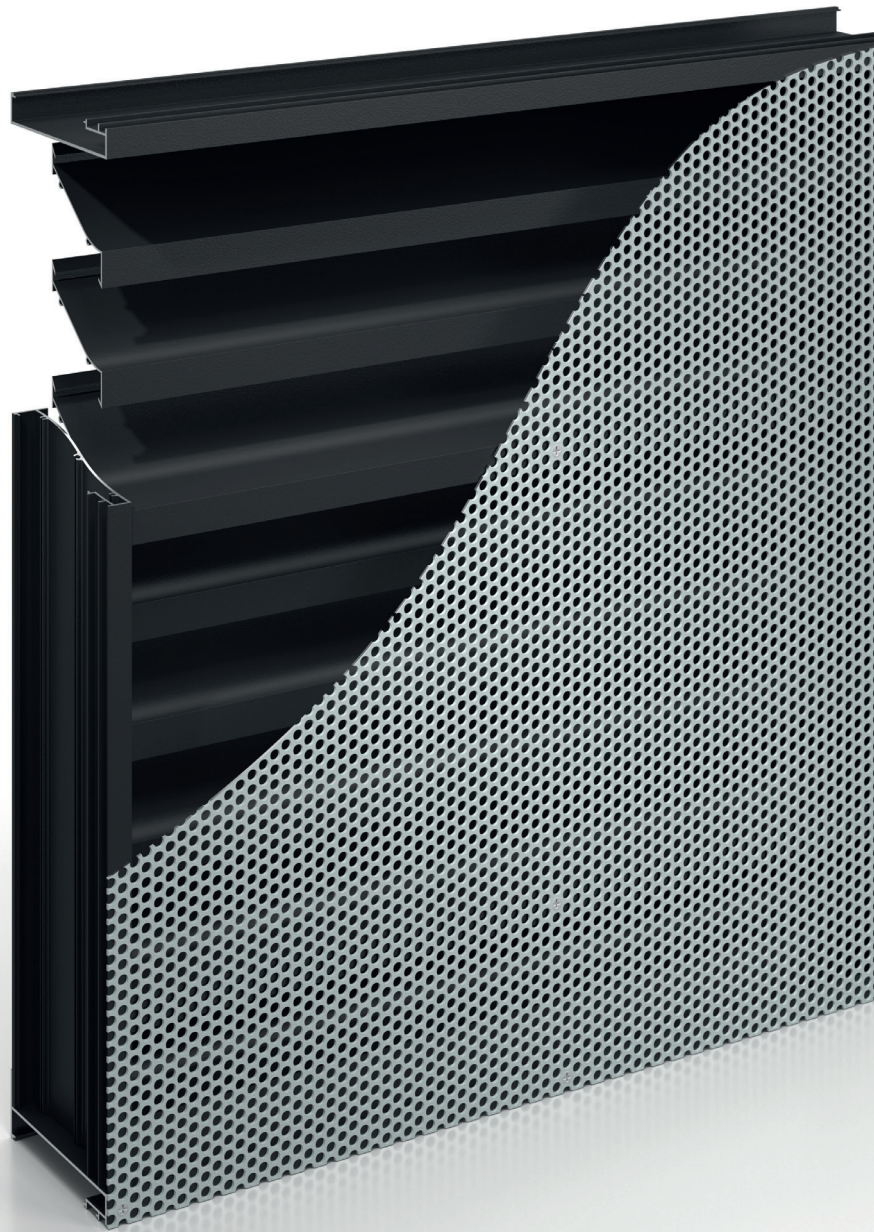


Ventilation Louvres

PL-4080 | Technical Datasheet

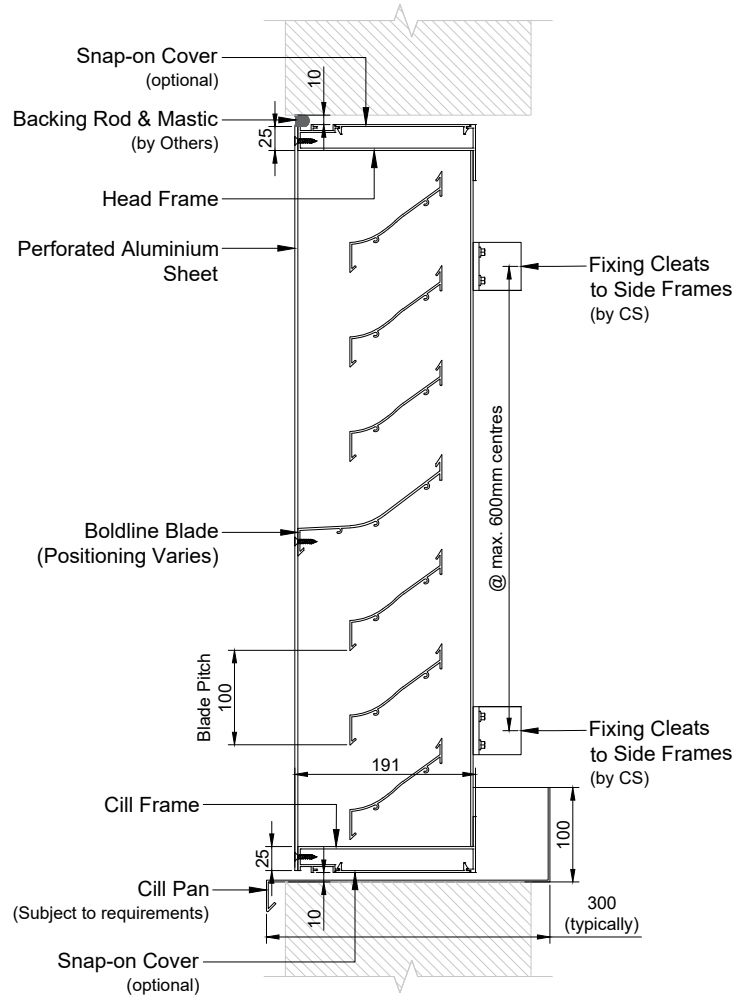


www.c-sgroup.co.uk/19023

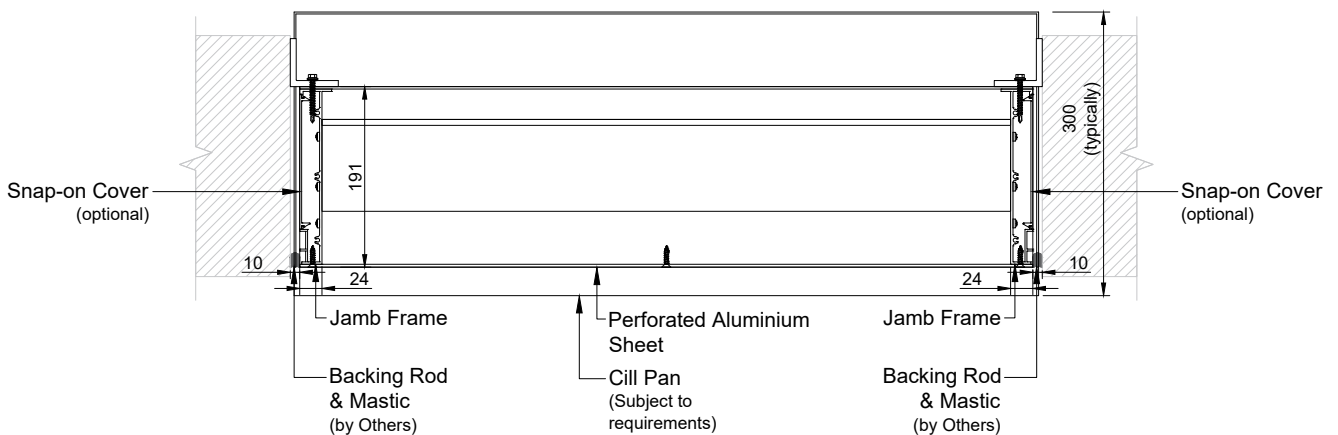
Ventilation Louvres

PL-4080 | Technical Datasheet

STANDARD DETAIL



SECTION ON ELEVATION (1:8 @A4)



PLAN VIEW (1:8 @A4)



www.c-sgroup.co.uk/19023

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



Construction Specialties

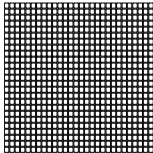
Construction Specialties (UK) Limited,
1010 Westcott Venture Park, Westcott, HP18 0XB, England
T: +44 (0)1296 652800 E: uk-sales@c-sgroup.com www.c-sgroup.co.uk
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March 25
ver. 2.0
Page 01

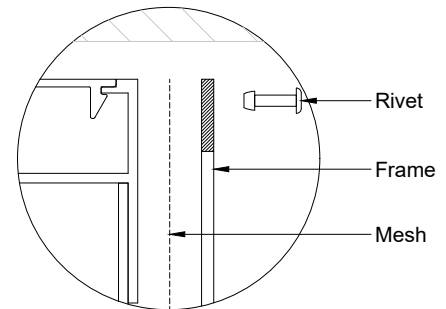
STANDARD DETAIL

With Insect Mesh

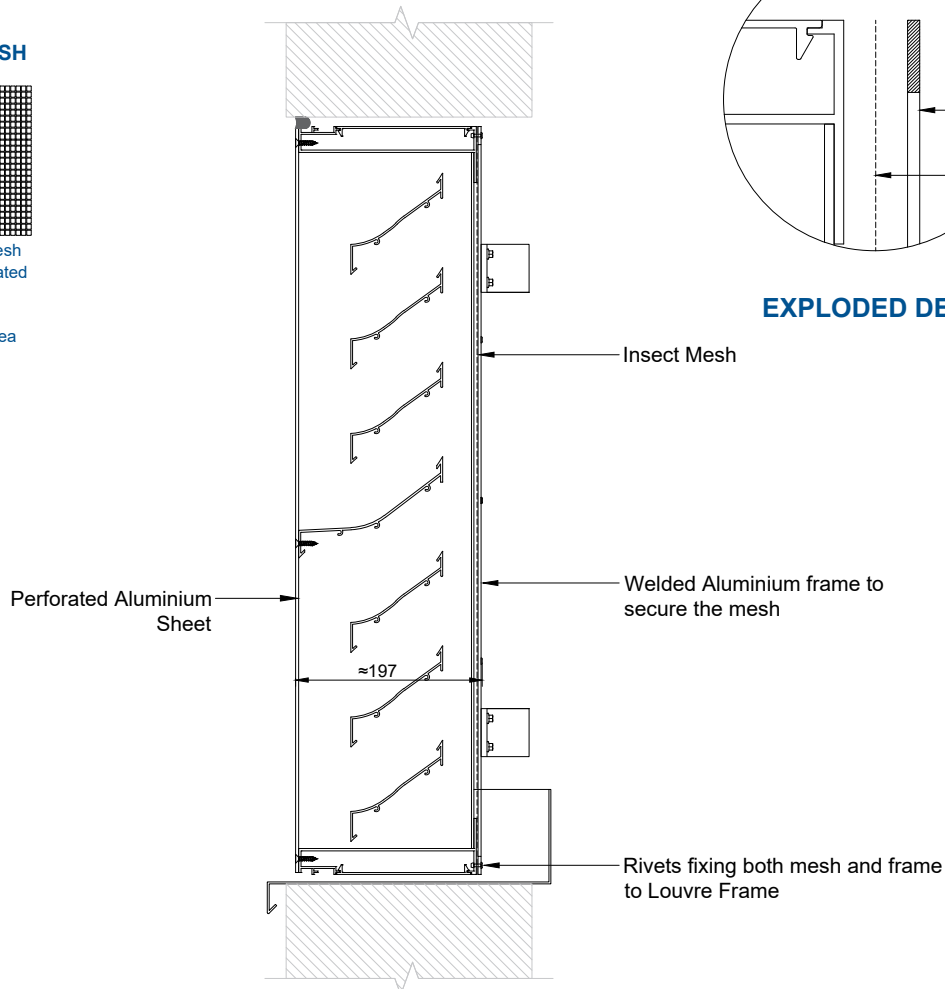
INSECT MESH



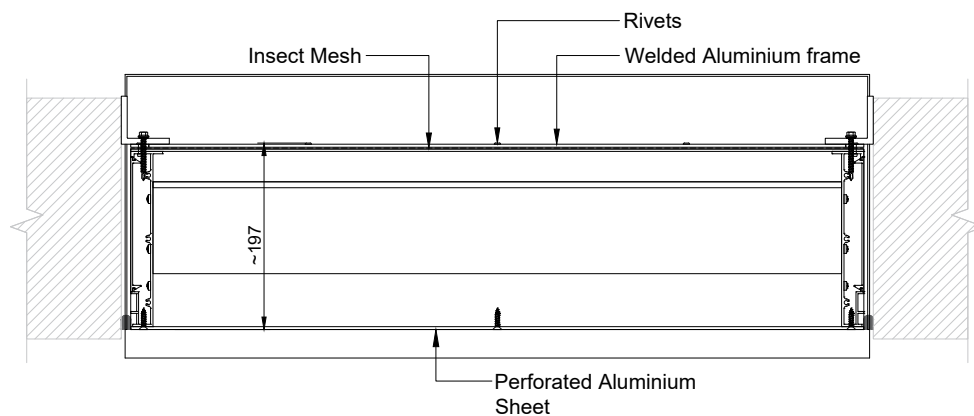
Fiberglass Mesh
Black PVC coated
(1:2 @A4)
LV-1008
72% Free Area



EXPLODED DETAIL



SECTION ON ELEVATION (1:8 @A4)

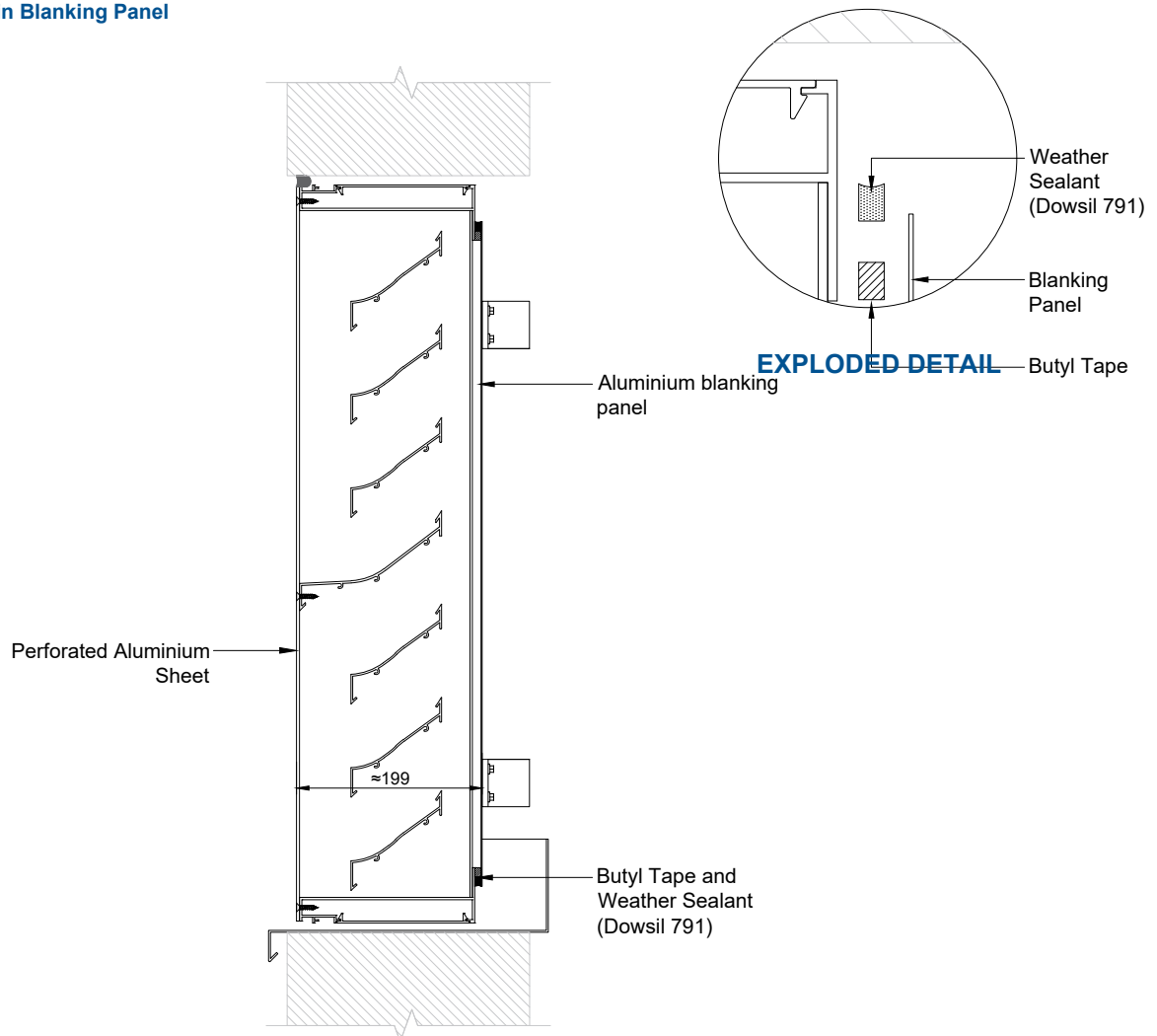


PLAN VIEW (1:8 @A4)

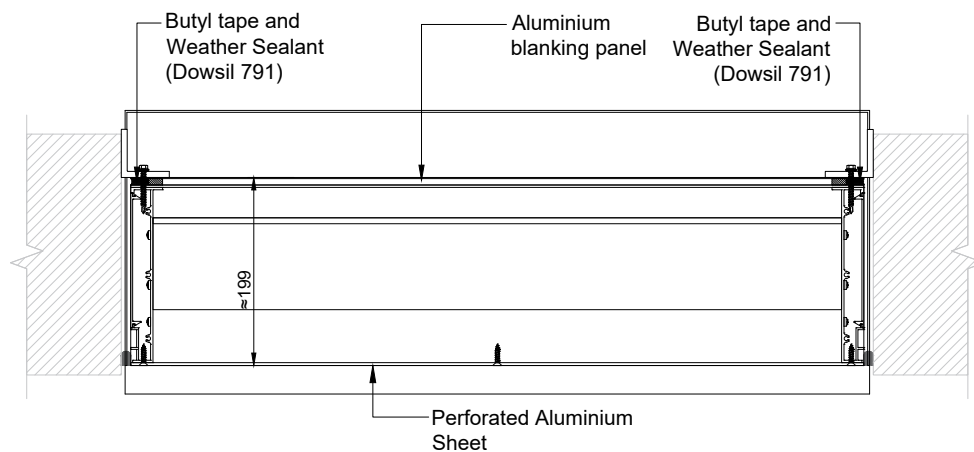
All dimensions in millimeters unless otherwise stated. Do not scale from the drawing.

STANDARD DETAIL

With Single Skin Blanking Panel



SECTION ON ELEVATION (1:8 @A4)



PLAN VIEW (1:8 @A4)

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

Ventilation Louvres

PL-4080 | Technical Datasheet

STANDARD DETAIL

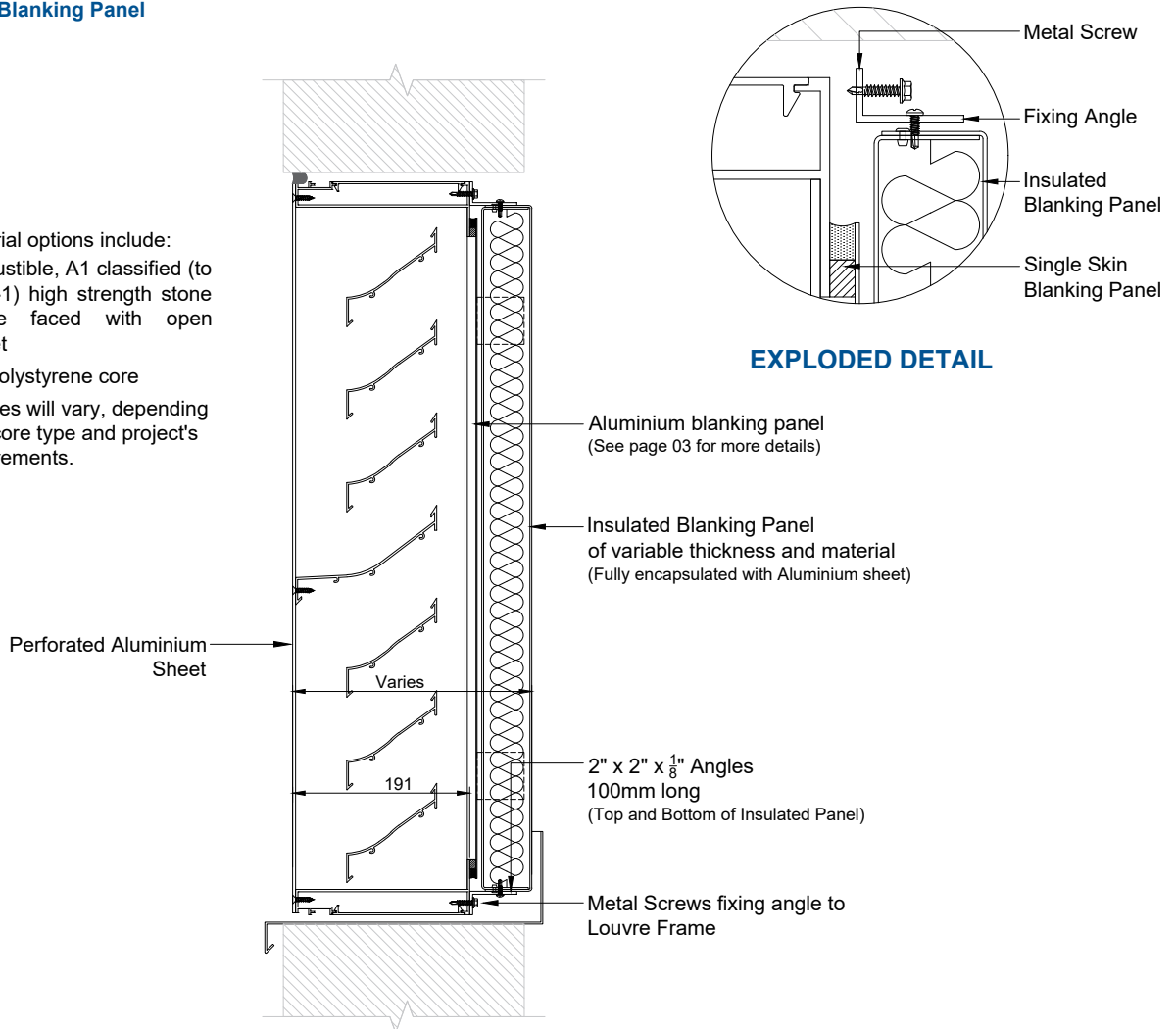
With Insulated Blanking Panel

NOTE:

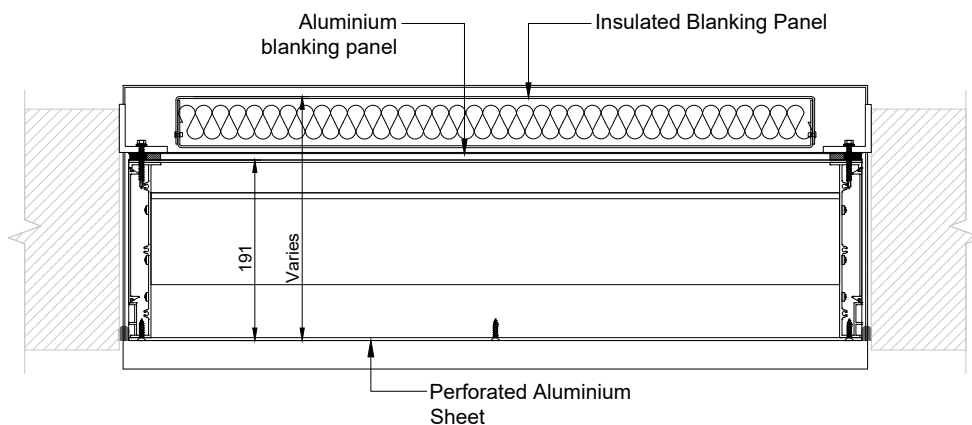
Insulation material options include:

- 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 (1:8 @A4)



PLAN VIEW (1:8 @A4)

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

Ventilation Louvres

PL-4080 | Technical Datasheet

STANDARD DETAIL

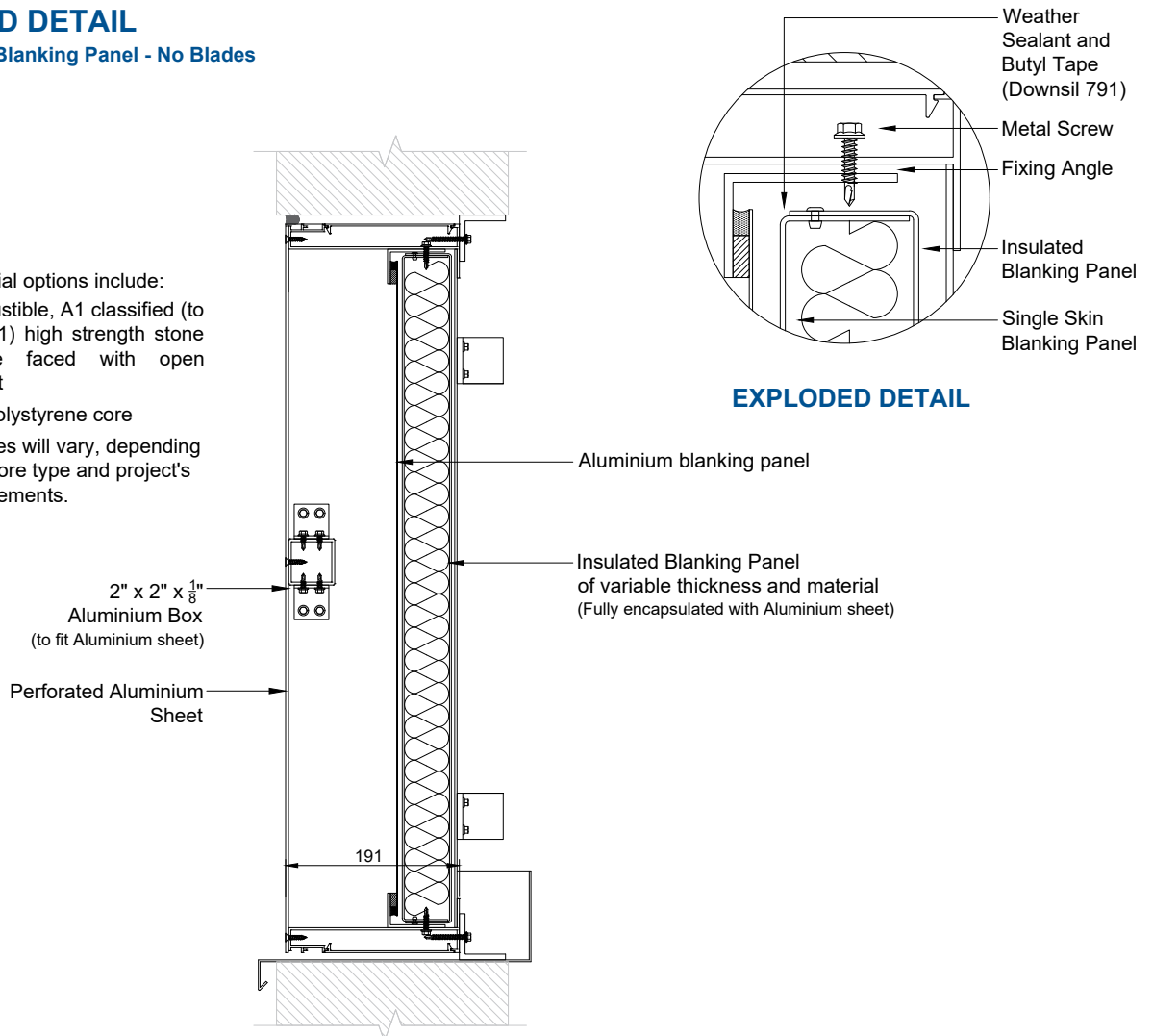
With Insulated Blanking Panel - No Blades

NOTE:

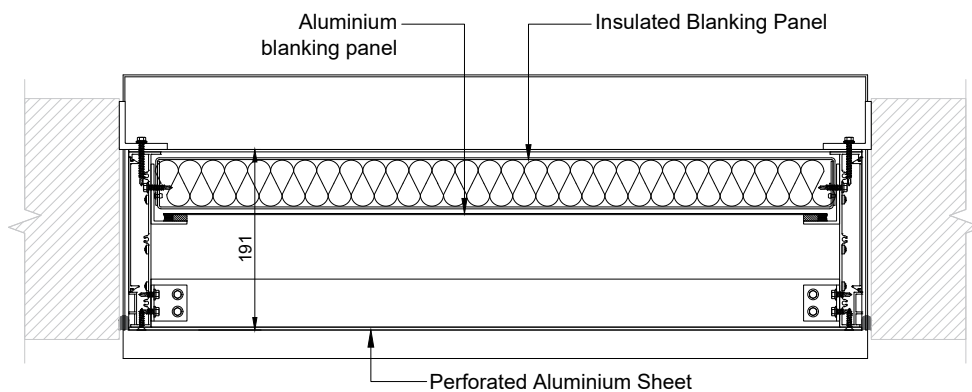
Insulation material options include:

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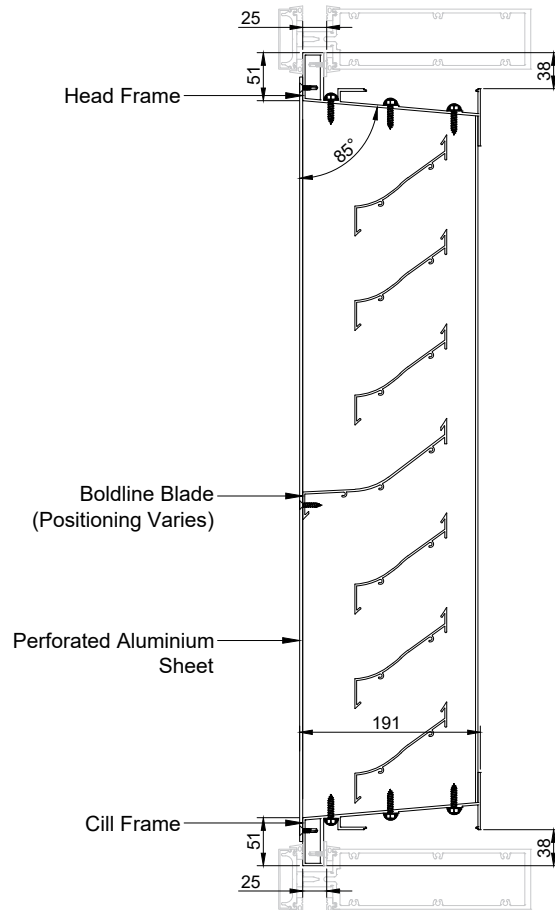
SECTION ON ELEVATION (1:8 @A4)



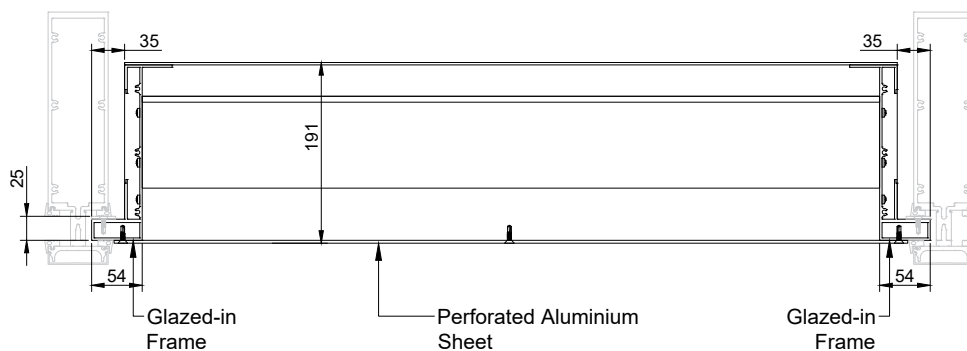
PLAN VIEW (1:8 @A4)

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

25MM GLAZED-IN DETAIL



SECTION ON ELEVATION (1:8 @A4)



PLAN VIEW (1:8 @A4)

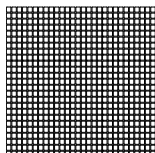
NOTE: Glazed-in louvres are supplied with Black Dowsil 791 Weatherproofing Silicone Sealant applied to seal all fixings and joints around the perimeter frame at the rear.

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

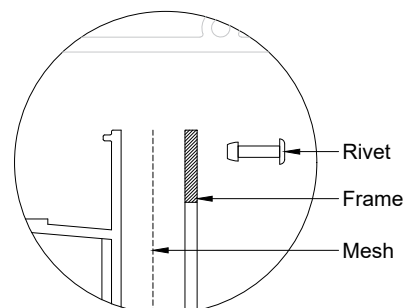
25MM GLAZED-IN DETAIL

With Insect Mesh

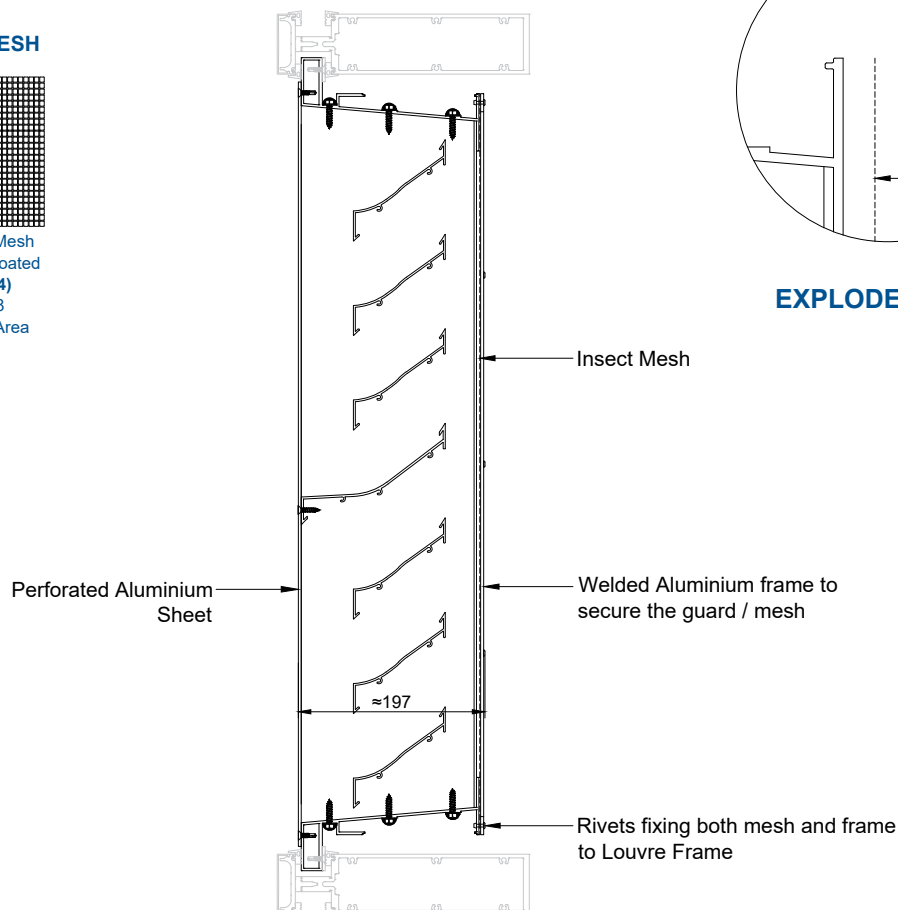
INSECT MESH



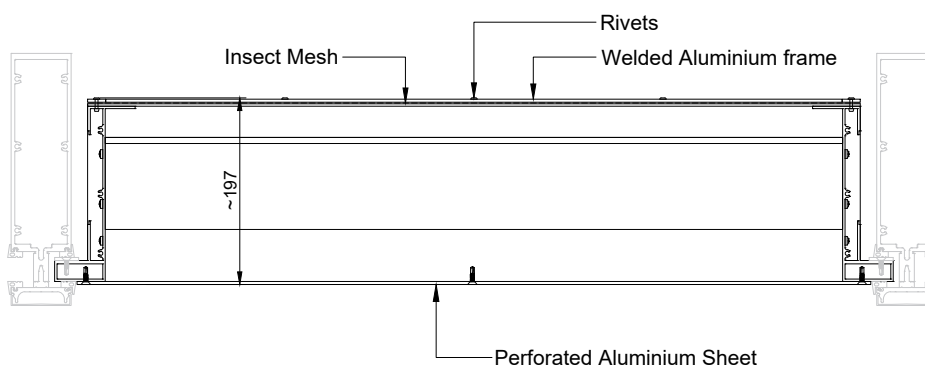
Fiberglass Mesh
Black PVC coated
(1:2 @A4)
LV-1008
72% Free Area



EXPLODED DETAIL



SECTION ON ELEVATION (1:8 @A4)



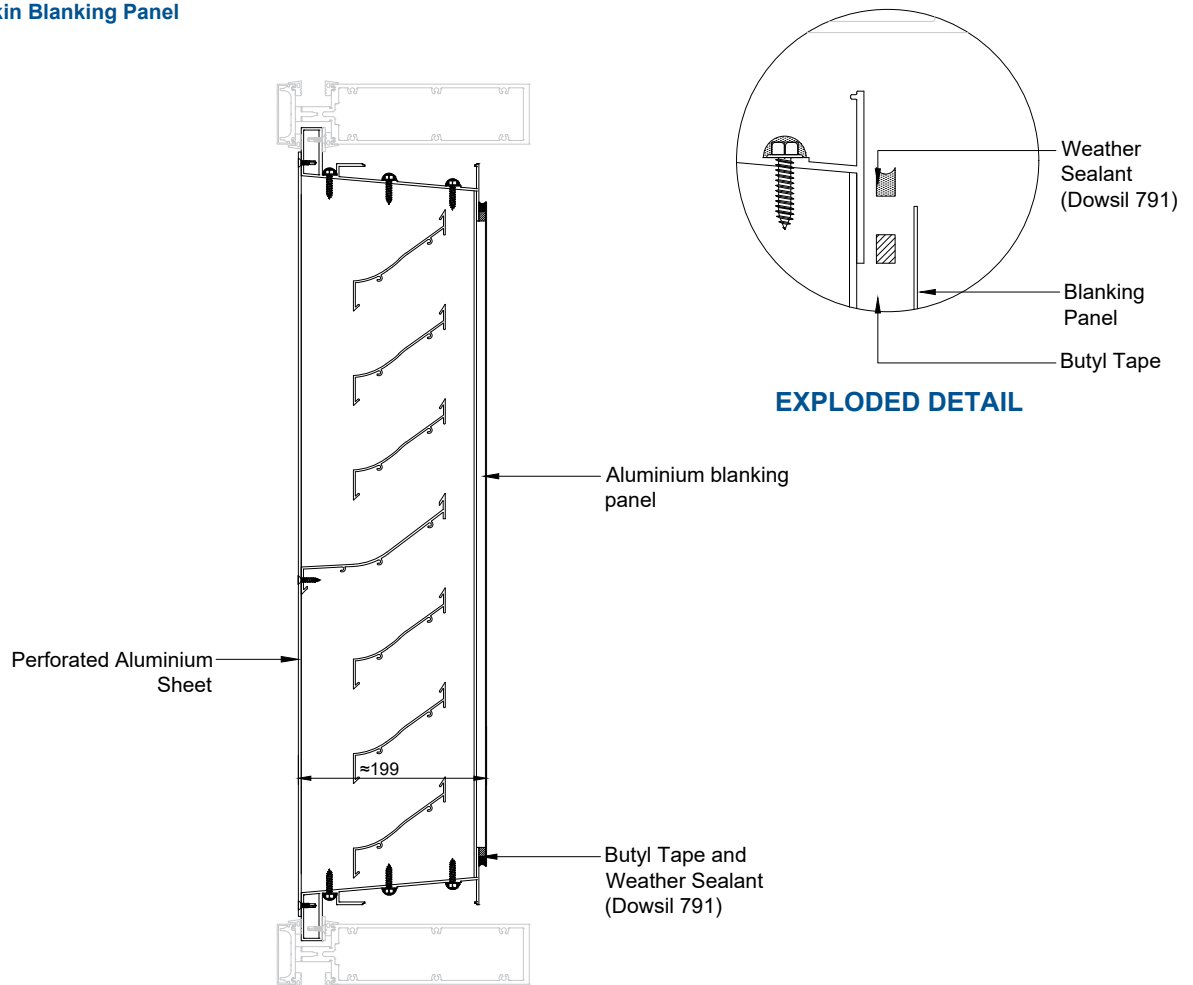
PLAN VIEW (1:8 @A4)

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.

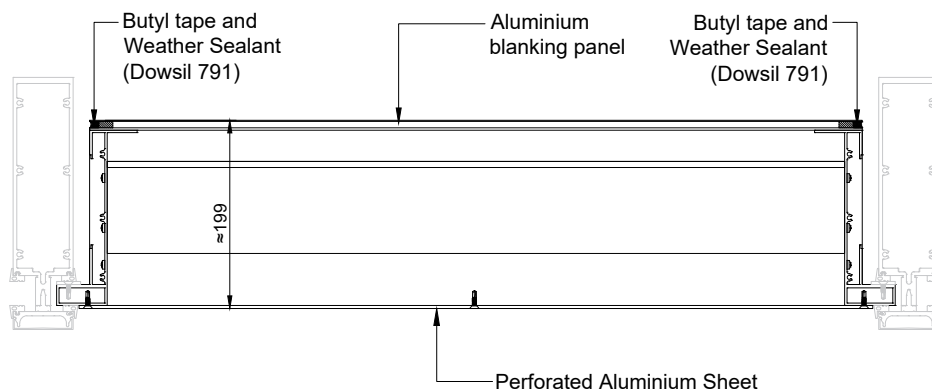
All dimensions in millimeters unless otherwise stated. Do not scale from the drawing.

25MM GLAZED-IN DETAIL

With Single Skin Blanking Panel



SECTION ON ELEVATION (1:8 @A4)



PLAN VIEW (1:8 @A4)

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

Ventilation Louvres

PL-4080 | Technical Datasheet

25MM GLAZED-IN DETAIL

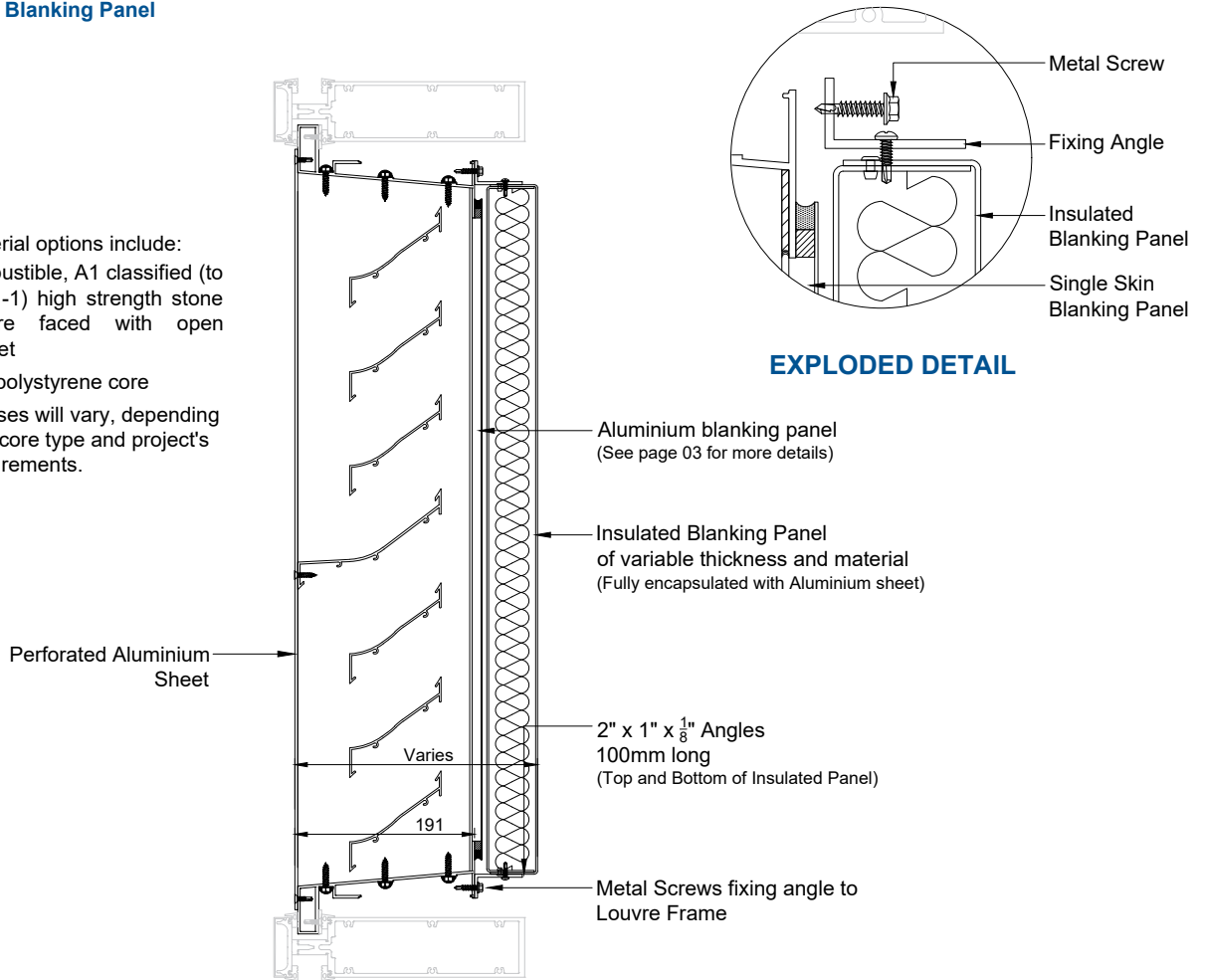
With Insulated Blanking Panel

NOTE:

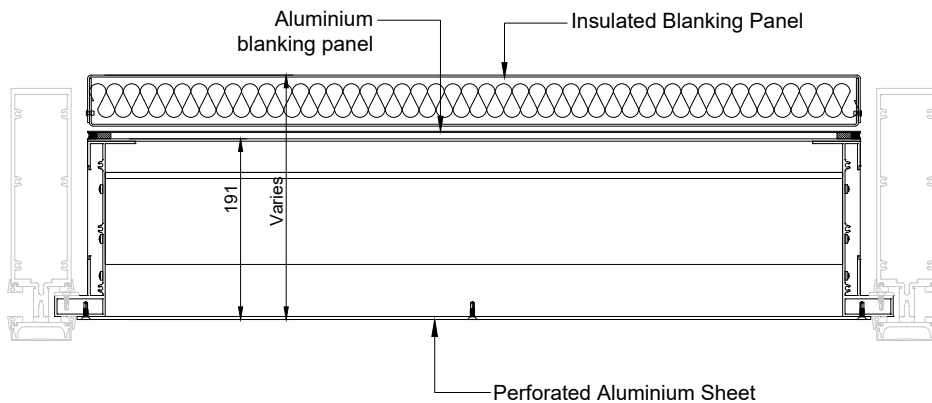
Insulation material options include:

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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 (1:8 @A4)



PLAN VIEW (1:8 @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.

Ventilation Louvres

PL-4080 | Technical Datasheet

25MM GLAZED-IN DETAIL

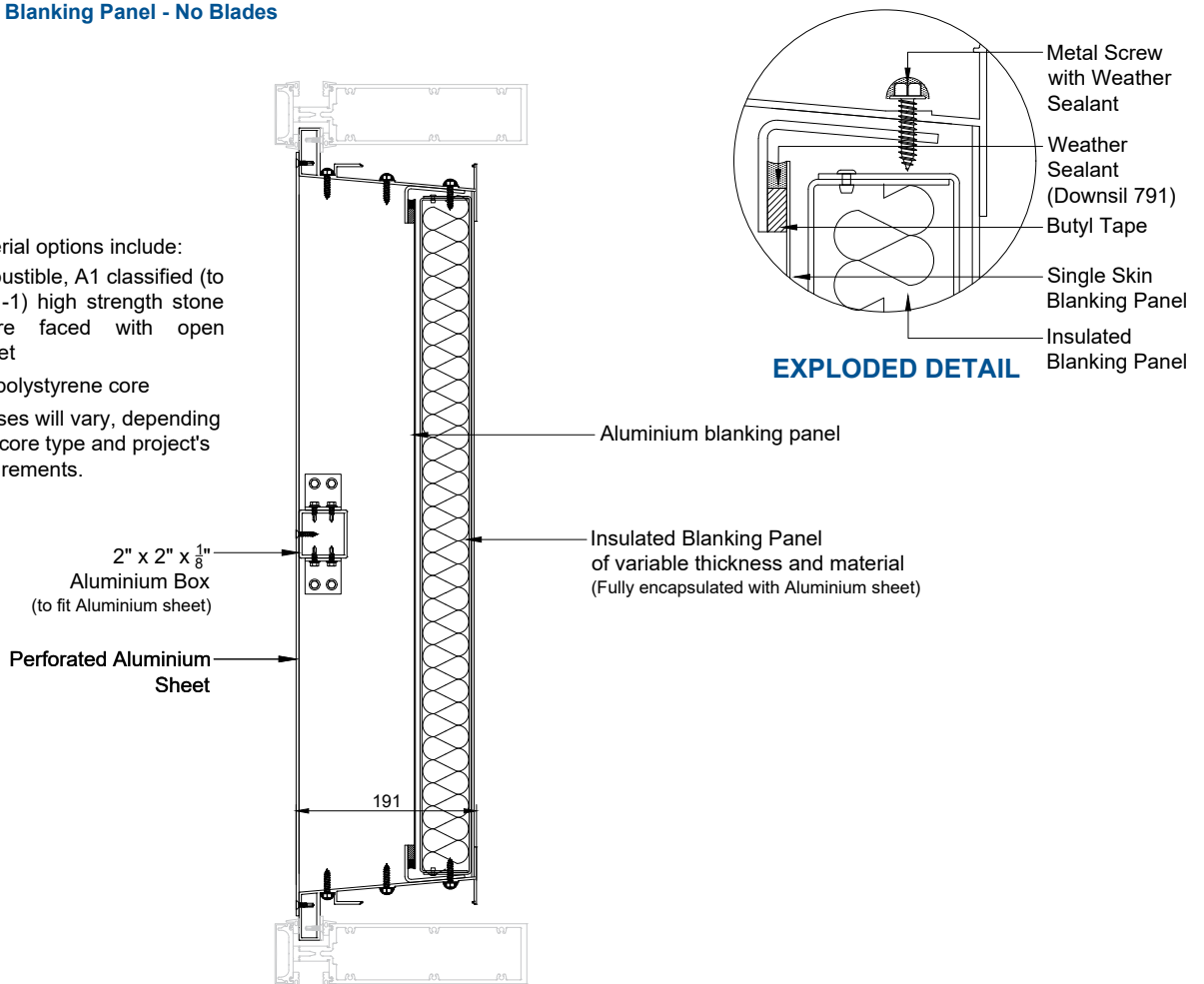
With Insulated Blanking Panel - No Blades

NOTE:

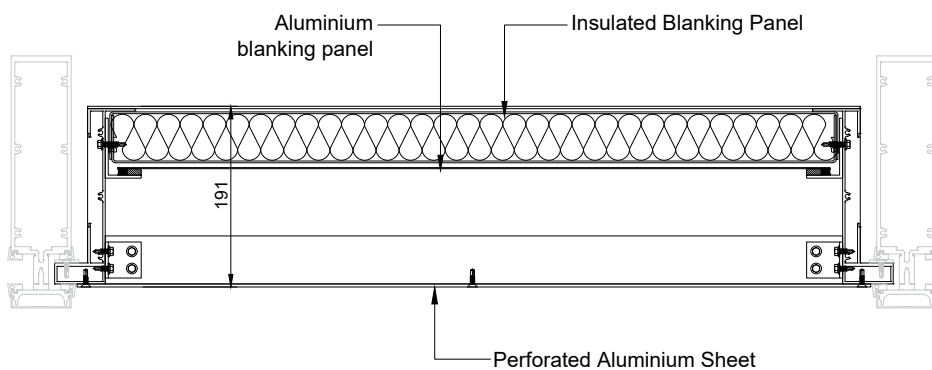
Insulation material options include:

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



SECTION ON ELEVATION (1:8 @A4)



PLAN VIEW (1:8 @A4)

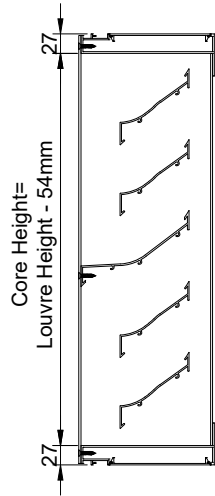
NOTE: Glazed-in louvres are supplied with Black Dowsil 791 Weatherproofing Silicone Sealant applied to seal all fixings and joints around the perimeter frame at the rear.

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Ventilation Louvres

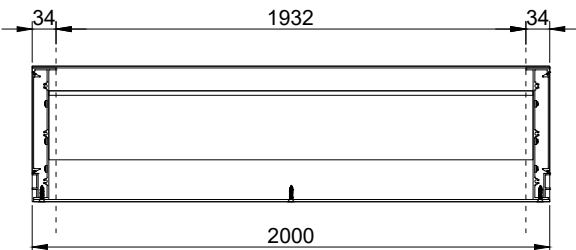
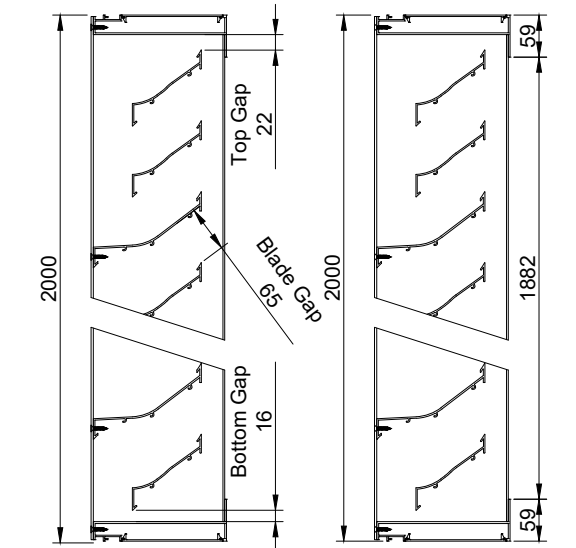
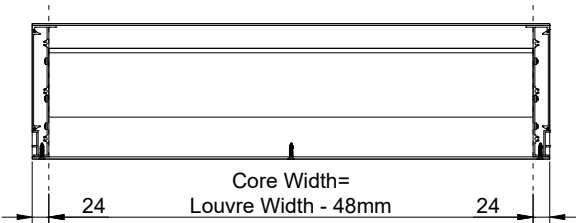
PL-4080 | Technical Datasheet

APPENDIX A - FREE AREA



Core Area

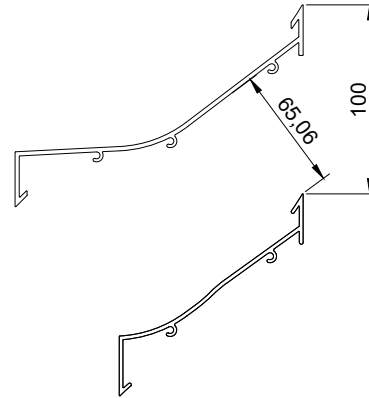
The louvre core area is product of the minimum height and minimum width of the front opening in the louvre assembly with the louvre blades removed (BS EN 13030)



Standard Perforated Aluminium

Sheet Free Area: 50.8%

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.

$$65.06/100 = 65.1\%$$

Free Area

Total free area is determined by multiplying the sum of the minimum distance between intermediate blades, top blade and head, and bottom blade and cill, by the minimum distance between jambs.

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 - 19

A - No. of gaps between blades - 18

B - Top gap - 22mm

C - Blade gap - 65.06mm

D - Bottom gap - 16.15mm

E - Width between jambs - 1932mm

Total Free Area

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

$$((0.022 + (0.06505 \times 18) + 0.01615) \times 1.932) = 2.336\text{m}^2$$

Percentage Free Area

$$2.336/4 = 58.4\%$$

Approximate Free Area

Total Free Area

Open at rear of louvre x percentage free area between blades

$$1.882 \times 1.932 \times 65.1\% = 2.367\text{m}^2$$

Percentage Free Area

$$2.367/4 = 59.2\%$$

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