



## HYBRID noise absorber

### APPLICATIONS:

- sports and entertainment arenas
- industrial production halls
- school gyms
- noisy school corridors
- airport terminals
- exhibition halls and indoor markets
- swimming pools and aqua parks
- pumping stations and forge shops
- engine test cells
- television sound stages

**ROLFON** is a highly effective, wideband noise absorber, in shape of a roll, designed for use in large reverberant rooms and halls.



### SOUND ABSORBING HYBRID

ROLFON™ is an innovative sound absorbent that easily and evenly repairs acoustics by reducing excess reverberant sound not only in mid-high, but also in lower frequencies.

**It absorbs noise 2 octaves broader than any other absorbing materials before (including baffles or mineral wool ceiling boards).**

And this is achieved at no additional costs and without adding more material.

ROLFON™ hybrid is a roll made of profiled mineral wool, 15cm (5.9in) in diameter and 1m (3.28ft) long, with 4 specially shaped acoustic resonators inside... that enhance the acoustic absorption coefficient of waves between 150 and 500 Hz (1/3 octave) to an average of 0.94.

**It means almost 60% better absorption of lower frequencies, compared to standard ceiling and wall acoustic panels. The**

**construction guarantees the best impact resistance and allows for easy arrangement of ROLFON™ rolls into groups of any shapes and configurations.** The roll, including latches, weighs less than 1.5kg (3.3lb)



### QUICK INSTALLATION

**ROLFON™ offers very quick, easy and cheap installation under ceiling or directly on the wall.** It can be installed vertically or horizontally with a steel line equipped with carabiners. Rolls can be attached to each other in no time, one under another. This reduces the number of attachment points... and detachment is just as quick and simple.





**+** What makes ROLFON™ so special on the field of sound absorbers:

- + creates better/more even acoustics
- + absorbs 30% more of the noise energy
- + eliminates noise also in low frequencies range
- + does not require any rack or frames
- + quick installation – carabiners
- + resistant to hits and temperature
- + does not create thermal bridges
- + can form various shapes

**SPECIFICATION**

Diameter / lenght	15 cm / 100 cm
Weight	1,5 kg
Room absorption area Aeq	0,47 m <sup>2</sup>
Fire resistance class	non flammable, Euroclass B-s1, d0 (EN 13501+A1:2010)
Mounting	hanging (steel line + carabiner) screwing to profiles/
Fixing	directly on ceiling or on the wall
Configurations	vertical, horizontal single, groups, spatial shapes



**FIRE RESISTANCE**

Rolfon is made of mineral wool, that protects the plastic acoustic resonators inside thus maintaining high resistance against fire. It is classified as non flammable (CNBOP tests), what enables usage in any part of the building, including passages and escape routes.

**Fire resistance class:**  
Euroclass B-s1, d0 (EN 13501+A1:2010).

**EXTREME CONDITIONS**

Rolfon is **absolutely resistant against impact, it can not be broken or knocked off.** Special mounting bracket made of steel is fixed

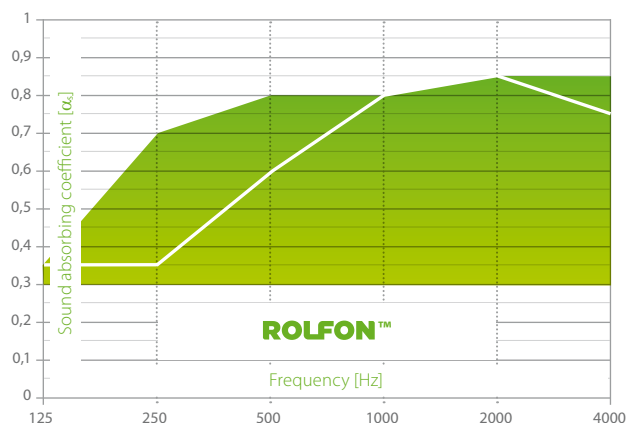
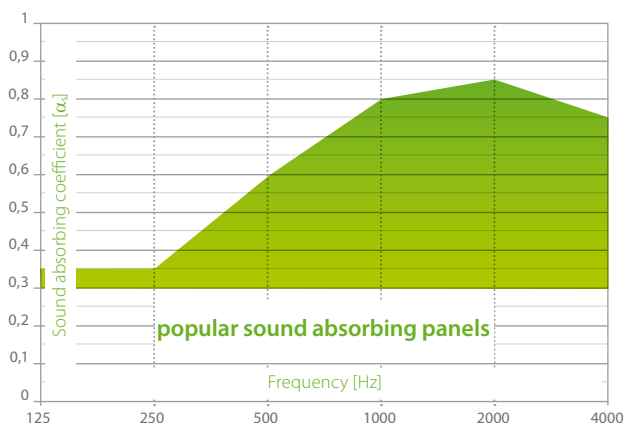
inside of the resonator, that works as an anchor using multiple mounting points inside of the roll. This allows Rolfon to be used in extreme conditions, including powerful hits (with a ball), shaking, moves. The **rolls will not fall even in case of the fire!**

**ENVIRONMENT AND HYGIENE**

Rolfon is made of mineral wool covered with fiberglass veil and does not pose a threat to the environment. Neither steel nor wool components do not contain any substances that could be used by harmful micro-organisms. Surface of the rolls can be cleaned with a soft brush.



**COMPARISON – SOUND ABSORBING COEFFICIENT (popular sound absorbing panels vs Rolfon™)**



Rolfon absorbs noise 2 octaves broader than any other absorbing material (including baffles or mineral wool ceiling boards).

frequency (Hz)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
sound absorbing coefficient	0,36	0,54	0,58	0,86	0,80	0,94	0,94	0,98	0,80	0,75	0,69	0,85	0,88	0,84	0,78	0,74	0,74	0,82

\* @ 7,6 Rolfon™/m<sup>2</sup> of the ceiling