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Perforated Metal Panels – Benefits, Applications & Key Design Considerations

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1. Name the various applications in which perforated metal is commonly used

Perforated metal can be found in architectural applications, as well as in several industries, including Chemical & Energy, Food & Beverage, Automotive, and Material Development.

2. What is the purpose of perforated metal in construction?

Architectural perforated façades provide natural lighting for interior spaces and can also be employed to create aesthetic finishes for otherwise plain surfaces.

3. How are perforated metal panels made?

Methods of manufacture include use of punch presses, rotary pinned perforation rollers, and lasers, as well as the use of “die and punch” tools via high speed Computerised Numerical Control (CNC) turret machines

4. How do 3D perforated façades differ from 2D perforated façades and what benefits do they provide?

3D perforated façades are produced by varying and rotating form heights. The resulting patterns are textured, more aesthetically intriguing and high performing, allowing for freedom of expression, depth, and illusion

5. When specifying perforated metal façades, why is the choice the fixing system an important consideration?

Choosing a suitable fixing system can also often reduce the need for structural steel, and therefore also reduce overall costs and carbon emissions.

6. Name the standard that applies to the fire resistance and combustibility of perforated metal.

AS/NZS 1530.1:1994