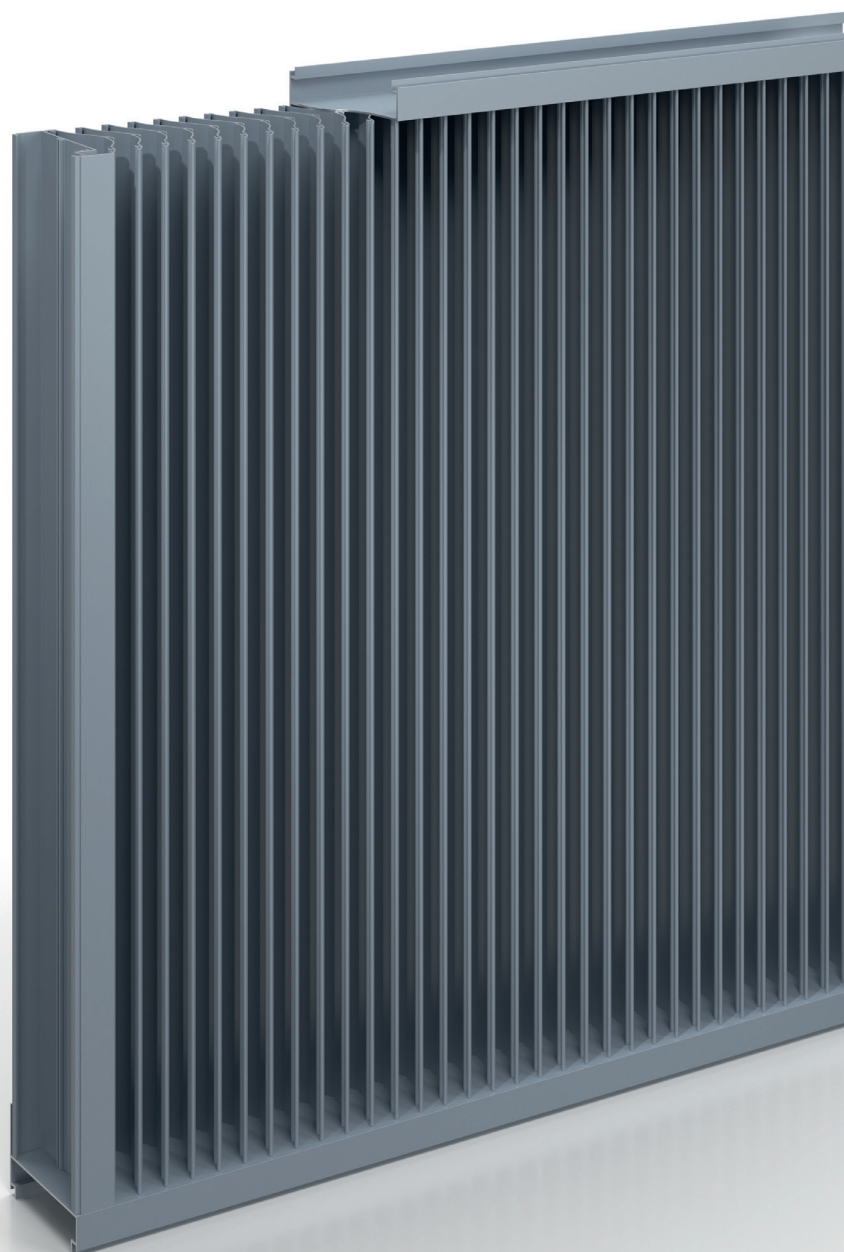


Rain Defence Louvres

RS-5605 | Technical Datasheet



www.c-sgroup.co.uk/4050

RS-5605 | Technical Datasheet

Technical drawing of a window frame assembly showing dimensions and components. The drawing is a cross-section view of a window frame installed in a wall. The wall is shown with diagonal hatching. The window frame consists of a head frame at the top, a cill frame at the bottom, and a central sash with multiple vertical bars. The sash is held in place by fixing cleats to both the top and bottom frames. A cill pan is located below the cill frame. Dimensions are indicated with arrows and numbers: 10, 35, 131, 100, and 215 (typically). Labels with leader lines identify the following components: Backing Rod & Mastic (by Others), Head Frame, Fixing Cleats to Top and Bottom Frame (by CS), Cill Frame, Cill Pan (Subject to requirements), and Fixing Cleats to Top and Bottom Frame (by CS).

Backed Rod & Mastic
(by Others)

Head Frame

35

10

Fixing Cleats
to Top and Bottom
Frame
(by CS)

131

35

Cill Frame

100

215
(typically)

Cill Pan
(Subject to requirements)

Fixing Cleats
to Top and Bottom
Frame
(by CS)

26°

@ max. 600mm centres.

Drainage Hole

215 (typically)

10

36

131

Jamb Frame

Blade Pitch 25

Jamb Frame

Backing Rod & Mastic (by Others)

Cill Pan (Subject to requirements)

Backing Rod & Mastic (by Others)

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Construction Specialties®

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ver. 2.0
Page 01

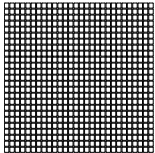
Rain Defence Louvres

RS-5605 | Technical Datasheet

STANDARD DETAIL

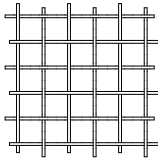
with Insect Mesh or Bird Guard

INSECT MESH

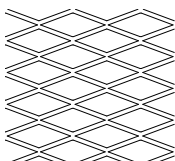


Fiberglass Mesh
Black PVC coated
(1:2 @A4)
LV-1008
72% Free Area

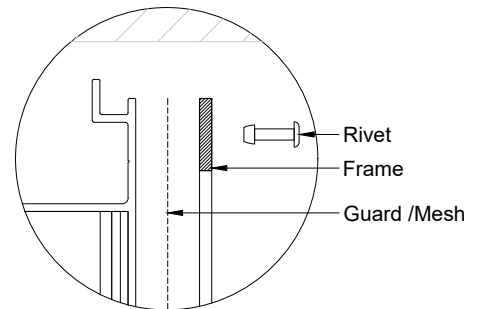
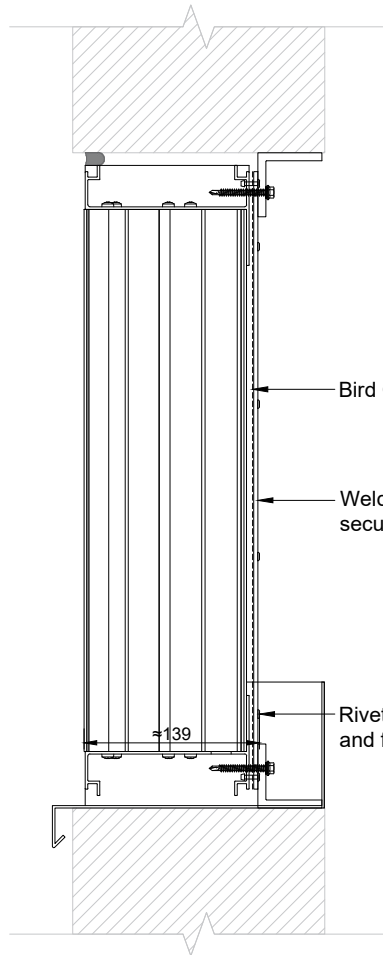
BIRD / VERMIN GUARDS



Galvanized Welded
Mesh - (Standard)
(1:4 @A4)
LV-1408
85% Free Area

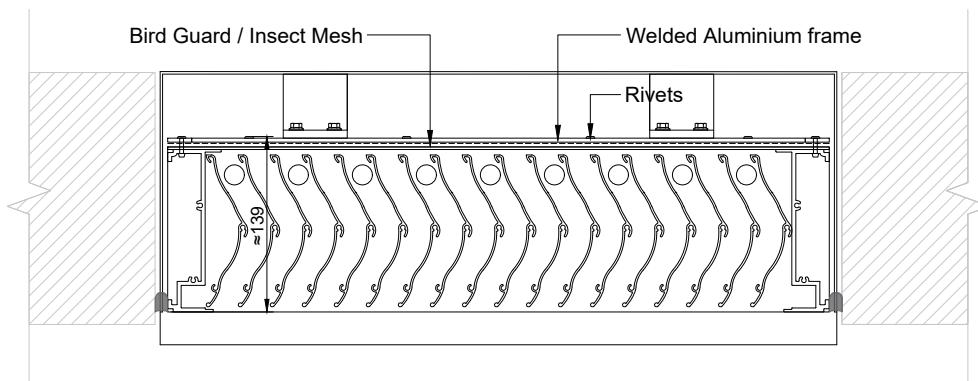


Flattened Aluminium
38-85AF - (Option)
(1:4 @A4)
LV-0158
73% Free Area



EXPLODED DETAIL

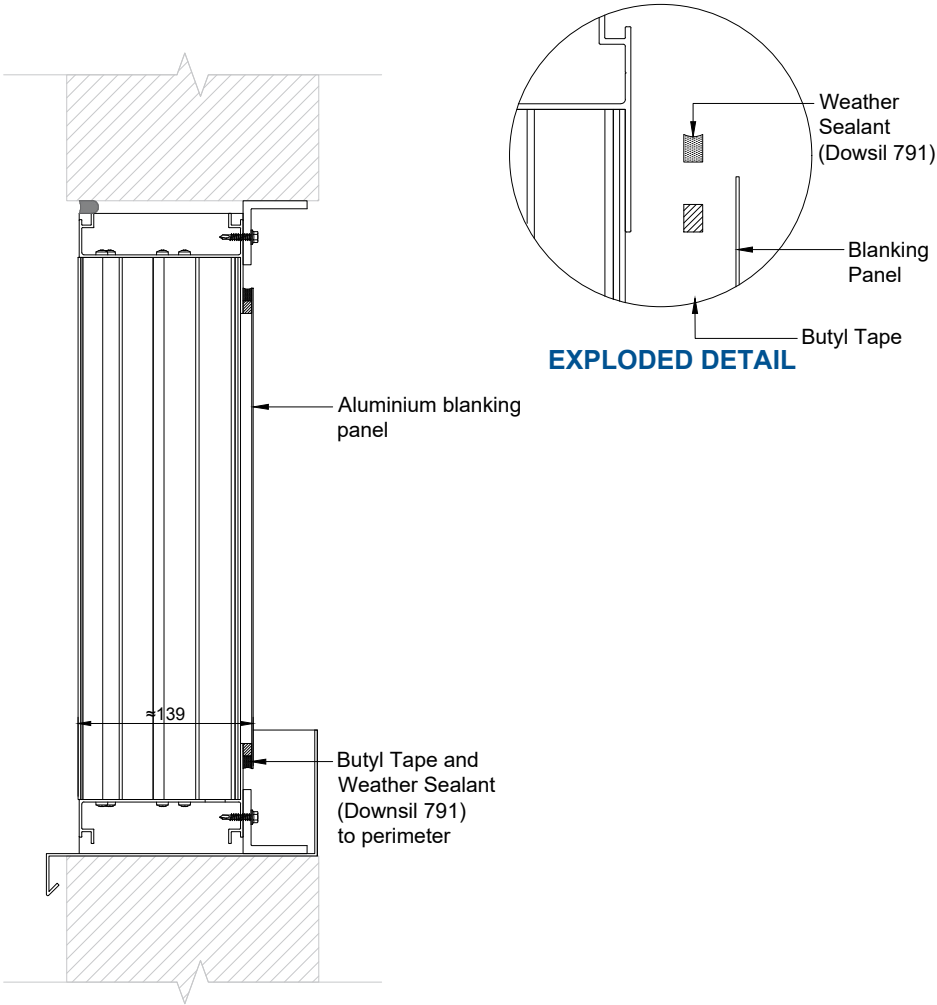
SECTION ON ELEVATION (1:6 @A4)



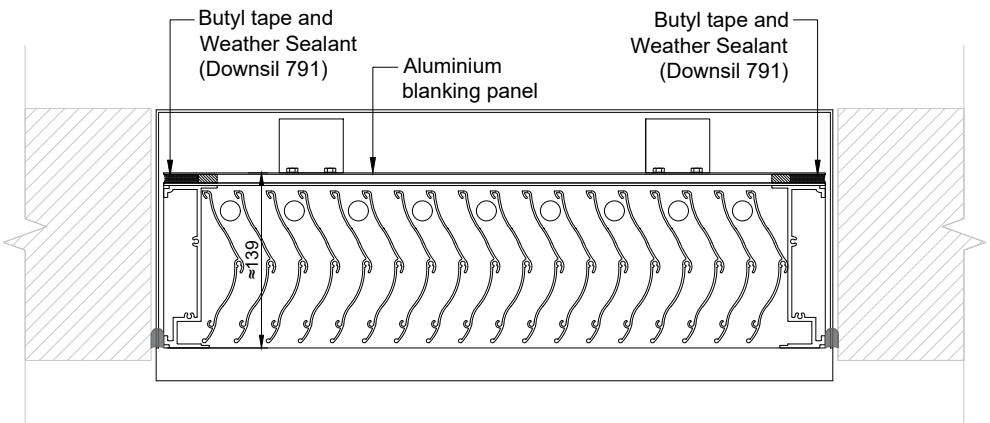
PLAN VIEW (1:6 @A4)

All dimensions in millimeters unless otherwise stated. Do not scale from the drawing.

STANDARD DETAIL
with Single Skin Blanking Panel



SECTION ON ELEVATION (1:6 @A4)



PLAN VIEW (1:6 @A4)

All dimensions in millimeters unless otherwise stated. Do not scale from the drawing.

Rain Defence Louvres

RS-5605 | Technical Datasheet

STANDARD DETAIL

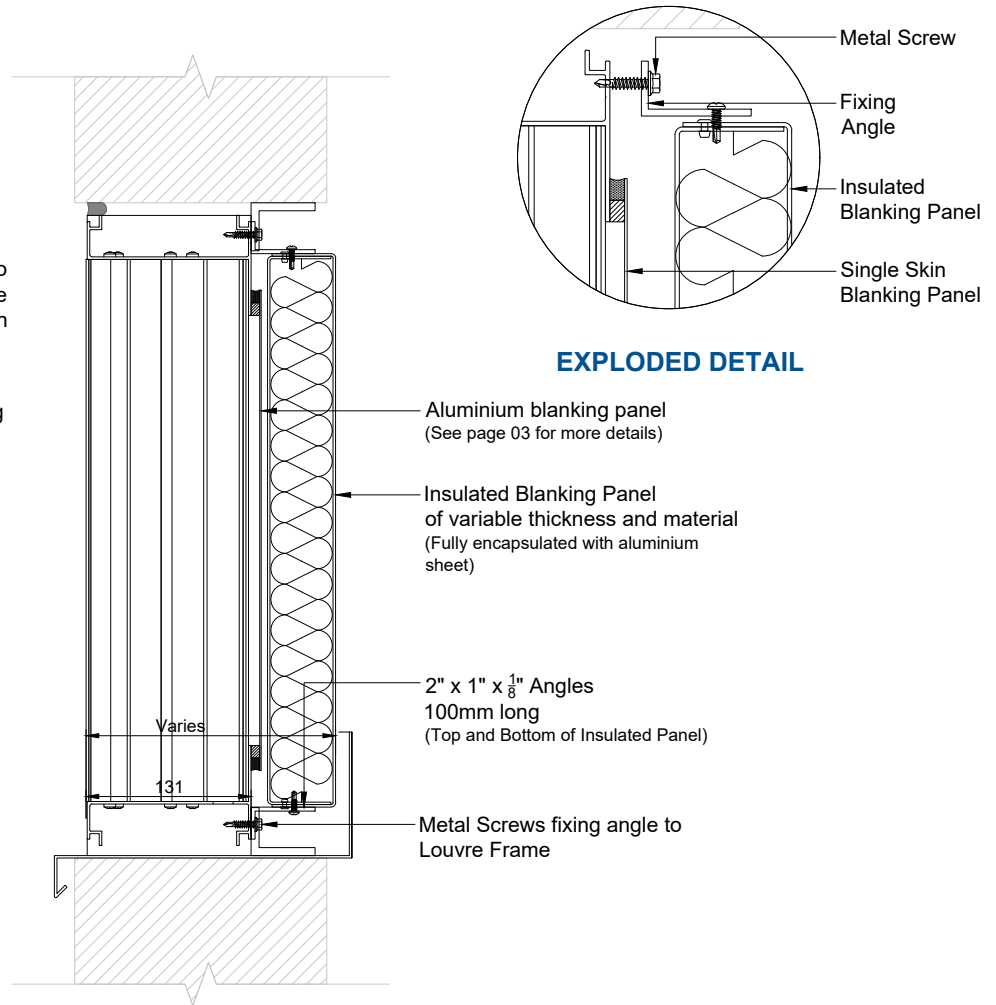
with Insulated Blanking Panel

NOTE:

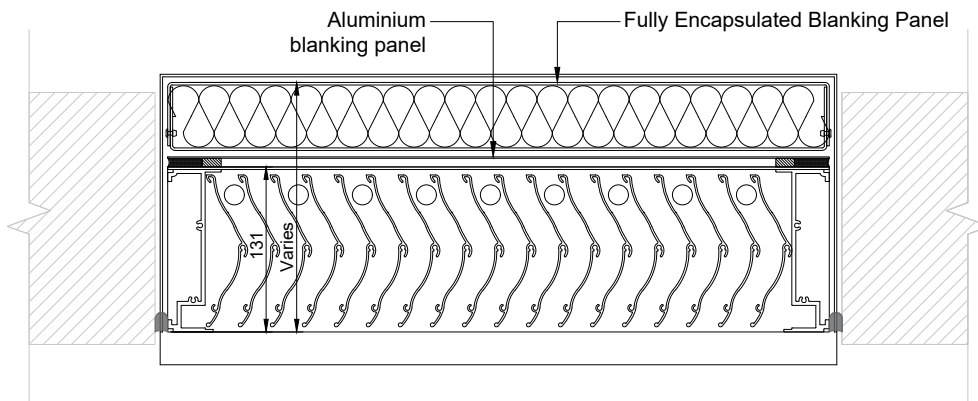
Insulation material options include:

- Non-combustible, A1 classified (to EN 13501-1) high strength stone wool core faced with open filament net
- Extruded polystyrene core

Panel thicknesses will vary, depending on the chosen core type and project's insulation requirements.



SECTION ON ELEVATION (1:6 @A4)



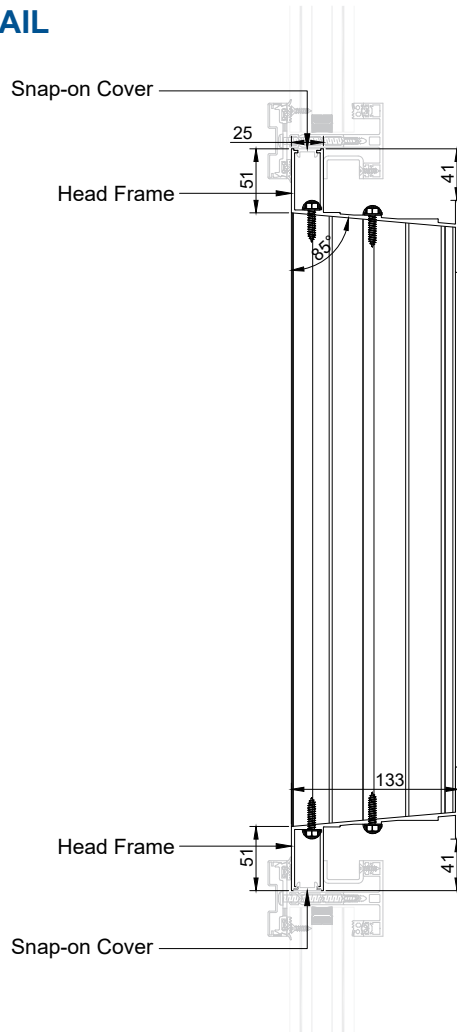
PLAN VIEW (1:6 @A4)

All dimensions in millimeters unless otherwise stated. Do not scale from the drawing.

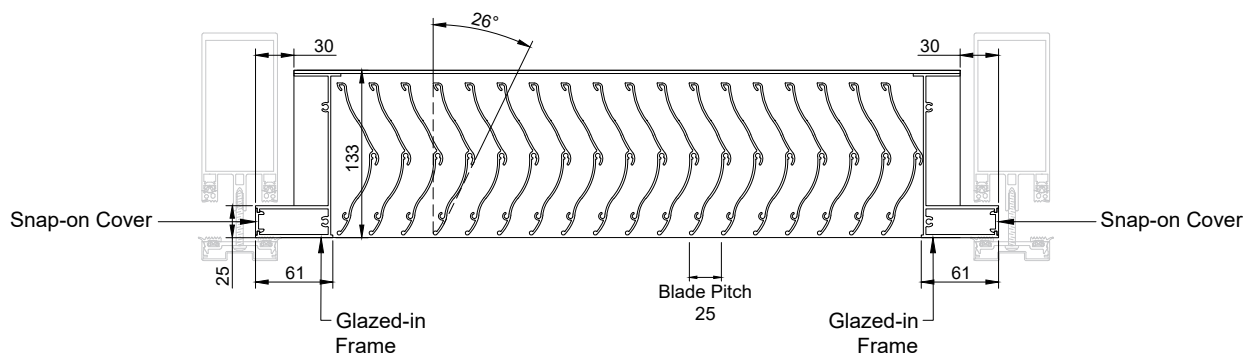
Rain Defence Louvres

RS-5605 | Technical Datasheet

25MM GLAZED-IN DETAIL



SECTION ON ELEVATION (1:6 @A4)



PLAN VIEW (1:6 @A4)

NOTE: Glazed-in louvres are supplied with Black Dowsil 791 Weatherproofing Silicone Sealant applied to seal all fixings and joints around the perimeter frame at the rear.

All dimensions in millimeters unless otherwise stated. Do not scale from the drawing.

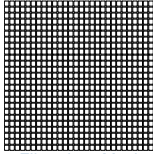
Rain Defence Louvres

RS-5605 | Technical Datasheet

25MM GLAZED-IN DETAIL

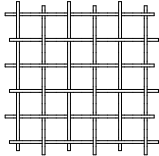
with Insect Mesh or Bird Guard

INSECT MESH

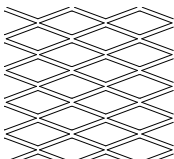


Fiberglass Mesh
Black PVC coated
(1:2 @A4)
LV-1008
72% Free Area

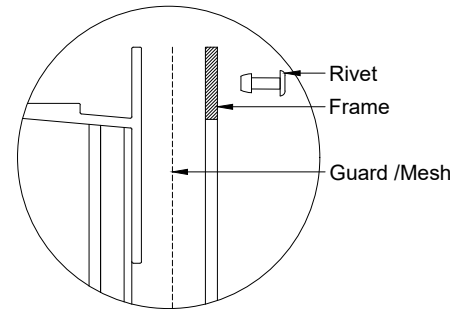
BIRD / VERMIN GUARDS



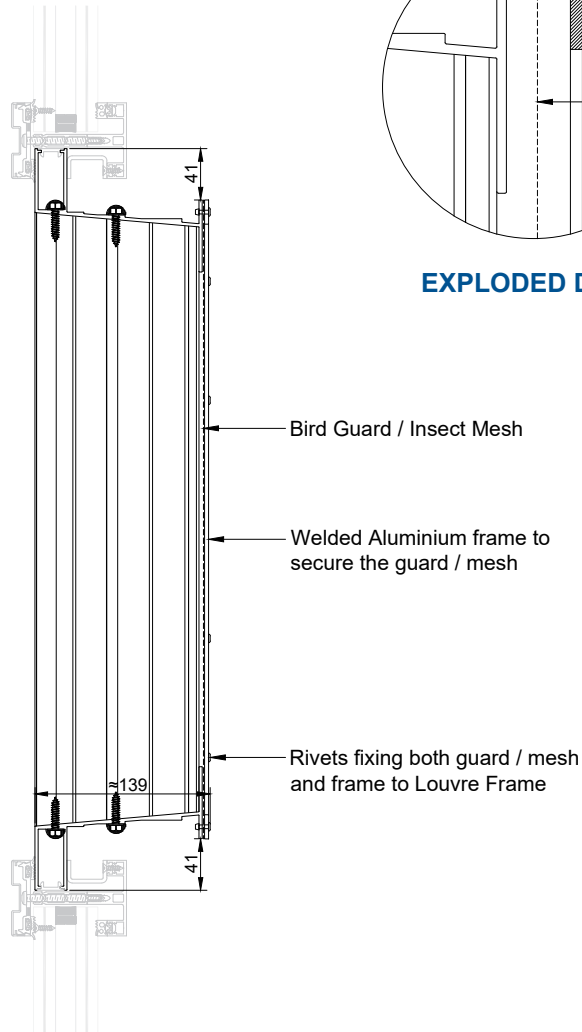
Galvanized Welded
Mesh - (Standard)
(1:4 @A4)
LV-1408
85% Free Area



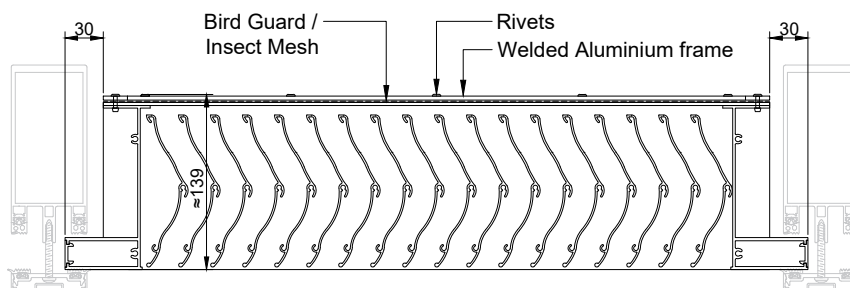
Flattened Aluminium
38-85AF - (Option)
(1:4 @A4)
LV-0158
73% Free Area



EXPLODED DETAIL



SECTION ON ELEVATION (1:6 @A4)



PLAN VIEW (1:6 @A4)

NOTE: Glazed-in louvres are supplied with Black Dowsil 791 Weatherproofing Silicone Sealant applied to seal all fixings and joints around the perimeter frame at the rear.

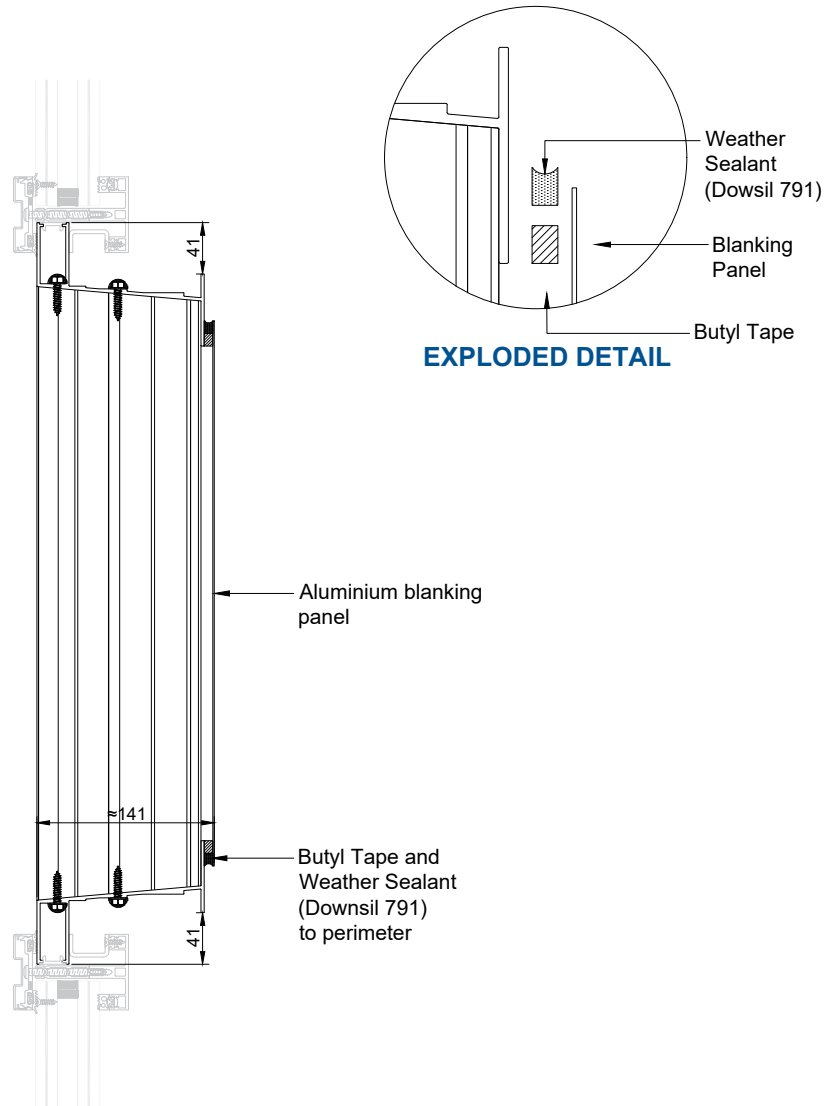
All dimensions in millimeters unless otherwise stated. Do not scale from the drawing.

Rain Defence Louvres

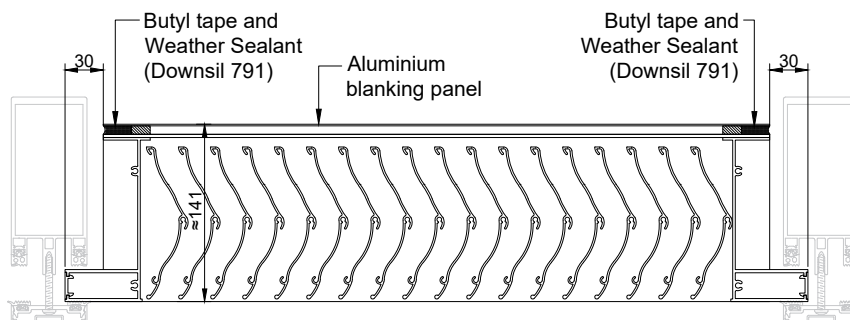
RS-5605 | Technical Datasheet

25MM GLAZED-IN DETAIL

with Single Skin Blanking Panel



SECTION ON ELEVATION (1:6 @A4)



PLAN VIEW (1:6 @A4)

NOTE: Glazed-in louvres are supplied with Black Dowsil 791 Weatherproofing Silicone Sealant applied to seal all fixings and joints around the perimeter frame at the rear.

All dimensions in millimeters unless otherwise stated. Do not scale from the drawing.

25MM GLAZED-IN DETAIL

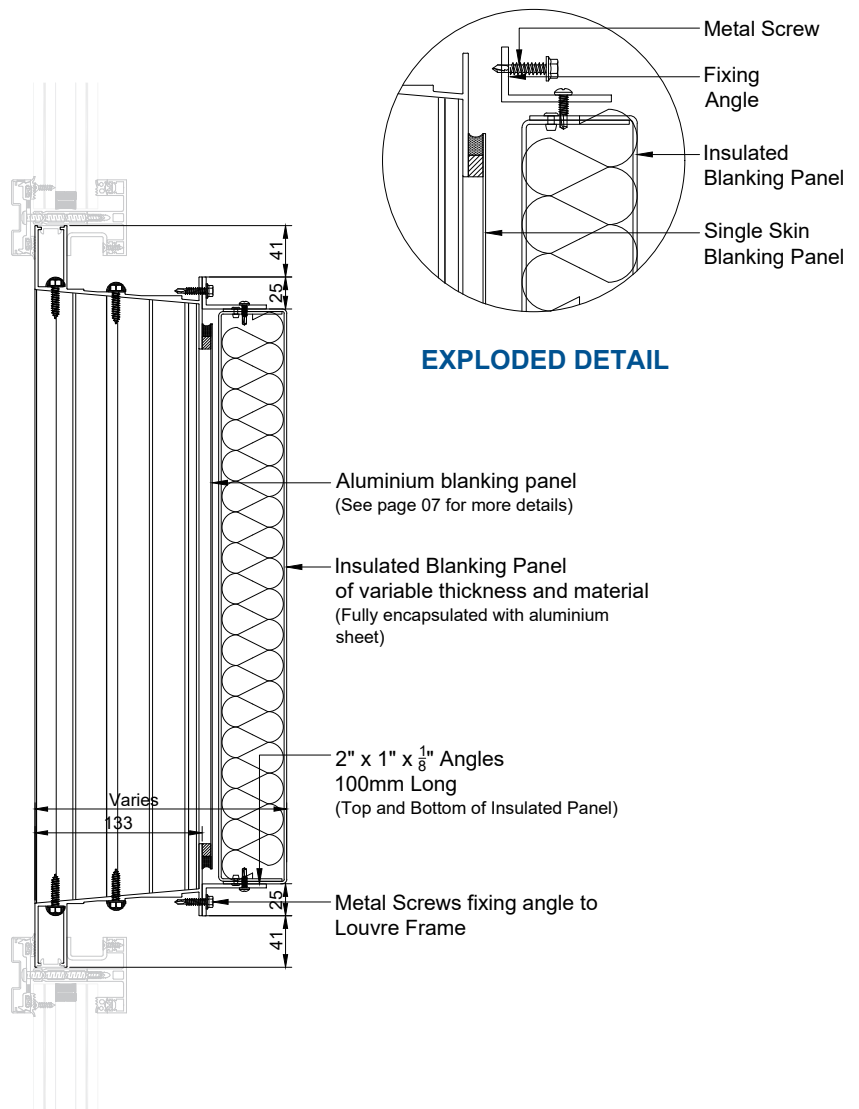
with Insulated Blanking Panel

NOTE:

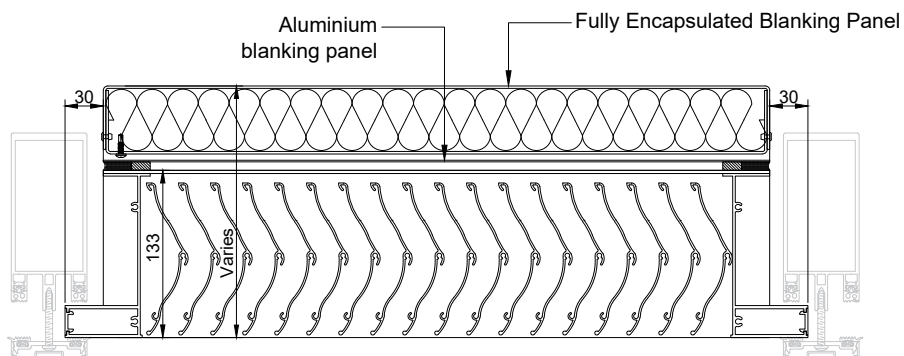
Insulation material options include:

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- Extruded polystyrene core

Panel thicknesses will vary, depending on the chosen core type and project's insulation requirements.



SECTION ON ELEVATION (1:6 @A4)

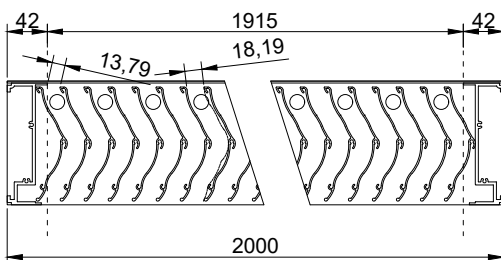
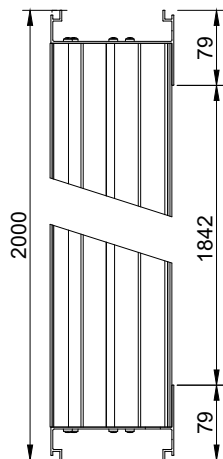
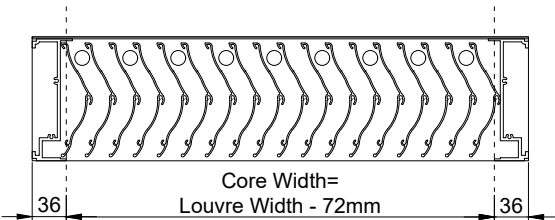
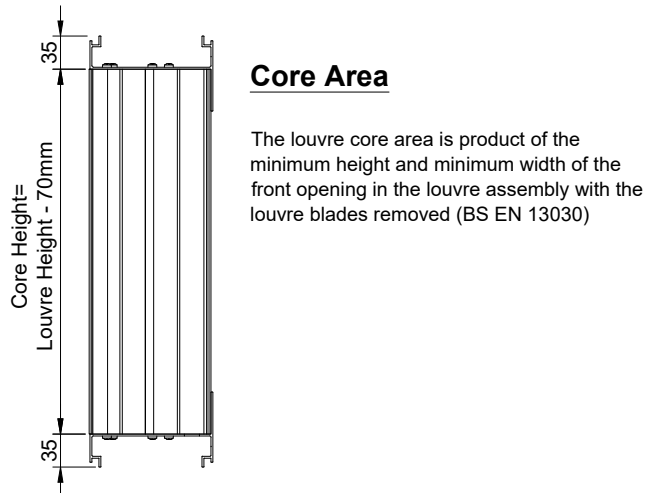


PLAN VIEW (1:6 @A4)

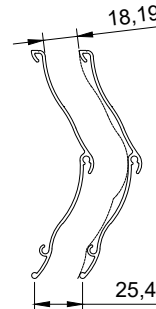
NOTE: Glazed-in louvres are supplied with Black Dowsil 791 Weatherproofing Silicone Sealant applied to seal all fixings and joints around the perimeter frame at the rear.

All dimensions in millimeters unless otherwise stated. Do not scale from the drawing.

APPENDIX A - FREE AREA



Free Area Between Blades



The percentage free area between the blades is calculated by taking the narrowest gap between the blades and dividing it by the blade pitch.

$$18.19/25.4 = 71.6\%$$

Free Area

Total free area is determined by multiplying the sum of the minimum distance between intermediate blades, first blade and jamb, and last blade and jamb, by the minimum distance between head and cill.

Percentage free area is calculated by dividing the total free area by the overall louvre size.

Example based on 2m x 2m louvre

No. of blades - 76

A - No. of unobstructed gaps between blades - 74

B - First gap - 0mm

C - Blade gap - 18.19mm

D - Last gap - 13.79mm

E - Height between head and cill - 1842mm

Total Free Area

$$((B + (C \times A) + D) \times E)$$

$$((0 + (0.01819 \times 74) + 0.01379) \times 1.842) = 2.505\text{m}^2$$

Percentage Free Area

$$2.505/4 = 62.6\%$$

Approximate Free Area

Total Free Area

Opening at rear of louvre x percentage free area between blades

$$1.842 \times 1.915 \times 71.6\% = 2.526\text{m}^2$$

Percentage Free Area

$$2.526/4 = 63.1\%$$

All dimensions in millimeters unless otherwise stated. Do not scale from the drawing.