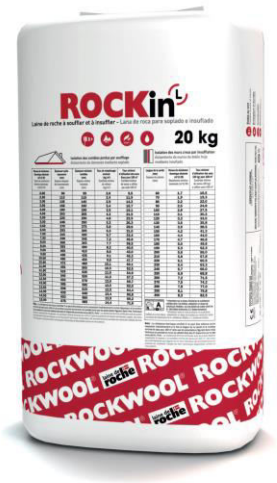
ROCKIN L



Granulated stone wool mechanically blown and spread with pneumatic machine

Application

Thermal and acoustic insulation for various constructive solutions:

- Filling of air chambers with thickness equal to or greater than 80 mm in double leaf walls, such as ceramic brick, concrete block, masonry or lightweight timber or galvanized steel framework for lightweight constructions made of laminated gypsum board with an insufflated density of 55 kg/m^3 and a thermal conductivity of 0.036 W/mK.
- Loft insulation. It is carried out by blowing the granulated stone wool with the help of a pneumatic machine or turbine, with a recommended installation density of 21-25 kg/m^3 and a thermal conductivity of 0.045 W/mK.
- Blown in false ceilings. It is carried out by applying a minimum density of 21 kg/m^3 and a maximum density of 55 kg/m^3. It will depend on the load resistance of the existing false ceiling.

Technical Properties

Property	Description						Standard
Nominal density (kg/m^3)	Double sheet walls: 55 Non-habitable lofts: 21-25 Blown over false ceiling: 21-55						EN 1602
Thermal conductivity W/(m*K)	0,036 (Applied blown) 0.045 (Applied spread)						EN 12667
Short term water absorption (kg/m^2)	WS		(< 1,0 kg/m^2)				EN 1609
Fire reaction /Euroclass	A1						EN 13501.1
Water vapour transmission	MU1		(μ = 1)				EN 12086
Thermal resistance (m^{2}K/W)	Installed Density: 55 kg/m^3			Thermal Conductivity: 0.036 W/m^{2}K			
	Thermal Resistance	Thickness (mm)	No. of bags /100 m^2	Thermal Resistance	Thickness (mm)	No. of bags /100 m^2	
	2.2	80	22	5.6	200	55	
	2.5	90	24.8	5.8	210	57.8	
	2.75	100	27.5	6.1	220	60.5	
	3.1	110	30.3	6.4	230	63.3	
	3.3	120	33	6.7	240	66	
	3.6	130	35.8	6.9	250	68.8	
	3.9	140	38.5	7.2	260	71.5	
	4.20	150	41.3	7.5	270	74.3	
	4.4	160	44.0	7.8	280	77	
	4.7	170	46.8	8.1	290	79.8	
	5.0	180	49.5	8.3	300	82.5	
	5.3	190	52.3				

Thermal resistance (m^2K/W)	Installed Density: 21-25 kg/m^3			Thermal Conductivity: 0.045 W/m^2K		
	Thermal Resistance	Thickness (mm)	No. of bags /100 m^2	Thermal Resistance	Thickness (mm)	No. of bags /100 m^2
	2	95	9.5	9	410	43
	2.5	115	11.9	9.5	435	45.3
	3	140	14.3	10	455	47.7
	3.5	160	16.7	10.5	480	50.1
	4	185	19.1	11	500	52.5
	4.5	205	21.5	11.5	525	54.9
	5	230	23.9	12	550	57.3
	5.5	250	26.3	12.5	570	59.7
	6	275	28.6	13	595	62
	6.5	300	31	13.5	615	64.4
	7	320	33.4	14	640	66.8
	7.5	345	35.8	14.5	660	69.2
	8	365	38.2	15	685	71.6
	8.5	390	40.6			

NOTE: The number of bags/100 m^2 is the minimum recommended quantity for an installed density of ROCKin L d=55 kg/m^3 or d=21 kg/m^3. This value may vary depending on the control parameters of the blowing machine.

Advantages

- Excellent thermal and sound insulation for existing not insulated buildings, without the necessity of dismantling the inner sheet.
- Fast and easy to install.
- Immediate thermal and acoustic comfort.
- Immediate energetic and economic saving.
- Non-combustible product; does not help in spreading the fire.
- Environment friendly.
- **Behaviour to wind**
  Wind resistance in ventilated roofs-The tests carried out at the CSTB in Nantes show that stone wool insulation is kept globally considering typical wind speeds in single-family houses (without aggravating aerodynamic effects such as geographical features or maximum construction heights) in wind zones of Europe.
- **Termite resistance**
  Two series of standardized tests on the propagation of termites have been carried out in the CTBA laboratories (Center Technique du Bois et de l'Ameublement) that show that termites do not eat stone wool and that stone wool acts as a barrier that prevents the termites from passing through the stone wool.

ROCKWOOL Peninsular S.A.U.
Ctra. Zaragoza, Km. 53,5 N121.
31380 Caparroso, Navarra, Spain
T (+34)902 430 430
www.rockwool.es