Thermakraft

CI/SfB

MAY 2012

THERMAKRAFT 213 BITUMINOUS HEAVY WEIGHT BUILDING PAPER

APPLICATION AND INSTALLATION

Product Description

THERMAKRAFT 213 BITUMINOUS HEAVY WEIGHT BUILDING PAPER is specifically designed for use in Domestic and Commercial type buildings.

THERMAKRAFT 213 is a black breathable, absorbent bituminous wall and roofing underlay.

THERMAKRAFT 213 will provide the following functions:

- Reduce wind entry into the cavity, thereby assisting the performance of thermal insulation.
- Highly water vapour permeable, thereby allowing excess water vapour which might otherwise condense in the structure, to escape.
- Provides a temporary protection against wind, dust, rain and other weathering elements until the external cladding is applied.

THERMAKRAFT 213 is not designed for use in extreme weather conditions.

Applications

THERMAKRAFT 213 is suitable as a wall and roofing underlay with all cladding types, and it can be used as a wall and roofing underlay where Fire Retardancy is **NOT** required.

THERMAKRAFT 213 is suitable as a roofing underlay when installed to the Roofing Code of Practice, supported on **Thermakraft Safety Mesh** 300mm x 150m or hexagonal netting 50mm or 75mm, or **Thermakraft Arctic White Thermastrap 203**, or **Thermakraft Thermastrap 201**.

THERMAKRAFT 213 must not be left exposed to the elements for more than 7 days as a roofing underlay, or 28 days as a wall underlay. Cladding on the same day is recommended.

THERMAKRAFT 213 cannot be used as an Air Barrier. Use **Thermakraft Synthetic Wall Underlays** (refer **Thermakraft Customer Services** on **0800 806 595**) or use **Thermakraft 215 Bituminous Self Supporting Roofing Underlay.**

NOTE: THERMAKRAFT 213 must not be used with a roof pitch below 10 degrees. For applications with a Roof pitch <10 degrees, **Thermakraft** recommends **Thermakraft** COVERTEK 407 or **Thermakraft 215 Self Supporting Roofing Underlay**. If Fire Retardancy (F1 <5) is required, use **Thermakraft** COVERTEK 407.

Installations Roofing

THERMAKRAFT 213 can only be used at pitches of 10 degrees or above, and may run horizontally on netting starting at the gutter and working up the roof slope with a minimum 150mm lap. **THERMAKRAFT 213** may be run vertically on netting starting at the gutter to the ridge with a minimum 150mm lap. Secure to rafters/trusses using appropriate fixing clouts or clips. Wire netting must be stretched and tight.

Control of Condensation

In climatic regions where condensation risks are high, such as cold or high humidity areas, care needs to be taken in specifying the correct design and installation to prevent moisture build-up in the roof cavities.

Factors which adversely affect the condensation risk in roofing systems include;

- Humid, and/or cold climatic regions
- Warm/Skillion roof construction
- Low roof cavity air volume and restricted air movement
- Omitting Vapour Control Layers
- Ceiling penetrations and entry of warm air into roof cavities
- Occupancy activities which have high moisture loading on conditioned spaces
- Low pitched roof
- Bulk insulation
- Building structures ability to naturally dry Construction Moisture

Skillion and Warm Roof Construction are particularly sensitive to moisture accumulation and the design and installation of roof construction needs to take into account the higher condensation risks. Refer MRM Code of Practice for details.

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THERMAKRAFT 213 should be fixed to the exterior face of the framing, running horizontally. Start at the lower edge 20mm past the perimeter joists and run to the top of the framing. A minimum of 75mm overlapping is recommended. Fix with **Thermakraft Arctic White Thermastrap 203** or **Thermastrap 201** to the outside face of the studs with 8-12mm staples at 300mm centres.

NOTE: For wall cavity systems, NZBC Acceptable Solution E2/AS1 Paragraph 9.1.5.5 requires where stud spacings are greater than 450mm centres, an intermediate means of restraining the building underlay and insulation from bulging into the drained cavity shall be installed. An acceptable means of achieving this is by fixing **Thermakraft Arctic White Thermastrap 203** or **Thermakraft Stud Strap** horizontally at 300mm centres.

Storage

THERMAKRAFT 213 should be stood on end in dry conditions. Protect from the weather and direct sunlight.

Roll Dimensions

1370mm x 73.0m = 100m^2	23kg	
1370mm x 36.5m = 50m^2	11.5kg	(2 per pack)
1340mm x 19.0m = 25m^2	5.7kg	(3 per pack)

For more information regarding **Thermakraft** COVERTEK 407 **FIRE RETARDANT SELF SUPPORTING ABSORBENT BREATHABLE SYNTHETIC NON WOVEN ROOFING UNDERLAY** refer to the "DESIGNER and USER GUIDELINES" - Direct and Cavity Fix, or contact **Thermakraft Customer Services** on **0800 806 595**.

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TECHNICAL SPECIFICATIONS

Technical Data

THERMAKRAFT 213 BITUMINOUS HEAVY WEIGHT BUILDING PAPER complies with the requirements of NZBC E2/AS1 Table 23.

Nominal Grammage 230g/m2

NZBC E2/AS1 TABLE 23 AS A WALL UNDERLAY REQUIREMENTS		
NZBC E2/AS1 TABLE 23 WALL UNDERLAY PROPERTIES	**PROPERTY PERFORMANCE REQUIREMENTS**	**PROPERTY PERFORMANCE**
Absorbency	≥150 gsm	Pass
Vapour Resistance	≤7 MN.s/g	Pass
pH of Extract	≥6 and ≤9	Pass
Shrinkage	≤0.5%	Pass
Water Resistance	≥100mm	Pass

NZS2295:2206 Classification		
Flammability Index		**Non Fire Retardant**
Wind Zone	R1 and W2	Up to Very High
NZS2295:2006 Classification	R1 and W2	Heavy Weight

Durability/Limitations

For **THERMAKRAFT 213** to meet the Performance Requirements of NZBC Clause B2, Durability B2.3.1(a) 50 years and B2.3.1(b) 15 years, E2 External Moisture providing;

- installed in accordance to the Application and Installation Guidelines,
- run length no greater than 10 metres,
- is not left exposed for more than (7 days) roof,
- is not left exposed for more than (28 days) wall,
- installed in medium wind zones or below,
- when used on LOSP treated timber, the timber must be free of solvent,
- installed by a licensed building practitioner,
- installed in accordance with the Roofing Code of Practice.

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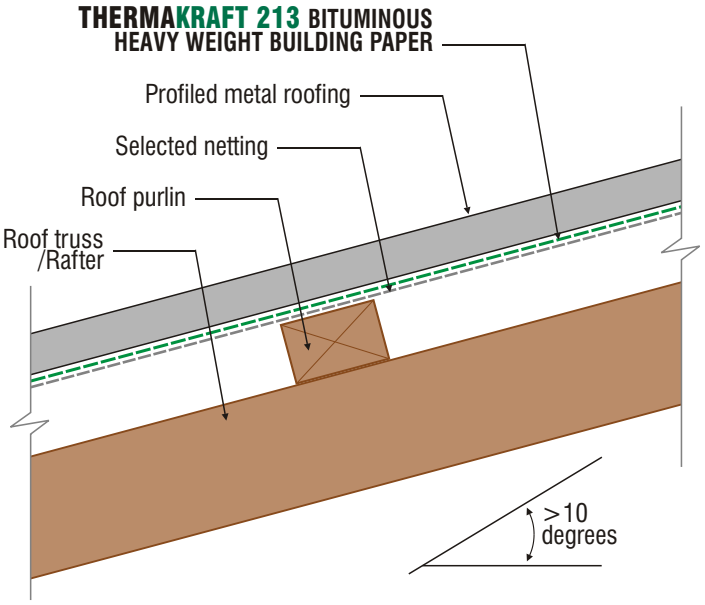

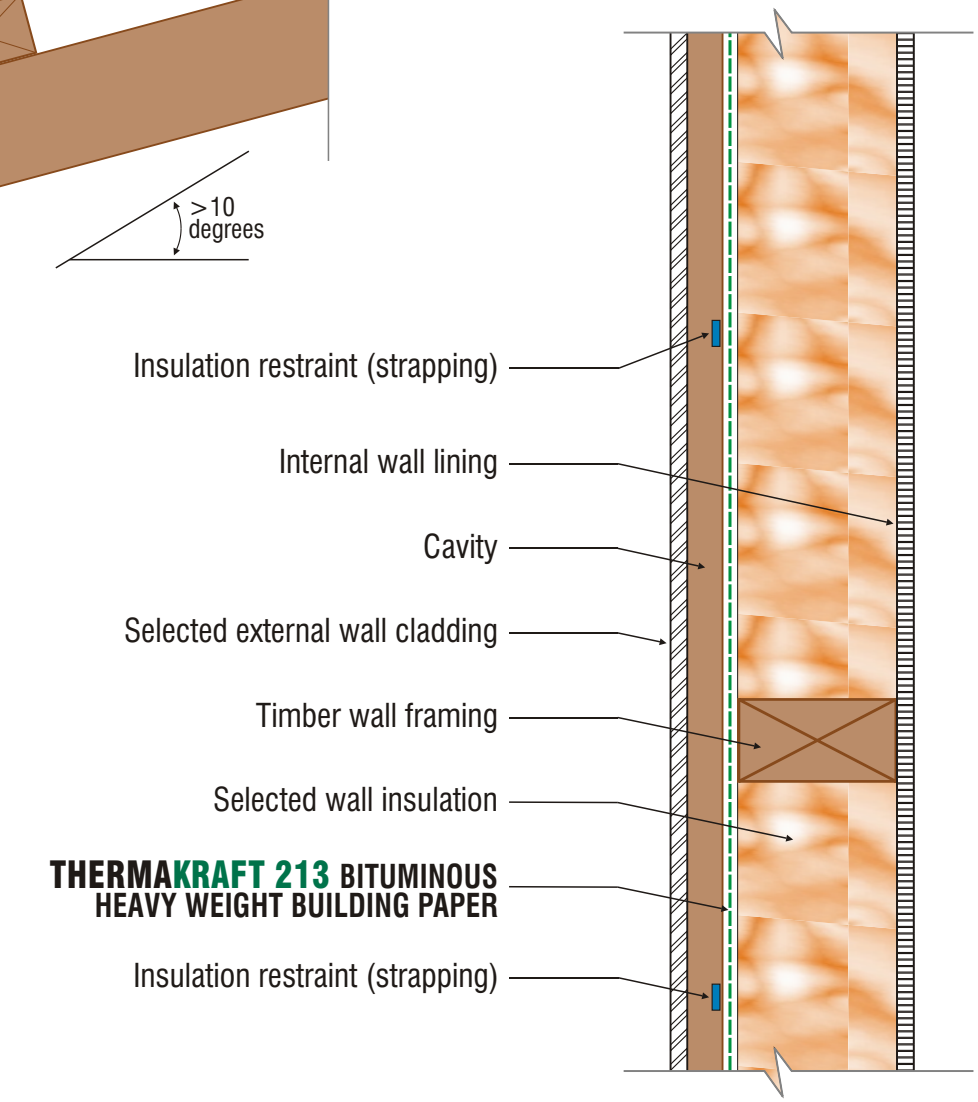

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