

## Summary of Technical Data Sheet

<b>Product designation:</b>	<b>Product composition / construction</b>
WARMCEL	Cellulose Fibre Insulation

Property	Measured Values	Standard
Thermal Conductivity Lambda 90/90 23°C/50%RH	0.038 W/mK	EN 12667 EN ISO 10456 EAD 040138-00-1201
Reaction to Fire	Class E	EN 13501-1 + A1
Resistance to Mould Growth	Class E	Annex F of EN 15101-1
Specific Airflow Resistance a) bulk density 45.0 kg/m <sup>3</sup> b) bulk density 60.0 kg/m <sup>3</sup>	≤13 kPa*s/m <sup>2</sup> ≤18 kPa*s/m <sup>2</sup>	EN29053
Critical Moisture Content	75%	EN 1609 method A
Settlement in walls & between rafters	See table on next page	Annex B.2 of EN 15101-1
Settlement by shock	≤9% (@ 30kg/m <sup>3</sup> )	Annex B.3 of EN 15101-1
Settlement by humidity a) bulk density 30.0 kg/m <sup>3</sup> b) bulk density 50.0 kg/m <sup>3</sup>	>25%; SH 30 >10%; SH 10	Annex B.1 of EN 15101-1
Density		See table on next page
Specific heat capacity	2020 ± 6% J/kg.K	EN ISO 8990, EN 675



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### Prescribed installed densities for Warmcel

The figures show are the minimum densities required in order to prevent settlement

#### Open blown lofts

Thickness of insulation (mm)	100-180	190-240	250-300	310-350	360-500	510-600
Minimum density (kg/m <sup>3</sup> )	30	33	36	38	41	45

#### Flat ceilings and Floors

Thickness of insulation (mm)	100-120	130-170	180-240	250-300	310-350	360-500
Minimum density (kg/m <sup>3</sup> )	34	37	40	44	47	52

#### Sloping ceilings up to 30 °

Thickness of insulation (mm)	100-130	140-170	180-200	210-300	310-350	360-500
Minimum density (kg/m <sup>3</sup> )	40	44	47	49	52	55

#### Sloping ceilings 30 ° - 45 °

Thickness of insulation (mm)	100-130	140-170	180-200	210-300	310-350	360-500
Minimum density (kg/m <sup>3</sup> )	45	48	48	50	53	56

#### Sloping ceilings 45 ° - 90 °

Thickness of insulation (mm)	100-130	140-170	180-200	210-300	310-350	360-500
Minimum density (kg/m <sup>3</sup> )	50	53	56	58	60	63

#### Walls

Thickness of insulation (mm)	100-130	140-170	180-200	210-300	310-350	360-500
Minimum density (kg/m <sup>3</sup> )	50	53	56	58	60	63

For factory filled timber frame panels (where the panels are subjected to transport and excess movement) the minimum fill density for all applications is 60kg/m<sup>3</sup> (65kg/m<sup>3</sup> for installed thicknesses of 200mm and above).

#### Notes:

1. Values are Means (not minimum) obtained from initial type testing.
2. Values stated are in the weaker principle direction.



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