



TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Tanımı Description of the Mark
TSE veya/or  veya/or T S E

BELGE NUMARASI REFERENCE NUMBER OF LICENCE	022438-TSE-10/04
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	18.06.2019
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	18.06.2024
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	TEKNOPANEL ÇATI VE CEPHE PANELLERİ ÜRETİM SANAYİ VE TİCARET ANONİM ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER	ORGANİZE SAN.BÖLGE 7.CADDE NO:10 AKDENİZ MERSİN/TÜRKİYE
ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE	TEKNOPANEL ÇATI VE CEPHE PANELLERİ ÜRETİM SAN. VE TİC. A.Ş. SAKARYA ŞUBESİ
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	2. ORGANİZE SANAYİ BÖLGESİ 1. CADDE NO: 1 KARGALIHANBABA KÖYÜ 54300 HENDEK/SAKARYA SAKARYA / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	022438-TSE-10/03
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	teknopanel deltapan
İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD	TS EN 14509 / 02.04.2014
BELGE KAPSAMI SCOPE OF LICENCE	

1-GALVANIZED STEEL FACED POLYURETHANE FILLED ROOFING PANELS

Steel Faces:

- Thickness Tolerance (TS EN 10143)
- Nominal - Yield Strength: min. 220 N / mm²

Properties of Core Material: Polyurethane (PUR)

- Thermal Conductivity (λ): Max. 0,027 W/mK
- Density: 32 \pm 2 kg/m³
- Shear Strength of Core Material (fcv): min. 0,06 MPa
- Shear Modulus of Core Material (G): min. 1,5 Mpa
- Compression Strength (σ_m): min. 0,050 MPa

Properties of Panels:

e-imzalı/e-signed

26.05.2023

On Behalf Of The Head Of Certification Center
ŞİMA AKKAYA

DIRECTOR OF CONSTRUCTION MATERIALS
SECTOR

*This certificate also shows that the production place of the certified product meets the requirements of Institute.

*This certificate under any circumstances cannot be changed, duplicated partially or in a way that makes it difficult to read and erasure cannot be done.

*TSE CONSTRUCTION MATERIALS SECTOR DIRECTORATE * Address: Necatibey Cad.No:112 06100 Bakanlıklar/ANKARA * Telephone: 0312 416 63 79* Fax: 0312-416 66 17

*TSE HEAD OF CERTIFICATION CENTER; Address: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telephone: 0 312 416 64 81 / 416 64 27, Fax:0 312 416 66 17 E-mail

:bmb@tse.org.tr , web : www.tse.org.tr





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(022438-TSE-10/04nolu belge devamı) : TEKNOPANEL ÇATI VE CEPHE PANELLERİ ÜRETİM SANAYİ VE TİCARET ANONİM ŞİRKETİ
İLGİLİ TÜRK STANDARDI(RELATED TURKISH STANDARD) TS EN 14509 / 02.04.2014

- Creep coefficient for roof panels (t: 100.000 h, Φ t): max 2,3 (free load)
- Creep coefficient for roof panels (t: 2.000 h, Φ t): max 1,6 (snow load)
- Shear Strength After Long-term Loading (fcv - long term): t: 1.000 h, min. 0,020 MPa, t: 2.000 h, min. 0,020 MPa, t: 100.000 h, min. 0,020 MPa
- Cross panel tensile strength of Panel (fct) Min. 0,040 MPa
- Bending Moment Capacity and Rigidity: Normal: Min. 1,00 kNm / m, Reverse: Min. 1,00 kNm / m
- Wrinkling Stress: Normal: Min. 75 MPa, Reverse: Min. 75 MPa
- Bending Moment Capacity over a Central Support: Normal: Min. 1,00 kNm / m, Reverse: Min. 1,00 kNm / m
- Wrinkling Stress over a Central Support: Normal: Min. 75 MPa, Reverse: Min. 75 MPa
- Reaction to Fire: B S2 d0
- External Fire Performance: Broof (t1)

2-GALVANIZED STEEL FACED POLYURETHANE FILLED WALL PANELS

Steel Faces:

- Thickness Tolerance (TS EN 10143)
- Nominal - Yield Strength: min. 220 N / mm²

Properties of Core Material: Polyurethane (PUR)

- Thermal Conductivity (λ): Max. 0,027 W/mK
- Density: 32 \pm 2 kg/m³
- Shear Strength of Core Material (fcv): min. 0,06 MPa
- Shear Modulus of Core Material (G): min. 1,5 Mpa
- Compression Strength (σ m): min. 0,050 MPa

Properties of Panels:

- Shear Strength After Long-term Loading (fcv - long term): t: 1.000 h, min. 0,020 MPa, t: 2.000 h, min. 0,020 MPa, t: 100.000 h, min. 0,020 MPa
- Cross panel tensile strength of Panel (fct) Min. 0,040 MPa
- Bending Moment Capacity and Rigidity: Normal: Min. 1,00 kNm / m, Reverse: Min. 1,00 kNm/m
- Wrinkling Stress: Normal: Min. 75 MPa, Reverse: Min. 75 MPa
- Bending Moment Capacity over a Central Support: Normal: Min. 1,00 kNm / m, Reverse: Min. 1,00 kNm / m
- Wrinkling Stress over a Central Support: Normal: Min. 75 MPa, Reverse: Min. 75 MPa
- Reaction to Fire: B S2 d0

e-imzalı/e-signed

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