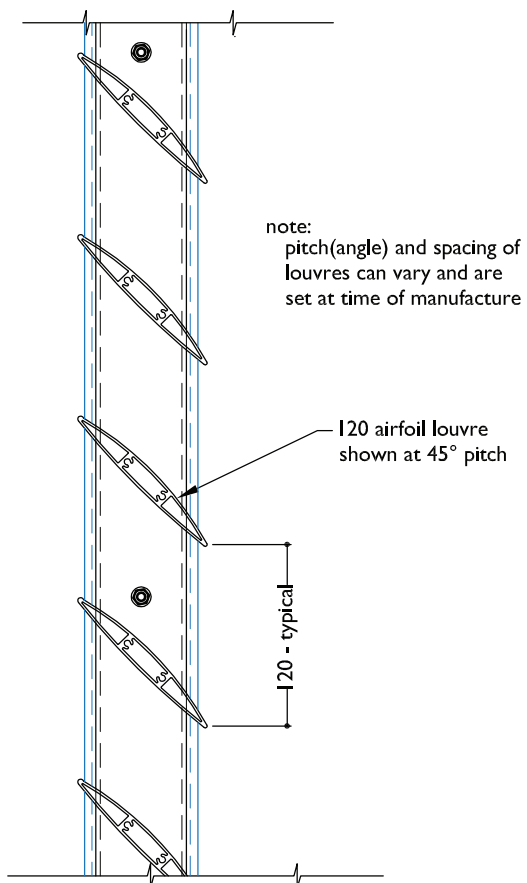


On side channel
end caps required

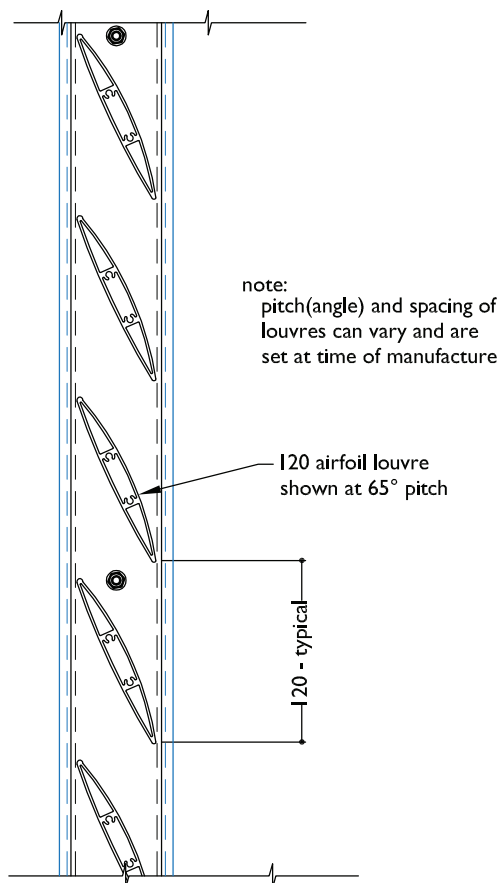


On side channel
no end caps required

SECTION



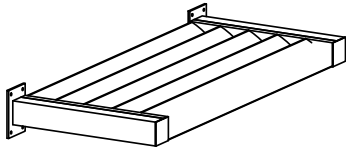
Louvres outside side channel
end caps required



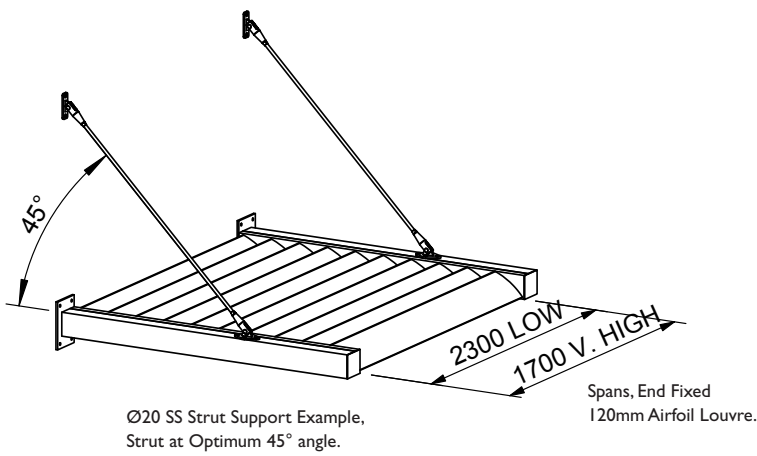
Within side channel
no end caps required

TYPICAL DETAIL : END FIXED OVERHEAD SUN LOUVRES 120MM AIRFOILS & 150MM MIDI LOUVRES SPANS AT A GLANCE

TYPICAL DETAIL OVERHEAD EYEBROW END FIXED LOUVRES

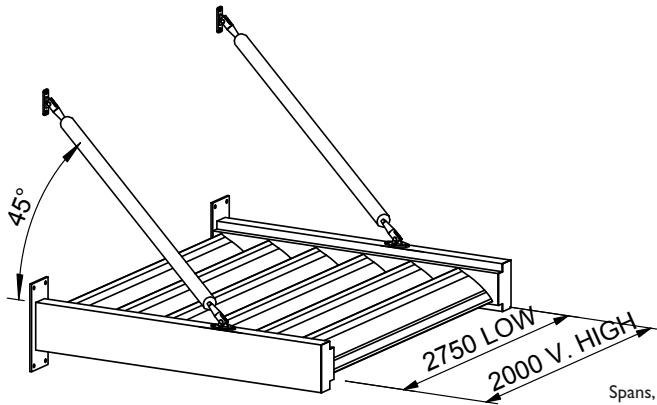


Free Span Example



Ø20 SS Strut Support Example, Strut at Optimum 45° angle.

Spans, End Fixed 120mm Airfoil Louvre.



Ø42 SS Strut Support Example, Strut at Optimum 45° angle.

Spans, End Fixed 150mm Midi Louvre.

CALCULATIONS FOR BLADE SPANS SHOW RANGE FROM

Low Wind Zone 115km/h, 32m/s to
Extra High Wind Zone 198km/h, 55m/s
Refer Engineering Details, Section 11

KEY

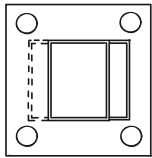
- LF = Free span
- LS15 = Strut @ 15°
- LS30 = Strut @ 30°
- LS45 = Strut @ 45°

Plain Column:
Low - Med Wind Zone.
Up to 133Km/h - 37m/s

Shaded Column:
High - VHigh Wind Zone.
Up to 179Km/h - 50m/s

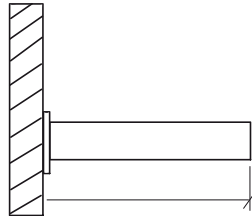
TYPICAL DETAIL : END FIXED OVERHEAD WALL STRUTS FOR 120MM AIRFOILS & 150MM MIDI LOUVRES SPANS AT A GLANCE

TYPICAL DETAIL OVERHEAD EYEBROW END FIXED LOUVRES



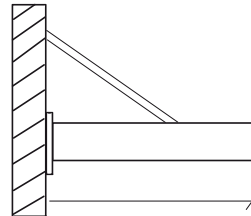
Base Plate: 100 x 150 x 6mm
 Box Section: 75 x 50 x 2.5mm
 Channel: 75 x 25 x 3mm

Free Span



LF	LF
600	500

Strut Support

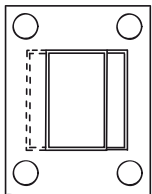


Strut Ø16mm
 Stainless steel

LS15	LS15
1000	800

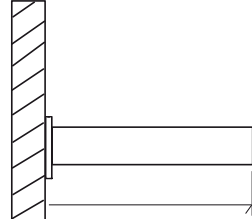
LS30	LS30
1100	900

LS45	LS45
1100	900



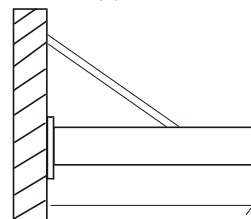
Base Plate: 100 x 225 x 6mm
 Box Section: 100 x 50 x 3mm
 Channel: 100 x 25 x 3mm

Free Span



LF	LF
800	700

Strut Support

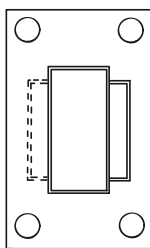


Strut Ø20mm
 Stainless steel

LS15	LS15
1200	1000

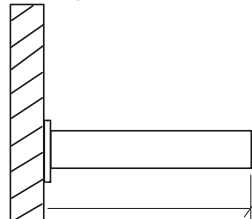
LS30	LS30
1400	1200

LS45	LS45
1500	1200



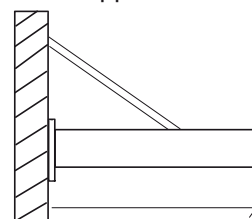
Base Plate: 100 x 275 x 6mm
 Box Section: 150 x 50 x 3mm
 Channel: 100 x 25 x 3mm

Free Span



LF	LF
1200	1000

Strut Support

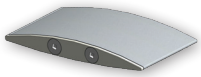


Strut Ø42mm
 Stainless steel

LS15	LS15
1700	1300

LS30	LS30
1800	1600

LS45	LS45
2000	1700



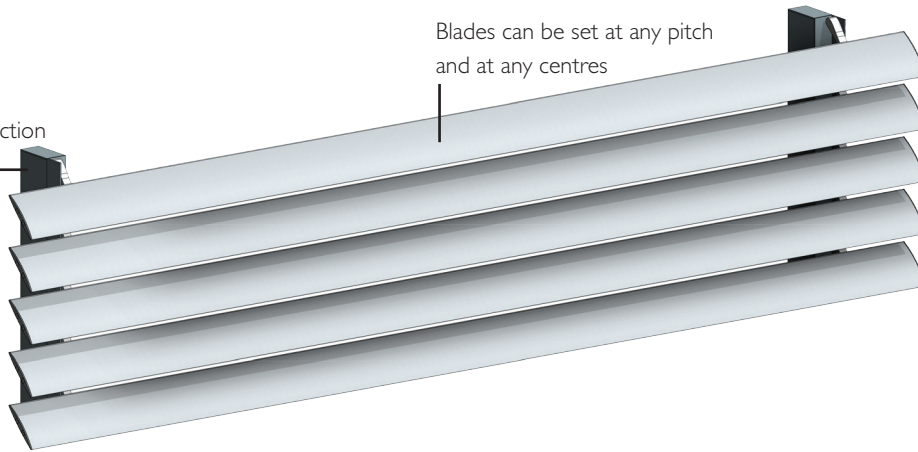
TECHNICAL DETAILS 120MM AIRFOIL LOUVRES - BRACKET FIXED

TYPICAL DETAIL 3D MODEL 120MM AIRFOIL LOUVRES BRACKET FIXED VERTICAL PANEL



Structural box section and fixing angle

Blades can be set at any pitch and at any centres



Bracket fixed vertical panel

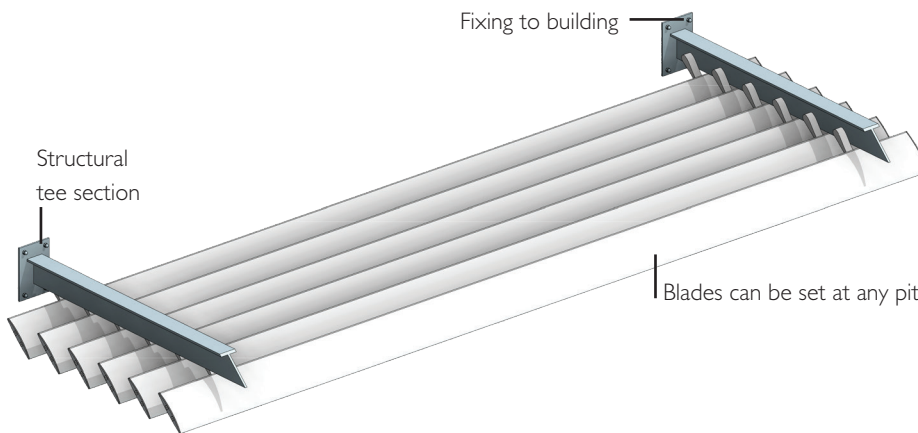
TYPICAL DETAIL 3D MODEL 120MM AIRFOIL LOUVRES BRACKET FIXED OVERHEAD PANEL



Structural tee section

Fixing to building

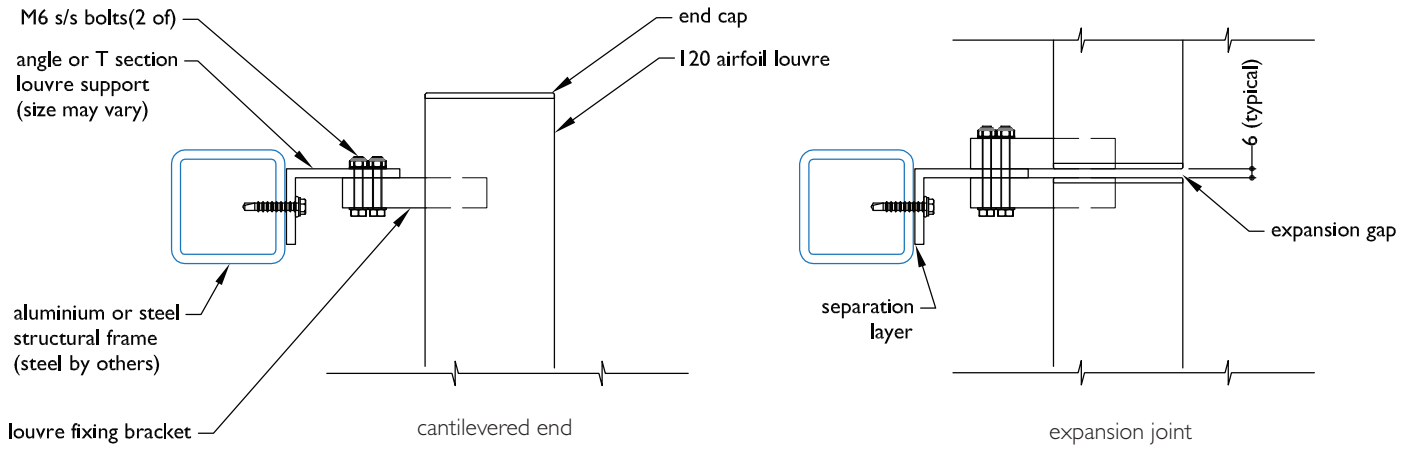
Blades can be set at any pitch and at any centres



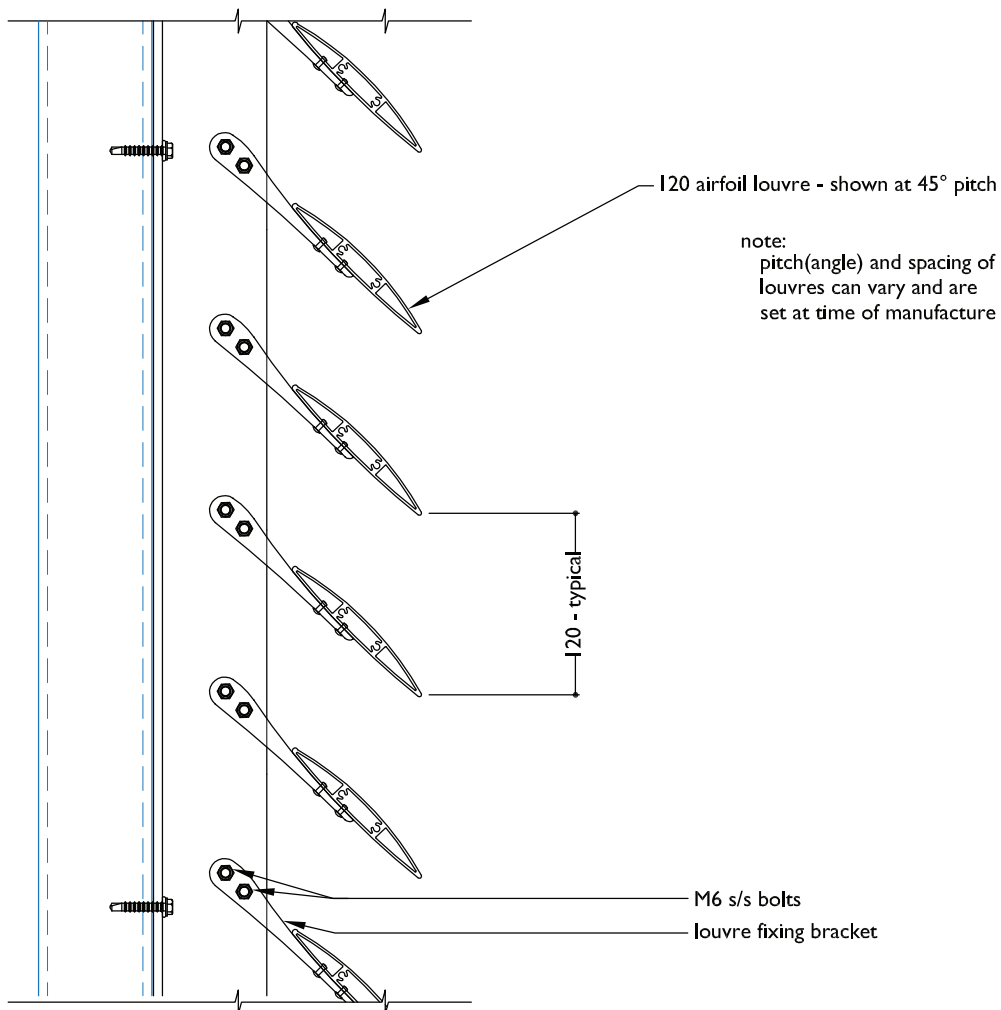
Bracket fixed overhead panel

TYPICAL DETAIL : BRACKET FIXED I 20MM AIRFOIL LOUVRE PANELS

PLAN

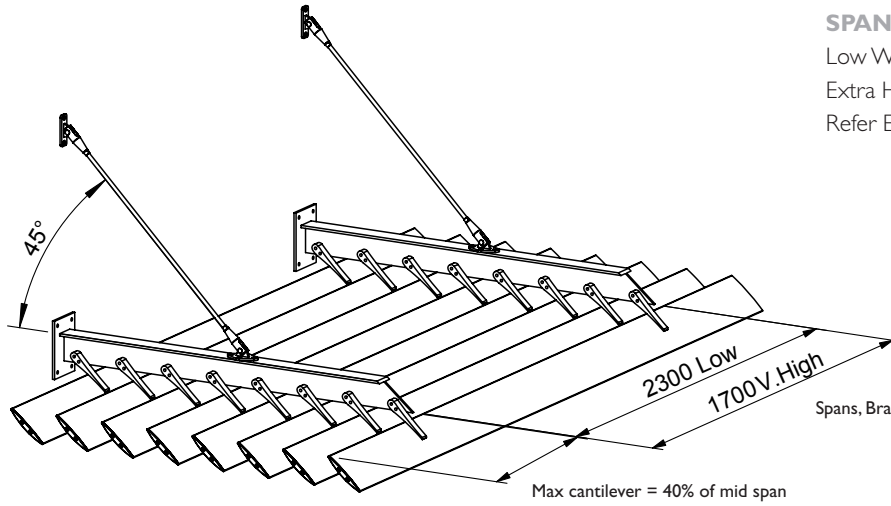


SECTION



TYPICAL DETAIL : BRACKET FIXED OVERHEAD SUN LOUVRES 120MM AIRFOILS & 150MM MIDI BLADES SPANS AT A GLANCE

OVERHEAD EYEBROW BRACKET FIXED LOUVRES

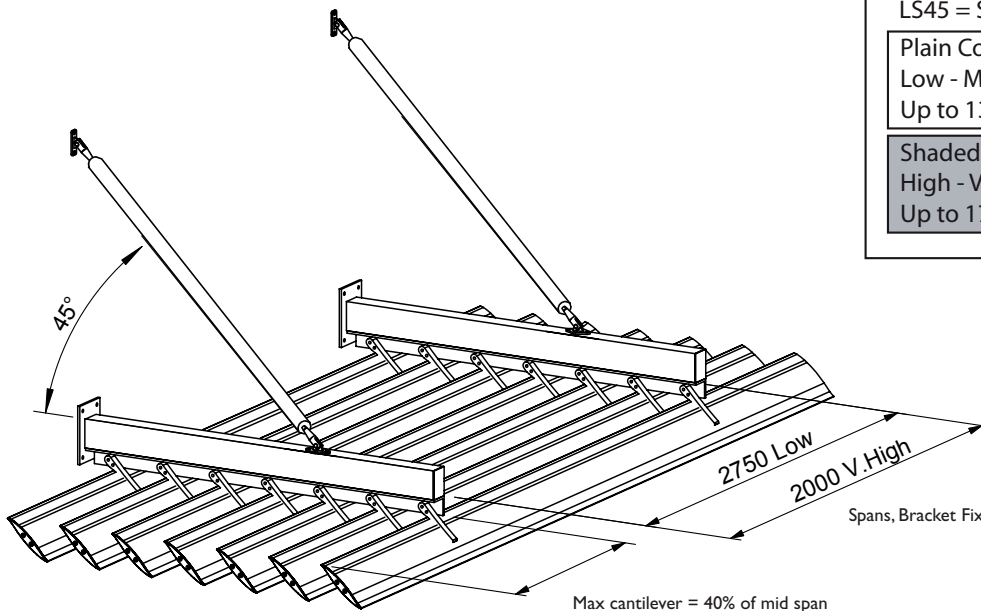


Ø20 SS Strut Support Example,
Strut at Optimum 45° angle.

CALCULATIONS FOR BLADE SPANS SHOW RANGE FROM

Low Wind Zone | 15km/h, 32m/s to
Extra High Wind Zone | 198km/h, 55m/s
Refer Engineering Details, Section 11

Spans, Bracket Fixed 120mm Airfoil Louvre.



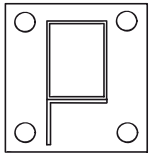
Ø42 SS Strut Support Example,
Strut at Optimum 45° angle.

Spans, Bracket Fixed 150mm Midi Louvre.

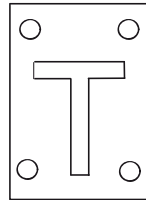
KEY	
LF	= Free span
LS15	= Strut @ 15°
LS30	= Strut @ 30°
LS45	= Strut @ 45°
Plain Column: Low - Med Wind Zone. Up to 133Km/h - 37m/s	
Shaded Column: High - VHigh Wind Zone. Up to 179Km/h - 50m/s	

TYPICAL DETAIL : BRACKET FIXED OVERHEAD WALL STRUTS FOR 120MM AIRFOILS & 150MM MIDI LOUVRES SPANS AT A GLANCE

TYPICAL DETAIL OVERHEAD EYEBROW DETAIL

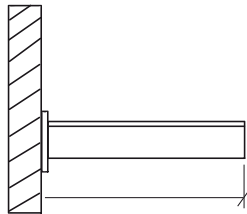


Base Plate:
150 x 100 x 6mm
Box Section:
75 x 50 x 2.5mm
Angle:
50 x 50 x 3mm



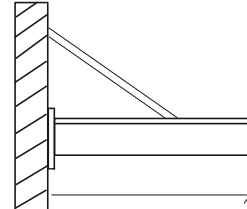
Base Plate: 120 x 100 x 6mm
'T' Section: 75 x 50 x 6mm

Free Span



LF	LF
600	500

Strut Support

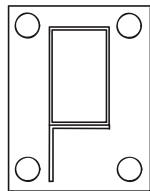


Strut Ø16mm
Stainless steel

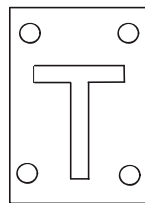
LS15	LS15
1000	800

LS30	LS30
1100	900

LS45	LS45
1100	900

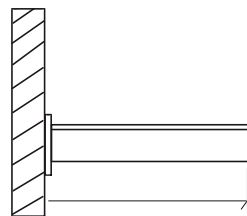


Base Plate:
225 x 100 x 6mm
Box Section:
100 x 50 x 3mm
Angle:
50 x 50 x 6mm



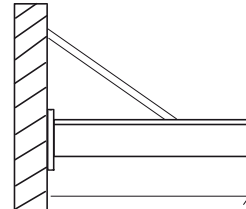
Base Plate: 170 x 100 x 6mm
'T' Section: 100 x 50 x 6mm

Free Span



LF	LF
900	700

Strut Support

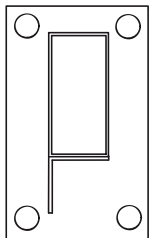


Strut Ø20mm
Stainless steel

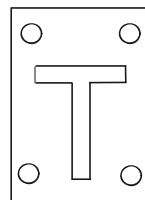
LS15	LS15
1300	1100

LS30	LS30
1500	1200

LS45	LS45
1500	1300

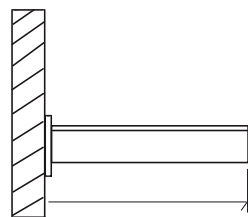


Base Plate:
275 x 100 x 6mm
Box Section:
150 x 50 x 3mm
Angle:
50 x 50 x 6mm



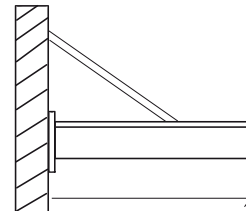
Base Plate: 170 x 100 x 6mm
'T' Section: 100 x 50 x 6mm

Free Span



LF	LF
1200	1000

Strut Support



Strut Ø42mm
Stainless steel

LS15	LS15
1800	1400

LS30	LS30
2000	1600

LS45	LS45
2100	1700