

DECLARATION OF PERFORMANCE

No.: Rigidur_Hsd_125_LE_2301

- (1) *Unique identification code of the product-type*
Rigidur Hsd 12.5
- (2) *Intended use/es*
**Gypsum boards with fibrous reinforcement for lining of building elements
GF-C1-I-W2 (EN 15283-2) 12.5 mm**
- (3) *Manufacturer*
**Saint-Gobain Rigips GmbH
Schanzenstr. 84
D-40549 Düsseldorf**
- (4) *Authorised representative*
N/A
- (5) *System/s of AVCP*
System 3
- (6a) *Harmonised standard*
EN 15283-2:2008+A1:2009

Notified body/ies

**Materialprüfanstalt für das Bauwesen und Produktionstechnik (MPA H) (0764)
VHT Institut für Leichtbau Trockenbau Holzbau GmbH (1503)
MPA Dresden GmbH (0767)**

- (6b) *European Assessment Document*
EAD 070006-00-0504

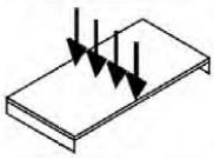
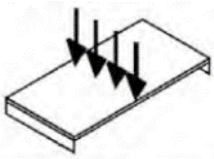
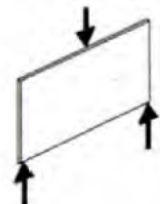
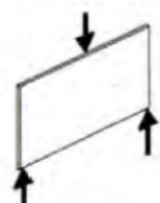
European Technical Assessment
ETA-08/0147, 18.03.2022

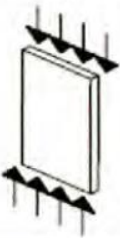
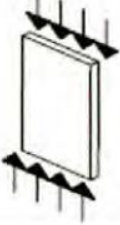
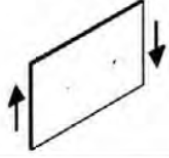
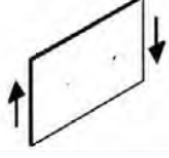
Technical Assessment Body
Österreichisches Institut für Bautechnik

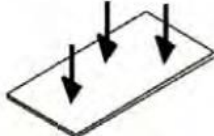
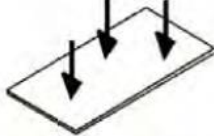
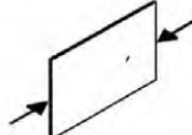
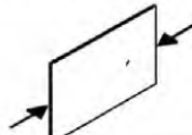
Notified body/ies

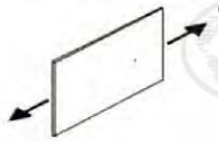
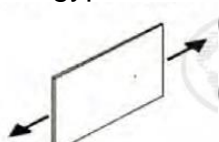
**VHT Institut für Leichtbau Trockenbau Holzbau GmbH (1503)
Labor für Holztechnik LHT (2373)**

(7) Declared performance/s

GA	Essential characteristics	Assessment method	Level / Class / Description
1	Mechanical resistance and stability		
	Bending strength (in transverse direction = in longitudinal direction)		
	Bending strength $f_{m, 90, k}$ Mechanical actions perpendicular to the gypsum board 	EAD 070006-00-0504 2.2.1	5,5 N/mm ²
	Bending modulus of elasticity $E_{m, 90, mean}$ Mechanical actions perpendicular to the gypsum board 	EAD 070006-00-0504 2.2.1	4 500 N/mm ²
	Bending strength $f_{m, 0, k}$ Mechanical actions in plane of the gypsum board 	EAD 070006-00-0504 2.2.1	4,5 N/mm ²
	Bending modulus of elasticity $E_{m, 0, mean}$ Mechanical actions in plane of the gypsum board 	EAD 070006-00-0504 2.2.1	3 500 N/mm ²

GA	Essential characteristics	Assessment method	Level / Class / Description
(1.)	Shear strength $f_{r, k}$ Mechanical actions perpendicular to the gypsum board 	EAD 070006-00-0504 2.2.2	1,2 N/mm ²
	Shear modulus $G_{r, mean}$ Mechanical actions perpendicular to the gypsum board 	EAD 070006-00-0504 2.2.2	650 N/mm ²
	Shear strength $f_{v, k}$ Mechanical actions in plane of the gypsum board 	EAD 070006-00-0504 2.2.2	2,3 N/mm ²
	Shear modulus $G_{v, mean}$ Mechanical actions in plane of the gypsum board 	EAD 070006-00-0504 2.2.2	1 300 N/mm ²

GA	Essential characteristics	Assessment method	Level / Class / Description
(1.)	Compression strength (in transverse direction = in longitudinal direction)		
	Compression strength $f_{c, 90, k}$ Mechanical actions perpendicular to the gypsum board 	EAD 070006-00-0504 2.2.3	6,0 N/mm ²
	Compression modulus of elasticity $E_{c, 90, mean}$ Mechanical actions perpendicular to the gypsum board 	EAD 070006-00-0504 2.2.3	300 N/mm ²
	Compression strength $f_{c, 0, k}$ Mechanical actions in plane of the gypsum board 	EAD 070006-00-0504 2.2.3	9,0 N/mm ²
	Compression modulus of elasticity $E_{c, 0, mean}$ Mechanical actions in plane of the gypsum board 	EAD 070006-00-0504 2.2.3	4 500 N/mm ²

GA	Essential characteristics	Assessment method	Level / Class / Description
(1.)	Tensile strength (in transverse direction = in longitudinal direction)		
	Tensile strength $f_{t, 0, k}$ Mechanical actions in plane of the gypsum board 	EAD 070006-00-0504 2.2.4	2,2 N/mm ²
	Tensile modulus of elasticity $E_{t, 0, mean}$ Mechanical actions in plane of the gypsum board 	EAD 070006-00-0504 2.2.4	4 500 N/mm ²
	Mechanical properties under elevated humidity	EAD 070006-00-0504 2.2.5	Reduction factor for loss of racking strength and stiffness: $k_{red} = 0,65$
	Racking strength and stiffness	EN 594	Calculation acc. to EN 1995-1-1
	Density	EN 15283-2	1000 kg/m ³ ≤ ρ ≤ 1350 kg/m ³ Nominal density 1200 kg/m ³
	Creep and duration of the load	EAD 070006-01-0504 2.2.8	see Annex 3 of ETA-08/0147
	Dimensions	EN 15283-2	Panel thickness ≤ 18 mm: t: ± 0,5 mm b: +0/-4 mm l: +0/-5 mm Squareness: ≤ 2,5 mm/m
	Dimensional stability		
	Shrinkage and swelling	EN 318	per 30 % change in relative humidity: ≤ 0,45 mm/m
	Moisture content during service shall not change to such an extent that adverse deformation will occur.		
	Surface hardness	EN 15283-2	Passed for board type GF-I
	Embedment strength	EAD 070006-00-0504 2.2.12	see Annex 4 of ETA-08/0147
	Head pull-through parameter	EAD 070006-00-0504 2.2.13	see Annex 4 of ETA-08/0147
	Structural cohesion of the core at high temperature	EAD 070006-00-0504 2.2.14	Passed for board type F


GA	Essential characteristics	Assessment method	Level / Class / Description	
	Seismic resistance	EAD 070006-00-0504 2.2.15	see Annex 5 of ETA-08/0147	
	Shear strength ($\uparrow\downarrow$)	EN 15283-2	1143 N	
	Bending strength (F)	EN 15283-2	≥ 5.5 N/mm ²	
2.	Reaction to fire (R2F)			
	$\rho \geq 1200$ kg/m ³	EN 13501-1	Euroclass A2-s1, d0	
3.	Hygiene, health and environmental protection			
	Water vapour permeability – Water vapour diffusion resistance		Water vapour diffusion resistance factor	Water vapour diffusion equivalent air layer thickness
	$\rho = 1237$ kg/m ³	EN ISO 12572	μ [-] 1423	s_d [m] 4.6
	Water absorption			
	- Board surface	EN 15283-2	Passed for board type GF-W2 < 30 %	
	- Total	EN 15283-2		
	Hard body impact	EN 1128	IR = 27 mm/mm	
6.	Energy saving and thermal insulation			
	Thermal conductivity, $\lambda_{10, dry}$	EN 12664	0.20 W/(m·K)	

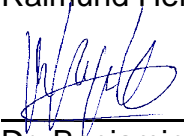
(8) *Appropriate Technical Documentation and/or Specific Technical Documentation*
N/A

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Düsseldorf, 12. January 2023


Raimund Heintl, Managing Director


Dr. Benjamin Kaplan, Director R&D Isover/Rigips Germany

CE

**Saint-Gobain Rigips GmbH
Schanzenstr. 84
D-40549 Düsseldorf**

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Rigidur_Hsd_125_LE_2301

**EN 15283-2:2008+A1:2009
EAD 070006-00-0504**

Gypsum boards with fibrous reinforcement for lining of building elements

GF-C1-I-W2 (EN 15283-2) 12.5 mm

Notified body/ies: 0764, 1503, 0767, 2373

Reaction to fire (R2F) (for unprotected installation situations)	A2-s1, d0
Shear strength (↑↓) (for stiffening of timber frame outer walls and timber roof constructions)	1143 N
Flexural strength (Bending strength)	≥ 5.5 N/mm ²
Water vapour permeability (to control water vapour diffusion) specified as water vapour diffusion resistance (μ)	1423
Thermal resistance specified as thermal conductivity (λ)	0.20 W/(m·K)
Impact resistance	See system documentation of Saint-Gobain Rigips GmbH or from the local supplier
Airborne sound insulation (R)	
Acoustic absorption (α)	

For the values according to the ETA, please refer to the declaration of performance or ETA.