Ventilation Louvres

A-6177 I Technical Datasheet

www.c-sgroup.co.uk/38274

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March 25

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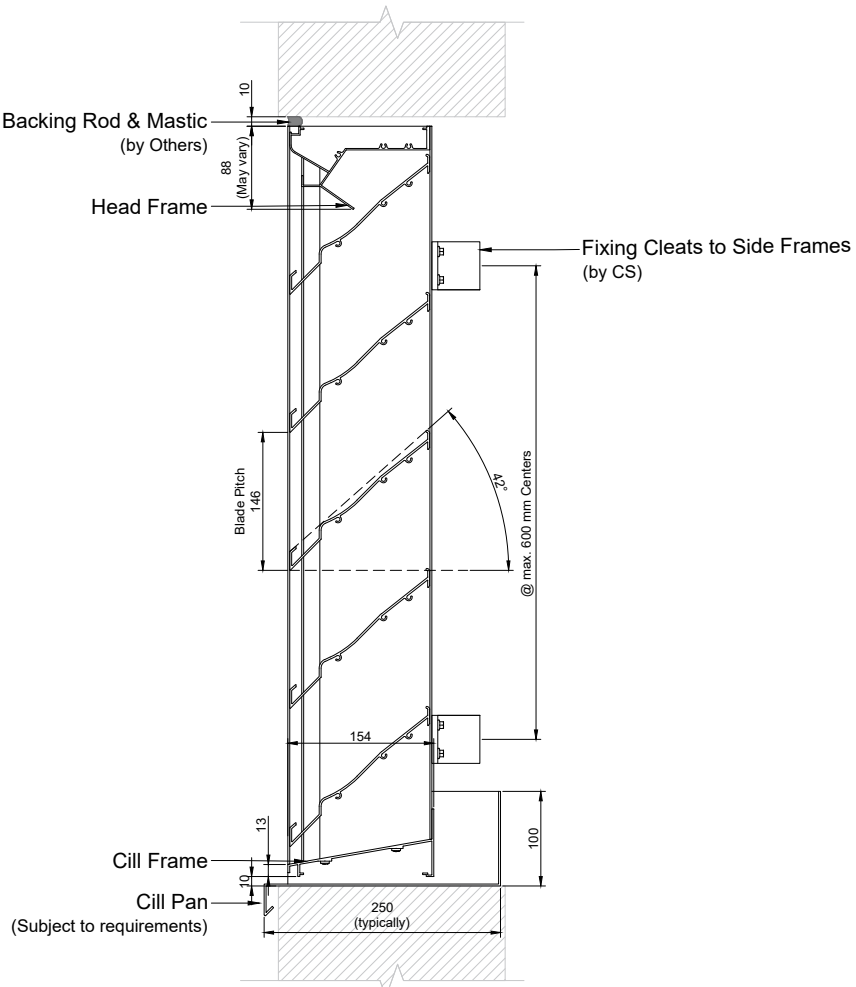
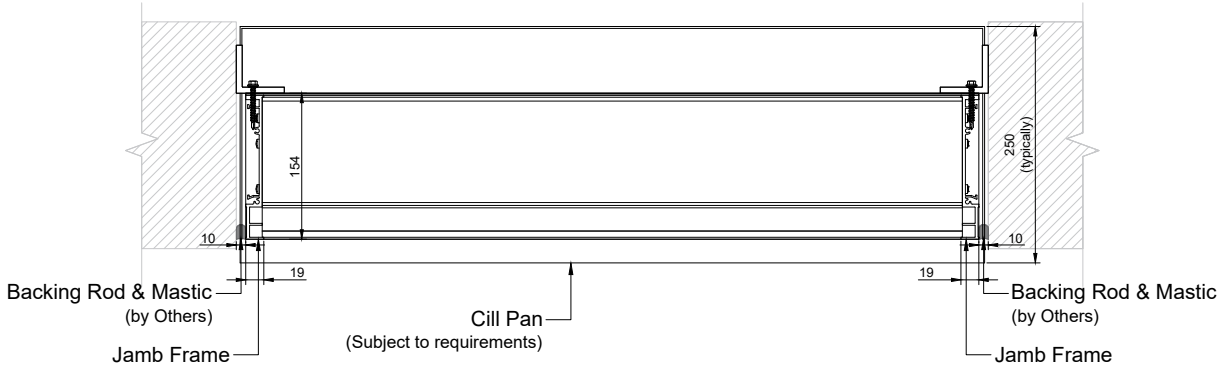
STANDARD DETAIL



SECTION ON ELEVATION (1:8 @A4)



PLAN VIEW (1:8 @A4)

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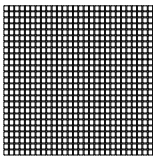
STANDARD DETAIL

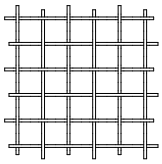
With Insect Mesh or Bird Guard

INSECT MESH

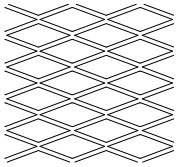


Fiberglass Mesh
Black PVC coated
(1:2 @A4)
LV-1008
72% Free Area

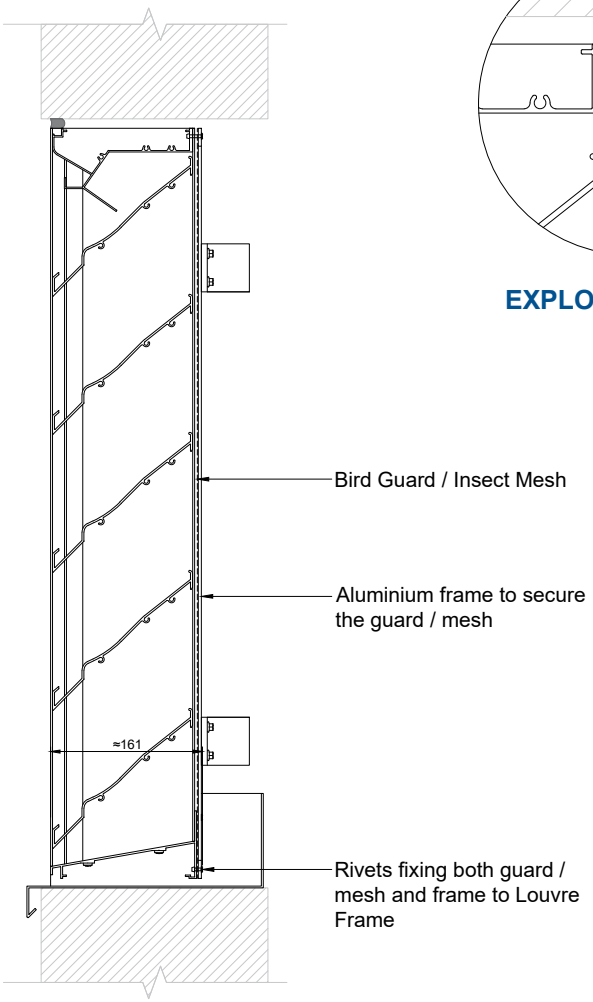
BIRD / VERMIN GUARDS



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



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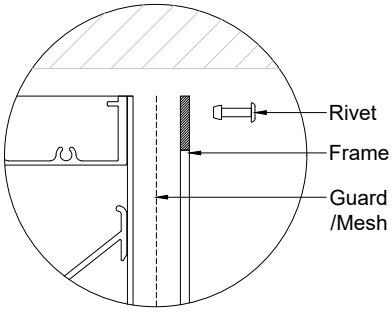
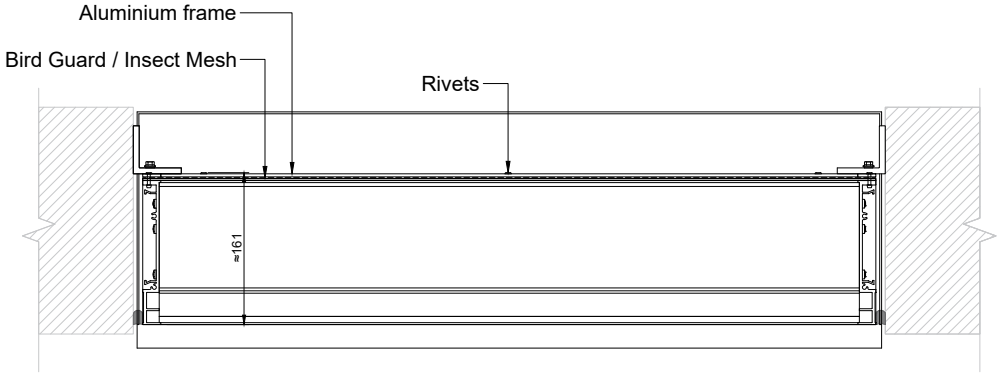


EXPLODED DETAIL



PLAN VIEW (1:8 @A4)

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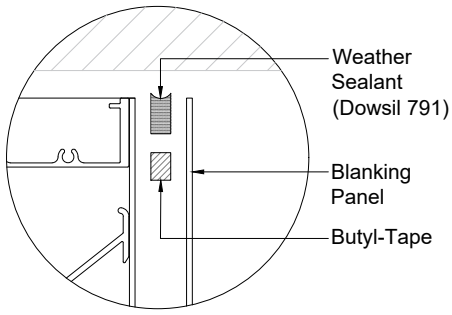
STANDARD DETAIL

With Single Skin Blanking Panel



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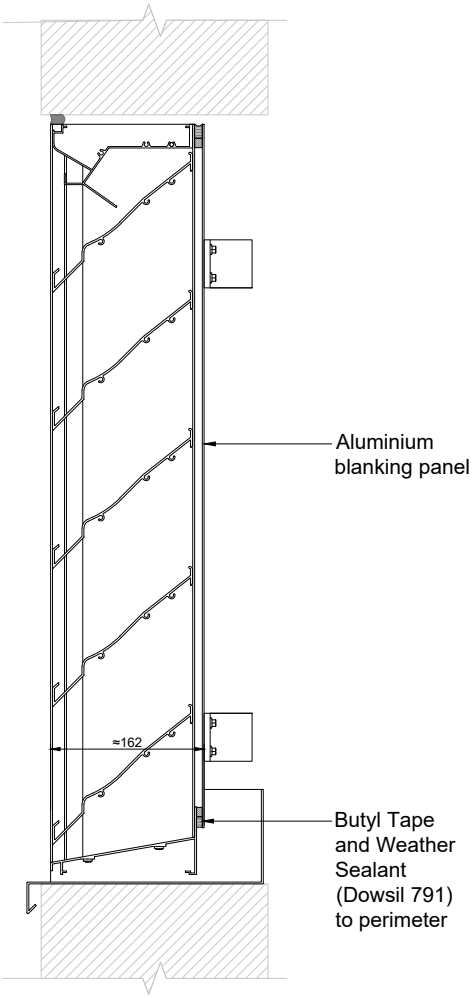

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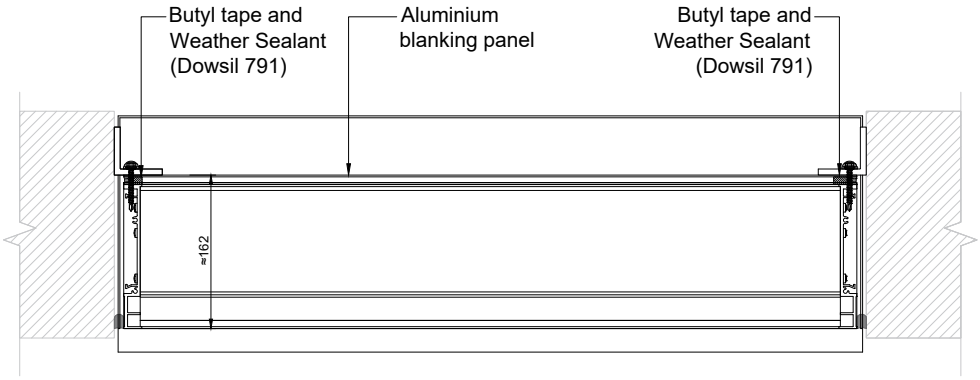

PLAN VIEW (1:8 @A4)

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STANDARD DETAIL

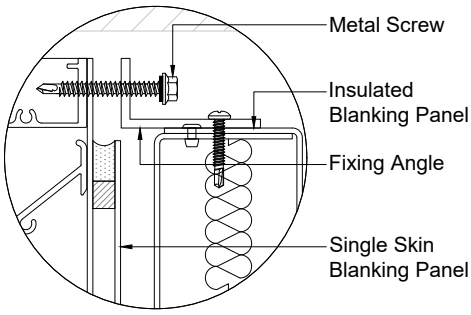
With Insulated Blanking Panel

NOTE:

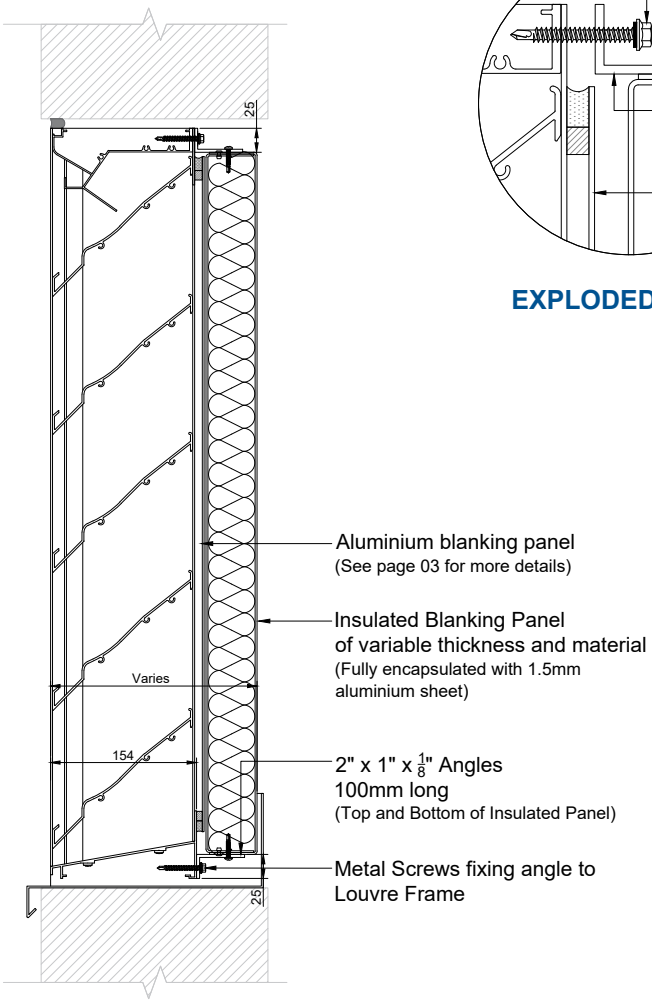
Insulation material options include:

- Non-combustible Core,
  A1 classified (to EN 13501-1)
- Extruded polystyrene core

Panel thicknesses may vary, depending on project's insulation requirements.



EXPLODED DETAIL



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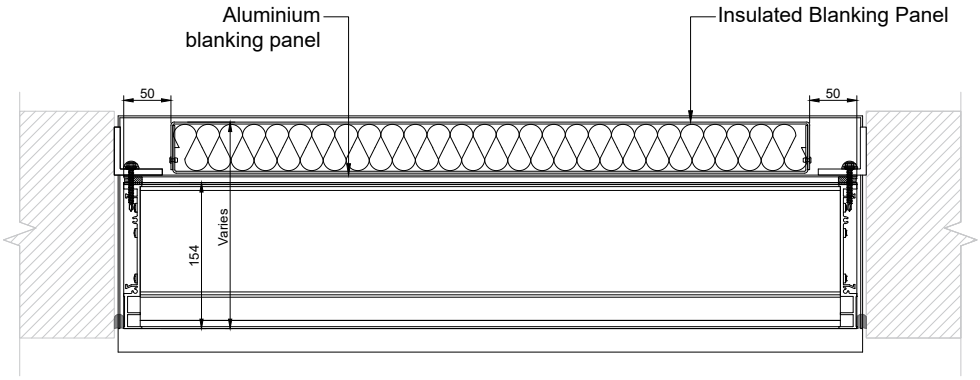

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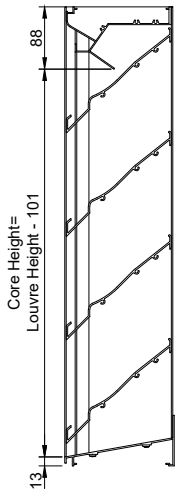
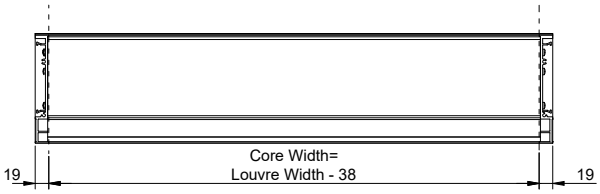
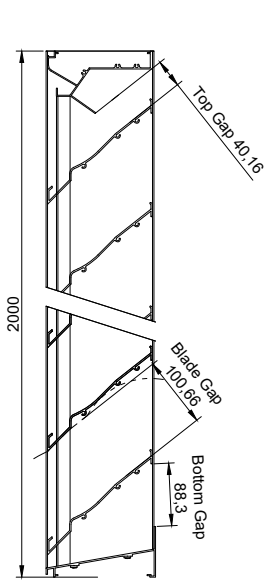
APPENDIX A - FREE AREA

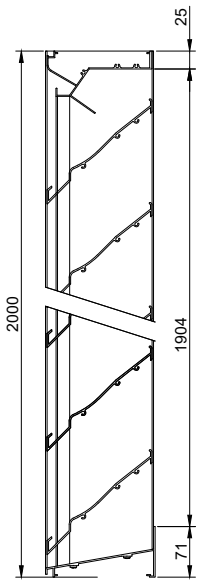


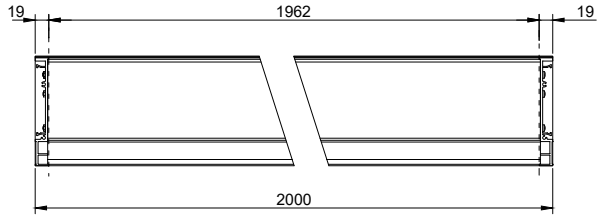
Core Area

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)

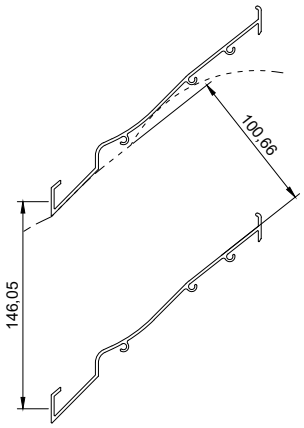








Free Area Between Blades



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

100.66/146.05 = 68.9%

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 - 13

A - No. of gaps between blades - 12

B - Top gap - 40.16 mm

C - Blade gap - 100.66 mm

D - Bottom Gap - 88.30 mm

E - Width between jambs - 1962mm

Total Free Area

((B + (C x A) + D) x E)

((0.04016 + (0.10066 x 12) + 0.0883) x 1.962) = 2.622m²

Percentage Free Area

2.622/4 = 65.5%

Approximate Free Area

Total Free Area

Opening at rear of louvre x percentage free area between blades

1.904 x 1.962 x 68.9% = 2.574m²

Percentage Free Area

2.574/4 = 64.3%

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