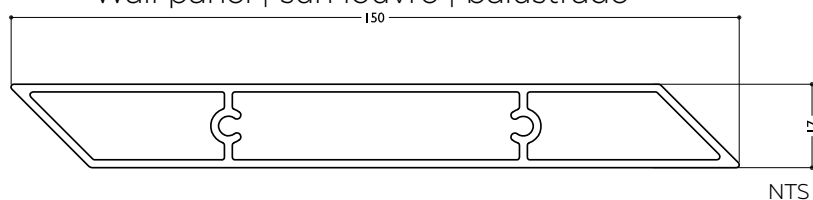


## GROUP 4 LOUVRES

Weatherboard shaped louvres: 150mm Helena Bay, 125mm Weatherboard Panel, 180mm Weatherboard Panel

### 150MM HELENA BAY 45° FIXED WEATHERBOARD PANEL

Wall panel | sun louvre | balustrade



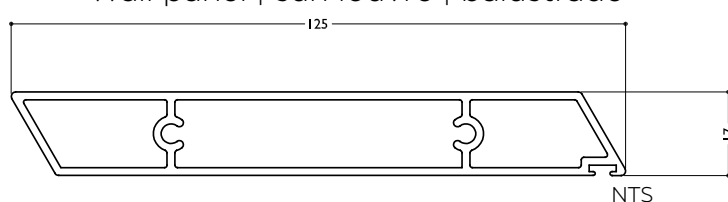
REFER TECHNICAL DETAILS PAGES 10.4.25



150MM HELENA BAY  
45° FIXED

### 125MM WEATHERBOARD PANEL

Wall panel | sun louvre | balustrade



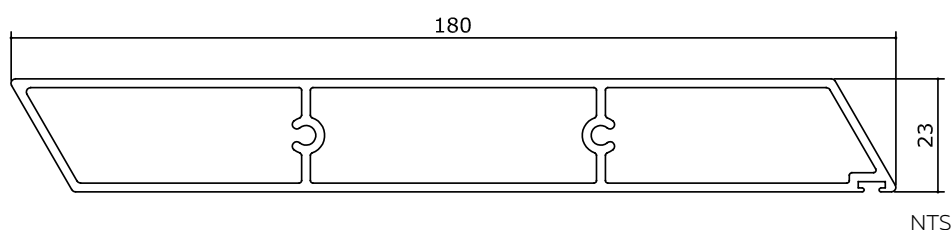
REFER TECHNICAL DETAILS PAGES 10.4.26



125MM WEATHERBOARD  
PANEL

### 180MM WEATHERBOARD PANEL

Wall panel | sun louvre | balustrade



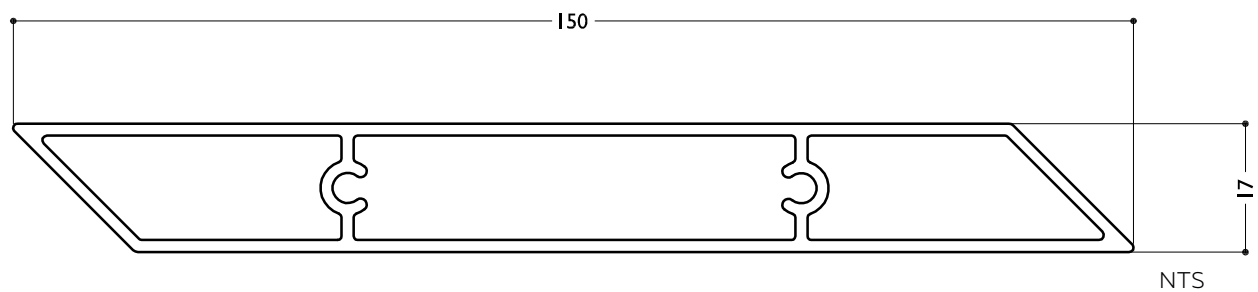
REFER TECHNICAL DETAILS PAGES 10.4.27



180MM WEATHERBOARD  
PANEL



BLADE SPECIFICATIONS 150MM HELENA BAY 45° FIXED



| BLADE SPECIFICATIONS - END OR BRACKET FIXED ONLY |     |                                          |           |
|--------------------------------------------------|-----|------------------------------------------|-----------|
| Blade cover - opening system                     | N/A | Weight per linear metre - opening system | 1.5 kg/lm |
| Weight per square metre - opening system         | N/A | Actual blade width                       | 148 mm    |
| Blade centres - opening system                   | N/A |                                          |           |

SPANS AT A GLANCE

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<br>115 km/hr | 37m/s<br>133 km/hr | 44 m/s<br>158 km/hr | 50 m/s<br>179 km/hr | 55 m/s<br>198 km/hr |
| Fixed, Horizontal & Vertical    | 3200    | 3050                | 2750               | 2400                | 2200                | 2050                |

INSTALLATION OPTIONS



**END FIXED**  
Louvres at any pitch  
Louvres at any centre



END FIXED OVERHEAD PANEL - HORIZONTAL LOUVRES



**BRACKET FIXED**  
Louvres at any pitch  
Louvres at any centre



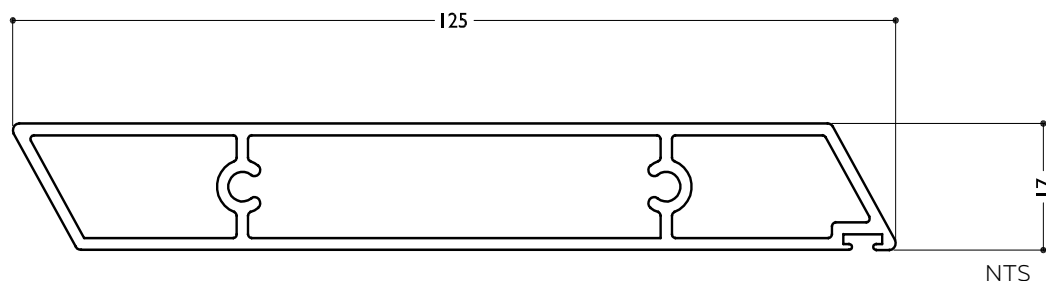
BRACKET FIXED VERTICAL PANEL - HORIZONTAL LOUVRES

SUN LOUVRES END FIXED  
125MM WEATHERBOARD PANEL

(GROUP 4 LOUVRES COLLECTION)



BLADE SPECIFICATIONS 125MM WEATHERBOARD PANEL



| BLADE SPECIFICATIONS                     |           |                                          |            |
|------------------------------------------|-----------|------------------------------------------|------------|
| Blade cover - opening system             | 115 mm    | Weight per linear metre - opening system | 1.33 kg/lm |
| Weight per square metre - opening system | 12 kg/sqm | Actual blade width                       | 125 mm     |
| Blade centres - opening system           | 115 mm    |                                          |            |

SPANS AT A GLANCE

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<br>115 km/hr | 37m/s<br>133 km/hr | 44 m/s<br>158 km/hr | 50 m/s<br>179 km/hr | 55 m/s<br>198 km/hr |
| Adjustable & Fixed, Horizontal & Vertical | 2600    | 2500                | 2300               | 2050                | 1900                | 1750                |

INSTALLATION OPTIONS



END FIXED

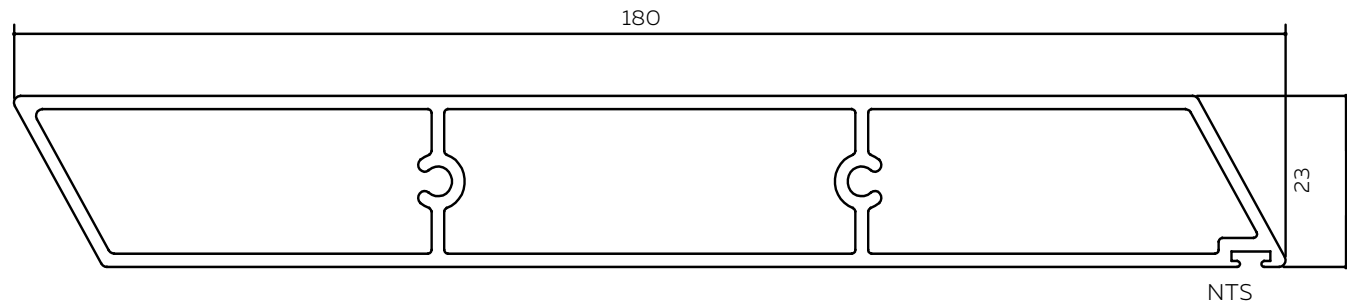
Louvres at any pitch  
Louvres at any centre



END FIXED VERTICAL PANEL - HORIZONTAL LOUVRES



BLADE SPECIFICATIONS 180MM WEATHERBOARD PANEL



| BLADE SPECIFICATIONS - END OR BRACKET FIXED ONLY |           |                                          |            |
|--------------------------------------------------|-----------|------------------------------------------|------------|
| Blade cover - opening system                     | 169 mm    | Weight per linear metre - opening system | 2.12 kg/lm |
| Weight per square metre - opening system         | 13 kg/sqm | Actual blade width                       | 180 mm     |
| Blade centres - opening system                   | 169 mm    |                                          |            |

SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

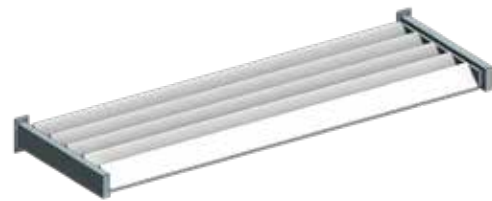
| WIND ZONE                                 | INSIDE  | LOW                 | MEDIUM             | HIGH                | VERY HIGH           | EXTRA HIGH          |
|-------------------------------------------|---------|---------------------|--------------------|---------------------|---------------------|---------------------|
| Factored wind speed at building           | Self wt | 32 m/s<br>115 km/hr | 37m/s<br>133 km/hr | 44 m/s<br>158 km/hr | 50 m/s<br>179 km/hr | 55 m/s<br>198 km/hr |
| Adjustable & Fixed, Horizontal & Vertical | 3200    | 3050                | 2800               | 2500                | 2300                | 2100                |

INSTALLATION OPTIONS



END FIXED

- Louvres at any pitch
- Louvres at any centre



END FIXED OVERHEAD PANEL - HORIZONTAL LOUVRES

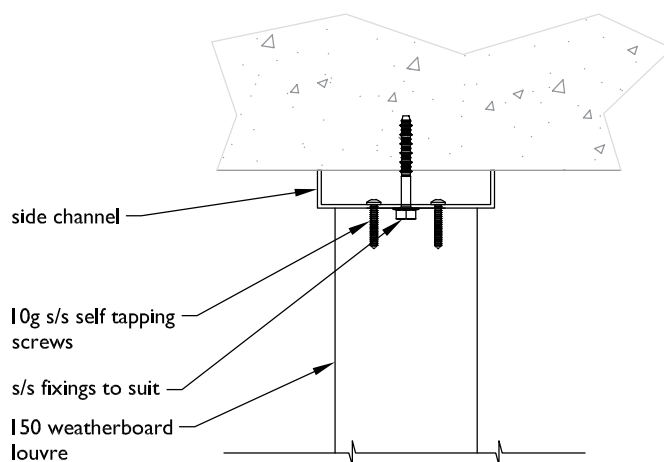
## TYPICAL DETAIL : END FIXED

### 150MM HELENA BAY 45° FIXED WEATHERBOARD PANEL

(GROUP 4 LOUVRES COLLECTION)

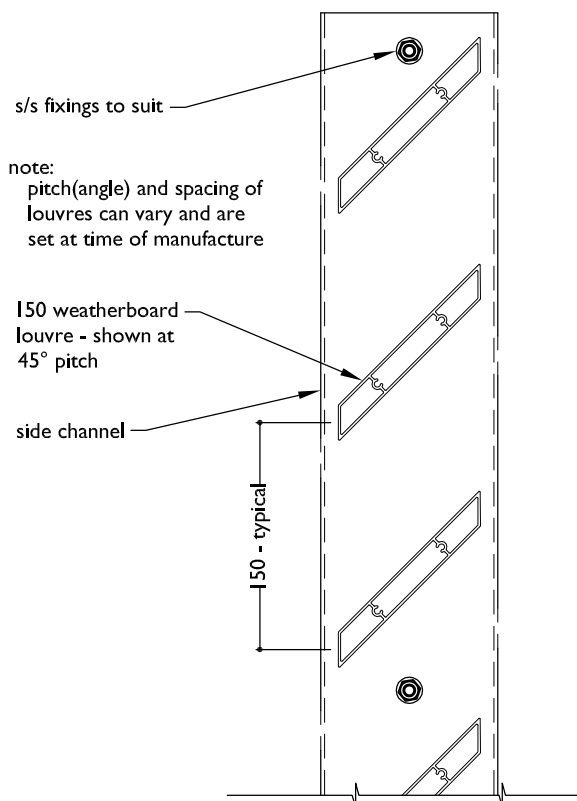
#### PLAN - END FIXED

#### 150MM HELENA BAY 45° WEATHERBOARD PANEL

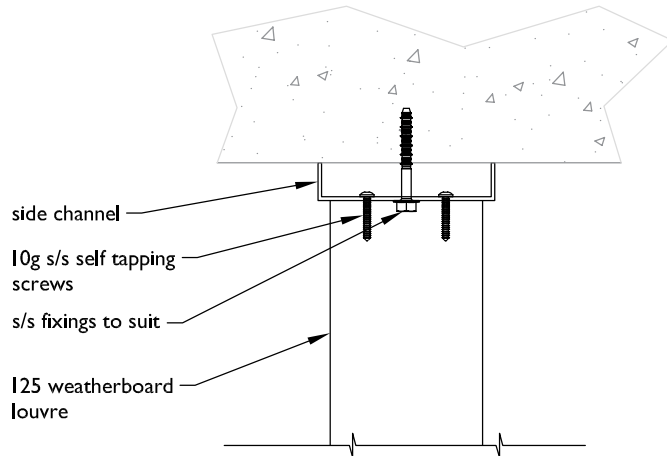


#### SECTION - END FIXED

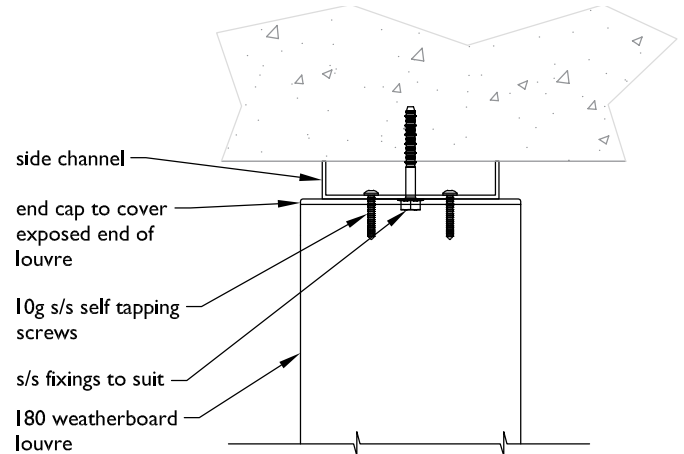
#### 150MM HELENA BAY 45° WEATHERBOARD PANEL



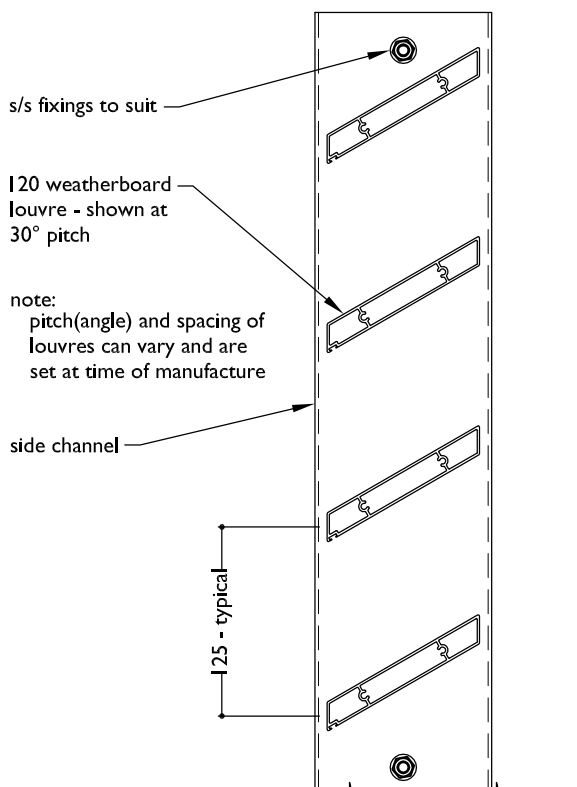
PLAN - END FIXED  
 125MM WEATHERBOARD  
 LOUVRE



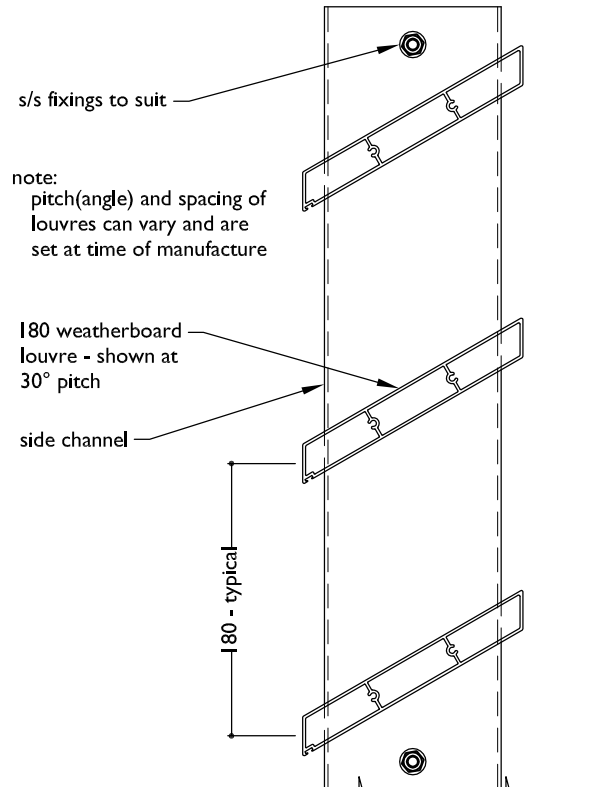
PLAN - END FIXED  
 180MM WEATHERBOARD  
 LOUVRE



SECTION - END FIXED  
 125MM WEATHERBOARD  
 LOUVRE

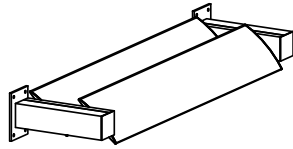


SECTION - END FIXED  
 180MM WEATHERBOARD  
 LOUVRE



**TYPICAL DETAIL : END FIXED OVERHEAD SUN LOUVRES**  
**150MM HELENA BAY 45°, 125MM WEATHERBOARD, 180MM WEATHERBOARD LOUVRES**

(GROUP 4 LOUVRES COLLECTION)



FREE SPAN EXAMPLE

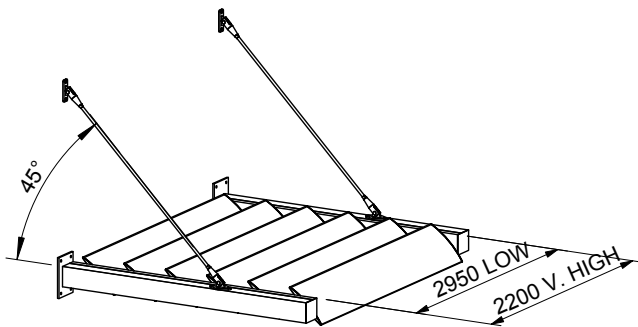
**CALCULATIONS FOR BLADE SPANS**  
**SHOW RANGE FROM:**  
 Low Wind Zone 115km/h, 32m/s to  
 Extra High Wind Zone 198km/h, 55 m/s  
 Refer Engineering Details. Section 13

**KEY**

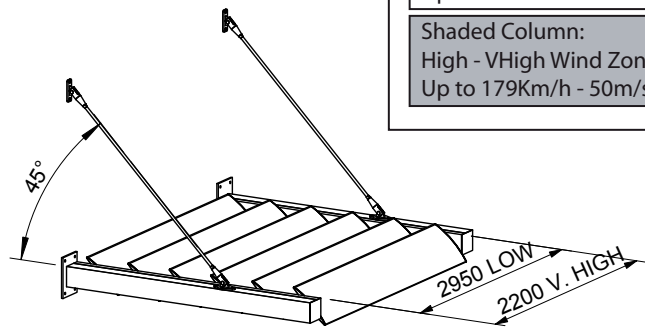
LF = Free span  
 LS15 = Strut @ 15°  
 LS30 = Strut @ 30°  
 LS45 = Strut @ 45°

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

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



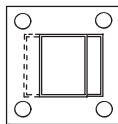
Ø20 SS STRUT SUPPORT EXAMPLE  
 Strut at optimum 45° angle  
 Spans, End Fixed 180mm Airfoil Louvre



Ø42 SS STRUT SUPPORT EXAMPLE  
 Strut at optimum 45° angle  
 Spans, End Fixed 200mm Midi Louvre

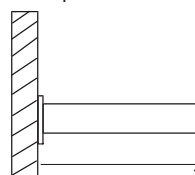
**TYPICAL DETAIL : END FIXED OVERHEAD WALL STRUTS**  
**150MM HELENA BAY, 125MM WEATHERBOARD & 180MM WEATHERBOARD**

(GROUP 4 LOUVRES COLLECTION)



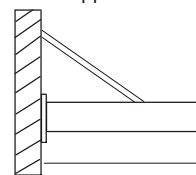
Base Plate: 100 x 150 x 6mm  
 Box Section: 75 x 50 x 2.5mm  
 Channel: 75 x 25 x 3mm

Free Span



| LF  | LF  |
|-----|-----|
| 500 | 500 |

Strut Support

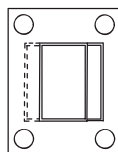


Strut Ø16mm  
 Stainless steel

| LS15 | LS15 |
|------|------|
| 800  | 600  |

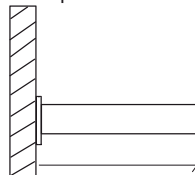
| LS30 | LS30 |
|------|------|
| 900  | 700  |

| LS45 | LS45 |
|------|------|
| 900  | 700  |



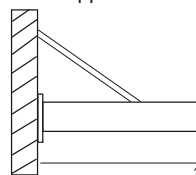
Base Plate: 100 x 225 x 6mm  
 Box Section: 100 x 50 x 3mm  
 Channel: 100 x 25 x 3mm

Free Span



| LF  | LF  |
|-----|-----|
| 700 | 600 |

Strut Support

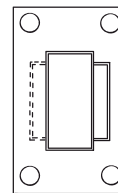


Strut Ø20mm  
 Stainless steel

| LS15 | LS15 |
|------|------|
| 1000 | 800  |

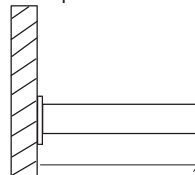
| LS30 | LS30 |
|------|------|
| 1200 | 1000 |

| LS45 | LS45 |
|------|------|
| 1200 | 1000 |



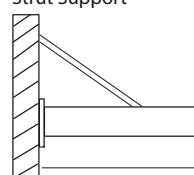
Base Plate: 100 x 275 x 6mm  
 Box Section: 150 x 50 x 3mm  
 Channel: 100 x 25 x 3mm

Free Span



| LF   | LF  |
|------|-----|
| 1000 | 900 |

Strut Support



Strut Ø42mm  
 Stainless steel

| LS15 | LS15 |
|------|------|
| 1300 | 1100 |

| LS30 | LS30 |
|------|------|
| 1600 | 1300 |

| LS45 | LS45 |
|------|------|
| 1600 | 1400 |