Transparent Noise Abatement.

ACRYLITE® (Formerly PARAGLAS)

Soundstop

Steve Barratt
908.303.8589
Why use a transparent sound wall?

• Preserve lines of sight
• Maintain viewshed
• Reduce adverse impact
• Light weight
Where have these walls been used?

- New Jersey - three projects
- Virginia Woodrow Wilson Bridge
- New York State Binghamton Bridge
- Ohio - five projects
- Wisconsin Marquette Interchange
- Tennessee I-40 Knoxville
- Minnesota Minnehaha Creek trail
- California SR-125 and numerous bridges
- Quebec, Ontario (4), Alberta(2), British Columbia
- 25,000,000 square feet worldwide
- 10-15% of total in Europe
Assume
1500’ Long
$35/ Ft2
10% Soundstop
$8 Premium
2-3% premium
Weathering Case

- Newport Beach Installed the Noise wall on the PCH in 1994
- They used noise barrier sheet made from polycarbonate plastic.
- As an experiment, they included ten ACRYLITE Soundstop panels.
- After approximately seven years, the polycarbonate panels began to yellow
- After 10 years, the polycarbonate panels had turned very cloudy
- After 10 years, the ACRYLITE panels remained clear and colorless
- The polycarbonate panels were replaced with ACRYLITE Soundstop
- ACRYLITE Panels are still there today
Weather Resistance of Other Plastics

Polycarbonate panels after ~ 7 yrs exposure`
PARAGLAS SOUNDSTOP after 7 yrs exposure

Arizona 10 year exposure test.
Used as first surface in solar collector panels.
NYS DOT Rte 520

- New York State DOT
  - Installed ACRYLITE on Rte 520 in Binghamton December 2005
  - The area receives heavy snowfall and rainfall
  - The installation was on a trial basis.
  - Posts capable of carrying concrete panels were used in case of a failure.
  - ACRYLITE would be replaced if DOT determined it should be removed.
Cleaned by rainfall. No power wash!

Picture taken Feb 2006 following a snow fall.

Picture taken May 2006
Other Highlights

- Crash Test
- Fragment Retention Video
- Graffiti Removal
- Weathering Test Data
- Scratch-iti Removal
- Light weight, low deadload
- 30 Year warranty against weathering
Whom do I call to learn more?

Nathan Binette
Mobile: 207.459.8382
Nathan.binette@evonik.com

Steve Barratt
Mobile: 908.303.8589
stephen.barratt@evonik.com

Or come see us in our exhibit!