

TROSIFOL®: A big noise in sound insulation Acoustic films for vehicles and architecture

The enjoyment of music depends not only on the style and personal taste, but also on the volume. Music, or any other sound, can quickly lose its appeal if it shrills more than it thrills. When it comes to acoustic annoyance in the form of road or aircraft noise, the concept of pleasure simply doesn't apply. In the last two decades, traffic density on our roads, in the air and on rails has almost doubled in the larger industrial nations.

To keep the effects of noise on people within bounds, designers, engineers and architects are being increasingly called upon to incorporate noise abatement features in the design of buildings – and also of vehicles.

Sound insulation with TROSIFOL SOUND CONTROL (SC)

Unlike with conventional forms of sound insulation using glass, laminated safety glass not only reduces sound, but also has the additional advantage of excellent safety performance. With its optimized SC film launched last year, TROSIFOL has now made the breakthrough for a top-quality acoustic glazing product. In the multiple-glazing sector, this product combines outstanding noise reduction properties with all the advantages of a conventional TROSIFOL PVB film.

Compared to float glass of the same thickness, TROSIFOL SC achieves a roughly 5 dB improvement in the sound insulation value. Laminated safety glass with TROSIFOL® SC demonstrably achieves the highest sound insulation values with an R_w up to approx. 45 dB with a single pane of laminated safety glass and 50 dB or more with two panes of laminated safety glass. Test certificates for DIN EN 20140-3 and DIN EN ISO 140 are available on request.

With this further-developed product, TROSIFOL has now come up with a highly efficient technology that enables even large pane formats to be produced at a constant level of high quality. Major changes to the conventional production parameters of the existing process are not necessary. The new film is just as easy to process as all standard products for the architectural sector.

For the production of all conventional sizes of laminated safety glass, TROSIFOL SC is available in roll widths up to 3,210 millimetres. In glazing configuration 44.2, laminated safety glass with this film complies with class P1A of standard EN 356 and configuration 44.4 with class P2A.

Laminated safety glass produced with TROSIFOL SC satisfies the requirements of EN ISO 12543-2. Configurations tested with the pendulum impact test conforming to DIN EN 12600 show safe shattering behaviour.

The film is available in thicknesses of 0.76 (roll length 200-450 metres), 1.14 (roll length 150-300 metres) and 1.52 millimetres (roll length 100-240 metres).

TROSIFOL SC measurably improves the sound insulation performance of currently available laminated safety glass. The characteristic safety features of laminated safety glass are now supplemented by the advantage of better sound insulation – while retaining the excellent optical properties of clarity, transparency and light stability.

... also for cars

At the same time, TROSIFOL is also introducing TROSIFOL MV-SC, an acoustic film for cars. Developed for windscreens and side windows, this film in the standard configuration meets the requirements of the relevant standards. The film, which is also available with a shade band, has extremely good venting properties owing to its optimized surface structure. The end product laminated with it shows the same outstanding characteristics in terms of safety, optics and long-term strength as the standard product range.

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