



CHEMICAL & CONSTRUCTION
MATERIALS TECHNOLOGY
LABORATORY
TECHNOLOGICAL EDUCATIONAL
INSTITUTE OF THESSALY

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Test Reports Results

Date of Issue: 21/03/2016

Product: **Silica Sand Honeycomb Panel**

Metallock

Costumer: KOUTSOURAKIS E. ILIAS
33rd klm National Road Athens-Lamias
Polydendri Attikis – Greece
Postcode 190 11

Property	Value	Test Standard
Thermal Conductivity λ	0,833 (W/m*K)	ASTM E1530 - 11
Thermal Resistance R	0,024 (m ² *K/W)	ASTM E1530 - 11
Modulus of Elasticity	15457 (N/mm ²)	ISO 6892-1:2009
Interlaminar Fracture Toughness G _{ic}	4,18 (KJ/m ²)	ASTM D 5528
Tensile Strength	81,10 (N/mm ²)	ISO 6892-1:2009
Moment of Inertia J	35,9 (cm ⁴ /m)	DIN 53293
Section Modulus W	32,7 (cm ³ /m)	DIN 53293
Rigidity EJ	55490 (KNcm ² /m)	DIN 53293
Shear Ultimate Strength	0,3198 (MPa)	ASTM C393/C393M-11

The reported results refer only to the material type tested, according to the relevant test reports. The reproduction of this document is only permitted in full extension. Documents without signature are not valid.

Laboratory Director

ΕΡΓΑΣΤΗΡΙΟ
ΧΗΜΙΚΗΣ ΤΕΧΝΟΛΟΓΙΑΣ
ΕΠΙΣΤΗΜΗΣ & ΜΗΧΑΝΙΚΗΣ
ΣΥΜΠΕΡΙΦΟΡΑΣ ΥΛΙΚΩΝ
ΤΕΧΝΟΛΟΓΙΚΟ ΕΚΠΑΙΔΕΥΤΙΚΟ ΙΔΡΥΜΑ
ΘΕΣΣΑΛΙΑΣ
Dr. George Papapolymerou

EXACT TRANSLATION FROM THE GRREK LANGUAGE