



These CAD details have been made available by Kingspan Insulation New Zealand Limited (KINZ) to help you build and design with Kingspan products and ancillary products. By downloading any of these CAD details (the details) you (the User) accept they are for guidance only and not specific to any particular project. KINZ makes no warranties, representations or undertakings of any kind (expressed or implied) with regard to the accuracy adequacy currency or completeness of the details or that the details are suitable for any specific use. While KINZ has taken care in making these Details available, the User will remain solely responsible for the use of the Details and for any liability to anyone receiving or using systems created by the User. You should obtain specific architectural engineering, other technical and/or professional advice to assess the suitability of the Details to your particular project. KINZ accepts no liability arising out of the use, reproduction or distribution of the Details. By downloading and using the Details you acknowledge and agree to the terms outlined herein. If you disagree with such terms, please discontinue using the details. Indicative detail only. Some variation may be required. The Detail and its contents are in connection with Kingspan Ltd Products only @Kingspan Ltd. Please feel free to discuss your particular requirements with our Kingspan Insulation technical team.

NOTES:

- 1 - Mechanical fasteners should be long enough to fix through the Kooltherm K7 and provide 30mm min embedment for screws into timber framing and three thread engagement for screws into steel rafters.
- 2 - Thermakraft COVERTEK 407® is the recommended roof underlay; however, any Thermakraft breathable absorbent roof underlay may be suitable for installation directly under the roof cladding. Kingspan Thermakraft RainArmor® is installed directly to the face of the Kooltherm K7 Pitched Roof Board. It is an alternative to the underlay directly under the roof cladding.
- 3 - To reduce air infiltration, tape the Kooltherm K7 joints with Kingspan AIR-CELL Insulation Tape, Kingspan Thermakraft Premium Joining Tape or Theraflash. If using the Kingspan Thermakraft RainArmor taping the Kooltherm K7 joints is not necessary.
- 4 - Fill all gaps with expanding foam. The installer must check the expanding foam's compatibility with Kooltherm K7 before mass apply. A polyurethane non-solvent base product is recommended.
- 5 - The maximum span of Kooltherm K7 is 600mm and beyond this, additional support should be installed.
- 6 - Use appropriate mechanical fasteners to install counter battens on top of the Kooltherm K7. The purlin counter batten spacings and fixings need to be calculated from the building's specific wind load and roofing material.
- 7 - Install treated timber stop battens fixed to the side of the rafters to provide a 'stop' below the insulation.
- 8 - This document must be read in conjunction with the Installation Guide of Kooltherm K7 Pitched Roof Board.
- 9 - This document must be read in conjunction with Kingspan Thermakraft RainArmor Installation Guide and Data Sheet prior to installation.

Drawing Title:
**K7-Timber Frame-Fully Filling
the Depth of Rafters**

Product Name:
**Kooltherm K7 Pitched Roof
Board**

Drawing:
K7-TF-FFDR

Scale:
1:2

Sheet:
A3

Revision: 1.2

Date: September 2025



www.kingspaninsulation.co.nz TF:0800 806 595 technical@kingspaninsulation.co.nz