

BVS – Atmosphere instead of stress

Insulation with **CARUSO-ISO-BOND®**



Toxproof Insulation

We process CARUSO-ISO-BOND®, an ecological insulation material for thermal and acoustic insulation consisting of 100% polyester fibers. It contains no chemical binding agents or additives whatsoever, has excellent insulation values, is resistant to flame, rotting deformation, mold and mites.

In addition to our acoustic panels for wall and ceiling cladding, we recommend additional insulation with CARUSO-ISO-BOND® for even better sound absorption.



Properties

- **flame retardant, classified in Category B1 acc.** to DIN 4102, Part 1, as well as various other fire prevention standards, e.g. BS 5852-P2, California Standard, MVSS 203, F1, K1 etc.
- **good thermal insulation** up to WLG 0.035 (035) DIN 52612
- **good sound insulation properties** > 5 kNs/m⁴ DIN 52213
- UV stable
- **resistant to rotting**
- **contains no chemicals** (necessary for some other products for resistance to moths, mold, flame)
- non-toxic containment-tested textile according to Eco-Tex Standard 100, test number 94.0.0541 - Hohenstein Research Institute
- **minimum moisture absorption**
- **completely resistant to mold and mites**
- 100% recyclable, environmentally friendly (fiber content from recycled PET bottles: approximately 60%)
- skin friendly, non-allergenic, breathable
- 100% mono-material, flexible, dimensionally stable and tear resistant
- independently monitored by FIW Munich
- german construction material approval no. Z-23.1.3-278
- type of application W/WL



Sound absorption

CARUSO-ISO-BOND®

TCG 035 – 25 mm

Frequency HZ	Sound absorption co-efficient α_s
100	0,09
125	0,08
160	0,15
200	0,21
250	0,30
315	0,38
400	0,49
500	0,56
630	0,61
800	0,63
1000	0,66
1250	0,69
1600	0,75
2000	0,79
2500	0,84
3150	0,87
4000	0,88
5000	0,87