

Understanding Metal Roofing & Cladding

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1. Under AS/NZS 2728:2013, what key performance tests must pre-painted steel cladding systems meet to ensure long-term coating durability in harsh external environments?
2. What metallurgical advantage does adding titanium to zinc alloys (as per EN 1179 and EN 988 standards) provide in cladding applications?
3. Which aluminium alloy series is most suitable for architectural cladding in marine or industrial environments and what are its key advantages?
4. In terms of fire compliance, which Australian Standards confirm the non-combustibility of steel, zinc, aluminum and copper cladding systems?
5. What role does colour selection play in the long-term thermal performance of pre-painted steel or aluminium facades?
6. Why is substrate compatibility important when specifying metal cladding systems?

By the end of this session you should understand:

- Outline the historical timeline of each metal and its evolution to present day use in metal cladding and roofing
- Identify different paint and coating systems for steel, aluminium, zinc and copper for roof and wall sheeting.
- Explain the specific reasons for the durability of each metal and approximate their life expectancies.
- Describe the sustainable characteristics of steel, aluminium, zinc and copper.
- Identify available profiles for roofing and cladding in steel, aluminium, zinc and copper.
- Compare the approximate costing for installation of roofing/cladding in steel, aluminium, zinc and copper.
- Explain the correct design and specification of the 4 metals and suitability for projects based on their characteristics.

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