

North - Stretch NRC achieves 0.9 CPWD conducts independent tests at NPL for IIT Jodhpur



श्री एन आई एल - राष्ट्रीय भौतिक प्रयोगशाला CSIR-NATIONAL PHYSICAL LABORATORY <small>(Central Institute of Scientific and Industrial Research)</small> At 4, 18, 32, 48, 64, 80, 96, 112, 128, 144, 160, 176, 192, 208, 224, 240, 256, 272, 288, 304, 320, 336, 352, 368, 384, 400, 416, 432, 448, 464, 480, 496, 512, 528, 544, 560, 576, 592, 608, 624, 640, 656, 672, 688, 704, 720, 736, 752, 768, 784, 800, 816, 832, 848, 864, 880, 896, 912, 928, 944, 960, 976, 992, 1008, 1024, 1040, 1056, 1072, 1088, 1104, 1120, 1136, 1152, 1168, 1184, 1200, 1216, 1232, 1248, 1264, 1280, 1296, 1312, 1328, 1344, 1360, 1376, 1392, 1408, 1424, 1440, 1456, 1472, 1488, 1504, 1520, 1536, 1552, 1568, 1584, 1600, 1616, 1632, 1648, 1664, 1680, 1696, 1712, 1728, 1744, 1760, 1776, 1792, 1808, 1824, 1840, 1856, 1872, 1888, 1904, 1920, 1936, 1952, 1968, 1984, 2000, 2016, 2032, 2048, 2064, 2080, 2096, 2112, 2128, 2144, 2160, 2176, 2192, 2208, 2224, 2240, 2256, 2272, 2288, 2304, 2320, 2336, 2352, 2368, 2384, 2400, 2416, 2432, 2448, 2464, 2480, 2496, 2512, 2528, 2544, 2560, 2576, 2592, 2608, 2624, 2640, 2656, 2672, 2688, 2704, 2720, 2736, 2752, 2768, 2784, 2800, 2816, 2832, 2848, 2864, 2880, 2896, 2912, 2928, 2944, 2960, 2976, 2992, 3008, 3024, 3040, 3056, 3072, 3088, 3104, 3120, 3136, 3152, 3168, 3184, 3200, 3216, 3232, 3248, 3264, 3280, 3296, 3312, 3328, 3344, 3360, 3376, 3392, 3408, 3424, 3440, 3456, 3472, 3488, 3504, 3520, 3536, 3552, 3568, 3584, 3600, 3616, 3632, 3648, 3664, 3680, 3696, 3712, 3728, 3744, 3760, 3776, 3792, 3808, 3824, 3840, 3856, 3872, 3888, 3904, 3920, 3936, 3952, 3968, 3984, 4000, 4016, 4032, 4048, 4064, 4080, 4096, 4112, 4128, 4144, 4160, 4176, 4192, 4208, 4224, 4240, 4256, 4272, 4288, 4304, 4320, 4336, 4352, 4368, 4384, 4400, 4416, 4432, 4448, 4464, 4480, 4496, 4512, 4528, 4544, 4560, 4576, 4592, 4608, 4624, 4640, 4656, 4672, 4688, 4704, 4720, 4736, 4752, 4768, 4784, 4800, 4816, 4832, 4848, 4864, 4880, 4896, 4912, 4928, 4944, 4960, 4976, 4992, 5008, 5024, 5040, 5056, 5072, 5088, 5104, 5120, 5136, 5152, 5168, 5184, 5200, 5216, 5232, 5248, 5264, 5280, 5296, 5312, 5328, 5344, 5360, 5376, 5392, 5408, 5424, 5440, 5456, 5472, 5488, 5504, 5520, 5536, 5552, 5568, 5584, 5600, 5616, 5632, 5648, 5664, 5680, 5696, 5712, 5728, 5744, 5760, 5776, 5792, 5808, 5824, 5840, 5856, 5872, 5888, 5904, 5920, 5936, 5952, 5968, 5984, 6000, 6016, 6032, 6048, 6064, 6080, 6096, 6112, 6128, 6144, 6160, 6176, 6192, 6208, 6224, 6240, 6256, 6272, 6288, 6304, 6320, 6336, 6352, 6368, 6384, 6400, 6416, 6432, 6448, 6464, 6480, 6496, 6512, 6528, 6544, 6560, 6576, 6592, 6608, 6624, 6640, 6656, 6672, 6688, 6704, 6720, 6736, 6752, 6768, 6784, 6800, 6816, 6832, 6848, 6864, 6880, 6896, 6912, 6928, 6944, 6960, 6976, 6992, 7008, 7024, 7040, 7056, 7072, 7088, 7104, 7120, 7136, 7152, 7168, 7184, 7200, 7216, 7232, 7248, 7264, 7280, 7296, 7312, 7328, 7344, 7360, 7376, 7392, 7408, 7424, 7440, 7456, 7472, 7488, 7504, 7520, 7536, 7552, 7568, 7584, 7600, 7616, 7632, 7648, 7664, 7680, 7696, 7712, 7728, 7744, 7760, 7776, 7792, 7808, 7824, 7840, 7856, 7872, 7888, 7904, 7920, 7936, 7952, 7968, 7984, 8000, 8016, 8032, 8048, 8064, 8080, 8096, 8112, 8128, 8144, 8160, 8176, 8192, 8208, 8224, 8240, 8256, 8272, 8288, 8304, 8320, 8336, 8352, 8368, 8384, 8400, 8416, 8432, 8448, 8464, 8480, 8496, 8512, 8528, 8544, 8560, 8576, 8592, 8608, 8624, 8640, 8656, 8672, 8688, 8704, 8720, 8736, 8752, 8768, 8784, 8800, 8816, 8832, 8848, 8864, 8880, 8896, 8912, 8928, 8944, 8960, 8976, 8992, 9008, 9024, 9040, 9056, 9072, 9088, 9104, 9120, 9136, 9152, 9168, 9184, 9200, 9216, 9232, 9248, 9264, 9280, 9296, 9312, 9328, 9344, 9360, 9376, 9392, 9408, 9424, 9440, 9456, 9472, 9488, 9504, 9520, 9536, 9552, 9568, 9584, 9600, 9616, 9632, 9648, 9664, 9680, 9696, 9712, 9728, 9744, 9760, 9776, 9792, 9808, 9824, 9840, 9856, 9872, 9888, 9904, 9920, 9936, 9952, 9968, 9984, 10000.		whereof (if any)	TEST REPORT
Sound Absorbing Material Project Name: North - Stretch NRC, CPWD, IIT Jodhpur Project Sub-division: CPWD, Jodhpur Project Location: Jodhpur Project Address: Jodhpur Project Contact: Jodhpur Project Phone: Jodhpur Project Email: Jodhpur Project Date: 24.01.2019	whereof (if any)	TEST REPORT	
1. Tested for 1.1. CPWD, IIT Jodhpur Project Sub-division: CPWD, Jodhpur Project Location: Jodhpur Project Address: Jodhpur Project Contact: Jodhpur Project Phone: Jodhpur Project Email: Jodhpur Project Date: 24.01.2019	whereof (if any)	TEST REPORT	
2. Description and Identification of Items 2.1. Acoustic Stretch NRC, CPWD, IIT Jodhpur 2.2. Acoustic Stretch NRC, CPWD, IIT Jodhpur 2.3. Acoustic Stretch NRC, CPWD, IIT Jodhpur 2.4. Acoustic Stretch NRC, CPWD, IIT Jodhpur 2.5. Acoustic Stretch NRC, CPWD, IIT Jodhpur 2.6. Acoustic Stretch NRC, CPWD, IIT Jodhpur 2.7. Acoustic Stretch NRC, CPWD, IIT Jodhpur 2.8. Acoustic Stretch NRC, CPWD, IIT Jodhpur 2.9. Acoustic Stretch NRC, CPWD, IIT Jodhpur 2.10. Acoustic Stretch NRC, CPWD, IIT Jodhpur	whereof (if any)	TEST REPORT	
3. Environmental Conditions 3.1. Room Temperature: 20.0 ± 5 °C 3.2. Relative Humidity: 50.0 ± 20 %RH 3.3. Working Standard Microphone, 4 ± 0.2 dB	whereof (if any)	TEST REPORT	
4. Standards used and Associated Uncertainty 4.1. The standards used for testing are traceable to National Standards	whereof (if any)	TEST REPORT	
5. Traceability of Standard Used 5.1. The standards used for testing are traceable to National Standards	whereof (if any)	TEST REPORT	
6. Principle/Methodology of Testing and Test Procedure 6.1. Sound absorbing coefficient by diffuse field method: IS: 825-1987 "Measurement of Sound Absorption Coefficient in Reverberation Room" (Equivalent to ISO: 1584:2003 and ASTM 423-90) Sub-Dir # 3.07/A (Rev. 3) TP 9.14	whereof (if any)	TEST REPORT	
7. Results: As reported by the party, the material was tested only for its sound absorption coefficient by reverberation method as per IS: 825-1987 under existing environmental conditions in a reverberation chamber of volume 271 m ³ , surface area 240 m ² and average reverberation time of 6 sec. The chamber was of irregular shape and adequate diffusion was obtained by using suspended ordinary diffusers.	whereof (if any)	TEST REPORT	
whereof (if any) (Dr. T. K. Yadav)	whereof (if any) (Dr. T. K. Yadav)	whereof (if any) (Dr. T. K. Yadav)	



Requirements

The brief to the architect from the client was for modern lecture halls for engineering students that are fully compliant for acoustics. The project managers, CPWD, required 100% conformance to building codes and acoustic performance criteria

Solutions

Along with Anutone, the architects designed Stretch NRC engineered systems so as to achieve 0.9 values and ensure optimized Reverberation Time (RT60) suitable for the spoken word during lectures. CPWD maintained a vigilant eye all through the supply and installation phase.

Outcomes

CPWD independently conducted a surprise test on Stretch NRC at NPL New Delhi (best in India for acoustics testing) replicating the site installation in the Reverb Lab. Everyone was pleased with the 0.9 result which was proven at site with echo-free interiors. Client is happy students can enjoy clarity in lectures.

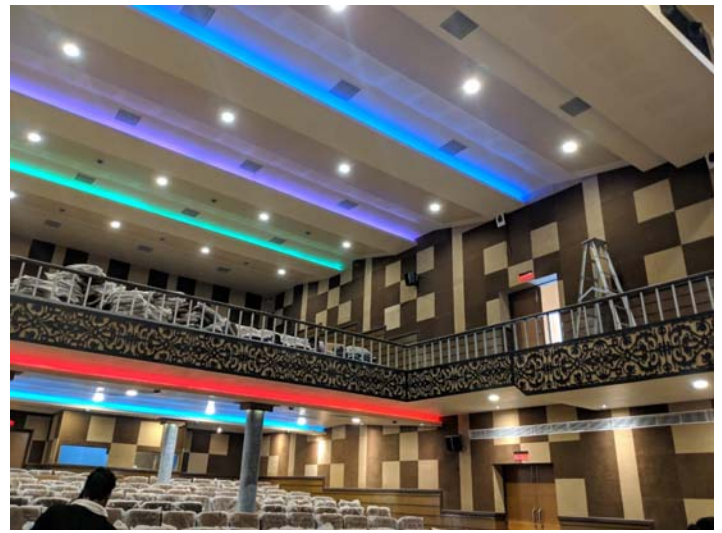
Fact File

Indian Institute of Technology Jodhpur [IITJ] | www.iitj.ac.in | Place - Jodhpur, Rajasthan | Segment - **Education** | Architect - Sikka Associates, New Delhi | Consultant - Maple, New Delhi | Contractor - NCC, Hyderabad | Dealer and Installer - Rishabhdev International, Jodhpur | Products - Stretch NRC System consisting of Strut CC, Strand Primer, Strut FS15, Synth PF, Stick S7, Spun NRC

East - More than just an airport

Dum Dum made famous by Kolkata airport gets a new jewel





Requirements

Dum Dum Municipality's crowning achievement is undoubtedly this public multipurpose auditorium that required state-of-the-art audio-video and acoustics

Solutions

Anutone and Satellite came up with a mix of acoustical panels for ceiling and panelling that had to satisfy the twin requirements of acoustics for audio and aesthetics for visual

Outcomes

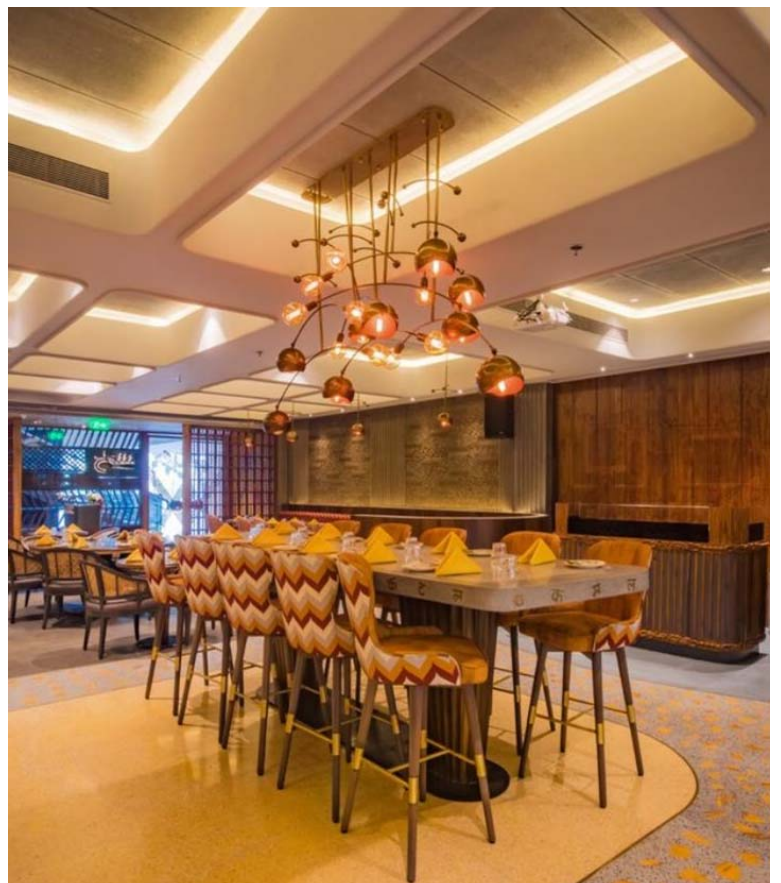
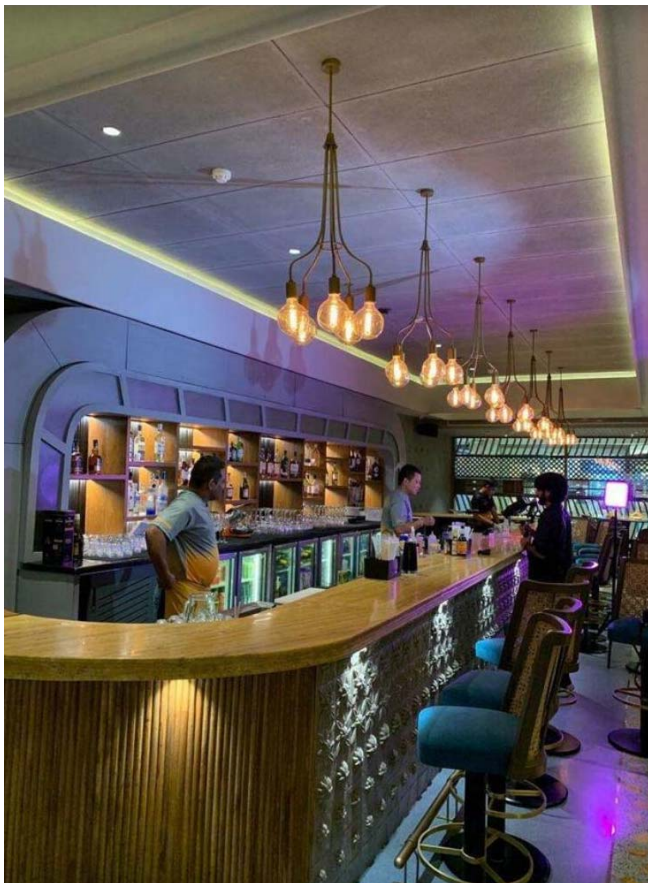
A modern performing space that is a delight to the performer and the patron

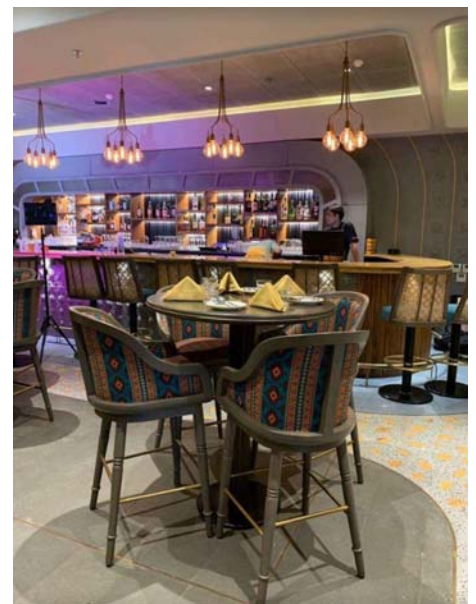
Fact File

Dum Dum Municipality | www.dumdummunicipality.co.in | Place - Kolkata | Segment - **Auditorium** | Dealer and Installer - Satellite Electronics | Products - Subtex Nubby, Tufbloc Wud, Tufbloc HDFS, Cosmos (inset), Pixel 0308, Strand Primer, SynthPF

West - Acoustics for the hip hop

A modern fine dining opts for Mat Solo as focal acoustics





Requirements

Talli Turmeric the Indian restaurant at the upscale Atria Mall in Worli was being built for the discerning customer who was well travelled, well heeled. The architect had a vision of providing sophisticated interiors but with acoustics built-in unobtrusively.

Solutions

The architect chose Mat Solo from Anutone's wide array of acoustical panels for its simplicity and elegance. Mat Solo is a very effective sound absorber and does so silently in the background

Outcomes

Restaurants are usually cacophonous but Talli Turmeric is an oasis of serenity where diners unwind and enjoy some very fabulous food in a quiet, relaxed ambience

Fact File

Talli Turmeric | talli-turmeric.business.site | Place - Worli, Mumbai | Segment - **Restaurant** | Architect - Sumesh Menon Associates, www.sumeshmenonassociates.com | Dealer and Installer - A Ravi Corporation | Anutone Products - Mat Solo

South - Soundproof a national priority

A quiet cafe for a premier government institution





Requirements

Coffered ceiling due to waffle slab poses its own issues for aesthetic and acoustic treatment and hence the architects wanted a unique win-win for their clients. Cafeterias are usually reverberant and noisy but the need was for quietness and fortitude as employees and visitors lounge through the day

Solutions

For the ceiling the architects opted for Subtex KSL which has a unique microperforated microtextured vinyl surface finish, just perfect for a cafeteria environment and for the walls they opted for one of Anutone's most successful products - Slats Surco.

Outcomes

Subtex KSL panels sit cosy in the waffle slab and absorb most of the sound waves that strike incident to their surface whereas the Slats Surco provide gentle sound diffusion and absorption. A perfect hang out joint to while away time or to have quick, short conversations.

Fact File

National Center For Biological Sciences [NCBS] | www.ncbs.res.in | Place - Bengaluru, Karnataka | Segment - **Office** [Cafeteria] | Architect - Vivek Naik, Kavinde Rai & Chowdhury | Dealer and Installer - Theju Interiors | Anutone Products - Subtex KSL, Slats Surco

Central - A landmark monument

Vidisha gets a cultural icon





Requirements

A cultural landmark for Vidisha can only want to be the best to become an icon for millenials with passage of time. Architect Shailendra Sharma too wanted a definitive monument for the region with cutting edge solutions for sound, light, stage, seating and decor.

Solutions

The architect wanted a white seamless ceiling for sound absorption and light reflection and so chose Pixel 0308. For a rich yet warm feel that aids sound absorption and diffusion the architect chose Slat Surco for the panelling

Outcomes

The citizens of Vidisha can be proud of a landmark monument that will make history with scintillating performance and in no time become the cynosure of all eyes in the region.

Fact File

Rabindranath Tagore Sanskriti Bhawan | Place - Vidisha, Madhya Pradesh | Segment - Auditorium [Cultural] | Architect - Shailendra Sharma, Bhopal | Dealer and Installer - Home Decor, Bhopal | Anutone Products - Slat Surco, Pixel 0308, Strand

50+ years of manufacturing excellence and acoustical passion

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