SUBCEL G.

TECHNICAL DATA SHEET

PRODUCT CHARACTERISTICS

SUBCEL G® is a unique palletised acoustic insulation with thermal influence, made using a natural cellulose fibre base. Cellulose underlay granules are commonly used in both renovations and new constructions, particularly where there is an emphasis on the speed of construction, acoustic and thermal requirements, or ecological considerations. They are ideal for floors in residential buildings, offices, or public spaces where a combination of lightweight and efficient insulating materials is needed. Overall, this material is suitable for modern construction due to its environmental credentials, flexibility, and ability to significantly improve the thermal and acoustic quality of interiors.

USE, APPLICATION

SUBCEL G® is designed for acoustic insulation in internal building element structures - floors levelling acoustic insulation and others.
Installation is carried out by using 25 or 30 l bags of product. Optionally is possible to use special blowing machines (dry application). The system enables penetrate very easily into the smallest corners and hence provides a fall fill installation without any gaps. Technology ensures quick and easy work with dry system. Install the product at 6 - 7% increased depth in order to meet a target settled thickens .

Density ranges for dry bulk cellulose insulation pellets application:
- open in horizontal surfaces: 460-480 kg/m^3

PACKAGING, TRANSPORT, STORAGE

SUBCEL G® is packed in PE bags and can be stacked on industrial pallets, UK (industrial) pallets or freely in big bags in a covered warehouse. For hassle-free transportation, EU or UK pallets are recommended, wrapped by a stretch film. Insulating pellets material is original labeled from the manufacturer with identification data.
The product must be transported in covered vehicles in order to protect from weathering effects.
The product is stored in covered storage areas protected from the weather and from heat sources with temperatures above 80°C. Packaging cover could be made as waterproof as well for request. When stored outdoors, this fact stated in the order. Delivery for this purpose is possible only on pallets and the pallets are covered by special packaging in the production process. This packaging can be left outdoors for 3 -4 months (UV stabilization bag period) on an elevated site from flooding pallets.

ADVANTAGES

- *Sound Insulation:*

The material is effective at sound dampening, which is essential for improving acoustic comfort in residential and commercial spaces. It helps reduce the transmission of impact noise and improves overall sound quality.

- *Surface Leveling:*

Well-suited for leveling uneven surfaces, providing a flat base for laying floorboards such as OSB or fiberboard.

- *high value of specific heat capacity of material*

(Cd =2020 ± 6 % J/kg.K) helping to maintain thermal comfort in a room and potentially reducing heating costs.

- *Moisture Regulation:*

The material has the ability to regulate humidity, which can be beneficial in rooms where maintaining good climatic conditions is necessary to prevent condensation.

- *low diffusion resistance:*

allowing the realization of structures with open-diffusion construction

- *perfect completion of all construction details*

DIMENSIONS

Trade Mark	Density
SUBCEL G ®	(460kg/m3)

TECHNICAL PARAMETERS

Parameter	Measured Value	Unit	Harmonized Technical Specification
Thermal conductivity $\lambda_{D(23/50)}$ -	0,101	$W \cdot m^{-1} \cdot K^{-1}$	EN 12664;2001, EN ISO 12572:2018
Water vapor diffusion resistance factor	μ = 1,8		
Specific heat capacity c_d	2020 ± 6%	$J \cdot kg^{-1} \cdot K^{-1}$	EN ISO 8990, EN 675
PHYSICAL PROPERTIES			
Volume weight	473	$kg \cdot m^{-3}$	EN 1097-3:1999
Dynamic stiffness, nominal thickness 50 mm	s' = 48,6	MN/m³ %	ISO 9052-1
Dynamic stiffness, nominal thickness 80 mm	s' = 29,7	MN/m³ %	ISO 9052-1
Other			
Reaction to fire – dry material	E	-	
Flamability determination	N	-	EN ISO 11925-2:2023
Deformation under specific pressure load	Ɛ2 = 13,3	%	EN 1605:2013
Partical size	3-10	mm	
Compressibility at 80mm	C=4.8mm	mm	EN 12431

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