

# Product Data Sheet

## HYTHERM CG BASELAYER Insulation

Hytherm CG Baselayer insulation is manufactured from recycled glass<sup>1)</sup> and natural raw materials which are available in abundant supply (sand, dolomite, lime etc.) The insulation is inorganic, contains no ozone depleting propellants, flame resistant additives or binders. Without Volatile Organic Compounds (VOC's) or other volatile substances.

### Key benefits

- Thermal performance.
- Pest-proof.
- High compressive strength.
- Acid resistant.
- Non-combustible.
- Impermeably and vapour-tight.
- Dimensionally stable.
- Resistant to radon gas.
- Durable.



Hytherm CG Baselayer is available in two sizes.

Dimensions																
Length x Width [mm]	600 x 450															
Thickness [mm]	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
R <sub>D</sub> [m <sup>2</sup> K/W]	1.35	1.65	1.90	2.20	2.50	2.75	3.05	3.30	3.60	3.85	4.15	4.40	4.70	5.00	5.25	5.55
Length x Width [mm]	1200 x 600															
Thickness [mm]	80	100	120	140	150	160	180									
R <sub>D</sub> [m <sup>2</sup> K/W]	2.20	2.75	3.30	3.85	4.15	4.40	5.0									

Other dimensions and thicknesses are available on request.

General characteristics	
Reaction to fire (EN 13501-1)	Core material complying with Euroclass A1, non-combustible, no toxic fumes
Service temperature limits	from -265°C to +430°C
Water vapour resistance (EN ISO 10456)	$\mu = \infty$
Hygroscopicity	zero
Capillarity	zero
Melting point (cf DIN 4102-17)	>1000 °C
Thermal expansion coefficient (EN 13471)	$9 \times 10^{-6}$ K <sup>-1</sup>
Specific heat (EN ISO 10456)	1000 J/(kg·K)

Product characteristics	
Density (EN 1602) ±15%	95kg/m <sup>3</sup>
Thickness (EN 823) ±2mm	50 - 200mm (see table page 1)
Length (EN 822) ±5mm	600/1200mm
Width (EN 822) ±2mm	450/600mm
Thermal conductivity (EN ISO 10456)	$\lambda_D \leq 0.036W/(m \cdot K)$
Reaction to fire (EN 13501-1)	Euroclass A1
Point load (EN 12430)	≤1.5mm
Compressive strength (EN 826 annexe A)	≥500kPa
Compressive creep (EN 1606)	(1.5/1/50) 225
Bending strength (EN 12089)	≥400kPa
Tensile strength (EN 1607)	≥150kPa
Water vapour resistance (EN ISO 10456)	$\mu = \infty$
Hygroscopicity (EN ISO 12571)	zero
Capillarity (EN 1015-18)	zero
Thermal expansion coefficient (EN 13471)	$9 \times 10^{-6} K^{-1}$
Specific heat (EN ISO 10456)	1000 J/(kg·K)

CE-marking ensures conformity with the mandatory essential requirements of CPD as mentioned in EN 13167; within the GEN Keymark certification all mentioned characteristics are certified by an empowered, notified and accredited 3rd party.

Additional characteristics	
Environmental Product Declaration (ISO 14025 and EN 15804)	EPD-PCE-20150042-IBA1-D

Notes

1) More than 50% recycled content based on a weighted average of the total mass of similar products produced in Europe.

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