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The future of passive houses

Thermal resistance (R-value)
FIBROCEL FC-200

The R value represents the thermal resistance of FIBROCEL FC-200 for thermal insulation with cellulose fibers of construction elements with different thicknesses.

Calculation:

Cavity Depths (cm)	Density (kg/m3)	λ = W(mK) min.	Coverage /m2 (kg)	Coverage per bag 15 kg (m2)	R-Value R (m2K/W)
10	60	0,037	6	2,50	2,70
15	60	0,037	9	1,67	4,05
20	60	0,037	12	1,25	5,41
25	60	0,037	15	1,00	6,76
30	60	0,037	18	0,83	8,11

Blowing depth (cm)	Density (kg/m3)	λ = W(mK) max.	Coverage /m2 (kg)	Coverage per bag 15 kg (m2)	R-Value R (m2K/W)
20	40	0,046	8	1,875	4,35
25	40	0,046	10	1,5	5,43
30	40	0,046	12	1,25	6,52

Thermal resistance (R-Value) - thermo-insulation thickness "d" (meters) which is divided by the conductivity coefficient "λ" (W/mK)

*Note: the values of thermal resistance were calculated as average values with humidity of the material below 12%; the insulation resistance depends on the effective density of the material installed.

Considering that the results obtained are within the values of your technical data sheet are made according to the values of the technical data sheet.
The results from the laboratory confirm the values .
The density tested was between 55 and 60 kg/wic, on average about 57,5 kg/mc .
The conductivity coefficient "2" was 0.038 for 55-60 kg/me desity.

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