



## DECLARATION OF PERFORMANCE No. 2013-G-001

Product-type	<b>LIGHT CEILING MADE OF  <b>grenaboard</b><sup>®</sup> BOARDS</b>
Identification of the product	GRENABOARD  16/480
Intended use	Protect ceiling structures of different types against fire effects
Manufacturer	G R E N A , a.s. Čs. armády 540, 391 81 Veselí nad Lužnicí, Czech Republic

System of assessment and verification of constancy of performance 3  
Harmonised standard: EN 13964:2004/A1:2006

**Notified Body, No. 1390 - Centre of Building Construction Engineering Prague**  
site in Zlín, K Cihelně 304, 764 32 Zlín, - Louky, the Czech Republic, Company ID: 45274860  
issued the Initial Type Testing Report, No.1390-CPD-0014-11/Z on August 12, 2011

### PERFORMANCE

Reaction to fire responding to ČSN EN 13501-1: Classification A1

Fire resistance according to ČSN EN 13501-2:

REI 90	Ceiling type –Reinforced concrete slab tl. 60 mm, reinforcement protection 15 mm
REI 120	Ceiling type –Reinforced concrete slab tl. 80 mm, reinforcement protection 20 mm
REI 180	Ceiling type –Reinforced concrete slab tl. 100 mm, reinforcement protection 30 mm
R 45	Ceiling type – Ceiling joist of soft wood, Cross-section 22x50 mm to 40x120 mm
R 60	Ceiling type – Ceiling joist of soft wood, Cross-section 50x100 mm to 140x200 mm
R 90	Ceiling type – Ceiling joist of soft wood, Cross-section 160x240 mm and more
REI 45	Ceiling type –Wooden beam floor structure with DTD, Size of wooden beam min. 44x145 mm, Carrying floor slab DTD*) th. 22 mm DTD*) = chipboard
REI 60	Ceiling type –Wooden beam floor structure with DTD, Size of wooden beam min. 80x220 mm, Carrying floor slab DTD*) th. 22 mm
R 120	Ceiling type – Ceiling beam of steel, Cross-section factor 150m-1
R 120	Ceiling type – Ceiling beam of steel, Cross-section factor 300m-2
R 120	Ceiling type – Ceiling beam of steel, Cross-section factor 450m-3
REI 60	Ceiling type –Steel trapezoidal sheet, th.1 mm with concrete above, Concrete layer thickness 40-50 mm
REI 90	Ceiling type –Steel trapezoidal sheet, th.1 mm with concrete above, Concrete layer thickness 50-70 mm
REI 120	Ceiling type –Steel trapezoidal sheet, th.1 mm with concrete above, Concrete layer thickness 70-80 mm

Bending strength to ČSN EN 13964: 1/A/uniform load

Load-bearing capacity to ČSN EN 13964: 50 N/m<sup>2</sup>

Airborne sound insulation to ČSN EN ISO 717-1: NPĐ

Sound absorption to ČSN EN ISO 11654 : NPĐ

Heat conductivity to ČSN ISO 6946: NPĐ

Durability -corrosion protection to ČSN EN 13964: Class A

This declaration of performance is issued under the sole responsibility of the manufacturer