



teknoprofil[®]

DECLARATION OF PERFORMANCE



No: 04 – DoP – 04/08/2010

305/2011/EU Construction Products Regulation

1) Unique identification code of the product-type

RE-3S / RE-5S / WE-SP / WE-SM

2) Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11 (4)

Expanded Polystyrene Insulated Sandwich Panels

3) Intended use (according harmonized technical specification) of the product

Metal Surface Insulation Panel for Use in Buildings

4) Name, registered trade name and contact address of the manufacturer (In accordance with the fifth paragraph of article 13 of this regulation) :

Teknopanel Çatı ve Cephe Panelleri Üretim San. ve Tic. A.Ş.

Mersin Tarsus OSB 7. Cad. No:10, 33443, Akdeniz, MERSİN

www.teknopanel.com.tr

5) Name and contact address of the authorized representative (As per the second paragraph of Article 14 of this regulation)

Not applicable.

6) System(s) of assessment and verification of constancy of Performance of the construction product (specified in Annex-5 of this regulation)

System 3

7) Case a construction product covered by a harmonized standard;

The construction product, which is in compliance with the harmonized standart TS EN 14509, has been utilized in case of the stability of the performance and has been carried out under System 3 based on type estimates, the values given in the table or explanatory documents by the approved laboratory, ERA/2184. In conclusion, declaration of performance has been executed under hand and seal based on the experimental report which is 2184-CPD-01004..

8) Case of a construction product for which a European Technical Assessment has been issued

Not applicable.

9) Declared Performance

All characteristics listed in the table hereunder are determined in harmonized standard TS EN 14509

DECLARATION OF PERFORMANCE

Essential Characteristics	Performance	Harmonized Technical Specification
Shear strength (fcv)	Min 0,05 Mpa	Mechanical Strength
Shear modulus (G)	Min. 3 MPa	
Compressive Strength	Min. 0,080 MPa	
Shear strength after long-term loading (fcv long term) (t=1.000 hours, -t=2.000 hours, - t=100.000 hours)	0,050 Mpa 0,045 MPa 0,040 MPa	
Creep Coefficient ($\Phi_t=100.000$ hours) For Roofs (Snow Load):	Max. 1,8	
Creep Coefficient ($\Phi_t=2.000$ hours) For Roofs (Snow Load):	Max. 0,60	
Cross Panel Tensile Strength	Min. 0,060 MPa	
Cross panel Tensile Strength at Clavated Temperatures	Min. 0,050 MPa	
Bending Moment Capacity and Stiffness (for roofs)	Positive: min. 3,7 kNm/m Negative: min. 2,3 kNm/m	
Bending Moment Capacity and Stiffness (for walls)	Positive: min. 4,4 kNm/m Negative: min. 4,4 kNm/m	
Wrinkling Strength (for roofs)	Positive: min. 150 MPa Negative: min. 100 MPa	
Wrinkling Strength (for walls)	Positive: min. 185 MPa Negative: min. 185 MPa	
Bending Moment Capacity Over a Central Support (for roofs)	Positive: min. 4 kNm/m Negative: min. 3,20 kNm/m	
Bending Moment Capacity Over a Central Support (for walls)	Positive: min. 3,30 kNm/m Negative: min. 3,30 kNm/m	
Wrinkling Stress Over a Central Support (for roofs)	Positive: min. 170 MPa Negative: min. 110 MPa	
Wrinkling Stress Over a Central Support (for walls)	Positive: min. 140 MPa Negative: min. 140 MPa	
Reaction to Fire Class	E	Thermal Conductivity
Thermal Conductivity of the Core Material (λ)	$\leq 0,038$ W/mK	External fire performance
External fire performance (For roof)	NPD	
Water permeability	NPD	
Air permeability	NPD	
Water vapor permeability	NPD	
Airborne sound insulation	NPD	
Sound absorption	NPD	
Panel thickness	± 2 mm	Dimensional Variation
Deviation from flatness	L=200 mm 0,6 mm L=400 mm 1,0 mm L>700 mm 1,5 mm	
Length of panel (L)	L \leq 3000 mm ± 5 mm L>3000 mm ± 10 mm	
Cover width (w)	1000 ± 2 mm	
Deviation from straightness	± 1 mm/m, max. 5 mm	
Deviation from squareness (s)	$s \leq 0,6\% * w$	

DECLARATION OF PERFORMANCE

The construction material, which is identified above has the declared performance.
This declaration of performance is issued under the responsibility of Teknopanel Çatı ve Cephe Panelleri Üretim San. ve A.Ş.

Signed for and on behalf of the manufacturer by : Orhan Kahveci
General Manager



teknopanel
Teknopanel Çatı ve Cephe Panelleri Üretim San. ve A.Ş.
Mrk.: Mersin - Tarsus OSB 7. Cadde No:10 Akdeniz - Mersin
T-1. : 0324 676 47 47 (pbx) Faks: 0324 676 47 48
Y.V.D. 8360357388 Mersis No: 3459 2712 9664 1458 / 7