




# Declaration of Performance

(REGULATION FOR CONSTRUCTIONAL PRODUCTS (EE) Numb. 305/2011)

No DoP: GKR/KNAUF 032/THP/102015/002



## KNAUF NEOPOR 032

1. Unique identification code of the product type:	KNAUF NEOPOR 032				
2. Number of lot or serial type, or any other element that allows the identification of the product to construction products, as provided by the article 11 paragraph 4:	EPS-EN 13163-T(1)-L(2)-W(2)-S(2)-P(5)-DS(N)2-DS(70,90)1-BS100-CS(10)60-TR150 $\lambda_d = 0,031 \text{ W/mK} - W_{ip} \leq 0,5 \text{ kg/m}^2 - f_{tk} \geq 0,02 \text{ N/mm}^2 - G_m \geq 1,0 \text{ N/mm}^2$				
3. Intended use or uses of the product of the construction sector, in accordance with the relevant harmonised technical specification, as prescribed by the manufacturer:	Certified Cut Expanded Polystyrene with Graphite and Flame Retardant suitable for use in external thermal insulation systems of buildings - ETICS				
4. Name, trade name, registered trademark brand and manufacturer's contact address, as provided for in the article 11 paragraph 5:	G.K. RIZAKOS SA Industrial Estate of Lamia, 35100 Lamia, Greece		 PACKAGING INSULATION CONSTRUCTION DECORATION first choice		
5. System of assessment and verification of constancy of performance as defined in annex 5:	Voluntary certification in accordance with en 13172, par. A, which is comparable to the:		AVCP: System 3 AVCP: System 1+ Certificate of Conformity		
6. Construction sector product covered by a standard: (name/identification number of the notified body) carried out on the basis of the system:	Notified Test Laboratory: Production control (FPC): Notified Certification Body: Certificate Number: Standard: Additional implementing standards:		IMBiGS No 1486 GSH No 0919 GSH No 0919 06.05.2015/ 09 11 447-3.e EN 13163 : 2012 EN 13499 : 2005 ETAG 004 : 2011		

### 7. Declared performance

### Table 1

Essential characteristics	Performance	Symbol	Declared Performance	Harmonised Standard	Trial Standard
Resistance to fire	Resistance to fire	Euroclass	E	EN 13163	EN 13501-1
Thermal Resistance	Thermal Resistance	$R_d$ [ $\text{m}^2 \text{K/W}$ ]	Table 2	EN 13163	EN 12667
	Thermal conductivity	$\lambda_d$ [ $\text{W/m K}$ ]	0,032	EN 13163	EN 12667
Dimension Tolerance	Thickness	T	$\pm 1$	EN 13163	EN 823
	Length	L	$\pm 2$	EN 13163	EN 822
	Width	W	$\pm 2$	EN 13163	EN 822
	Squareness	S	$\pm 2$	EN 13163	EN 824
	Flatness	P	$\leq 5$	EN 13163	EN 825
Dimensional Stability	Laboratory Conditions (23°C / 50% moist.)	DS(N)	$\leq 0,2\%$	EN 13163	EN 1603
	Special Conditions (70°C / 90% moist.)	DS(70,90)	$\leq 1\%$	EN 13163	EN 1604
Mechanical properties	Compression strength for 10% deformation $\sigma_{10}$	CS(10) [kPa]	$\geq 60$	EN 13163	EN 826
	Tensile strength perpendicular to faces $\sigma_{mt}$	TR [kPa]	$\geq 150$	EN 13163	EN 1607
	Bending strength $\sigma_b$	BS [kPa]	$\geq 100$	EN 13163	EN 12090
Resistance against ageing/degradation	Resistance to fire		No change	EN 13163	None
	Thermal conductivity		No change	EN 13163	None
Water absorption	Absorption with total immersion for 28 days	WL(T) [vol.%]	Not evaluated	EN 13163	EN 12087
	Absorption by partial immersion for 24 hours	WL(P) [ $\text{kg/m}^2$ ]	$\leq 0,5$	EN 13163	EN 12088
Water vapour diffusion resistance	Water vapour diffusion agent	$\mu$ [1]	20 - 40	EN 13163	EN 12086
	Vapour diffusion	$\delta$ [ $\text{mg}/(\text{Pa h m})$ ]	0,015 - 0,030	EN 13163	EN 12086
Release of dangerous substances in indoor environment	Release of dangerous substances		Not evaluated	EN 13163	None
Dynamic stiffness		SD	Not evaluated	EN 13163	EN 29052-1
Compressibility		CP	Not evaluated	EN 13163	EN 12431
Shear strength	Shear strength	$f_{tk}$ [ $\text{N/mm}^2$ ]	$\geq 0,02$	ETAG 004	EN 12090
	Shear factor	$G_m$ [ $\text{N/mm}^2$ ]	$\geq 1,0$	ETAG 004	EN 12090

### 7. Declared performance

### Table 2

Product thickness - mm	20	30	40	50	60	70	80	100	120
Therm. resist. $R_d$ , $\text{m}^2\text{K/W}$	0,625	0,938	1,250	1,563	1,875	2,188	2,500	3,125	3,750
Product thickness - mm	140	160	180	200	220	240	260	280	300
Therm. resist. $R_d$ , $\text{m}^2\text{K/W}$	4,375	5,000	5,625	6,250	6,875	7,500	8,125	8,750	9,375

The performance of the product identified in points 1 and 2 is in conformity with declared performance in 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in 4:

Product performance are documented with complete technical file

8. Signature for and on behalf of the manufacturer by:	Konstantinos Rizakos Vice President Lamia 21/10/2015	
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PACKAGING INSULATION CONSTRUCTION DECORATION

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