

BARRISOL® Stretch Ceiling System

Specification Guide

SECTION 09545 STRETCHED MEMBRANE CEILINGS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A.** Drawings and general provisions of the Construction Contract, including General and Supplementary Conditions and Division I Specification Sections, apply to work of this Section.

1.02 SUMMARY

- A.** This Section includes stretched membrane ceiling systems complete with accessories for interior installations.
 - B.** Related Sections:
 - 1. Division 1 - Section Alternates
 - 2. Division 16 - Section Electrical for additional or larger size wires, as to properly support lighting fixtures to be furnished and installed by the Electrical Contractor.
- required

1.03 REFERENCE STANDARDS

- A.** Requirements, abbreviations and acronyms for reference standards are defined in Section 01095.
- B.** Fire Rating: BARRISOL stretched ceiling shall have a fire hazard of Class 1 in the USA within the requirements of the ASTM E84 Flame Spread Test.
- C.** Other Testing: BARRISOL stretched ceiling shall successfully meet criteria for: UBC 17-5 Room Fire Test Standard, N.Y.S. Pittsburgh Protocol Toxicity Test, City of New York Budding Department.
- D.** Stretched ceiling system must be UL approved.

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1.04 QUALITY ASSURANCE

- A.** The work of this section shall be performed by a company which specializes in the type of stretched ceiling system required by this project, with a minimum of 5 years documented successful experience and shall be performed by skilled workmen thoroughly trained in the necessary craft.
 - 1. Work shall be performed in compliance with Owner's insurance underwriters requirements and UL Approvals and Testing for materials, assemblies and procedures.
- B.** The membrane shall be stretched over the subsurface and hooked into the BARRISOL rails without glue or clips.
- C.** The stretch ceiling membrane shall be removable by hand and approved tools for visible inspection, to provide access above the stretched membrane, and to provide for subsequent re-installation.
- D.** The membrane shall not be less than 17/100 mm thick and shall not have a weight of more than 20g per square foot for all finishes except Brushed Suede. Brushed Suede membrane shall not be less than 35/100 mm thick and shall not have a weight of more than 32g per square foot.
- E.** The width of sheeting between two factory welds shall not be less than 5' 6" ..
- F.** All membranes / sheets (except Brushed Suede) shall be washable and antibacterial.

1.05 SUBMITTALS

- A.** Product Data: Shall be clearly marked to indicate all technical information which specifies full compliance with requirements of this Section, Contract Documents, and the manufacturers' published installation recommendations, including but not limited to the following: samples and printed materials.
- C.** Dealer Certification: Submit in writing the manufacturers' certification.
- D.** Warranty: Submit manufacturers' limited warranty against defeats in product, harpoon welds, sheet welds and colorfastness for a period of two years and workmanship for a period of ten years.
- E.** Samples for Initial Selection Purpose: Submit samples of all standard colors and finishes for membranes and rails.
- F.** Samples for Verification Purpose: Submit 6' square samples of each type and color of membrane and rail specified.
- G.** Certified Test Reports: Submit test data from an independent testing agency, acceptable to authorities having jurisdiction, evidencing that ceiling assembly comply with requirements indicated for fire performance characteristics.

1.06 PROJECT CONDITIONS

- A.** Do not begin installation until spaces to receive stretched ceilings have been enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead mechanical and electrical work is completed, tested and approved.
- B.** Permit wet work to dry prior to commencement of installation.
- C.** Maintain uniform temperatures and humidity prior to, during and after installation.

1.07 COORDINATION

- A.** Coordinate layout and installation of ceiling system with other construction that penetrates the ceiling or is supported by them, including light fixtures, HVAC, fire suppression system, and partition assemblies.

1.06 STORAGE AND HANDLING

- A.** Store all materials off the ground and protected from dirt and dust of construction operations.
- B.** Materials are to be acclimated to installation conditions for 48 hours prior to installations.
- C.** Handle all materials in a manner that will protect them from damage.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A.** The BARRISOL Stretch Ceiling as manufactured by BARRISOL Normalu S.A., 68689 Kembs, France (or manufactured under license).

- B. Authorized licensed dealers:**

Brambier's South Florida
1616 NE 205 Terrace
Miami, FL 33179
Phone: 305.653.1712
Fax: 305.653.1714

Brambier's North Florida
1648 Taylor Road PMB 240
Daytona Beach, FL. 32128
Phone: 386.756.0101
Fax: 305.513.5866
Georgia Fax: 770.234.5505
Email: lyle@brambiers.com

Email: lyle@brambiers.com

www.brambiers.com

2.02 COMPONENTS

- A.** Stretch PVC (polyvinyl chloride base, guaranteed cadmium free) membrane-ceiling sheet: A ceiling membrane will be custom produced according to exact field measurements. The membrane will be connected together by factory welds to achieve the appropriate size. The Architect to select one of the following:
1. Finishes:
Matt, Satin, Lacquer, Translucent, Metallic, Brushed Suede, Perforated finish, (1mm available in all finishes, 4mm available in matte and lacquer finishes, and 10mm available in special matte finish 36/100 mm only).
Antibacterial (available in all finishes except Brushed Suede), Special Anti-static sheet (available in white lacquer except by special order).
- B.** Harpoon; A semi rigid PVC harpoon (depending on rail type selected) is welded at the factory onto the perimeter of the ceiling membrane.
1. Specify harpoon to be white or black.
- C.** Seams / Welds: The seams will be lapped and factory welded. The seam location to be specified by the architect.
- D.** Rails: Specify one of the following:
1. BARRISOL visible rails, PVC or Aluminum.
 2. BARRISOL STAR concealed rails. Aluminum.
- Note: PVC concealed rails do **not** meet the intent of this specification.*
- E.** Rings: Reinforcement rings in Class A PVC available in the shape and size to fit light fixtures, sprinkler heads, HVAC. smoke detectors, etc.
- F.** Acoustical Materials: Can be installed above the BARRISOL ceiling but not on it.
- This** material must meet the requirements of the acoustical specialist and comply with the requirements of the Contract Documents.

PART 3 - EXECUTION

3.01 EXAMINATION

- A.** Install BARRISOL Stretch Ceiling System in accordance with approved submittals, reflected ceiling plan in Architectural Drawings, manufacturer's published recommendations and Contract Documents.
- B.** Examine the condition of the installation site and the conditions. Notify the Contractor or Architect in writing of any unsatisfactory conditions. Do not proceed with the work until such conditions have been corrected in a manner satisfactory to the BARRISOL installers.
- C.** Survey the installation site for exact field measurements for custom production of the ceiling membrane. Take actual field measurements for each ceiling.
- D.** Inspect each space which is to receive wall fixed mounted rails. The surface where the rails will be fixed must be smooth, flat, and finished prior to installation of the rails.
- E.** The stretched ceiling should only be installed if the wet work is completed and dry, the space is enclosed and weather tight, all painting and wall covering is completed and dry, the work of other trades is completed included electrical work, sprinkler systems, HVAC, etc.

3.2 INSTALLATION

- A.** Field measure each space to receive a stretch ceiling.
- B.** Fasten the rails at the perimeter of each ceiling using mitered cut corners and the appropriate fixing technique for each type of surface as recommended by BARRISOL.
- C.** Heat the ceiling membrane to release the sheet for installation purposes.
- D.** Extend the membrane into the rails with the appropriate BARRISOL tool.
- E.** After the membrane is completely secured, the heating source should be removed to allow the membrane to recover to its designated size, free of wrinkles.
- F.** Make all required penetrations for lights, HVAC, sprinkler systems, etc. and secure the opening with a BARRISOL reinforcement ring or square using the appropriate technique for each item as recommended by BARRISOL.

PART 4 - CLEANING

4.01 CLEANING

- A.** Clean the complete ceiling installation and adjoining construction as required.
- B.** Provide a written recommendation for cleaning and maintenance procedure including a list of approved cleaning products.

PART 5 - PROTECTION

5.01 PROTECTION

- A.** The Contractor is responsible for protecting the BARRISOL ceilings from damage from other trades.

End of Section 09545