

PARAGLAS SOUNDSTOP®
NOISE BARRIER SHEET

Dwhisol®

Impact Resistance

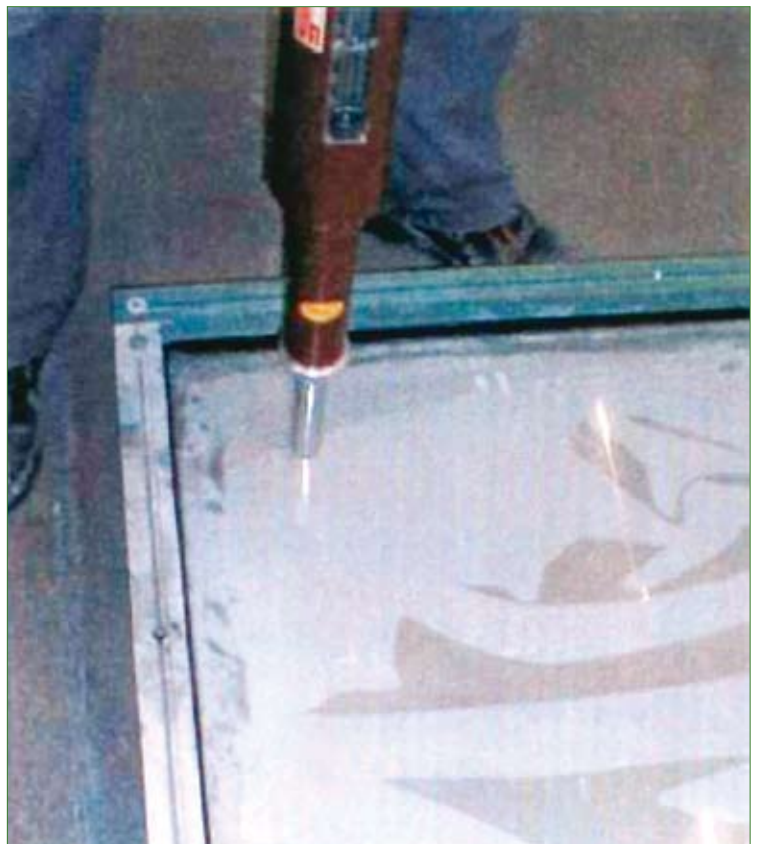
Sound barriers are often subjected to impacts caused by stones or other debris thrown up by vehicle tires. Therefore, it is important to construct a noise barrier from materials able to withstand these impact forces. The following test method is used to evaluate the resistance of PARAGLAS SOUNDSTOP® Noise Barrier Sheet to impacts and is technically equivalent to the European standard EN 1794-1, Appendix C, *Resistance against Damage by Stone Projectiles*.

Test Method

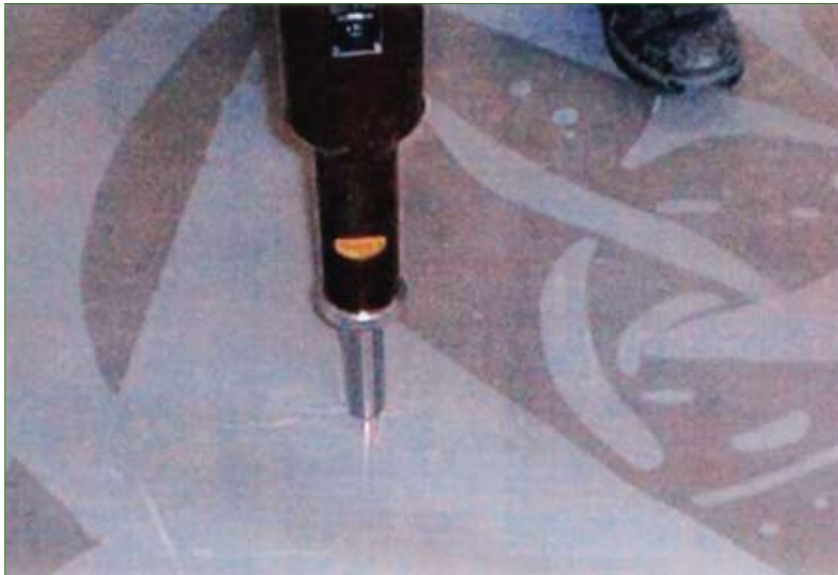
Testing with a mechanical hammer is used to simulate the stone impacts. Three hammer strikes at $30 \text{ Nm} \pm 1 \text{ Nm}$ (22 ft-lbs) are performed which are roughly equivalent to a 77 gram (0.17 lb) object traveling at 100 km/hr (60 mph). One of the test strikes must be near one corner of the test panel within a test area bounded by a margin of 125 mm (5") from the edge of the panel, one must be near the center of the test panel and the third is chosen at random. The exact position of the point to be tested must be chosen to be representative of the panel as a whole and avoid places of local strength.

Test Results

Three points of impact were marked on the panel of PARAGLAS SOUNDSTOP sheet. Point 1, is a corner point with a distance of 125 mm (5") from the upper edge and 125 mm (5") from the side edge. Point 2, is at the center of the sheet and point 3 was chosen at random.



1. Edge Impact with Concrete Testing Hammer



2. Center Impact with Concrete Testing Hammer

At the conclusion of the test there was no evidence of penetration, destruction, formation of cracks or chipping on the PARAGLAS SOUNDSTOP Sheet panels.

PARAGLAS SOUNDSTOP sheet meets the requirements of EN 1794-1, Appendix C, Resistance Against Damage by Stone Projectiles.

Fire Precautions

PARAGLAS SOUNDSTOP sheet is a combustible thermoplastic. Precautions should be taken to protect this material from flames and high heat sources. PARAGLAS SOUNDSTOP sheet usually burns rapidly to completion if not extinguished. The products of combustion, if sufficient air is present are carbon dioxide and water. However, in many fires sufficient air will not be available and toxic carbon monoxide will be formed, as it will when other common combustible materials are burned. We urge good judgement in the use of this versatile material and recommend that building codes be followed carefully to assure it is used properly.

Compatibility

Like other plastic materials, PARAGLAS SOUNDSTOP sheet is subject to crazing, cracking or discoloration if brought into contact with incompatible materials. These materials may include cleaners, polishes, adhesives, sealants, gasketing or packaging materials, cutting emulsions, etc.

Important Notice:

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. **NO WARRANTY OF FITNESS FOR PARTICULAR PURPOSE IS MADE.** Nothing herein is to be taken as permission, inducement or recommendation to practice any patented invention without a license.

Durisol®

Exclusive North American Distributor
For Sales and Technical Information Contact:

Durisol USA, Inc.
8270 Greensboro Drive, Suite 810
McLean, VA, USA 22102
Phone: (866) 801-0999
Fax: (877) 268-8813

www.durisol.com

Durisol Inc.
67 Frid Street
Hamilton, ON, Canada L8P 4M3
Phone: (905) 521-0999
Fax: (905) 521-8658

degussa.

creating essentials

Manufactured by:
Degussa/CYRO
379 Interpace Parkway
Parsippany, NJ 07054
1.800.631.5384
paraglas@degussa.com

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