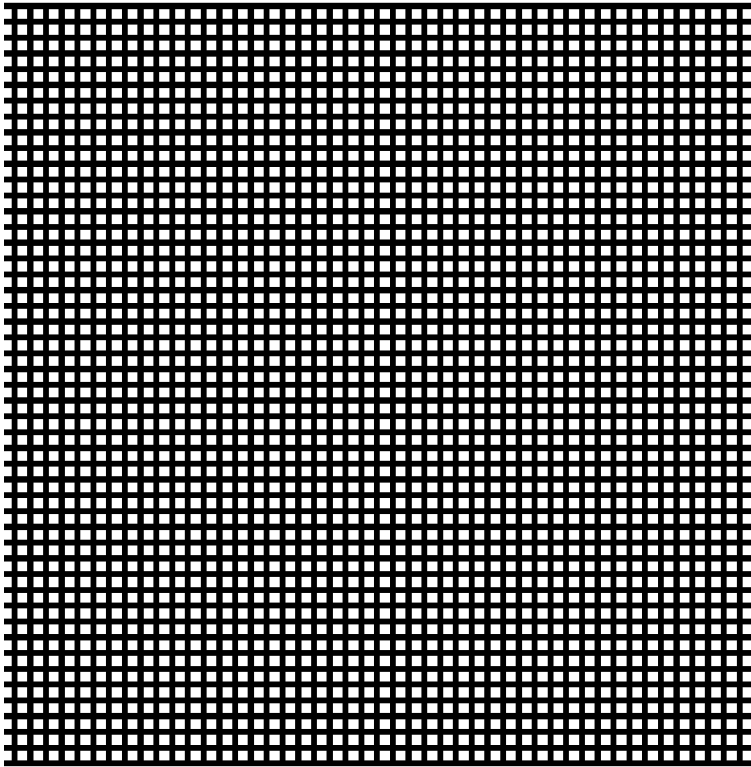


# VENTÜER TECHNICAL DATA SHEET



## Bushfire Zone Ember Mesh

Ventuer Ember Mesh is a rigid woven stainless-steel screen designed to prevent ember entry into ventilation louvres and façade openings. It provides effective bushfire protection while maintaining airflow and structural stability under heat. A matte black finish ensures a discreet architectural appearance.

- Stainless steel construction (SS304)
- 0.7 mm wire diameter at 2 mm centres (AS 3959-compliant aperture size)
- Rigid woven mesh (no tensioning required)
- Black PVDF finish (low glare, does not affect fire performance)
- 56% free area for ventilation efficiency
- High durability and dimensional stability under elevated temperatures

AS 3959:2018 – Construction of buildings in bushfire-prone areas sets the requirements for protecting ventilation openings, louvres, and façade penetrations against ember attack, radiant heat, and flame exposure. From BAL-12.5 upward, any opening must be screened with a mesh that prevents ember entry, maintains structural integrity under elevated temperatures, and is constructed from non-combustible materials.

Ventuer Ember Mesh is engineered specifically for this purpose. Manufactured from rigid woven stainless steel with 2 mm apertures, it satisfies the ember screening requirements across all Bushfire Attack Levels, including BAL-FZ. The mesh maintains its shape under heat, resists deformation, and integrates seamlessly with Ventuer louvre systems to ensure compliant gap control and reliable performance during bushfire conditions.

AS 3959 Requirement	Relevant Clause(s)	Requirement Description	Evidence of Compliance
Maximum aperture 2mm	Sections 7, 8, 9	Screening of openings must use mesh with $\leq 2$ mm openings across all BALs (12.5–FZ).	Mesh wires at 2 mm centres (fully compliant).
Non-combustible material	Section 3	Screens must be constructed from non-combustible metal.	Stainless steel Grade 304, recognised as non-combustible.
Structural integrity under heat	Section 9 (BAL-FZ)	Screening must maintain shape, prevent enlargement of openings, and resist deformation under flame exposure.	Rigid woven stainless-steel mesh maintains dimensional stability.
Resistance to ember attack	Sections 7–9	Mesh must prevent ember entry during bushfire attack.	2 mm apertures, rigid construction, and tight detailing prevent ember ingress.
Resistance to radiant heat & flame	Section 9 (BAL-FZ)	Components exposed to Flame Zone must withstand radiant heat and flame contact.	Stainless steel mesh maintains integrity at high temperatures.
Corrosion resistance	Section 3 general requirements	Materials must be durable and suitable for external use.	Stainless steel 304 provides high corrosion resistance.
Airflow retained	Not specifically prescribed	Screens must not impair ventilation beyond functional limits.	56% free area ensures airflow for natural or mechanical systems.
Compatibility with louvre systems	Requirements for openings in façades	Screens must be integrated in a way that maintains $\leq 2\text{--}3$ mm gaps.	Ventuer detailing provides compliant fixing systems with controlled tolerances.

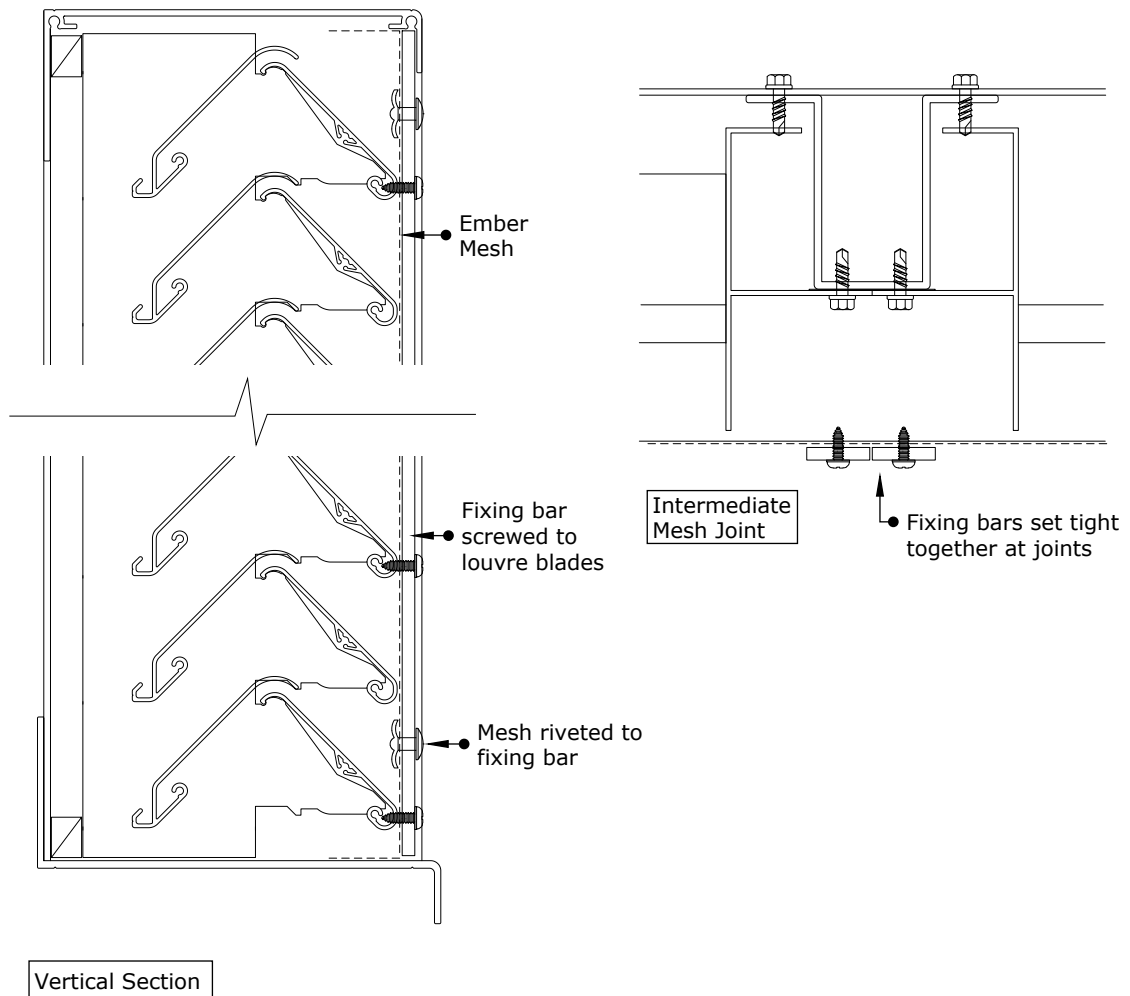
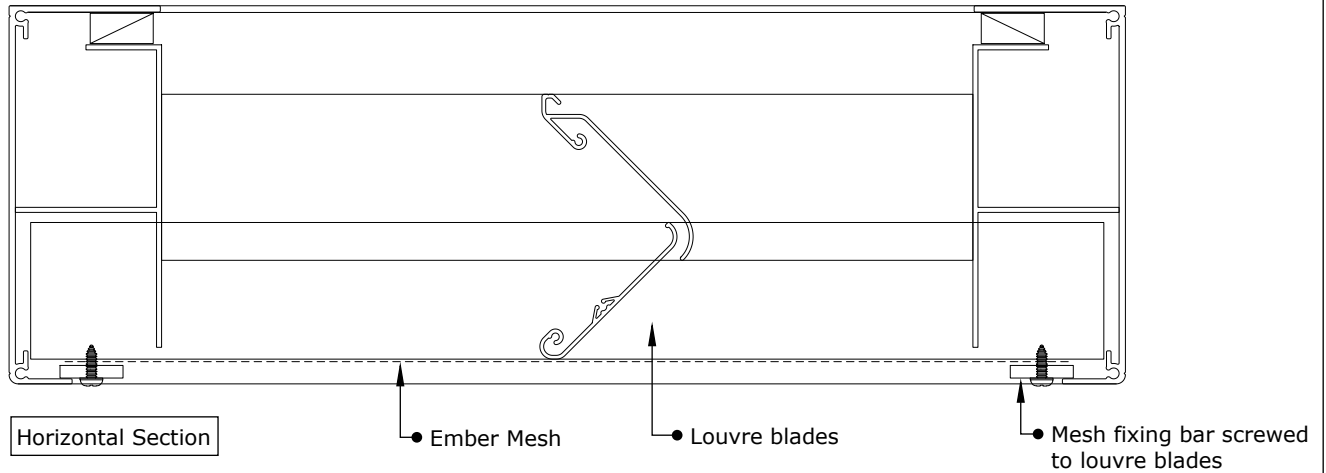
Bushfire Zone  
Ember Mesh



Scale: 1:1 when printed A4  
Date: 19/10/2024

BAL-EM\_DS Ver.1

# VENTÜER TECHNICAL DATA SHEET



## Ember Mesh Horizontal Multi-Stage Louvre Installation



**VENTÜER**  
High-Performance Building Ventilation

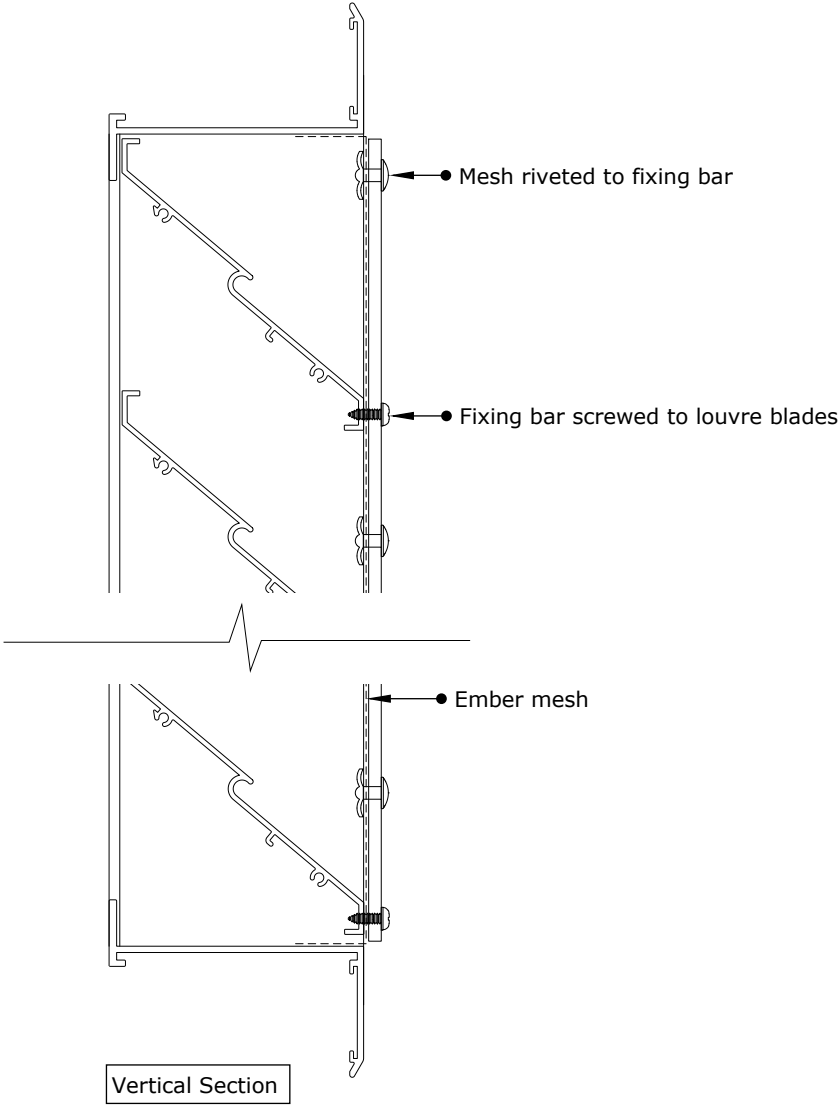
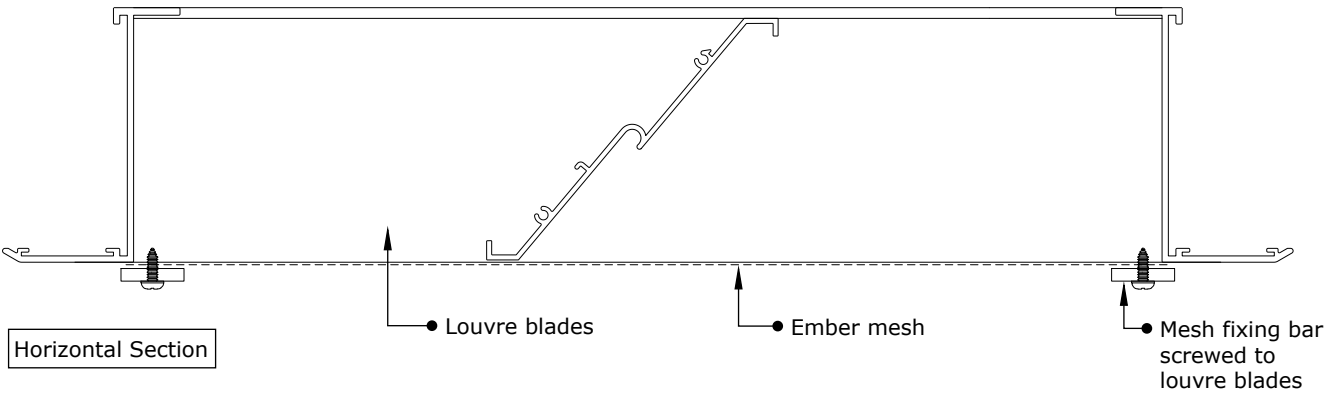
P: +64 9 973 3616  
W: ventuer.co.nz  
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BAL-EM\_MSI

**Ver.1**

# VENTÜER TECHNICAL DATA SHEET



**Ember Mesh**

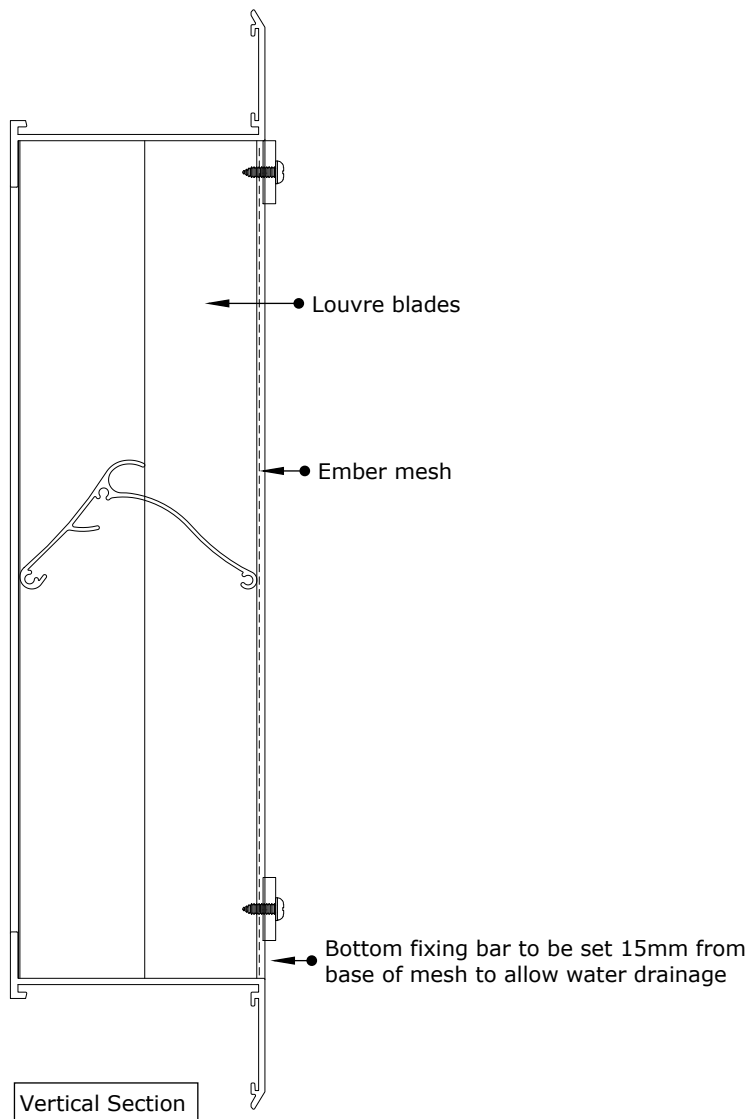
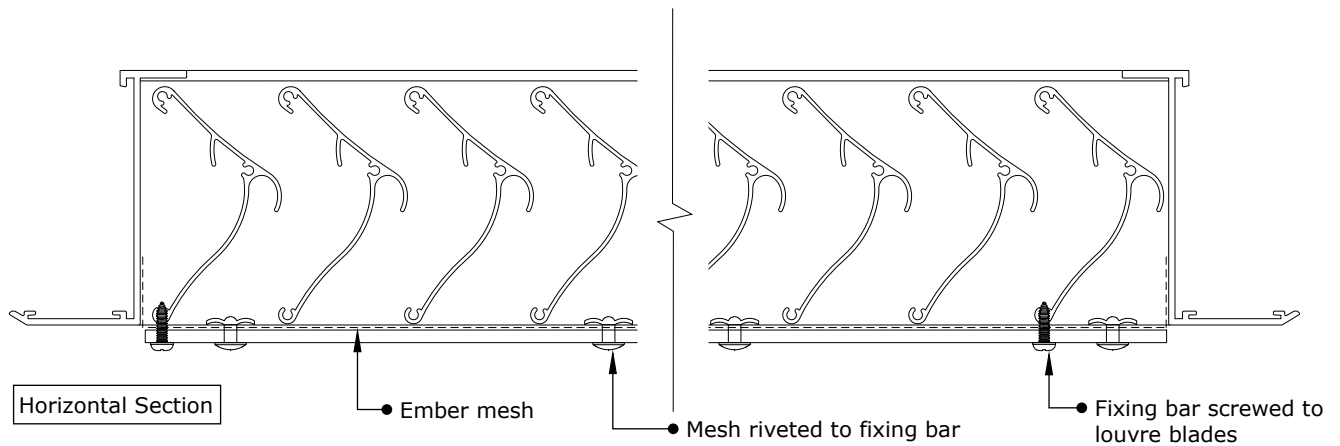
**Horizontal Single-Stage  
Louvre Installation**



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BAL-EM\_SBI **Ver.1**

# VENTÜER TECHNICAL DATA SHEET



## Ember Mesh

### Vertical Multi-Stage Louvre Installation



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