



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



|                                                                                         |                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>BELGE NUMARASI</b><br>REFERENCE NUMBER OF LICENCE                                    | 022438-TSE-12/01                                                                 |
| <b>BELGENİN İLK VERİLİŞ TARİHİ</b><br>DATE OF FIRST ISSUE OF LICENCE                    | 07.07.2021                                                                       |
| <b>BELGENİN SON GEÇERLİLİK TARİHİ</b><br>LICENCE VALID UNTIL                            | 07.07.2022                                                                       |
| <b>BELGE SAHİBİ KURULUŞUN ADI</b><br>NAME OF THE LICENCE HOLDER                         | TEKNOPANEL ÇATI VE CEPHE PANELLERİ ÜRETİM SANAYİ<br>VE TİCARET ANONİM ŞİRKETİ    |
| <b>BELGE SAHİBİ KURULUŞUN ADRESİ</b><br>ADRESS OF THE LICENCE HOLDER                    | ORGANİZE SAN.BÖLGE 7.CADDE NO:10 AKDENİZ<br>MERSİN/TÜRKİYE                       |
| <b>ÜRETİM YERİ ADI</b><br>NAME OF THE MANUFACTURING PLACE                               | TEKNOPANEL ÇATI VE CEPHE PANELLERİ ÜRETİM SAN. VE TİC. A.Ş.                      |
| <b>ÜRETİM YERİ ADRESİ</b><br>ADRESS OF THE MANUFACTURING PLACE                          | TURGUTLU 1.OSB 191.CADDE NO:19/1 SELVİLİTEPE/TURGUTLU<br>MANİSA MANİSA / TÜRKİYE |
| <b>İPTAL EDİLEN BELGE NUMARASI (Varsa)</b><br>INDICATION OF SUPERSEDED LICENCE (if any) |                                                                                  |
| <b>TESCİLLİ TİCARİ MARKASI</b><br>REGISTERED TRADE MARK                                 | teknopanel deltapan                                                              |
| <b>İLGİLİ TÜRK STANDARDI</b><br>RELATED TURKISH STANDARD                                | TS EN 14509 / 02.04.2014                                                         |
| <b>BELGE KAPSAMI</b><br>SCOPE OF LICENCE                                                |                                                                                  |

SELF-SUPPORTING DOUBLE SKIN METAL FACED INSULATING PANELS

1- GALVANIZED STEEL FACED POLYURETHANE FILLED ROOF PANELS

Thickness: 40 mm, 150 mm

Steel Faces:

- Thickness Tolerance (TS EN 10143)
- Nominal - Yield Strength: min. 220 N / mm<sup>2</sup>

Properties of Core Material:

- Polyurethane (PUR)
- Thermal Conductivity (λ): Max. 0,027 W/mK
- Density: 30 ± 2 kg/m<sup>3</sup>

e-imzalı/e-signed

30.12.2021

On Behalf Of The Head Of Certification Center  
MEHMET ARSLAN

CONSTRUCTION MATERIALS SECTOR MANAGER V.

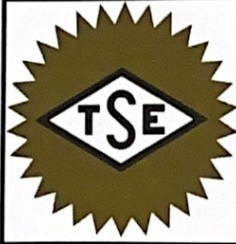
\*This certificate also shows that the production place of the certified product meets the requirements of Institute.

\*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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**BELGE KAPSAMI ( 022438-TSE-12/01nolu 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**

- Shear Strength of Core Material (fcv): min. 0.060 MPa
- Shear Modulus of Core Material (G): min. 1,5 Mpa
- Compression Strength ( $\sigma_{10}$ ): min. 0,050 MPa

**Properties of Panels:**

- Creep coefficient for roof panels (t: 100.000 h,  $\Phi_t$ ): max 1,5 (free load)
- Creep coefficient for roof panels (t: 2.000 h,  $\Phi_t$ ): max 1,2 (snow load)
- Shear Strength After Long-term Loading (Reduced Shear Strength) (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. 0,035 MPa
- Cross panel tensile modulus at elevated temperatures: Min. 0,035 MPa
- Bending Moment Capacity and Rigidity: Normal: Min. 1,0 kNm / m, Reverse: Min. 1,0 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: Fire Class B-s2,d0

**2- GALVANIZED STEEL FACED POLYURETHANE FILLED WALL PANELS**

Thickness: 40 mm, 150 mm

**Steel Faces:**

- Thickness Tolerance (TS EN 10143)
- Nominal - Yield Strength: min. 220 N / mm<sup>2</sup>

**Properties of Core Material:**

- Polyurethane (PUR)
- Thermal Conductivity ( $\lambda$ ): Max. 0,027 W/mK
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- Reaction to Fire: Fire Class B-s2,d0

*e-imzalı/e-signed*

30.12.2021

On Behalf Of The Head Of Certification Center  
**MEHMET ARSLAN**

**CONSTRUCTION MATERIALS SECTOR MANAGER V.**

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Please check the accuracy and validity of the certificate from <https://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?p=lfjymsky>





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

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