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 TSE

BELGE NUMARASI *REFERENCE NUMBER OF LICENCE*	009645-TSE-01/06
BELGENİN İLK VERİLİŞ TARİHİ *DATE OF FIRST ISSUE OF LICENCE*	12.03.2012
BELGENİN SON GEÇERLİLİK TARİHİ *LICENCE VALID UNTIL*	12.03.2026
BELGE SAHİBİ KURULUŞUN ADI *NAME OF THE LICENCE HOLDER*	ASSAN PANEL SANAYİ VE TİCARET ANONİM ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ *ADRESS OF THE LICENCE HOLDER*	YAYLA MAH. RÜYA SK. NO:2 TUZLA İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI *NAME OF THE MANUFACTURING PLACE*	ASSAN PANEL SANAYİ VE TİCARET ANONİM ŞİRKETİ
ÜRETİM YERİ ADRESİ *ADRESS OF THE MANUFACTURING PLACE*	BALIKESİR ORGANİZE SANAYİ BÖLGESİ 16.CAD.NO:1 BALIKESİR / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) *INDICATION OF SUPERSEDED LICENCE (if any)*	009645-TSE-01/05
TESCİLLİ TİCARİ MARKASI *REGISTERED TRADE MARK*	ASSANPANEL
İLGİLİ TÜRK STANDARDI *RELATED TURKISH STANDARD*	TS EN 14509 / 02.04.2014

BELGE KAPSAMI
SCOPE OF LICENCE

BRAND: "ASSAN PANEL"

- SELF SUPPORTING DOUBLE SKIN METAL FACED INSULATING PANELS – FACTORY MADE PRODUCTS - SPECIFICATIONS

1- SELF SUPPORTING, DOUBLE SKIN METAL FACED INSULATING SANDWICH PANELS
Mechanical properties of Metal Facing:
Steel Faces:
- Thickness Tolerance (TS EN 10143): Nominal
Properties of Core Materials:
- Mineral Wool (MW)
- Thermal Conductivity (λ) : max.0,035 W/mK
- Density (Kg/m3) : 100±10

e-imzalı/e-signed

19.03.2025

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
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(009645-TSE-01/06nolu belge devamı) : ASSAN PANEL SANAYİ VE TİCARET ANONİM ŞİRKETİ
İLGİLİ TÜRK STANDARDI(*RELATED TURKISH STANDARD*) TS EN 14509 / 02.04.2014

Properties of Panels:
- Shear Strength of Core Material (fcv): min.0.03 MPa
- Shear Modulus of Core Material (G): min. 3 MPa
- Creep Coefficient (Φt, t=100.000 h)-Roof Applications (Permanent Actions): 4
Creep Coefficient (Φt, t=2.000 h)- Roof Applications (Snow Load) : 1,5
- Compressive Strength (σ10): min.0.06 MPa
- Shear Strength After Long-term Loading (fcv long-term):
t: 1.000 h, min. 0.02 MPa
t: 2.000 h, min. 0.019 MPa
t: 100.000 h, min. 0.017 MPa
- Cross Panel Tensile Strength (fct) min. 0.018 MPa
- Cross Panel Tensile Modulus at Elevated Temperatures : min.0.018 MPa
- Bending Moment Capacity (Mu)
+ve Bending: min. 1,8 kNm/m
-ve Bending: min. 1,5 kNm/m
- Wrinkling Stress(σw)
In Span External Face: min. 50 MPa
In Span Internal Face: min. 40 MPa
- Bending Moment Capacity over a Central Support :
Uplift: min. 1,1 kNm/m
Downward: min. 1,9 kNm/m
- Wrinkling Stress over a Central Support(σw)
Uplift: min. 40 MPa
Downward: min. 75 MPa
- Reaction to fire: A2.S1.d0 (Regarding to standard EN 13501-1)

2 - Commercial Model: Optipanel

SELF SUPPORTING, DOUBLE SKIN METAL FACED INSULATING SANDWICH PANELS, 40 MM THICKNESS
Mechanical properties of Metal Facing:
Steel Faces:
- Thickness Tolerance (TS EN 10143): Nominal
Properties of Core Materials:
- Polyurethane (PUR)
- Thermal Conductivity (λ) : max.0,024 W/mK
- Density (Kg/m3) : 38±6 (Kg/m³)

Properties of Panels:
- Shear Strength of Core Material (fcv): min.0.11 MPa
- Shear Modulus of Core Material (G): min. 2 MPa

e-imzalı/e-signed

19.03.2025

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Markanın Tanımı Description of the Mark

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(009645-TSE-01/06nolu belge devamı) : ASSAN PANEL SANAYİ VE TİCARET ANONİM ŞİRKETİ
İLGİLİ TÜRK STANDARDI(*RELATED TURKISH STANDARD*) TS EN 14509 / 02.04.2014

- Creep Coefficient (Φt, t=100.000 h)-Roof Applications (Permanent Actions): 7,0 MPa
Creep Coefficient (Φt, t=2.000 h)- Roof Applications (Snow Load) : 2,4 MPa
- Compressive Strength (σ10): min.0.095 MPa
- Shear Strength After Long-term Loading (fcv long-term):
t: 1.000 h, min. 0.04 MPa
t: 2.000 h, min. 0.03 MPa
t: 100.000 h, min. 0.01 MPa
- Cross Panel Tensile Strength (fct) min. 0.018 MPa
- Cross Panel Tensile Modulus at Elevated Temperatures : min.0.04 MPa
- Bending Moment Capacity (Mu)
+ve Bending: min. 2,3 kNm/m
-ve Bending: min. 2 kNm/m
- Wrinkling Stress(σw)
In Span External Face: min. 115 MPa
In Span Internal Face: min. 100 MPa
- Bending Moment Capacity over a Central Support :
Uplift: min. 3 kNm/m
Downward: min. 2.6 kNm/m
- Wrinkling Stress over a Central Support(σw)
Uplift: min. 40 MPa
Downward: min. 75 MPa
- Reaction to fire: F
(S.E: 13.04.2020)

e-imzalı/e-signed

19.03.2025

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