

Xtratherm Xtroliner Duo

ENHANCED PIR INSULATION BOARD

PRODUCT DESCRIPTION

Xtratherm Xtroliner Duo is a high performance insulation that achieves significant thermal performance in a slimline, rigid board profile. Xtratherm Xtronliner Duo's special inner core is an advanced thermoset polyisocyanurate (PIR) foam which is sandwiched between two layers of embossed aluminium foil facings. With standard embossed aluminium on one side and an embossed aluminium with pre-finish white paint coating on the other.

The Xtratherm Xtronliner Duo's PIR products provide a modern thermal insulation solution for commercial and residential building envelopes. Xtratherm Xtronliner Duo's high thermal performance, slimline profile combined with compressive strength, allows it to be efficiently designed into a building as a continuous thermal barrier across various roof, wall and floor elements.

INSTALLATION GUIDANCE

- **Cutting** - Xtratherm Xtronliner Duo boards can be readily cut using a sharp knife or a fine toothed saw. Ensure tight fitting of the insulation boards to achieve continuity of insulation.
- **Joints** - It's good practice to seal Xtratherm Xtronliner Duo board joints with an approved aluminium foil tape. Sealing joints controls moisture and smoke penetration, improves the airtightness of the building envelope and assists in providing a consistent finish in exposed applications. When the boards abut with other construction elements it is good practice to seal these joints with a low modulus silicon sealant.
- **Taping Joints** - Surface preparation is always required when taping. All surfaces must be clean, sound and free of dust and contaminants. If taping surface needs to be cleaned we recommend cleaning the surface with a white spirit.
- **Durability** - Xtratherm Xtronliner Duo products are dimensionally stable, rot proof and will remain effective for the life span of the building, dependent on specification and installation. Care should be taken to avoid contact with acids, petrol, alkalis and mineral oil, when contact is made, clean materials in a safe manner before installation. Solvent based adhesives containing methyl ethyl ketone, should not be used
- **Packaging** - Xtratherm Xtronliner Duo is wrapped in polythene packs and each pack is labelled with details of the product, size, number of pieces per pack and the material R-value.
- **Storage** - Xtratherm Xtronliner Duo should be stored off the ground on a clean flat surface. Xtratherm Xtronliner Duo must be stored undercover. The polythene wrapping is not considered adequate protection for outside exposure.
- **Application Installation Instructions** - Detailed application installation instructions can be obtained from the Bradford technical services team.

COMPLIANCE

Xtratherm Xtronliner Duo has been tested and certified to Australia & New Zealand Standards 4859.1 and offers the following features:

- Thermal Conductivity of 0.022 W/mK
- Material R-values up to R 5.45 at 120mm
- Compressive strength of 125 kPa
- High grade aluminium foil facings with emittance E0.03
- HCHC and CFC Free - zero ozone depletion potential
- Manufactured under ISO 14001 Environmental Management
- Manufactured under ISO 9001 Quality Management Systems
- Manufactured under OHSAS 18001 Occupational Health & Safety



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FIRE PERFORMANCE

Test	Standard	Result
Ignitability	AS/NZS 1530.3	0
Spread of flame	AS/NZS 1530.3	0
Heat evolved	AS/NZS 1530.3	0
Smoke developed	AS/NZS 1530.3	1
Corner Fire Test	AS ISO 9705 - Annex G.1 3 x walls and ceiling installation	Group 3

PRODUCT TEST DATA

Characteristic	Result	Test Method
Compressive Strength	>125 (kPa)	EN826
Thermal Conductivity	0.022 (W/mK)	ASTM C518-10
Service Temperature	-20 to +100 (°C)	EN 14706
Emissivity	E0.03 (foil facer)	EN 15976

ENVIRONMENTAL INFORMATION

The Xtratherm Xtroliner Duo range is HCHC free, CFC free and has zero ozone depletion potential (ODP). The Xtratherm range of products have been assessed under the BRE Environmental Profiles Methodology to achieve Green Guide rating of A+ or A giving independent certification of the products low environmental impact, and achieving the highest score available under Credit 1 of BREEAM. BREEAM also awards credits for the responsible sourcing of materials under ISO 14001 from the insulation manufacturer and their immediate suppliers.



Concrete Soffit



Concrete Wall



Cladded Wall

SPECIFICATION

Product	Thickness (mm)	Material R-Value	Standard Size (mm x mm)	Sheet Size (m ²)	Sheets Per Pack	Pack Size (m ²)	CSR Product Code
Duo	25	1.10	2270 x 1200	2.72	12	32.69	131886
Duo	30	1.35	2270 x 1200	2.72	10	27.24	131887
Duo	40	1.80	2270 x 1200	2.72	7	19.07	131888
Duo	50	2.25	2270 x 1200	2.72	6	16.34	131889
Duo	60	2.70	2270 x 1200	2.72	5	13.62	131890
Duo	70	3.15	2270 x 1200	2.72	4	10.90	131901
Duo	75	3.40	2270 x 1200	2.72	4	10.90	131902
Duo	80	3.60	2270 X 1200	2.72	4	10.896	131903
Duo	90	4.05	2270 X 1200	2.72	4	10.896	131904
Duo	100	4.55	2270 X 1200	2.72	4	10.896	131906
Duo	120	5.45	2270 X 1200	2.72	3	8.172	152492

Minimum order quantities and extended lead times may apply – please contact your local Bradford representative for further details.



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CSR