## **DATA SHEET**

# soniflex

### soni 491 STL

- **Soni 491 STL** is an acoustically effective PUR foam covered with a micro-perforated film. On the rear side, soni 491 STL is equipped with a self-adhesive bitumen heavy layer that ensures effective sound insulation.
- When mounted in the empty space behind a curtain wall or suspended ceiling, or inside a partition wall, soni 491 STL minimizes the propagation of resonances – for improved noise insulation of walls and ceilings. This achieves a noticeable reduction in noise.



#### TECHNICAL DATA

FLAMMABILITY	<ul> <li>Fulfills the strict fire safety standard for the automotive industry (FMVSS 302, DIN 75 200)</li> <li>ISO 3795, burning rate &lt; 100 mm/min</li> </ul>
TEMPERATURE RESISTANCE	►-40°C to +100°C
THERMAL CONDUCTIVITY / EN 12667	► ≤ 0.040 W/(m·K) at 10°C

# DIMENSIONS

PRODUCT	THICKNESS / TOLERANCE [mm]	SHEETS / TOLERANCE [mm]	WEIGHT PER SHEET
491 STL	32 ± 1	1000 X 500 ± 5	1.800 g

ADVICE	BENEFITS
The self-adhesive layer functions primarily as an installation aid. In case of vertical or overhead installation, additional mechanical fixation is required. An additional function of the self-adhesive layer is to ensure that the heavy foil is closely attached to the entity of the supporting surface for optimum noise attenuation results.	<ul> <li>Double effect: sound attenuation and sound insulation</li> <li>Surface can be wiped clean</li> <li>Free of halogens</li> <li>Oil,- water- and fuel-repellent surface</li> <li>Suitable for applications with relatively high humidity levels</li> </ul>

#### **REVERBERATION ROOM**

#### Based on DIN EN ISO 354



#### SOUND TRANSMISSION LOSS

### CURTAIN WALL STRUCTURE

#### soni 491 STL

45 DB 40 Z EFFECT 35 30 NSULATION 25 20 S 0 15 10 R 22 dB 5 acc. to DIN EN ISO 717-1 FREQUENCY/HZ 0 125 160 200 250 320 400 630 100 500 800 000 1250 1600 2000 2500 3150 4000

32 mm

► Test procedure similar to DIN EN ISO 10140-2

#### PLEASE SEE OUR PROCESSING AND STORAGE INSTRUCTIONS

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#### **VERSION 02/25**

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SOUND INSULATION