

# DS

## Aluminium Support Joist



### Overview

Non-combustible aluminium support joist designed to support Ryno systems. Support joists can be secured to decking pedestals or cleats to create a strong and durable support structure for your system.

- Multiple joist depths available to suit different applications
- Manufactured from incredibly strong and lightweight aluminium
- Large allowable spans
- Available in mill finish or powder-coated



### Performance

|                            |  |
|----------------------------|--|
| <b>Allowable load</b>      | Uniformly distributed >4.0kN/m <sup>2</sup> , Concentrated 2kN |
| <b>Material</b>            | Aluminium alloy 6063 - T6                                      |
| <b>Biological/Chemical</b> | Resistant to moulds, algae, alkali, bitumen, UV                |
| <b>Reaction to fire</b>    | Mill finish - A1 (inherently non-combustible)                  |
| <b>Compatible supports</b> | ADC, RD-FR, RDA-C, RDF, RDC                                    |
| <b>Warranty</b>            | 30 years*  |
| <b>Design life</b>         | 60 years*  |

\*Valid when used as part of a complete RYNO IGNO system

### Dimensions











| Joist code   | Height | Width | Stock lengths | Weight               |
|--------------|--------|-------|---------------|----------------------|
| <b>DS15</b>  | 15mm   | 48mm  | 3600mm        | 1.7kg/m <sup>2</sup> |
| <b>DS25</b>  | 25mm   | 48mm  | 3600mm        | 1.7kg/m <sup>2</sup> |
| <b>DS50</b>  | 50mm   | 48mm  | 3600mm        | 2.3kg/m <sup>2</sup> |
| <b>DS50C</b> | 50mm   | 48mm  | 3600mm        | 1.7kg/m <sup>2</sup> |
| <b>DS75</b>  | 75mm   | 48mm  | 3600mm        | 3.2kg/m <sup>2</sup> |
| <b>DS75C</b> | 75mm   | 48mm  | 3600mm        | 3.3kg/m <sup>2</sup> |

## Spans

| Joist code   | Joist centres | Maximum span<br>(UDL - 4.0kN/m <sup>2</sup><br>Point load - 2kN)** |
|--------------|---------------|--|
| <b>DS15</b>  | ≤ 600mm       | 360mm  |
| <b>DS25</b>  | ≤ 600mm       | 600mm  |
| <b>DS50</b>  | ≤ 600mm       | 1200mm   |
| <b>DS50C</b> | ≤ 600mm       | 1050mm   |
| <b>DS75</b>  | ≤ 600mm       | 1600mm   |
| <b>DS75C</b> | ≤ 600mm       | 1450mm   |

\*\* Full span data/loadings available on request

## Compatible Systems

|  |  |   |
|--|--|---|
|   <p><b>BalcaSmart™ Aluminium</b></p> <p>Decking system for metal-frame balconies</p>                    |   <p><b>BalcaSmart™ Rail</b></p> <p>Premium, versatile paving system for waterproofed substrates</p> |   <p><b>TerraSmart™ Aluminium</b></p> <p>Decking system for waterproofed substrates</p> |
|   <p><b>TerraSmart™ Rail</b></p> <p>Premium, versatile paving system for waterproofed substrates</p> |  <p><b>TerraSmart™ Composite</b></p> <p>Wood-plastic composite decking system for outdoor spaces</p>  |  <p><b>TerraSmart™ Rail</b></p> <p>Premium, versatile paving system for waterproofed substrates, <b>where non-combustibility isn't required</b></p>                      |

## Got questions?

Visit [www.rynogroup.co.uk](http://www.rynogroup.co.uk) or call us today on **+44 (0)203 967 3500** or reach out on [sales@rynogroup.co.uk](mailto:sales@rynogroup.co.uk).