

Glasroc X 12,5

TELJESÍTMÉNYNYILATKOZAT

Szám: Glasroc X 12,5 PV - 95/2023

1. A terméktípus egyedi azonosító kódja:
Glasroc X 12,5 üvegszálháló erősítéssel készült gipszlemez
Típus GM-FH1 (MSZ EN 15283-1:2008+A1:2009)
2. Felhasználás célja(i):
Építőlemez gipszkarton rendszerekhez
3. Gyártó:
Saint-Gobain Construction Products CZ a.s.,
Division Rigips
Smrčkova 2485/4, 180 00 PRAHA 8 – Libeň,
Czech Republic
www.rigips.cz
4. Az AVCP- rendszer(ek):
3. rendszer
5. Harmonizált szabvány:
MSZ EN15283-1:2008+A1:2009.
Azonosító száma: 1390, Centrum stavebního inženýrství, a.s., Pražská 16/810, 102 21 Praha 10

6. A nyilatkozatban szereplő teljesítmény(ek)

Fő jellemzők	Teljesítmény	Harmonizált európai szabvány
Nyírószilárdság(↑↓)	NPD	MSZ EN 15283-1:2008+A1:2009
Tűzvédelmi osztály (R2F)	A1	MSZ EN 15283-1:2008+A1:2009
Páradiffúziós ellenállási szám (μ)	18,2	MSZ EN 15283-1:2008+A1:2009
Hővezetési tényező (λ)	0,1865 W/m*K	MSZ EN 15283-1:2008+A1:2009
Hajlítás alatti törés - merőleges (F)	≥ 540 N	MSZ EN 15283-1:2008+A1:2009
Hajlítás alatti törés-párhuzamos (F)	≥ 210 N	MSZ EN 15283-1:2008+A1:2009
Léghanggátlás* (R)	Lásd a gyártói dokumentációt	MSZ EN 15283-1:2008+A1:2009
Hangelnyelés* (α)		
Ütésállóság* (\rightarrow I)		

*) Ezek a tulajdonságok a rendszertől függenek és megtalálhatók a gyártói dokumentációban. NPD/NPD = No Performance
Detetermined = Nincs meghatározott teljesítmény.

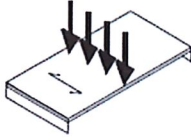
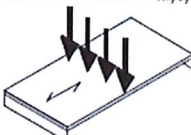
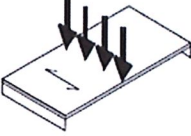
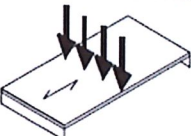
A 305/2011/EU rendeletnek megfelelően e teljesítménynyilatkozat kiadásáért kizárólag 3. pontban meghatározott gyártó a felelős.

A gyártó nevében és részéről aláíró személy::

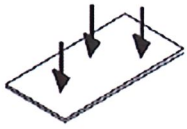
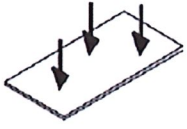
Prága, 2023-09-28


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DIČ: CZ25029673
Product Manager
Rigips Division

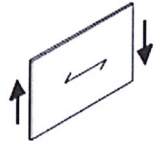
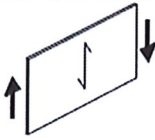
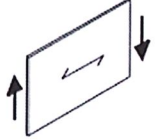
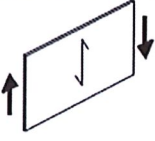
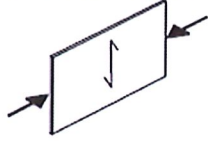
Glasroc X 12,5 - Performances declared by the manufacturer based on document ETA-21/0179
(Issuing Technical Assessment Body - Österreichische Institut für Bautechnik OIB):

BWR	Essential characteristic	Assessment method	Level / Class / Description	
1	Mechanical resistance and stability			
	1. Mechanical actions perpendicular to the gypsum plasterboard			
	Thickness		12.5 mm	
	Bending strength – in cross direction $f_{m,90,k}$		EAD 070001-02-0504, 2.2.1	4.9 N/mm ²
	– in machine direction $f_{m,0,k}$		EAD 070001-02-0504, 2.2.1	6.8 N/mm ²
	Bending modulus of elasticity – in cross direction $E_{m,90,mean}$		EAD 070001-02-0504, 2.2.1	2 600 N/mm ²
	– in machine direction $E_{m,0,mean}$		EAD 070001-02-0504, 2.2.1	2 300 N/mm ²
Reduction factors for bending – humid conditions $k_{red,hum}$		EAD 070001-02-0504, 2.2.1	0.9	
– immersed conditions $k_{red,imm}$		EAD 070001-02-0504, 2.2.1	0.7	

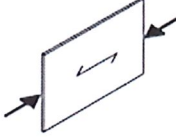
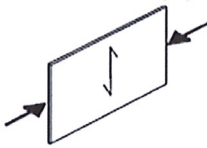
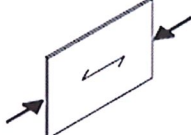
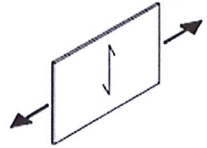
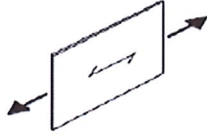
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BWR	Essential characteristic	Assessment method	Level / Class / Description
	Thickness		12.5 mm
	Compressive strength – perpendicular to the board $f_{c,k}$ 	EAD 070001-02-0504, 2.2.3	6.3 N/mm ²
	Compression modulus of elasticity – perpendicular to the board $E_{c,mean}$ 	EAD 070001-02-0504, 2.2.3	300 N/mm ²
	Reduction factors for compression – humid conditions $k_{red,hum}$ – immersed conditions $k_{red,imm}$	EAD 070001-02-0504, 2.2.3 EAD 070001-02-0504, 2.2.3	0.6 0.3

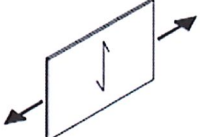
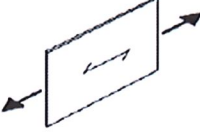
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BWR	Essential characteristic	Assessment method	Level / Class / Description
	2. Mechanical actions in plane of the gypsum plasterboard		
	Thickness		12.5 mm
	Shear strength – in cross direction $f_{T,90,k}$ 	EAD 070001-02-0504, 2.2.2	2.8 N/mm ²
	– in machine direction $f_{T,0,k}$ 	EAD 070001-02-0504, 2.2.2	2.3 N/mm ²
	Shear modulus – in cross direction $G_{T,90,mean}$ 	EAD 070001-02-0504, 2.2.2	1 900 N/mm ²
	– in machine direction $G_{T,0,mean}$ 	EAD 070001-02-0504, 2.2.2	1 400 N/mm ²
	Compression strength – in cross direction $f_{c,90,k}$ 	EAD 070001-02-0504, 2.2.3	6.3 N/mm ²

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	Thickness		12.5 mm
	Compression strength – in machine direction $f_{c,0,k}$ 	EAD 070001-02-0504, 2.2.3	6.6 N/mm ²
	Compression modulus of elasticity – in cross direction $E_{c,90,mean}$  – in machine direction $E_{c,0,mean}$ 	EAD 070001-02-0504, 2.2.3	4 100 N/mm ²
	Tensile strength – in cross direction $f_{t,90,k}$  – in machine direction $f_{t,0,k}$ 	EAD 070001-02-0504, 2.2.4	1.3 N/mm ²
		EAD 070001-02-0504, 2.2.4	2.0 N/mm ²

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	Thickness		12.5 mm
	Tensile modulus of elasticity – in cross direction $E_{t,90,mean}$ 	EAD 070001-02-0504, 2.2.4	5 500 N/mm ²
	– in machine direction $E_{t,0,mean}$ 	EAD 070001-02-0504, 2.2.4	6 300 N/mm ²

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BWR	Essential characteristic	Assessment method	Level / Class / Description				
	3. Other mechanical actions						
	Racking strength and stiffness	EN 594	Calculation acc. to EN 1995-1-1				
	Embedding strength $f_{e,t}$ - Ambient condition - Immersed condition	EAD 070001-02-0504, 2.2.6	35.8 – 4.9 d N/mm ² ¹⁾ 18.5 – 2.5 d N/mm ² ¹⁾				
	Head pull-through resistance f_{head} - Ambient condition - Reduction factor for immersed condition	EAD 070001-02-0504, 2.2.7	Screws EN 14566 or EN 14592: $d_h = 7.7$ mm 7.2 N/mm ²				
Staples EN 14592: $a = 11.2$ mm $d_h = 1.62$ mm 18.4 N/mm ²							
0.4							
	Creep and duration of load	EAD 070001-02-0504, 2.2.8	See table 1 and table 2				
	Structure of the cohesion of the core at high temperature	EN 520	Pass for board type F				
	Dimensions	EN 520	b: +0/-4 mm l: +0/-5 mm t: ± 0.5 mm squareness: ≤ 2.5 mm/m				
	Dimensional changes	EAD 070001-02-0504, 2.2.9	Absorption				
			Δl_{30-65}		Δl_{65-85}		
			MD ²⁾	CD ³⁾	MD ²⁾	CD ³⁾	
			0.05 mm/m		0.07 mm/m		
			Desorption				
			Δl_{65-30}		Δl_{65-65}		
		MD ²⁾	CD ³⁾	MD ²⁾	CD ³⁾		
		-0.08 mm/m		-0.06 mm/m			

¹⁾ With d as the diameter of the fastener and for 1.5 mm ≤ d ≤ 3.5 mm

²⁾ machine direction

³⁾ cross direction

Table 1

k_{def}			
Service class			
1	2	3*	
		machine direction	cross direction
3.0	4.0	18.2	33.6

*service class 3: for a maximum erection span of 3 months

Table 2

Service class	k_{mod}				
	Load duration class				
	Permanent action	Long action	Medium action	Short action	Very short action
1	0.2	0.4	0.6	0.8	1.1
2	0.15	0.3	0.45	0.6	0.8
3*	–	–	0.3	0.6	1.0

*service class 3: for a maximum erection span of 3 months

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BWR	Essential characteristic	Assessment method	Level / Class / Description			
	Mass changes	EAD 070001-02-0504, 2.2.9	Absorption			
			Δm_{30-65}		Δm_{65-65}	
			MD ²⁾	CD ³⁾	MD ²⁾	CD ³⁾
			0.06 %		0.3 %	
			Desorption			
			Δm_{65-30}		Δm_{65-65}	
	Dimensional stability	EAD 070001-02-0504, Annex E	Dimensional changes			
			MD ²⁾		CD ³⁾	
			-0.17 mm/m		0.17 mm/m	
			Mass changes			
Density	EN 520	7.16 %				
		$\rho_{\text{mean}} = 885 \text{ kg/m}^3$				
Surface hardness	EAD 070001-02-0504, 2.2.10	Pass for board type I in dry conditions Mean diameter of indentation is 15.5 mm in humid conditions. Mean diameter of indentation is 16.5 mm in immersed conditions.				

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2	Reaction to fire		
	Gypsum plasterboards for load-bearing applications	EN 13501-1	Euroclass A1
3	Hygiene, health and environment		
	Vapour permeability, μ	EN ISO 12572	18.2
	Water absorption of board surface	EN 520	$\leq 180 \text{ g/m}^2$
	Water penetration	EN 13111	none
	Total water absorption	EN 520	$\leq 5 \%$
	Moisture absorption	EAD 070001-02-0504, 2.2.12	0.47 %
	Hard body impact IR	EN 1128	19.7 mm/mm
6	Energy economy and heat retention		
	Thermal conductivity, λ	EN 12664	0.1865 W/(m·K)
	Additional assessment		
	Mould resistance – Mould growth	ASTM D3273	10 (no growth)

Signed for and on behalf of the manufacturer by:

Prague, on 12.06.2023


 Ing. Milan Daněk
 Smrčková 2485/4
 Product Manager
 Rigips Division