## **Polycarbonate Noise Barriers**

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protecting neighboring commercial units from a 24 hour secures operation.

The construction consisted of MS/Galvanized steel beam as horizontal and vertical posts specially designed aluminum pressure pad with rubber gas kit use to grip polycarbonate sheet tightly.

On this project the vertical boarding runs the full height of the barrier, on other similar barriers a horizontal mid chamfered trim is add as a feature.

The standard Polycarbonate Noise Barriers designed to achieve 22 STC rating and the same has been confirmed during laboratory test.

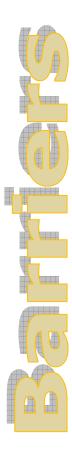
#### **Applications:**

- 1. Highways ,Flyovers & Railway track.
- 2. To cover Industrial premises.
- 3. Construction sites
- 4 Stadium & Clubs.
- 5. Residential premises.











# Installation & Maintenance

We offer a full design, delivery and installation service, which can also include all necessary structural steelwork. Barriers can be erected by our own, trained personnel.

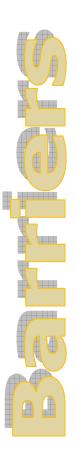
Alternatively, they can be installed by others (contractors, end users etc), preferably under the supervision of an ESPL engineer.

All polycarbonate sheets are UV coated and having warrantee up to 10 years



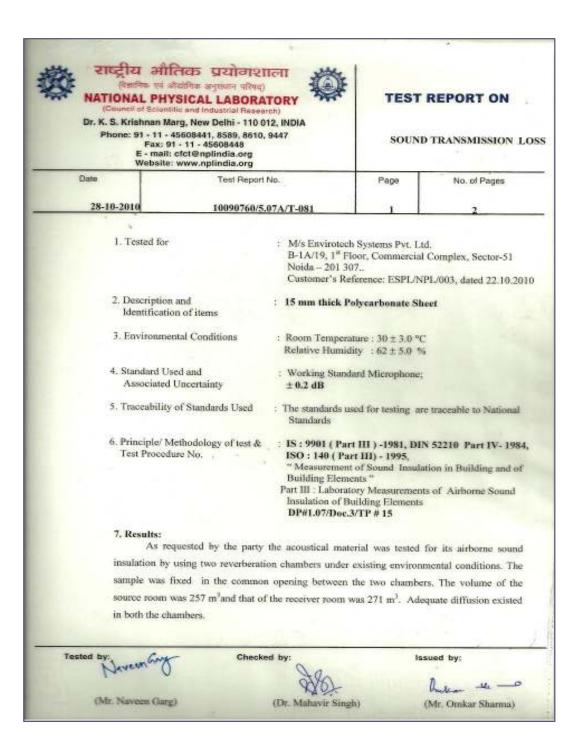








## **Quality Test of Polycarbonate Noise Barriers**





### राष्ट्रीय भौतिक प्रयोगशाला



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### TEST REPORT ON

SOUND TRANSMISSION LOSS

	44.0-0-0-0	e. manufammond						
Date		Test Report No.	Page	No. of Pages	-			
28-10-7	2010	10090760/5.07 A/T-081	2	2				

Using filtered noise in one-third octave band the air- borne sound insulation index was evaluated by measuring the average sound pressure levels generated in the source room and the receiver room and by measuring the equivalent absorption in the receiver room. The results are given below:

One-third Octave Band Centre Frequency Hz	Airborne Sound Insulation Index dB	
100	01	
125	03	
160	07	
200	12	
250	12	
315	15	
400	13	
500	17	
630	19	
800	21	
1000	23	
1250	24	
1600	25	
2000	26	
2500	27	
3150	27	
4000	25	

Using the standard reference curve the sound transmission class, STC, was found to be 21. The evaluated uncertainty in measurement is ± 1 dB which is at a coverage factor k=2 which corresponds to a coverage probability of approximately 95% for a normal distribution.

8. Date of Testing

: 25-10-2010

9. Remarks

: Nil

ween hong

Checked by:

Issued by:

(Mr. Naveen Gung)

( Dr. Mahavir Si

(Mr. Omkar Sharma)



