Xtratherm®
Tapered Roof Insulation

Xtratherm TR/MG Sheet Size (mm)
Length 1200
Width 1200
Thickness 30 (minimum)

Other sizes are available subject to quantity and lead time.

TR/MG Tapered 1:60
1200 x 1200

A60	B60	C60	D60
30-50	50-70	70-90	90-110

Flat
2400 X 1200
80mm

Note: 1:80 subject to quantity & lead time. As prefabricated only.

Alternative tapers available on request.

Bonded boards

The insulation boards are embedded in a layer of bitumen on a 3G type felt to BS 747 (Reinforced bitumen sheets for roofing specification) that has been adhered to the deck. (Xtratherm recommend that all systems should have mechanical fixings included or be adhered using other suitable adhesive).

1

Xtratherm TR/MG boards should be laid over the vapour control layer in a break bonded pattern. The long edges of the boards should be laid at right angles to the corrugations and all board joints must be fully supported by the deck. The TR/MG insulation boards are generally secured by approved mechanical fixings or adhered using other suitable adhesive. The requirement for a separate water vapour control layer should be assessed in accordance with BS6229.

2

Xtratherm TR/MG boards are suitable for use on roof decks that are subject to maintenance traffic. Walk-ways should be provided on roofs requiring regular pedestrian access. When the roof is complete, protective boarding should be laid if additional site work is to be carried out.

3

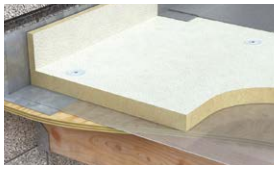
Xtratherm TR/MG mineral coated glass faced boards are suitable for use below most single ply fully adhered mechanically fixed roof membrane systems and most partially bonded built-up felt systems.

Tapered Roof Board TR/MG

Insulation for Single Ply Fully Adhered/ Partially Bonded Built-Up Felt Systems

Xtratherm TR/MG is a high performance Polyisocyanurate with mineral coated glass facers suitable for use below single ply fully adhered roof membranes, single ply waterproofing systems and partially bonded built-up felt.

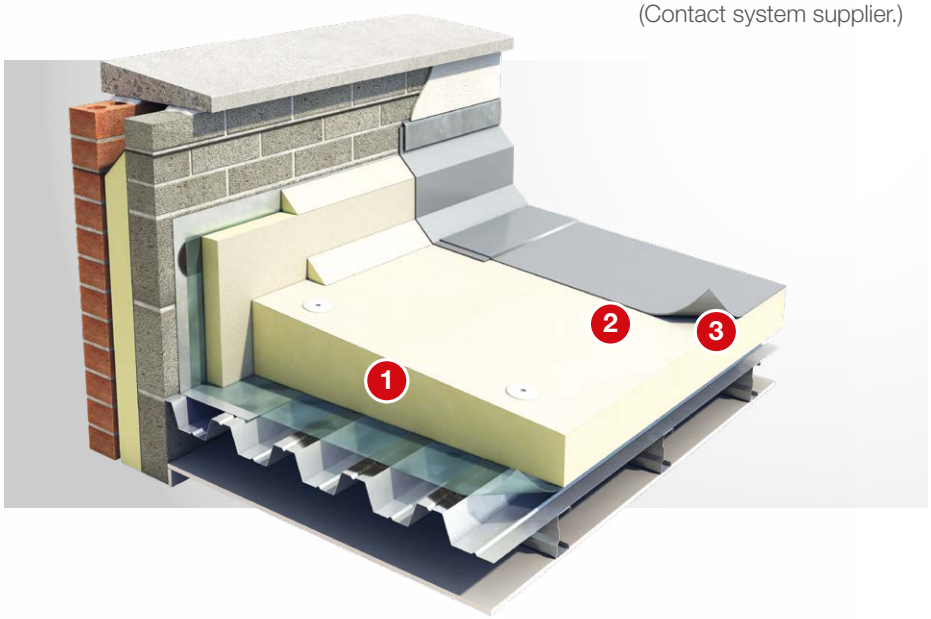
Typical Installation - Concrete Deck



Typical Installation -Timber Deck

Vapour control layer

Mechanically fixed boards. A vapour control layer lapped and sealed with should be used below the insulation. When using fully adhered systems, board joints should be taped subject to adhesive system being used. (Contact system supplier.)



BBA APPROVAL INSPECTION TESTING CERTIFICATION
11/4878

Fire Performance

The fire rating when tested to EN 13501-5 and BS 476 Part 3 ‘External Fire Exposure Roof Test’ will be dependent upon waterproofing system specified.

Available subject to quantity and lead time. Note: Xtratherm Ltd. reserves the right to amend product specifications without prior notice.

Xtratherm's comprehensive range of agrément certified high performance flat and tapered roof insulation boards provide a guaranteed quality solution to tapered roof specification.

Tapered Roof Insulation

Laying (Metal Deck)
Decks should be dry and clean of debris with tapered components laid to achieve the designed falls. The boards can be secured using approved mechanical fixings and washers, with boards laid with a break-bonded pattern or can be adhered using other suitable adhesive. Joints should be closely butted.

Laying (Concrete Deck)
Decks should be dry and clean of debris. The boards can be secured using approved mechanical fixings and washers, with boards laid with a break-bonded pattern. Joints should be closely butted.

Alternatively the boards can be adhered also to the decking with approved adhesive systems.

Partially Bonded Built Up Systems
Partially bonded built–up felt waterproofing should be laid, where in accordance with BS 8217 (Reinforced bitumen membranes for roofing. Code of practice).

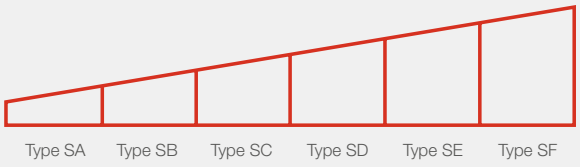
Fully Adhered Systems
Xtratherm TR/MG is suitable for use with most fully adhered single-ply waterproofing membranes. Board joints and abutments should be taped subject to the approved adhesive system being used. A fleeced backed membrane might be required with the system being used, check with the system manufacturer.

Daily Working Practice
The facing of Xtratherm TR/MG should not be considered as temporary waterproofing, when work is interrupted or at the end of each day, a night joint must be made to prevent water penetration. Xtratherm tapered boards should be waterproofed as soon as possible after fixing.

Fixings
Depending on the fixings specification chosen, quantity and pattern of fixings will vary with the location, roof height/width and topographical data. Architectural specification should be consulted. Generally with 1200mm x 1200mm boards, a minimum of 4 fixings per board are adequate, located between 50mm and 150mm from all edges. If more than one layer of insulation is being used, the flat board packers should be mechanically fixed with a minimum of one fixing before fixing profiled boards as detailed. Additional fixings around roof perimeter of the roof may be required.

Xtratherm pre-fabricated single layer tapered roofing panels provide the most flexible, cost effective solutions that can be designed to meet a wide range of criteria in new and refurbished flat roofs. Xtratherm can provide bespoke solutions with a range of thickness from 30mm to 400mm, this enables faster installation and reduces site generated waste.

Prefabricated Single Layer Systems
1200mm x 600mm



Note: Fall across 1200mm dimension

Typical Physical Characteristics

Property	Units
Density (Foam Core)	32 kg/m³
Compressive Strength	>150 kPa @ 10% Compression
Thermal Conductivity*	0.024 - 0.027 W/mK

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ISO 9001 | Quality Management Systems
ISO 14001 | Environmental Management

The given U-values are indicative only. The effect of fixings has been assumed to have had no effect on the U-value. For comprehensive calculations on all deck types, please contact Xtratherm Technical Support. *Thermal conductivity is dependent on facings and product thickness.