

# Boxer

*Having impact resistant surface, Boxer is a tough, durable, fire safe and good whole life cost ceiling tile.*

activeceilings®

ROCKWOOL  
**Rockfon**®  
ACTIVATE YOUR CEILING

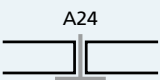

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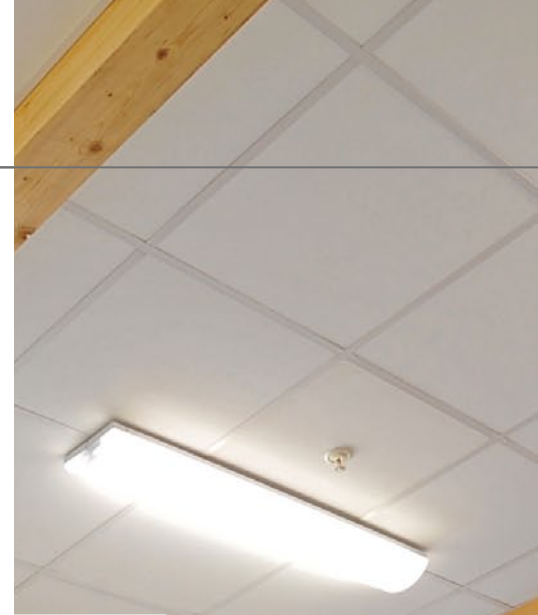
The sound absorption level is exceptional thereby contributing to a good acoustic environment such as schools, sports infrastructure in what typically can be noisy application areas. For sports ceilings, Olympia<sup>Plus</sup> should be installed for maximum

impact resistance (Class 1A). In areas where the requirement of resistance is lower (Class 2A/3A), Boxer can also be installed using a SY24 grid and CMC clips 817. Boxer is demountable without clips and when used in Olympia<sup>Plus</sup>.

## ASSORTMENT

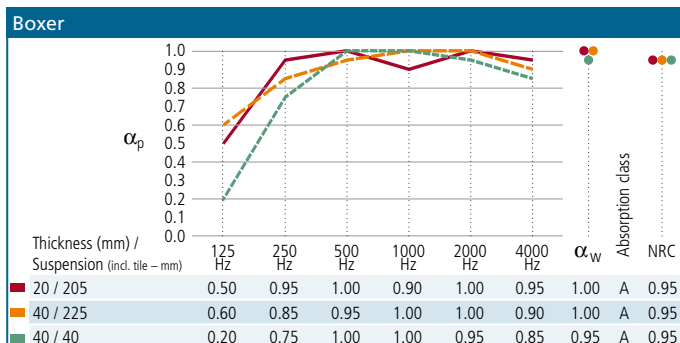
Edge detail	Module size (mm)	Weight (kg/m <sup>2</sup> )	MS* easy access (mm)	Installation system
 A24	600 x 600 x 20	2.5	100	System SY24
	600 x 600 x 40	4.1	150	
 AEX	1200 x 600 x 20	2.5	100	System SY24
	1200 x 600 x 40	4.1	150	+ CMC Clips 817
	1166 x 1166 x 40	4.1	150	System Olympia <sup>Plus</sup>

\* MS - Minimum Suspension



## SOUND ABSORPTION

Sound absorption has been measured in accordance with ISO 354. Sound absorption data  $\alpha_p$ ,  $\alpha_w$  and absorption class are calculated in accordance with ISO 11654. Noise Reduction Coefficient (NRC) is calculated in accordance with ASTM C423.





## FIRE PERFORMANCE

**General:** Rockfon ceiling tiles have a core of stone wool. Stone wool is non-combustible with a melting point of more than 1000°C.

**Reaction to fire:** Class A1 in accordance with EN 13501-1.

**Fire protection:** The fire resistant properties of stone wool ensure Rockfon ceiling tiles provide fire protection in construction. The fire protection properties of Rockfon ceilings have been tested and classified in accordance with European norm EN 13501-2 and/or national norms depending on requirements in national building codes.



## IMPACT RESISTANCE

Impact resistance performance of Boxer has been tested by a certified laboratory in accordance with EN13964-Annex D. Impact resistance classifications confirm the system's capability to withstand incidental or occasional impact. It does not confirm the system's ability to maintain consistent visual appearance if impacted on a regular basis. Boxer reaches the below impact resistance classes in combination with the following installation systems:

Class	Edge	Dimensions (mm)	Installation system
1A	AEX	1166 x 1166 x 40	Olympia <sup>Plus</sup>
2A	A24	1200 x 600 x 40	SY24 + CMC clips 817
3A	A24	1200 x 600 x 20	SY24 + CMC clips 817



## HUMIDITY RESISTANCE AND DIMENSIONAL STABILITY (FLEXURAL TENSILE STRENGTH)

Rockfon ceiling tiles are dimensionally stable even at high humidity levels of up to 100% RH and can be installed at all temperatures ranging from 0°C to 40°C. No acclimatisation is necessary.

Boxer is predominantly classified as Class 1/C/0N in accordance with EN 13964. However certain module sizes (width above 700 mm) are Class 2/C/0N.



## LIGHT REFLECTION

White, 85% diffuse light reflection in accordance with ISO 7724-2.



## THERMAL CONDUCTIVITY

Boxer with a thickness equal to and exceeding 30 mm has been measured in accordance with EN 12667 and has obtained the following value  $\lambda_D = 37$  mW/mK.

**Thermal resistance:**  $R = 1.05$  m<sup>2</sup> K/W.



## HYGIENE

Stone wool has no nutritional value and therefore it provides no sustenance to harmful micro-organisms.



## CLEANING

The surface can be vacuum-cleaned with a soft brush attachment. The surface can also be cleaned once a week using a sponge or cloth and warm water (max 40°C) with a slightly alkaline detergent (max. pH 10) without alcohol, ammonia or chlorine. Cleaning with a damp sponge or cloth may render the surface slightly shinier and we therefore recommend cleaning the whole surface evenly for best results.



## AFTERCARE

The tiles can be post factory treated with a re-finishing paint, e.g. a PVA water based latex paint. The paint should be applied with an airless spray in a low amount (no brushing or rolling). Rockfon advises the use of the smallest amount of paint in order to minimise reduction in sound absorption. The surface of the tiles must be clean and dry and the existing paint surface must be firmly adhered to the tile prior to refinishing. Heavily discoloured tiles should be replaced.

**Disclaimer:** The application of refinishing paint will influence acoustic properties and fire safety performance. Rockfon takes no responsibility for these properties after treatment.



## ENVIRONMENT

A representative selection of Rockfon products have been awarded the Danish Indoor Climate Label and the Finnish Indoor Climate Label (M1).

Boxer is recyclable.