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European Technical Assessment

ETA-24/0695
of 02.09.2025

General Part

Technical Assessment Body issuing the European Technical Assessment:	ITC Division CSI – Centre of Civil Engineering
Trade names of the construction product	**RigiStabil; RigiStabil Activ´Air®**
Product family to which the construction product belongs	Gypsum plasterboards for sheeting and lining of building elements
Holder of the assessment	**Saint-Gobain Construction Products CZ a.s.** Smrčkova 2485/4 180 00 Praha 8- Libeň Czech Republic
Manufacturing plant(s)	**Manufacturing plant Rigips** Horní Počaply 24 277 03 Mělník Czech Republic
This European Technical Assessment contains	11 pages including 2 Annexes which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, based on	EAD 070001-02-0504 Gypsum plasterboards, gypsum boards with fibrous reinforcement and expanded glass boards with fibrous reinforcement for sheeting and lining of building elements
This version replaces	ETA 24/0695, version 1 issued on 29.03.2025

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Specific part

1. Technical description of the product

1.1. Definition of the construction product

This European technical assessment applies to the gypsum plasterboards for sheeting and lining of building elements with the designations **RigiStabil and RigiStabil Activ´Air®**.
The gypsum plasterboards consist of a gypsum core reinforced with glass fibers and encased in a strong paperboard liner, forming flat, rectangular boards. Board type according to EN 520 DFRIEH2.

Density: 920 kg/m^3 ±2 %
Thickness: 12.5 and 15 mm
Width: 1200; 1250 mm
Length of 12.5 mm thickness: 1800 – 3200 mm
Length of 15 mm thickness: 1800 – 3200 mm

The edges of the boards can be produced sharp edged or formed (usually square edge and tapered edge).
The substructure is not part of the product.
Any changes of the product/manufacturing process which could result in this deposited data/information being incorrect, shall be notified to the ITC before the changes are introduced. ITC will decide whether such changes affect the European Technical Assessment (ETA) and consequently the CE marking based on the ETA and if so whether any further assessment or any amendments of the ETA, are required.

Concerning product packaging, transport, storage, maintenance, replacement and repair it is the responsibility of the manufacturer to undertake the appropriate measures and to advise his clients on the transport, storage, maintenance, replacement and repair of the product as he considers necessary.
It is assumed that the product will be installed according to the manufacturer´s instructions and according to the usual practice of building professionals.

2. Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

2.1. Intended use

The gypsum plasterboards are used for category 1-3 of intended use according to Table 1.2.1.1 of EAD namely for:
- load-bearing and non-load bearing applications as system components for drywall constructions (for example on wooden based or steel-based substructures)
Note: The substructure is out of the scope of assessment of this ETA.
- non-load bearing boards in ceilings
- load-bearing and bracing applications under seismic action

The gypsum plasterboards are intended to be used in service classes 1 and 2 according to EN 1995-1-1.

2.2. Working life/Durability

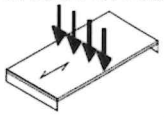
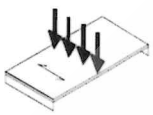
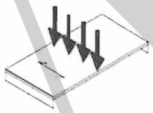
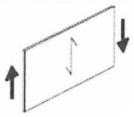
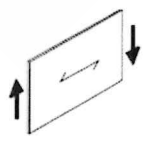
The provisions made in this European Technical Assessment are based on an assumed working life of the gypsum plasterboards for 50 years when installed in the works provided that the product is subject to appropriate installation (see Cl 1-2). These provisions are based upon the current state of the art and the available knowledge and experience.

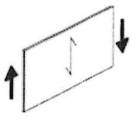
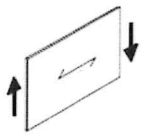
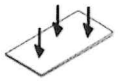
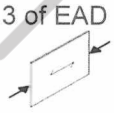
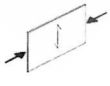
The indications give as to the working life of the construction product cannot be interpreted as a guarantee neither given by the product manufacturer or his representative nor by EOTA nor by the Technical Assessment Body but are regarded only as a means for choosing the appropriate products in relation to the expected economically reasonable working life of the works.

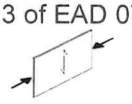
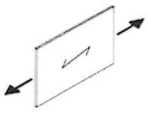
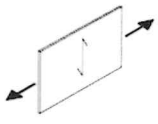
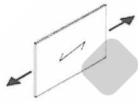
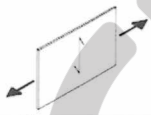
3. Performance of the product and references to the methods used for its assessment

The essential characteristics of the product and methods of verification were carried out in compliance with the EAD concerning "Gypsum plasterboards for sheeting and lining of building elements"

Table No. 1

No	Essential characteristic and method of verification and assessment	Expression of product performance	
Basic Works Requirement 1: Mechanical resistance and stability			
1a	**Bending strength** (Cl. 2.2.1 of EAD 070001-02-0504)	12.5 mm	15 mm
	$f_{m,\perp,MD,k}$ 	9.1 MPa	7.9 MPa
	$f_{m,\perp,CD,k}$ 	4.7 MPa	4.7 MPa
1b	**Bending modulus of elasticity** (Cl. 2.2.1 of EAD 070001-02-0504)	12.5 mm	15 mm
	$E_{m,\perp,MD,k}$ 	5697 MPa	5863 MPa
	$E_{m,\perp,CD,k}$ 	4833 MPa	4869 MPa
2a	**Shear strength** (Cl. 2.2.2 of EAD 070001-02-0504)	12.5 mm	15 mm
	$f_{v,II,MD,k}$ 	3.7 MPa	3.6 MPa
	$f_{v,II,CD,k}$ 	4.1 MPa	3.9 MPa

No	Essential characteristic and method of verification and assessment	Expression of product performance	
2b	**Shear modulus** (Cl. 2.2.2 of EAD 070001-02-0504)  $G_{v,\ II,MD,mean}$  $G_{v,\ II,CD,mean}$	12.5 mm	15 mm
		1850 MPa	1870 MPa
		1790 MPa	1860 MPa
3a	**Compressive strength perpendicular to the plane of the boards and independent of direction of production** (Cl. 2.2.3 of EAD 070001-02-0504)  $f_{c,\ \perp,MCD,k}$	12.5 mm	15 mm
		8.9 MPa	8.6 MPa
3b	**Compressive modulus of elasticity perpendicular to the plane of the boards and independent of direction of production** (Cl. 2.2.3 of EAD 070001-02-0504)  $E_{c,\ \perp,MCD,k}$	12.5 mm	15 mm
		6070 MPa	6130 MPa
3c	**Compressive strength in plane of the boards and in machine direction** (Cl. 2.2.3 of EAD 070001-02-0504)  $f_{c,\ II,MD,k}$	12.5 mm	15 mm
		6.6 MPa	7.9 MPa
3d	**Compressive modulus of elasticity in plane of the boards and in machine direction** (Cl. 2.2.3 of EAD 070001-02-0504)  $E_{c,\ II,MD,k}$	12.5 mm	15 mm
		4530 MPa	4670 MPa
3e	**Compressive strength in plane of the boards and in cross direction** (Cl. 2.2.3 of EAD 070001-02-0504)  $f_{c,\ II,CD,k}$	12.5 mm	15 mm
		6.1 MPa	6.4 MPa

No	Essential characteristic and method of verification and assessment	Expression of product performance	
3f	**Compressive modulus of elasticity in plane of the boards and in cross direction** (Cl. 2.2.3 of EAD 070001-02-0504) $E_{c, II,CD,k}$ 	12.5 mm	15 mm
		4060 MPa	4240 MPa
4a	**Tensile strength** (Cl. 2.2.4 of EAD 070001-02-0504) $f_{t, II,MD,k}$  $f_{t, II,CD,k}$ 	12.5 mm	15 mm
		2.4 MPa	2.4 MPa
		1.7 MPa	1.4 MPa
4b	**Tensile modulus of elasticity** (Cl. 2.2.4 of EAD 070001-02-0504) Et, II,MD,mean  Et, II,CD,mean 	12.5 mm	15 mm
		4620 MPa	5530 MPa
		3730 MPa	4280 MPa
5	**Load bearing capacity of the wall elements in dry conditions** (Cl. 2.2.5 of EAD 070001-02-0504) Characteristic racking strength $F_{v,Rk}$ Mean stiffness R	12.5 mm	
		31.7 kN	
		2432 N/mm	
6	**Embedment strength** (Cl. 2.2.6 of EAD 070001-02-0504)	See Annex B	
7	**Head pull-through resistance** (Cl. 2.2.7 of EAD 070001-02-0504) trumpet head nail 2.4/50 mm staple of thickness 1.8 /50 mm and width 4.5 mm staple of thickness 1.53/50 mm and width 4.5 mm	12.5 mm	15 mm
		17.2 MPa	21.9 MPa
		19.6 MPa	31.0 MPa
		16.6 MPa	28.3.MPa
8	**Creep and duration of the load** (Cl. 2.2.8 of EAD 070001-02-0504)	See Annex A	
9	**Structure of the cohesion of the core at high temperature** (Cl. 5.10 of EN 520)	None of the tested specimens broke during the test = pass for board type F	

No	Essential characteristic and method of verification and assessment	Expression of product performance			
10	**Dimensional stability** (Cl. 2.2.9 of EAD 070001-02-0504) $\delta l_{65,85}$ $\delta l_{65,30}$	12.5 mm		15 mm	
		MD	CD	MD	CD
		0.15 mm/m	0.15 mm/m	0.10 mm/m	0.09 mm/m
		-0.14 mm/m	-0.14 mm/m	-0.12 mm/m	-0.10 mm/m
11	**Surface hardness D** (Cl. 2.2.10 of EAD 070001-02-0504)	12.5 mm		15 mm	
		≤15 mm		≤15 mm	
12	**Static ductility of dowel-type fasteners (staples, screws) in boards** (Cl. 2.2.10 of EAD 070001-02-0504)	12.5 mm		15 mm	
		$\mu+_{ave}$	$\mu -_{ave}$	$\mu+_{ave}$	$\mu -_{ave}$
	trumpet head nail 2.4/50 mm	6.81	7.04	8.13	6.93
	staple of thickness 1.8/50 mm and width 4.5 mm	15.00	8.95	19.51	8.63
	staple of thickness 1.53/50 mm and width 4.5 mm	14.40	10.0	17.0	8.37
Basic Works Requirement 2: Safety in case of fire					
13	**Reaction to fire** (Cl. 2.2.12 of EAD 070001-02-0504)	A2-s1, d0			
Basic Works Requirement 3: Hygiene, health and the environment					
14	**Water vapour permeability - water vapour resistance factor μ** (Cl. 4.4 of EN 520)	12.5 mm		15 mm	
		18.5		15.6	
15	**Water absorption of board surface** (Cl. 5.9.1 of EN 520)	12.5 mm		15 mm	
	back side	220		220	
	front side	220		220	
16	**Resistance to water penetration** (EN 13111)	No performance assessed			
17	**Total water absorption** (Cl. 5.9.2 of EN 520)	12.5 mm		15 mm	
		10 %		10 %	
18	**Moister absorption** (Cl. 2.2.13 of EAD 070001-02-0504)	No performance assessed			
Basic Works Requirement 4: Safety and accessibility in use					
19	**Hard body impact resistance** (EN 1128)	12.5 mm		15 mm	
		26		25	
Basic Works Requirement 5: Protection against noise					
20	**Airborne sound insulation** (Cl. 4.6.1 of EN 520)	No performance assessed			
21	**Sound absorption** (Cl. 4.6.2 of EN 520)	No performance assessed			

No	Essential characteristic and method of verification and assessment	Expression of product performance	
Basic Works Requirement 6: Energy economy and heat retention			
22	**Thermal resistance – thermal conductivity** (Cl. 4.6.2 of EN 520)	12.5 mm	15 mm
		0.25	0.26
23	**Air permeability** (Cl. 2.2.14 of EAD 070001-02-0504)	12.5 mm	15 mm
	Flow coefficient C	0 $m^3/s.Pa^n$	0 $m^3/s.Pa^n$
	Flow exponent n	-	-
24	**Coefficient of thermal expansion** (Cl. 2.2.14 of EAD 070001-02-0504)	Not relevant	
Aspects of durability			
25	**Mould resistance** (Cl. 2.2.16 of EAD 070001-02-0504)	No performance assessed	

Notes: CD = cross direction; MD = machine direction

4. Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base

4.1. AVCP system

According to the Decision 1995/467/EC as amended by Decisions 2001/596/EC, 2002/592/EC and 2010/697/EU of the European Commission system of verification of constancy of performance **3** applies.

5. Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details of the actions to be undertaken by the manufacturer in relation to the FPC are laid down in the "Control plan" which specifies the type and frequency of checks/tests conducted during production and on the final product. This includes the checks conducted during manufacturing process on characteristics that cannot be inspected at a later stage and for checks on the final product. Manufacturer and ITC – Division CSI have agreed a Control Plan which is deposited with ITC- Division CSI in documentation which accompanies the ETA.

All elements, requirements and provisions adopted by the manufacturer should be documented in a systematic manner in the form of written policies and procedures.
Basic manufacturing process is described in sufficient details to support the proposed FPC methods.
Manufacturer's documentation includes:
- detailed description of the product,
- incoming´s (raw) materials specifications and declarations,
- references to European and/or international standards.

Where confidentiality of information is required, this ETA refers to the manufacturer's technical documentation which contains such information.
The records shall be kept at least for ten years and presented to ITC – Division CSI on request.
In cases where the provisions of the European Technical Assessment and its Control Plan are no longer fulfilled, the ITC – Division CSI should withdraw the ETA without any delay.

The notified body shall perform the tasks specified in Regulation (EU) No. 305/2011 – relevant Cl. of Annex V. In case where the provisions of the ETA and its "Control Plan" are no longer fulfilled the notified body shall inform ITC – Division CSI without any delay.

Issued in Prague, 02.09.2025

Ing. Klára Bednářová, MBA

Assessor

Ing. Petr Kučera, CSc.

Technical Director

Annexes:

Annex A – Creep and duration of the load
Annex B – Embedment strength

Annex A - Creep and duration of the load

Table A.1: Creep and duration of the load for thickness 12.5 mm

Service class 1 k_{mod}	Load duration class	Pernament action	Long action	Medium action	Short action	Very short action
	-	0.23	0.43	0.58	0.78	1.0
Service class 2 k_{mod}	Load duration class	Pernament action	Long action	Medium action	Short action	Very short action
	-	0.22	0.41	0.51	0.58	0.9
Service class 1 - k_{def}	-	2.8				
Service class 2 - k_{def}	-	3.8				

Table A.2: Creep and duration of the load for thickness 15.0 mm

Service class 1 k_{mod}	Load duration class	Pernament action	Long action	Medium action	Short action	Very short action
	-	0.25	0.44	0.56	0.76	1.0
Service class 2 k_{mod}	Load duration class	Pernament action	Long action	Medium action	Short action	Very short action
	-	0.19	0.43	0.53	0.63	0.9
Service class 1 - k_{def}	-	2.8				
Service class 2 - k_{def}	-	3.8				

Annex B – Embedment strength

Table B.1: Embedment strength for board thickness 12.5 mm

Fastener	$f_{h, MD,k}$	$f_{h, CD,k}$
Trumpet head nail 2.4/50 mm	30.4 MPa	30.7 MPa
Staple 1.8/45 mm and width 4.5 mm	40.0 MPa	39.9 MPa
Staple 1.53/45 mm and width 4.5 mm	43.2 MPa	42.6 MPa

Table B.2: Embedment strength for board thickness 15.0 mm

Fastener	$f_{h, MD,k}$	$f_{h, CD,k}$
Trumpet head nail 2.4/50 mm	33.0 MPa	34.0 MPa
Staple 1.8/45 mm and width 4.5 mm	42.8 MPa	42.7 MPa
Staple 1.53/45 mm and width 4.5 mm	45.4 MPa	45.1 MPa