

in association with
Owens Corning USA

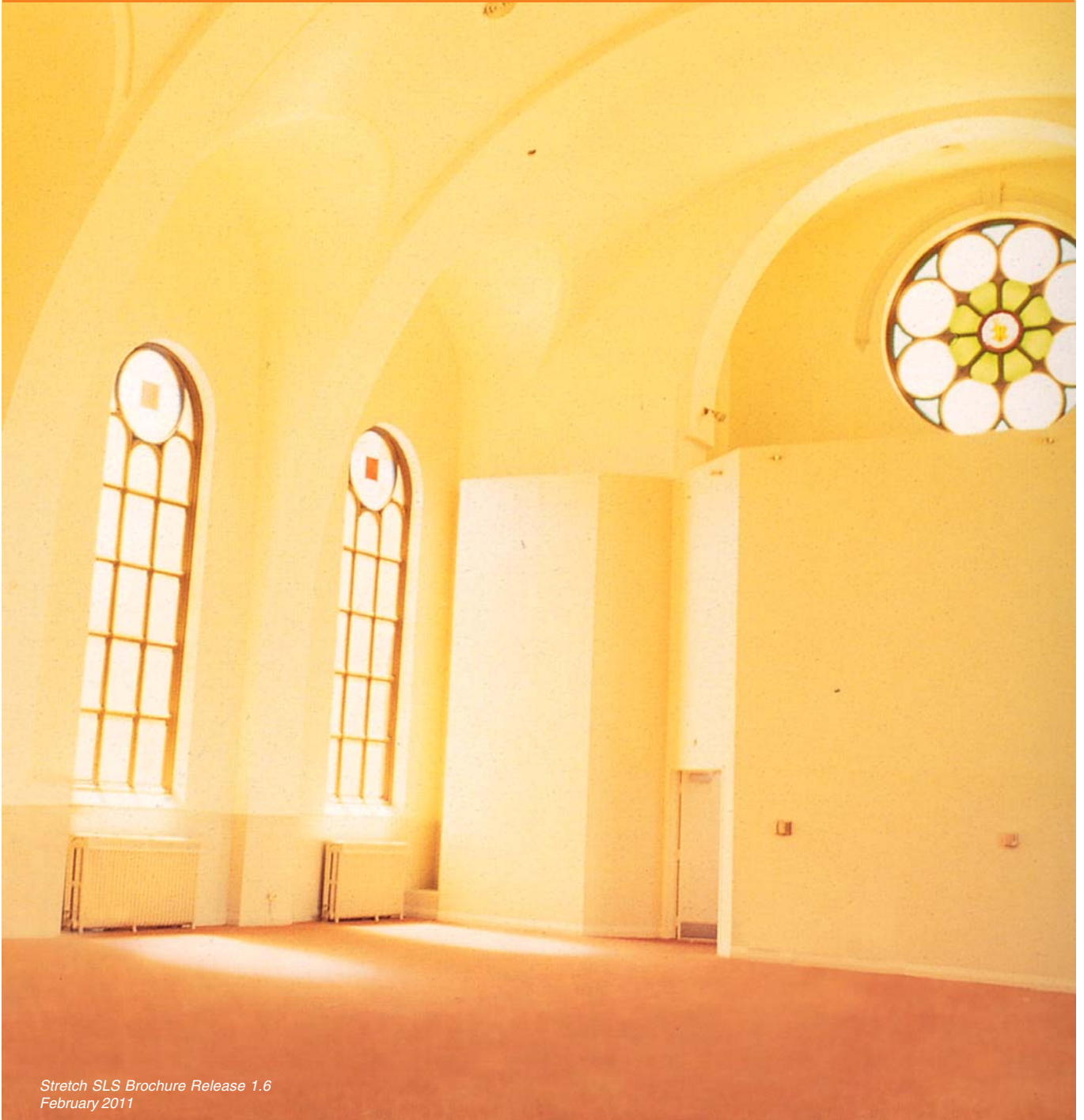


anutone[®]
makes you feel good[™]

Stretch SLS

WIDESPAN INTERIOR SOLUTIONS FOR FLAT & CURVED SURFACES

www.anutone.com/stretchsls.htm





Stretch Your Imagination

Have you ever imagined a textile material turning an otherwise coarse and rough interior surface transmit soft lighting, sound good and also pose amazing looks? Have you ever wondered the textile material transforming the otherwise flat or curved ceiling into a harmonic overhead cloud that accentuates the interiors into an entirely new, inviting ambience? Have you ever tried exploring the unbounded horizon of textile-treated interiors to unveil unbelievably wonderful ambiences? Come! Stretch your imagination! Explore the universe of textile-induced creative choices, that are widespan, in the truest sense of the word, and can look like plasterboard, to make the living world incredibly enlivening with form and function!

Introducing the Stretch SLS system, brought to you by Anutone India, in association with Owens Corning, USA, unfolding the fascinating world of fabrics - to excite the imaginative capabilities of designers, to meet the techno-economic requirements of consultants, to ease the arduous risks of installers, and, to bring the collective benefits to the space owners / users. Interior space design will never be the same again.

Key Attributes

The Stretch SLS is a complete system that can redefine practically any interior ambience by virtue of its visually aesthetic and functionally acoustic credentials. It essentially consists of four elements:

- High-performance integrated core with a white matte face covering
- A unique tensioning track arranged around the perimeter of the core
- Acoustically-transparent textile, stretched over areas of five metres wide and held by the track
- System installation by certified system professionals.

The result is a monolithic surface with outstanding acoustical properties.

Stretch SLS System merges unobtrusively with the interior design just as it blends perfectly with the architect's imagination and the building owner's needs.

Any Surface, Any Space

Stretch SLS enables architects weave any speciality design into any space, exploring their creative abilities. It can be laterally suspended in natural white textiles to give a clean, unobtrusive acoustically transparent finish. Flat, domed or coffered ceilings, custom floating clouds or high walls in any commercial or institutional environment can be beautifully as well as functionally designed.

Large Format

With Stretch SLS system, spaces of maximum 5 x 25m (125m²!) can be covered seamlessly in a single span. Larger areas can be spanned almost invisibly. Moreover, reveals can be specified to highlight the edges.

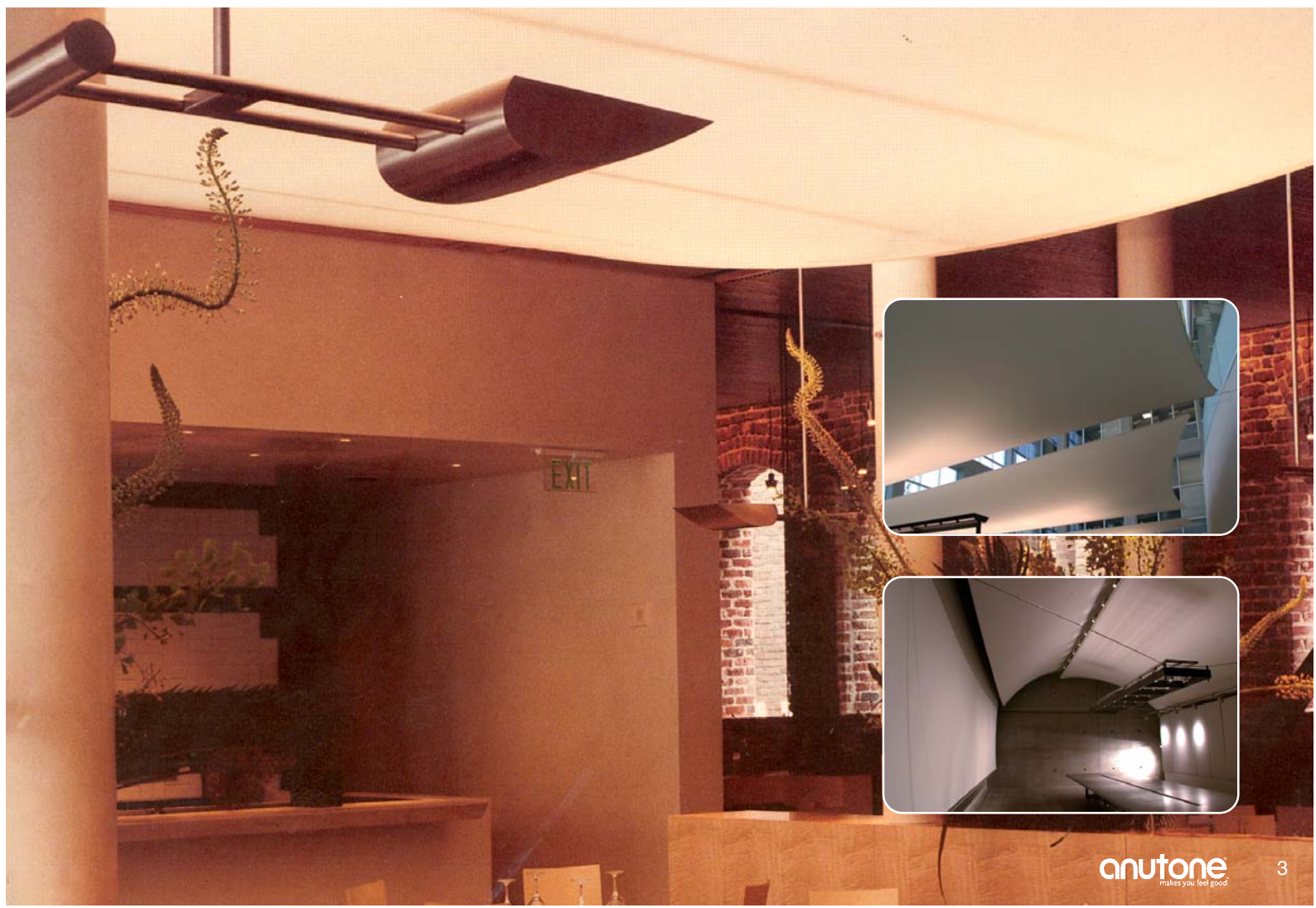
Stretched Interior Systems

The Stretch SLS system is constructed at site to accommodate various field conditions allowing a wide variety of fabrics to be stretched over acoustical substrates. The flexibility lets the installer work precisely around acute and obtuse angles, out of plumb conditions, and curved walls. The fabric is securely tucked and tensioned into the locking jaws of a concealed track at the perimeter and the panel joints.

Complete Versatility

The Stretch SLS special textile uses a locking knit-weave technique that ensures textile integrity over the entire stretched surface. This means cutting out for vents, lights, sprinklers and other penetrations are never a problem.

Textile choices include popular white or custom special-order colours (beige and black). White textile can even be *field painted*, using our special colourants, if desired.



Fascinating Form n Function

The Stretch SLS system is a fascinating combination of form and function. Complementing the visually beautiful speciality fabric is the accompaniment of 25mm to 50mm of acoustical substrates that come with an NRC rating up to 1.00 plus. The fabric is acoustically transparent, a characteristic that allows loudspeakers to be cleverly hidden from view without inhibiting sound clarity.

Eco-friendly

That the standard white textile also comes with a light reflectance of 0.75 to 0.80, makes it all the more fascinating option in terms of eco-friendliness. It does not require high lighting systems, helping lower energy consumption and reducing the carbon footprint.

Easy Maintenance

The Stretch SLS system is one of the most easy systems to maintain a beautiful ceiling or wall. The textile can simply be vacuumed, and regular cleaning agents can be employed for spot removal. If needed, the textile can even be removed, cleaned and reinstalled.

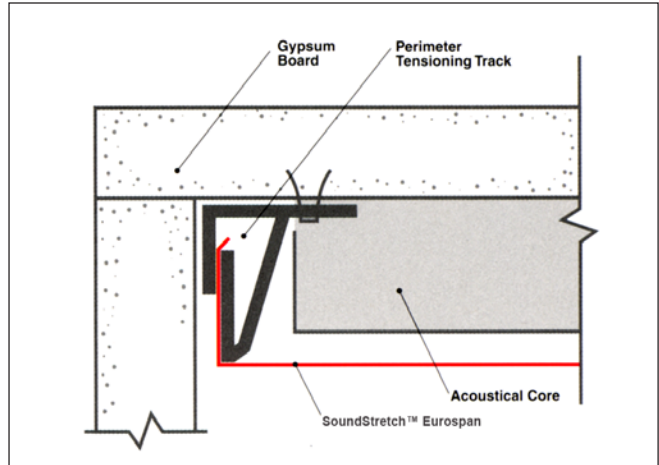
Unprecedented Warranty

One of the most arresting features of the Stretch SLS system is an unprecedented 10 year warranty. It is guaranteed not to wrinkle or sag due to heat, humidity or aging for a full 10-year period. This means an unprecedented economy too since it saves costs on repairs and replacements for a full decade.

Proven Technology From Proven Leaders

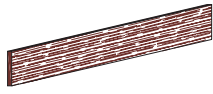




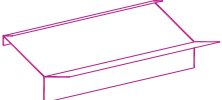

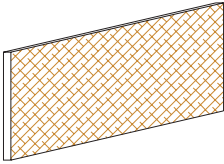
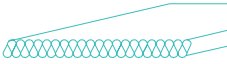
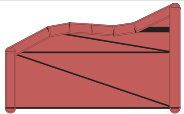

That the Stretch SLS system is brought to the industry by two of the most trusted technology leaders makes it all the more reliable. While Anutone Acoustics Limited has emerged to be the most dynamic design-supply-build solutions leader, Owens Corning has an acclaimed history of over 25 years for highly functional and elegant speciality interior solutions.

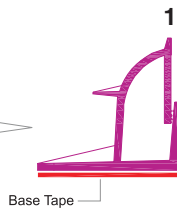
The domain expertise gained over the years enables Anutone to offer complete installation by certified professionals. Extensive experience complimented by special training helps complete the install with minimal mess but optimal efficacy.



Architectural Specifications

GENERAL

ACCESSORIES		
①	SB 10	
②	SoundStitch Metal Fasteners (M10x25)	
③	SoundStretch Eurospan Perimeter half-wrap Tracks	
	SoundStretch Eurospan Perimeter full-wrap Tracks	
	SoundStretch Eurospan Mid-Seam Tracks	
	SoundStretch Eurospan Outer Corner Tracks	
④	SoundStitch Staple	
⑤	Acoustic Core Panel	
⑥	SoundSynth AW	
⑦	Eurospan SLS	
⑧	SoundStick S7	



1.01 Scope

A. Supply and install Stretch SLS Ceiling System as manufactured by Anutone Acoustics Limited Bangalore – India and as required by the Contract Document.

B. Related Work Elsewhere

1. Preparation of smooth, flat and plumb substrate.
2. Architectural Woodwork, Masonry, Doors and Frames, Hardware, Gypsum Drywall, Plastering, Ceilings, Wall Covering Painting and Electrical Work.

1.02 Standards

A. The Stretch SLS Ceiling System Textile shall have a fire hazard classification of Class A / Class I per ASTM E84 with flame spread of 0 and smoke density of 5.

B. Stretch System – Assembly Test –Class A /Class I per ASTM E84 with a flame spread of 5 and smoke density of 35 installed on gypsum board.

1.03 Qualifications

The installation work of this section shall be performed by an authorized applicator, licensed by the manufacturer.

1.04 Quality Assurance

A. The SLS fabric is then aligned to the Stretch Tracks by following the fabric thread line or pattern. The SLS fabric is stuck on the alignment tape (by removing the protective cover) and the same being stretched and tucked into the Stretch Tracks.

B. The fabric border shall be inserted completely into the clamping jaws of the Stretch Track framework creating a clean crisp appearance devoid of raw edges or loose threads

C. The fabric shall be installed from the face side after the framework is securely fastened to insure perfect horizontal and vertical grain alignment

D. The fabric shall be removable and replaceable for changeability and to provide access to the surface behind the fabric

F. The framework shall not *read through* the fabric

G. Acoustical core shall be installed beneath the face fabric in the event a translucent fabric has been specified

H. Noise Reduction Coefficient of 0.80 as per ASTM C423 A mounting or 1.00 in E-400 mounting (25 thick acoustic infill) or as specified shall be ensured



1.05 Submittal

- A. Product Data
Submit manufacturer's product specifications including certified laboratory test reports and other data required to show compliance with these specifications
- B. Samples
Provide 300 x 300mm samples of fabric, and representative samples of rigid plastic mounting devices
- C. Certified Test Reports
Submit test data from an independent testing agency, acceptable to authorities having jurisdiction, evidencing that systems components comply with requirements indicated for fire performance characteristics. Submit test data from independent testing agencies showing that system complies with the specified requirements for acoustical performance
- D. Submit installation dealer's Limited Warranty against defects in the SoundStretch Track materials and workmanship

1.06 Product Handling

- A. Store all materials off the ground and protected from dirt and dust of construction operations
- B. Handle materials in a manner that will protect them from damage and soiling

1.07 Product Drawings

- A. Drawings showing typical reflected ceiling plan, sectional views and details are to be submitted to the architect/designer

1.08 MAINTENANCE

- A. Extra Stock: Matching replacement stock of Stretch SLS, as requested by the owner, shall be maintained as extra stock to meet exigencies.

PRODUCTS

2.01 Acoustical or Tackable Wall Treatment System

- A. The system shall consist of site installed and fabricated, concealed Stretch SLS system as manufactured by Anutone Acoustics Limited
Contact Details of Manufacturer / Authorized Dealer
The System Components shall consist of the following
- 1. Rigid vinyl framework with clamping jaws, as indicated in drawings (Select correct thickness below, eliminate others not used)
Stretch SLS System is available with the following profiles. (Select the correct profile below) – Height of tracks is 38mm
 - a. Perimeter Track half wrap
 - b. Perimeter Track full wrap

- c. Mid Seam Track
- d. Outer corner Track

Stretch SLS System is available with the following sub-surfaces (underlay).

- a. 15mm AnutoneSmooth with 25mm AnutoneSynth
- b. 30mm AnutoneSmooth with 10mm AnutoneSynth

Fabric

1. Stretch SLS Ceiling Textile, in a standard white or custom colour, as supplied by Anutone Acoustics Limited
2. Fire Hazard Classification: Independently tested as Class A per NFPA or Class I per UBC with a flame spread index of 0 and smoke developed of 5 as per ASTM E84 test procedure.
Fabric shall be a stretch type that is capable of elongating 25 percent and have the ability to stretch in a horizontal plane with maximum deflection less than one inch in a 5m span.
3. Fabric shall be available in a maximum width of 5m. The fabric shall be spot-cleanable and dry-cleanable.
4. The standard colour of the fabric is white with minimum light reflectance of 0.75. The fabric shall be of a fibre-content and locking weave so as not to be affected by heat or humidity for the life of the installation.
5. Acoustical Core: Standard system consists of 10x25mm thick Synth PF. Other cores with various thickness and densities are available to meet specific acoustical requirements.
6. Stretch SLS Ceiling System fabric mounting devices are nominal 38mm rigid FR-PVC high strength extrusions produced in perimeter and midseam tracks.
7. Perimeter track is available in square or bevel. Exposed edges selectively covered with matching fabric or painted to match the fabric.
8. Midseam Track available:
 - a) Square
 - b) Flexible- for achieving curved lines, or conforming to concave or convex surfaces
 - c) Capability to install vertical and/or horizontal panels continuously without joints
 - d) When core material is thicker than track profile, SB10 is used prior to mounting the track
 - e) If the edges of this AnutoneBase is exposed they shall be finished with the AnutoneStretch SLS or painted as specified.
9. Anchoring System: Stapler that has mechanical ability to diverge staples for attaching extrusions, 18 gauge wire size. Other fastening systems, approved by manufacturer may be used.

EXECUTION

3.01 EXAMINATION

- A. Examine the condition of the substrate and the conditions under which the work of this section is to be performed. Notify the contractor in writing of any unsatisfactory conditions. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner satisfactory to the installer.
- B. Field measure each ceiling area which is to receive the Stretch SLS ceiling system to establish the correct layout.

3.02 INSTALLATION

General

- A. Install materials in accordance with manufacturer's instructions, and comply with governing regulations, fire resistance rating requirements, as indicated, and industry standards applicable to the work.
- B. Apply the Stretch track mounting system to surfaces that are to receive the treatment. Secure with pneumatic stapler using 25mm staples spaced on 50mm centres.

Other fasteners may be used as may be required for specific substrates, provided they are in strict accordance with the manufacturer's instructions and comply with the governing regulations and fire-resistance rating requirements specified.
- C. Install Tracks system level and straight, flush and in proper alignment.
- D. Install the acoustical core material, continuous and flush to the edge of the track in largest sizes practical and secure in place with a suitable adhesive or

staples. If the fabric is to be closer than 6mm to the core then the joints shall be caulked and/or a white scrim or lining shall be used to prevent *read through*. The scrim or lining shall not inhibit the acoustical performance of the system and meet all the necessary fire safety code requirements.

- E. Shop cut the Stretch SLS fabric slightly oversized for each area to be covered. Label each piece and package in clean containers for transportation to job site. Larger projects may require full rolls to be shipped to the job site where a clean cutting and staging area must be maintained.
- F. Stretch the fabric and secure into the locking jaws so that it will be smooth, free of wrinkles or puckers. Trim off excess fabric at perimeter and tuck remaining material into storage channel of the extrusion.
- G. Examine fabric as it is installed for damage, imperfections, and soiling. Notify other trades to use care in working around the installed Stretch SLS fabric so as not to soil or damage the surface.

3.03 CLEANING AND PROTECTION

- A. Clean exposed surfaces of ceiling surface as necessary. Comply with manufacturer's instructions for cleaning and repair of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.
- B. The Installer shall advise the contractor on required protection, including soiling from other trades and dust control, so that the work will be without damage and deterioration at the time of acceptance by the owner.

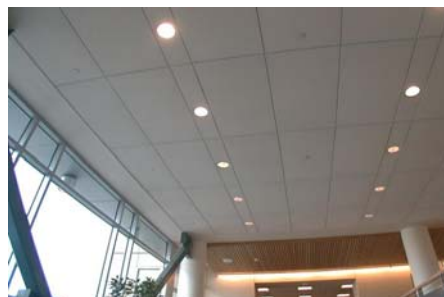
Tender Specifications

Supply and installation of Stretch SLS system, consisting of SoundBase (SB) of 10mm thick, rigid vinyl Stretch Tracks, core material and textile.

AnutoneBase AB10 is first installed on the masonry wall /CC25 by using Stich fasteners at every 300mm centres in a staggered pattern. AB10 shall be fixed at 5000mm centre. Stretch Tracks are then installed on AB10 by using Stich heavy-duty diverging staples at every 25mm centres on both sides of Stretch Tracks.

Install Strand core first between AB10 by using Stich fasteners and Synth PF is then friction fitted with light spots of Stick S7. The adhesive spots can be 50mm dia dabs at 300mm centres.

SLS fabric is then aligned to the Stretch tracks by following the fabric thread line or pattern. The SLS fabric is stuck on the alignment tape (by removing the protective cover) and the same being stretched and tucked into the Stretch tracks.



References

Office

- Anderson Consulting (Houston, TX)
Conference Room
- Architect's Office (Salt Lake City, UT)
Open Office Ceilings
- AT & T (Denver, CO)
Network Control Center
- Bank of Broomfield (Broomfield, CO)
Lobby Barrel Vault Ceiling
- Adobe Software (San Jose, CA)
Lobby
- Altera Software (San Jose, CA)
Boardroom Lobby
- Bank of Longmont (Longmont, CO)
Lobby Barrel Vault Ceiling
- Bank of Louisville (Louisville, CO)
Lobby Barrel Vault Ceiling
- Blue Shield of California (Lodi, CA)
Cafeteria Areas
- Capital Group (San Francisco, CA)
Open Office Clouds
- Compaq Computer (TX)
Conference Rooms
- Coppers & Lybrand (Los Angeles, CA)
Reception
- Fox TV (Los Angeles, CA)
Boardroom
- GAP (San Bruno, CA)
Executive Conference
- GAP Clothing, Inc. (San Bruno, CA)
Corporate Hdqts., Lobby, Cafeteria,
Open Offices
- Genetech (South San Francisco, CA)
Open Office Area
- Harrah's (New Orleans, LA)
Smuggler's Court Mural Wall
- Hearst Argyle TV (New York, NY)
Conference Room
- KMPG Peat Marwick (Houston, TX)
Lobby, Reception, Conference Area
Ceilings
- Lucent Technologies (Denver, CO)
Control Center Ceiling
- Metro National Bank (Houston, TX)
Reception Lobby Ceiling
- Microsoft Corporation (Redmond, WA)
Cafeteria Area Ceiling
- Nations Banc – Montgomery
Securities (San Francisco, CA)
Trading Floor Ceilings
- Oracle (Washington, D.C.)
Corridor Ceilings
- Packard Foundation (Mountain
View, CA)
Conference and Meeting Room
- Paine Webber (New York, NY)
Stock Trading Rooms, Conference
Rooms
- Penzoil (Houston, TX)
Reception, Lobby Ceiling
- Pilsbury, Madison, Sutro
(Palo Alto, CA)
Open Office Area, Conference Area
- Robertson & Stephens (San
Francisco, CA)
Elevator Lobby Ceiling
- Charles Schwabb (San Francisco, CA)
Executive Conference Room



- Telluride Conference Center (Telluride, CO)
Meeting Rooms
- Thomas Weisel Partners (San Francisco, CA)
Trading Floor Ceiling Clouds
- Underwriters Reinsurance (Ventura, CA)
Lobby and Conference Ceiling Clouds

Auditoria

- Center for Employment Training (San Jose, CA)
Auditorium
- Martin Luther King Plaza (Oakland, CA)
Auditorium Ceiling
- San Jose County Government (San Jose, CA)
Auditorium
- University of Colorado (Boulder, CO)
Geological Sciences Building
Auditorium

Lounge Bars

- Flagstaff Restaurant (Boulder, CO)
Lounge Area Ceiling
- Beau Rivage (New Orleans, LA)
Brew Pub

Retail Malls

- Ala Moanna Mall (Honolulu, HI)
Makai Market Food Court
- Beau Rivage (New Orleans, LA)
Showroom
- Chicago Symphony (Chicago, IL)
Retail Store Ceiling, Floating Clouds

Education

- Brigham Young University (Provo, UT)
Wilkinson – Commons
- Burlingame Public Library (Burlingame, CA)
Upper Wall, Reading Room
- Carmel Clay Library (Carmel, IN)
Ceilings, Reading Rooms
- Colorado State University (Ft. Collins, CO)
Ammons Hall
- Danville Library (Danville, CA)
Main Entry
- Duchesne Academy (Houston, TX)
Wall Areas Over Diffuser and Speakers
- Hear Center (Pasadena, CA)
Training Room
- Mt. View Public Library (Mt. View, CA)
Lobby and Reading Rooms

- Old Town School of Fold Music (Chicago, IL)
Concert Hall Ceilings
- Stanford University (Palo Alto, CA)
Schwab Residential Dining Facility Walls
- U. S. Senate Building (Washington, D.C.)
Russell Library
- The Academy (Boulder, CO)
Chapel Ceiling Coffers
- University of California, Davis (Davis, CA)
Lobby

Healthcare

- Bentley Health Care (New York, NY)
Reception Area, Conference Room
- St. Joseph's Hospital Chapel (Denver, CO)
Dome Ceiling

Hospitality

- Bayou Club (Houston, TX)
Banquet Room
- Boulder Ridge Country Club (Lake Forest, IL)
Banquet Rooms
- Drai's Restaurants (Beverly Hills, CA; Las Vegas, NV)
Coffered Ceilings
- Farallon Restaurant (San Francisco, CA)
Walls, Dining Area
- Filoli Garden Center (San Francisco, CA)
Visitor Center, Lobby Ceiling
- Francisca Club (San Francisco, CA)
Dining and Reception Area Ceiling
- Hodes (Venice, CA)
Boardroom
- Janesville Country Club (Janesville, WS)
Banquet Room
- Kaiser Permanente (San Francisco, CA)
Medical Offices, Lobby Area Ceilings
- MC2 Restaurant (San Francisco, CA)
Skylight Feature
- Oakmont Gardens (Santa Rosa, CA)
Dining Hall Ceiling
- Old Oak Country Club (Purchase, NY)
Club and Dining Room Ceilings
- Starwood "W" Hotel (San Francisco, CA)
Dining Room, Lobby Ceiling

Public Places

- Boise Art Center (Boise, ID)
Main Gallery
- Caesar's Palace (Las Vegas, NV)
Festival Fountain Dome
- King Country Justice Center (Seattle, WA)
Public Area, Dome
- McCarran Airport (Las Vegas, NV)
Children's Play Area Ceiling Clouds
- New Mexico Visitors Center (Farmington, NM)
Floating Ceiling Clouds
- Newseum (Arlington, VA)
Ceiling Clouds / Projection Wall
- Piute County Courthouse (Piute, UT)
Courtroom Ceiling
- Riverside Cty. Courthouse (Riverside, CA)
Courtroom Coffered Ceilings
- SPCA (San Francisco, CA)
Public Area Ceiling Clouds

Worship Place

- All Saints Church (Palo Alto, CA)
Sanctuary Ceiling and Walls
- Canaan Church (Menlo Park, CA)
Sanctuary Walls and Ceilings
- First Parish Church (Preston, MA)
Sloped Ceiling Sanctuary
- St. Andrew's Presbyterian Church (Tucson, AZ)
Sanctuary Wall
- United House of Prayer (Chicago, Seattle, Detroit)
Sanctuary Ceilings

Studio

- KRIV Fox TV (Houston, TX)
Newsroom Studio
- SFX Broadcasting (New York, NY)
Lobby Ceiling Areas

Homes

- Private Residence (Palo Alto, CA)
- Private Residence (Bedford, NY)
Dining Area
- Private Residence (Austin, TX)
Entertaining Area, Gymnasium
- Private Residence (Los Altos, CA)
Living Room Ceilings
- Private Residence (Malibu, CA)
Living Area, Exercise Room
- Private Residence (Sausalito, CA)
Living Area Ceilings
- Private Residence (Valencia, CA)
Home Theater

Technical Specifications

Sl#	Description	Stretch Eurospan SLS
1	Thickness (mm)	25 / 38
2	Size (mm)	(single span upto 5000 x 25000)
3	Core	Strand / Synth PF
4	Nominal Density (Kg/m ³)	NA
5	Weight (Kg/m ²)	NA
6	Edge	Square
7	NRC / STC	Upto 1.0
8	Fire	Class I
9	Moisture Resistance (%)	RH 90
10	Light Reflectance (%)	80
11	Warranty	5 years
12	Installation	Vinyl Tracks
13	Fabric Colour	White, Beige, Black or Custom
14	Maintenance	Vacuum

Bill of Quantities (BoQ) - 100m²

SI #	Description	Units	Stretch SLS False Ceiling - Vinyl Tracks
	Thickness / Edge	mm	38 / Square
1	Smooth	m ²	100
2	SB10	lm	50
3	Perimeter Track Half Wrap	lm	30
4	Perimeter Track Full Wrap	lm	10
5	Track Mid Seam	lm	10
6	Synth AW	m ²	100
7	Stick S7	Ltrs	35
8	Stitch Metal Fasteners (M10x25)	Nos	LS
9	Stitch Staple	Nos	LS
10	Fabric	-	100
11	Labour	hrs	4
	Estimated Installed Cost / m²	₹	

lm - Linear meter, m² - Square meter, Ltr - Litre, LS - LumpSum, hrs - Hours



* The above indicated values are very approximate and dependent on several variables. They are for guidance only and subject to change without prior notice.



'Stretch SLS as an energy saving light reflector – Era Architects office, Mumbai, India

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ANUTONE WALLS & CEILINGS

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