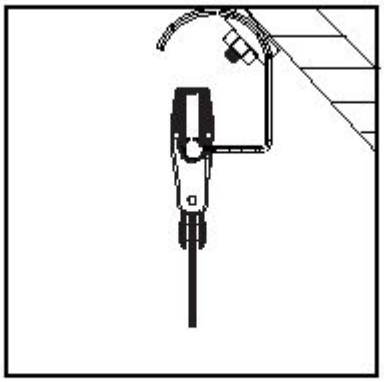
Science. Applied to Life.™

Technical Data Sheet
April 2025

# Technical Data Sheet: 7241414

## Variable Mount Angle Intermediate Bracket



| | |
|---|---|
| **Form Number** | 7241414 |
| **Revision** | 4 |
| **First Issue** | 08/01/2020 |
| **Revision Date** | 04/01/2025 |
| **Document Language** | EN |

**Application:**

Intermediate bracket with adjustability in mounting angle for installation onto underside of pitched roof while maintaining optimum traveler engagement angle.

Minimum grade A4-70 M12 (or 316 Stainless Steel, 100,000psi, ½ -13 inch) fastener should be used to fix the bracket to the structure at a recommended torque of 50 Nm (37 ft-lbf). Fixing shall support at least twice the load values stated in the technical report from the 3M DBI-SALA Installed Systems Calculation Software for the system layout, components, number of users, and SRL or Lanyard connecting device.

Cable Tensioning: 0.8 kN or 5.0 kN

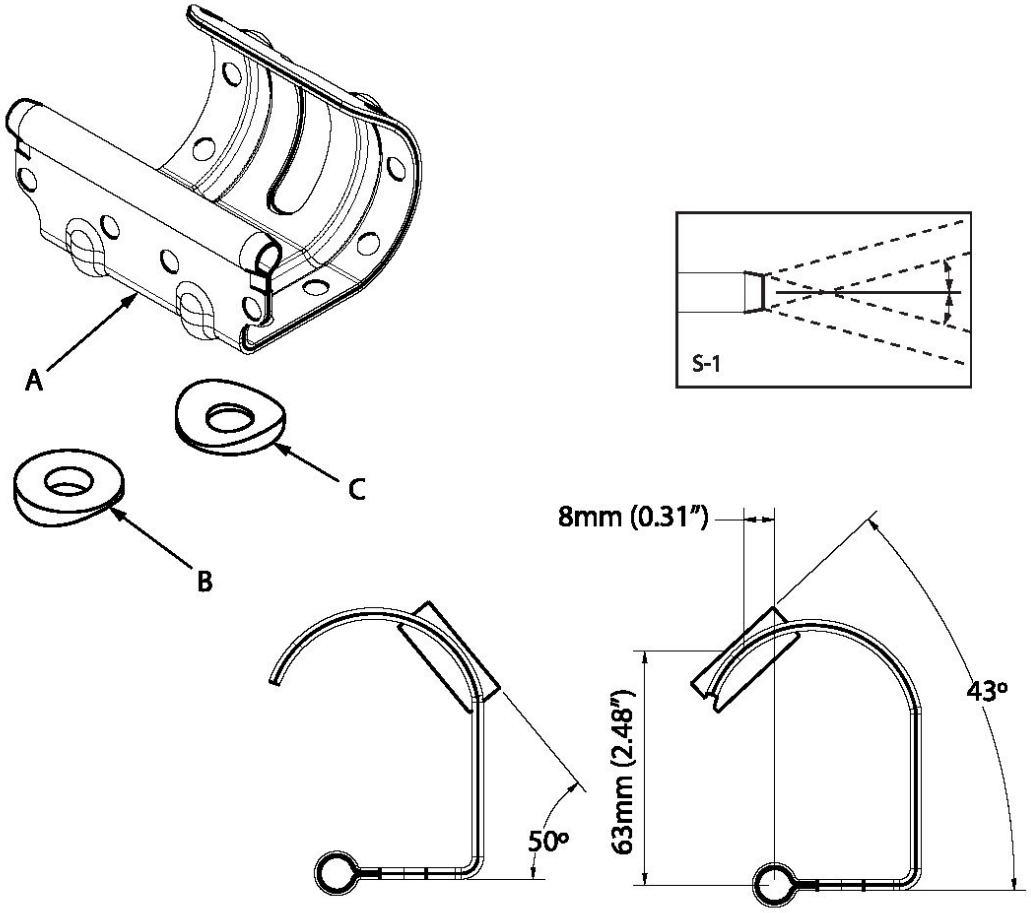
Operating Temperature Range: 120°C (248°F) to -50°C (-58°F)

**Table 1: Part Specification**

| Net Weight kg (lb.) | Minimum Breaking Strength kg (lb.) | (S-1) Cable Exit Angle |
|---|---|---|
| 0.28 (0.6) | 24 (5400) | 15° Maximum (0° for 5kN Tension) |

**Table 2: Component Specification**

| Callout | Quantity | Component | Material | Finish |
|---|---|---|---|---|
| A | 1 | Formed Bracket | 316 Stainless Steel | Electropolished |
| B | 1 | Saddle Washer, Upper | 316 Stainless Steel | Natural |
| C | 1 | Saddle Washer, Lower | 316 Stainless Steel | Natural |




**Personal Safety Division**
3M Center, Building 235-2W-70
St. Paul, MN 55144-1000

3M PSD products are occupational use only.

**3M Canada**
P.O. Box 5757
London, Ontario
N6A 4T1

**In United States of America**
Technical Service 1-800-243-4630
Customer Service 1-800-328-1667
3M.com/workersafety

**In Canada**
Technical Service 1-800-267-4414
Customer Service 1-800-364-3577
3M.ca/Safety

© 3M 2024. All rights reserved.
3M is a trademark of 3M Company and its affiliates.

Used under license in Canada. All other trademarks are property of their respective owners.
Please recycle.