

## **TOPIC**

Aluminium: Breaking Tradition

## **OVERVIEW**

The benefits of Aluminium over traditional material selection. Key considerations when designing a rooftop platform system.

**10:15am – 11:15am AEDT**

**Thursday 3 March 2022**

## **PRESENTED BY**

**Dallas Jensen**

Business Development

## **LEARNING OUTCOMES**

1. Discuss the benefits of Aluminium.
2. Identify the key differences between Aluminium & Steel.
  - Corrosion
  - Stability
  - Weight
3. Design a considered Purlin Mounted Rooftop Platform
4. Design a considered Portal Mounted Rooftop Platform
  - X-Beam
5. Design a Screening Solution and discuss the benefits of your material selection.
6. Formal Outcomes: Design: Schematic Design & Design: Pre-Design.

## Formal Questions.

1. Approx. how much faster is the corrosion rate for steel than aluminium?
2. Roughly, what percentage of Aluminium ever used is still in circulation?
3. A 6mm Steel sheet weighs 47.1kg/m<sup>2</sup>.  
What is the weight of the Aluminium equivalent?
4. In the interest of the longevity and preservation of your roof, where is the best place to fix a purlin-mount platform?
  - a. Through the rib i.e., the peaks of the roof sheeting
  - b. Through the pan of the roof sheeting
5. Adding a screen to your platform solution will substantially increase the wind force.
  - a. TRUE or FALSE?
6. Traditionally Structural Steel platforms were the 'go to' for rafter-mounted platforms.  
What is the name of the innovative aluminium + carbon-fibre platform solution by Monkeytoe?
7. If a traditional 10m x 10m Steel platform weighs up to 10,000kg, the Xbeam platform is a mere ...
8. Traditionally, platforms + screens were purchased separately, rather than as a complete system. What benefits are attributed to purchasing as a complete system?
9. Name the two primary functions of a platform screen.