Bradford™ optimo™ underfloor

BRADFORD™ OPTIMO™ UNDERFLOOR

Introduction

Even where homes are well insulated in the ceilings and walls, households could still be losing as much as 15 - 20% of their heating and cooling energy use through the floor.

Product Description

Bradford™ Optimo™ underfloor insulation is a rigid, high density insulation with excellent thermal and acoustic properties, specifically developed to increase the comfort, energy efficiency and safety of homes with timber floors.

Technical Leadership

Bradford's new softer Arlanda glasswool fibre manufactured to reduce irritation during handling and provides installers, DIY enthusiasts and renovators alike with the softest feeling glasswool the market can offer. The new soft fibre can be identified on the pack with the soft fibre logo.

Arlanda is a globally recognised technology. With a long standing track record in providing high quality glasswool, it is also the chosen technology of Saint-Gobain, the largest insulation company in the world.

Installation

Bradford Optimo is simple to install beneath existing or new timber floors.

The segments are friction fitted and then tightly secured by fixing aluminium straps to the underside of the floor joists.
See Optimo underfloor brochure for more detail.

Features & Benefits

- Easy to install
- With an R-Value of 2.6, Optimo is the ultimate in comfort
- R-Value that exceeds the building code
- Available in 2 sizes to accommodate 450mm & 600mm joist centres
- Water repellent
- Softer feel for easy handling
- High recycled content
- 100% Bio-soluble, posing no risk to health
- Low irritant and low allergen
- Lifetime Warranty
- Will not settle over time
- Bradford Gold achieves the best possible fire ratings. Bradford Gold will not ignite or burn and can hinder the spread of flame

Standard Sizes & Packaging

R-Value	Environmental Choice	Nominal Thickness (mm)	Standard Size (mm)	Density (kg/m^3)	Pieces per pack	Area per pack (m^2)	NRC Values
R2.6	✓	90	1160 x 415	22	8	3.8	1.10
R2.6	✓	90	1160 x 565	22	8	5.2	1.10

Acoustic Performance

Product	Frequency (Hz)							
	125	250	500	1000	2000	4000	5000	NRC
R2.6	0.35	1.00	1.00	1.00	1.00	1.00	1.00	1.10

✓ Bradford have Environmental Choice ticks against all products that fall within category EC-25-04.
All products that can be tested have the green tick.
The minimum criteria is R2.5 for walls, R3.4 for ceilings and R1.4 for underfloor products.

ENVIRONMENTAL CHOICE NEW ZEALAND

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BRADFORD™ OPTIMO™ UNDERFLOOR

Formulation

Bradford's advanced manufacturing processes provides products that are safe for allergy sufferers, allowing you and your family to breathe easy with added piece of mind.

Bradford products are manufactured using the latest FBS-1 bio-soluble formulation which has been assessed as nonhazardous under the National Occupational Health and Safety Commission's guidelines and can be installed with absolute confidence.

Bradford glasswool products do not contain harmful VOC's – Volatile Organic Compounds nor do they contain any harmful amounts of formaldehyde or other organic chemicals.

Designing for Sustainability

Bradford Gold is manufactured from up to 65% recycled glass. Much of the recycled content used is not suitable for recycling in other applications.

Zero Ozone Depleting Potential

Bradford Insulation has undertaken an audit of it's Glasswool, Rockwool and reflective foil laminate insulation manufacturing processes referencing the US EPA List of Ozone Depleting Substances (Class 1 and Class 2).

This audit found that no ozone depleting substances are involved in either the manufacture or composition of these products.

Physical Properties

Property	Performance	Test Criteria
Maximum Service Temperature	350°C	Bradford recommends where high temperature use is required seek advice from your Bradford office.
Flow Resistivity	0.5 x 10^4 mks Rayls/m	
Fire Resistance	Ignitability 0 Heat Evolved 0 Spread of Flame 0 Smoke Developed 0	When tested in accordance with AS/NZS1530.3:1999
Corrosion Resistance	pH 7.5 - 8.0	When tested in accordance with BS 3958 Part 5 - 1986
Moisture Absorbance	<0.2% by volume	Exposure to an atmosphere of 50°C and 95% relative humidity for four days. Note: IF the insulation becomes wet, full thermal efficiency will be restored on drying out.

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Bradford™
for smarter environments

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