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SMARTSPEC

1 INSULATION

1.1 Preliminary

Refer to General Conditions of Contract and the Special Conditions in this Specification as appropriate. Read this section in conjunction with all other trade sections.

1.2 Compliance

Comply with the New Zealand Building Code 1992 including all revisions and amendments, Verification Methods where appropriate, and construction principles that are embodied in the Acceptable Solutions.

Comply with all relevant provisions and recommendations of:

4214:2006(NZS)	Methods of determining the total thermal resistance of parts of buildings
4243.1:2007(NZS)	Energy efficiency - Large buildings - Building thermal envelope
4859.1:2018(AS|NZS)	Thermal insulation materials for buildings - Part 1: General criteria and technical provisions
NZBC H1	Energy Efficiency

1.3 Kingspan Thermakraft - Kooltherm Insulation

1.3.1 Scope

Scope
Supply and install Kingspan Insulation NZ - Kooltherm, as specified herein, to the locations and details shown on the design drawings. All aspects of this work shall comply with the NZ Building Code, related Kingspan Insulation NZ - Kooltherm Insulation Systems technical literature and publications (check www.kingspaninsulation.co.nz or email technical@kingspaninsulation.co.nz or call 0800806595 for the latest editions), and other relevant product manufacturers' recommendations.

No substitutions are permitted for Kingspan Insulation NZ - Kooltherm systems.

For the purpose of this specification, the Thermal Insulation System is referred to as Kingspan Insulation NZ - Kooltherm & or Kingspan - Kooltherm or Kooltherm, and all Kingspan Insulation NZ associated technical literature and publications, including the Product Technical Statement, installation instructions and drawings, are collectively referred to as the 'Technical Literature'.
Kingspan Insulation NZ - Kooltherm are designed for Residential, Commercial & Industrial buildings with an ability to be used in all occupancy type classification as applicable.
An Environmental Product Declaration is available for Kooltherm® product range noted in the accompanying drawings. For further information please contact Kingspan Insulation NZ - Kooltherm on email technical@kingspaninsulation.co.nz or call 0800806595.

Extent of work:
The following is a list and/or general description of the extent of the Kingspan Insulation NZ -

Kooltherm works, which are more specifically defined in the contract documents, required for the completion of the contract works:

1.3.2 Warranty

Warranty Kingspan Insulation - Kooltherm® Warranty:
- 10 Years Warranty on Materials
- Kooltherm® K10 Soffit Board
- Kooltherm® K10 G2W White Soffit Board
- Kooltherm® K12 Framing Board
- Kooltherm® K17 Insulated Plasterboard
- Kooltherm® K7 Pitched Roof Board

Terms and Conditions are here www.kingspan.com/nz

1.3.3 Requirements

Safety
Comply with the Health and Safety at Work Act 2015 (HSWA), and with all relevant Health and Safety at Work Regulations 2016, and with all relevant WorkSafe New Zealand (WorkSafe) Approved Codes of Practice and WorkSafe Information and Guidance, particularly those for construction and building maintenance.

Substitutions
The Kingspan Kooltherm Insulation product range shall be as specified herein and on the design drawings. The substitution of the Kingspan Kooltherm Insulation product range for an alternative brand, system or product is not permitted under any circumstances.

The substitution of the specified Kingspan Kooltherm Insulation product range or component for an alternative Kingspan Kooltherm Insulation product range or component by the Contractor shall only be permitted with the Contract Administrator's written authorisation and shall be at no additional cost to the Principal. Should any resultant extra work and/or redesign work be required to accommodate an alternative Kingspan Kooltherm Insulation product range or component to satisfy design, performance, and compliance requirements, then the cost of these shall be borne by the Contractor.

Inspections & reporting
BCA inspections shall take place at each of the stages as scheduled in the Building Consent. Confirm a written programme to facilitate these inspections, including notification when each stage of the work is ready for inspection.
Carry out all necessary pre-installation and installation inspections for each area of the works.
Complete all necessary Pre-Installation Checklists prior to installation, and all necessary Installation Checklists.
Complete all necessary Final Checklists and Installation Sign-Off Certificates before handing over completed work.

Defective materials & workmanship
Should defective materials and/or work be found at any time before the final acceptance of the work,