

PROJECT HIGHLIGHT

CASE STUDY

AESTHETIC SOUNDBARRIER WITH MAXIMUM NOISE REDUCTION

The new solar-powered fuel station of ENOC, located at Dubai Hills, was built as per global retail standards and are compliant with Dubai Municipality Green Building Regulations.

According to the environmental noise criteria, any industrial premises or any mechanical equipment shall ensure that the emission of noise does not exceed a reasonable level, to protect the general public from excessive noise levels.

KEY CHALLENGES:

- Maximum noise reduction, not exceed 70 dBA
- Excellent impact resistance
- Good fire properties
- Stiffness and strength
- Easy to process

PRODUCT SOLUTION:

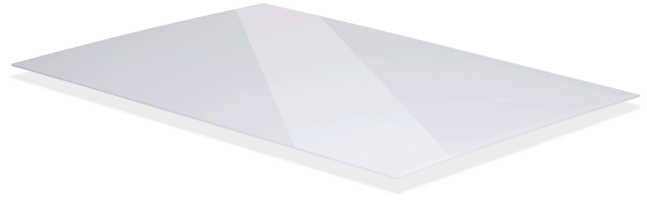
As the reduction of dB was a major criterion, several tests were performed, using a variety of combinations of gauges and grades.

These tests resulted into a reduction of 33dB with [LEXAN™ EXELL™-D sheet](#) in 8MM which complied to the needs of the customer.

SABIC has created video's in which we show the Excellent Fire, Impact & Cleaning performance of LEXAN™ sheet, please click on this [link](#) to find the video's on our website.

PRODUCT FEATURES:

- High light transmission
- Light weight for easy installation
- Fire retardant
- Easy to clean
- Comes with a 10 year limited warranty against breakage, yellowing and loss of light transmission
- Available in clear, white and other colors.



RESULTS

Industry experts from both the parties have tested these sound walls and confirmed that Blue Rhine has succeeded in reducing the noise levels and have achieved up to **33 dB noise reduction** with the installation of a sound barrier with **LEXAN™ EXELL™-D sheet**, ensuring greater comfort in terms of noise pollution for residents in the Dubai Hills neighborhood.



MORE INFORMATION:

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