



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 009645-TSE-01/08
REFERENCE NUMBER OF LICENCE

BELGENİN İLK VERİLİŞ TARİHİ 12.03.2012
DATE OF FIRST ISSUE OF LICENCE

BELGENİN SON GEÇERLİLİK TARİHİ 12.03.2027
LICENCE VALID UNTIL

BELGE SAHİBİ KURULUŞUN ADI ASSAN PANEL SANAYİ VE TİCARET ANONİM ŞİRKETİ
NAME OF THE LICENCE HOLDER

BELGE SAHİBİ KURULUŞUN ADRESİ YAYLA MAH. RÜYA SK. NO:2 TUZLA İSTANBUL/TÜRKİYE
ADDRESS OF THE LICENCE HOLDER

ÜRETİM YERİ ADI ASSAN PANEL SANAYİ VE TİCARET ANONİM ŞİRKETİ
NAME OF THE MANUFACTURING PLACE

ÜRETİM YERİ ADRESİ BALIKESİR ORGANİZE SANAYİ BÖLGESİ 16.CAD.NO:1 BALIKESİR / TÜRKİYE
ADDRESS OF THE MANUFACTURING PLACE

İPTAL EDİLEN BELGE NUMARASI (Varsa) 009645-TSE-01/07
INDICATION OF SUPERSEDED LICENCE (if any)

TESCİLLİ TİCARİ MARKASI ASSANPANEL
REGISTERED TRADE MARK

İLGİLİ TÜRK STANDARDI TS EN 14509 / 02.04.2014
RELATED TURKISH STANDARD

BELGE KAPSAMI
SCOPE OF LICENCE

TS EN 14509/02.04.2016 SELF-SUPPORTING DOUBLE SKIN METAL FACED INSULATING PANELS - FACTORY MADE PRODUCTS – SPESIFICATIONS

1- MINERAL WOOL INSULATED, GALVANIZED STEEL METAL COATED SELF-SUPPORTING DOUBLE SKIN INSULATING PANELS (WALL AND ROOF APPLICATION)
THICKNESS: MIN. 50 MM, MAX. 220 MM

MECHANICAL PROPERTIES FOR COVERING METALS:
-THICKNESS TOLERANCE (TS EN 10143): NOMINAL
-YIELD STRENGTH: AT LEAST 220 N/MM²

PROPERTIES OF CORE MATERIAL:
-MINERAL WOOL (MW)

e-imzalı/e-signed

31.07.2026

On Behalf Of The Head Of Certification Center
BURAK TUNA

TSE BURSA CERTIFICATION MANAGER

*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 * Address: Organize Sanayi Bölgesi Kırmızı Cad. No:6 16140 BURSA * Telephone: 02242438000(5H)* Fax: 02242438324

*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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(009645-TSE-01/08nolu belge devamı) : ASSAN PANEL SANAYİ VE TİCARET ANONİM ŞİRKETİ
İLGİLİ TÜRK STANDARDI(RELATED TURKISH STANDARD) TS EN 14509 / 02.04.2014

-THERMAL CONDUCTIVITY (Λ): MAXIMUM 0.043 W/MK
-DENSITY: 100 $\pm$ 10 (KG/M³)

PROPERTIES OF THE PANELS:

-SHEAR STRENGTH OF CORE MATERIAL (FCV): AT LEAST 0.03 MPA
-SHEAR MODULUS OF CORE MATERIAL (G): AT LEAST 3 MPA
-CREEP COEFFICIENT (Φ_T , T=100,000 H) - FOR ROOFS (FREE LOAD): MAXIMUM 4
-CREEP COEFFICIENT (Φ_T , T=2,000 H) - FOR ROOFS (SNOW LOAD): MAXIMUM 1.5
-COMPRESSIVE STRENGTH (Σ_{10}): MINIMUM 0.05 MPA
-SHEAR STRENGTH AFTER LONG-TERM LOADING (FCV LONG TERM):
T: 1000 HOURS, MINIMUM 0.02 MPA
T: 2000 HOURS, MINIMUM 0.019 MPA
T: 100,000 HOURS, MINIMUM 0.017 MPA
- CROSS PANEL TENSILE STRENGTH (FCT): MINIMUM 0.018 MPA
- CROSS PANEL TENSILE MODULUS AT ELEVATED TEMPERATURE: AT LEAST 0.018 MPA
-BENDING MOMENT CAPACITY AND RIGIDITY (MU): POSITIVE BENDING: 1.8 KNM/M, NEGATIVE BENDING: 1.5 KNM/M
-WRINKLING STRENGTH (Σ_W): POSITIVE BENDING: 50 MPA, NEGATIVE BENDING: 40 MPA
-BENDING MOMENT CAPACITY OVER A CENTRAL SUPPORT: POSITIVE BENDING: 1.1 KNM/M, NEGATIVE BENDING: 1.9 KNM/M
- BENDING MOMENT WRINKLING STRENGTH OVER A CENTRAL SUPPORT (Σ_W): POSITIVE BENDING: 40 MPA, NEGATIVE BENDING: 75 MPA
-REACTION TO FIRE: A2-S1-D0

2- COMMERCIAL MODEL: OPTIPANEL
POLYURETHANE INSULATED, GALVANIZED STEEL METAL COATED SELF-SUPPORTING DOUBLE SKIN
INSULATING PANELS (ROOF APPLICATION)
THICKNESS: 40 MM

MECHANICAL PROPERTIES FOR COVERING METALS:
-THICKNESS TOLERANCE (TS EN 10143): NOMINAL
-YIELD STRENGTH: AT LEAST 220 N/MM²

PROPERTIES OF CORE MATERIAL:

- POLYURETHANE (PUR)
-THERMAL CONDUCTIVITY (Λ): MAXIMUM 0.024 W/MK
-DENSITY: 38 $\pm$ 6 (KG/M³)

PROPERTIES OF THE PANELS:

-SHEAR STRENGTH OF CORE MATERIAL (FCV): AT LEAST 0.11 MPA

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İLGİLİ TÜRK STANDARDI(RELATED TURKISH STANDARD) TS EN 14509 / 02.04.2014

- SHEAR MODULUS OF CORE MATERIAL (G): AT LEAST 2 MPA
- CREEP COEFFICIENT (Φ_T , T=100,000 H) - FOR ROOFS (FREE LOAD): MAXIMUM 7.0
- CREEP COEFFICIENT (Φ_T , T=2,000 H) - FOR ROOFS (SNOW LOAD): MAXIMUM 2.4
- COMPRESSIVE STRENGTH (Σ_{10}): MINIMUM 0.095 MPA
- SHEAR STRENGTH AFTER LONG-TERM LOADING (FCV LONG TERM):
T: 1000 HOURS, MINIMUM 0.04 MPA
T: 2000 HOURS, MINIMUM 0.03 MPA
T: 100,000 HOURS, MINIMUM 0.01 MPA
- CROSS PANEL TENSILE STRENGTH (FCT): MINIMUM 0.018 MPA
- CROSS PANEL TENSILE MODULUS AT ELEVATED TEMPERATURE: AT LEAST 0.04 MPA
- BENDING MOMENT CAPACITY AND RIGIDITY (MU): POSITIVE BENDING: 2.3 KNM/M, NEGATIVE BENDING: 2 KNM/M
- WRINKLING STRENGTH (Σ_W): POSITIVE BENDING: 115 MPA, NEGATIVE BENDING: 100 MPA
- BENDING MOMENT CAPACITY OVER A CENTRAL SUPPORT: POSITIVE BENDING: 3 KNM/M, NEGATIVE BENDING: 2.6 KNM/M
- BENDING MOMENT WRINKLING STRENGTH OVER A CENTRAL SUPPORT (Σ_W): POSITIVE BENDING: 130 MPA, NEGATIVE BENDING: 130 MPA
- REACTION TO FIRE: F
(S.C: 13.04.2020)

3- POLYISOCYANURATE (PIR) INSULATED, GALVANIZED STEEL METAL COATED SELF-SUPPORTING DOUBLE SKIN INSULATING PANELS (WALL AND ROOF APPLICATION)
THICKNESS: MIN. 40 MM, MAX. 150 MM

MECHANICAL PROPERTIES FOR COVERING METALS:
-THICKNESS TOLERANCE (TS EN 10143): NOMINAL
-YIELD STRENGTH: AT LEAST 220 N/MM²

PROPERTIES OF CORE MATERIAL:
- POLYISOCYANURATE (PIR)
-THERMAL CONDUCTIVITY (Λ): MAXIMUM 0.022W/MK
-DENSITY: 40 $\pm$ 2 (KG/M³)

PROPERTIES OF THE PANELS:
-SHEAR STRENGTH OF CORE MATERIAL (FCV): AT LEAST 0.105 MPA
-SHEAR MODULUS OF CORE MATERIAL (G): AT LEAST 2 MPA
-CREEP COEFFICIENT (Φ_T , T=100,000 H) - FOR ROOFS (FREE LOAD): MAXIMUM 7.0
-CREEP COEFFICIENT (Φ_T , T=2,000 H) - FOR ROOFS (SNOW LOAD): MAXIMUM 2.4
-COMPRESSIVE STRENGTH (Σ_{10}): MINIMUM 0.095 MPA
-SHEAR STRENGTH AFTER LONG-TERM LOADING (FCV LONG TERM):
T: 1000 HOURS, MINIMUM 0.04 MPA

e-imzalı/e-signed

31.07.2026

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T: 2000 HOURS, MINIMUM 0.03 MPA
T: 100,000 HOURS, MINIMUM 0.01 MPA
- CROSS PANEL TENSILE STRENGTH (FCT): MINIMUM 0.018 MPA
-BENDING MOMENT CAPACITY AND RIGIDITY (MU): POSITIVE BENDING: 2.3 KNM/M, NEGATIVE BENDING: 2.0 KNM/M
-WRINKLING STRENGTH (ΣW): POSITIVE BENDING: 115 MPA, NEGATIVE BENDING: 93 MPA
-BENDING MOMENT CAPACITY OVER A CENTRAL SUPPORT: POSITIVE BENDING: 2.53 KNM/M, NEGATIVE BENDING: AT LEAST 1.8 KNM/M
- BENDING MOMENT WRINKLING STRENGTH OVER A CENTRAL SUPPORT (ΣW): POSITIVE BENDING: 130 MPA, NEGATIVE BENDING: 90 MPA
-REACTION TO FIRE: B-S2-D0
(S.C: 25.06.2026)

e-imzalı/e-signed

31.07.2026

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