

DECLARATION OF PERFORMANCE

SUPERCEL® ALUMEN

N. CPR-AL/24.0


1. Unique identification code of the product-type: **SUPERCEL® ALUMEN**
2. Intended use/es: **Thermal insulation for building equipment or industrial installations - Factory made phenolic foam (PF)**
3. Manufacturer: **Resine Isolanti O. Diena S.r.l. - Viale Zanotti, 86 - 27027 Gropello Cairoli (PV)**
4. System of assessment and verification of constancy of performances: **AVCP - System 3**
5. Norma armonizzata: **EN 13166:2012+A2:2016**
6. Harmonized technical specification:
 - » **No. 0497 - CSI S.p.a. Viale Lomabardia, 20 - 20021 Bollate (MI)**
 - » **No. 0407 - Istituto Giordano S.p.a. Via Gioacchino Rossini, 2 - 47814 Bellaria - Igea Marina (RN)**
7. Declared characteristics:

ESSENTIAL CHARACTERISTICS		PERFORMANCES	
Thermal resistance	Thermal resistance R_D [(m ² .K)/W]	d_N 20mm	0,95
		d_N 30mm	1,40
		d_N 40mm	1,90
		d_N 50mm	2,35
		d_N 60mm	2,85
		d_N 70mm	3,30
		d_N 80mm	4,20
		d_N 90mm	4,70
		d_N 100mm	5,25
		d_N 110mm	5,75
		d_N 120mm	6,30
		d_N 130mm	6,80
		d_N 140mm	7,35
		d_N 150mm	7,85
	d_N 160mm	8,40	
	Thermal conductivity λ_D [W/(m.K)]	d_N 20mm-79mm	0,021
		d_N 80mm-160mm	0,019
	Thickness	d_N 20mm-160mm	T1
	Closed cell content	CV	
Reaction to fire	Euroclass	B-s₁, d₀	
Durability of reaction to fire against heat, weathering, aging / degradation			
Dimensional stability under specified temperature and humidity condition	Pass	DS(70,90) DS(-20,-)	
Compressive strength	Compressive stress or compressive strength	CS(Y)120	
Tensile / flexural strength	Tensile strength perpendicular to faces	NPD	
Durability of compressive strength against aging / degradation	Compressive creep	NPD	
Water permeability	Short term water absorption	WS3	
	Long term water absorption	NPD	
Water vapor permeability	Water vapor transmission	NPD	
Release of dangerous substances to the indoor environment		NPD	
Continuous glowing combustion		NPD	

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued in accordance with Regulation (EU) n. 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:
Marco Diena, C.E.O.
Milan, 30/08/2024

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 24 0497, 0407		Resine Isolanti O.Diena Srl Viale Zanotti, 86 - 27027 Gropello Cairoli (PV) www.resineisolanti.com	
CPR-AL/24.0 EN 13166:2012+A2:2016 SUPERCEL® ALUMEN Thermal insulation for buildings - Factory made phenolic foam (PF) PF - EN 13166 - T1 - DS(70,90) - DS(-20,-) - CS(10/Y)120 - WS3 - CV			
THERMAL CONDUCTIVITY	λ_D [W/(m.K)]	d_N 20mm-79mm	0,021
		d_N 80mm-160mm	0,019
THERMAL RESISTANCE	R_D [(m².K)/W]	Depending on thickness	
REACTION TO FIRE	EUROCLASS	B-s₁,d₀	
DURABILITY OF REACTION TO FIRE AGAINST HEAT; WEATHERING; AGING / DEGRADATION			
WATER PERMEABILITY	Class	WS3	
COMPRESSIVE STRENGTH	kPa	≥ 120	
TENSILE / FLEXURAL STRENGTH	NPD		
DIMENSIONAL STABILITY UNDER SPECIFIC TEMPERATURE AND HUMIDITY CONDITIONS	Pass	DS(70,90) DS(-20,-)	
WATER VAPOR PERMEABILITY	NPD		
RELEASE OF DANGEROUS SUBSTANCES	NPD		
DURABILITY OF COMPRESSIVE STRENGTH AGAINST AGING / DEGRADATION	Compressive creep	NPD	

REACH information:

This product is considered an article under Art.3 of the REACH Regulation (EC) N.1907/2006. Consequently, according to Art.31 and 33 of the same Regulation, it does not require a Safety Data Sheet. During use, it is recommended to refer to the indications given in the Technical Data Sheet and the safety regulations established in the workplace.

Additional information:

Resine Isolanti provides this designation code together with the DoP to facilitate the consultation of the CE marking by international customers. The marking shown here may differ from that indicated on the packaging or accompanying documents due to:

- » declared NPD (No Performance Determined) values which can be omitted in the CE marking,
- » graphic adaptations in relation to the available space and the printing media used,
- » use of a different language (the same packaging is used in numerous countries),
- » product already in stock at the time of updating the marking,
- » printing errors.