



Standard Specification

BARRISOL[®] Specifications

What is BARRISOL ?

Barrisol is the trade name of the World's No 1 stretched ceiling system; the product was developed over 40 years ago and is manufactured in France, supplying demand for this unique product throughout a network of dealers in 100 countries.

In addition to ceilings the system can be used for wall coverings, light diffusers, floating panels, exhibitions and creative shapes. BARRISOL allows the incorporation of all types of light fittings, grilles and fixing points by the use of propriety background support.

What is a stretch ceiling system?

Barrisol is a suspended ceiling system consisting of two basic components - perimeter track and lightweight fabric membrane which during construction is stretched and held by the perimeter rail system.

Barrisol Fabric

Our fabric material is 0.2mm thick titanium based fully recyclable vinyl available in over 230 colours and 15 different finishes. The range includes Matt, Satin, Lacquer (mirror gloss) Metallic, Suede, Perforated and Translucent for light diffusers, backlighting and projection. The fabric can be printed or painted for additional effects, is entirely waterproof, washable, and impermeable to vapour and has a Class 1 classification for fire resistance (BCA) Australian regulations.

The lightweight sheets are custom made from roll material to form any shape or size. Each panel incorporates an ultrasonically welded "Harpoon Edge" which clips into the track.

Track

Barrisol Australia utilises the patented "Star" aluminium semi - concealed system which is the preferred choice for architects and designers, enabling curves domes and many other shapes to be formed. Aluminium "Star" track is clear anodized unless colour specified (powder coated) to match ceiling sheet.

Installation

Track is screwed to the supplied surfaces, which should be rigid and true. Plasterboard should be skimmed and have a background member within, to take 16 kg continuous tension of the finished product (32 kg point load during construction).

The jointing double track can be suspended using timber or MF metal studwork.

The sheet material is made (approx. 7% smaller than the survey measurements) at the production facility in France and is shipped to site normally within 21 days.

On site the material is warmed (to 40°C using propane gas heaters.) and stretched using specialists' spatula tools and clipped into the tracking system.

Apertures for lights, sprinklers, grilles etc. are then cut out with reinforcing rings welded to the sheet thus allowing final fittings to be installed.

Silicone sealed tracks to wall can achieve complete impermeable barrier as required for swimming pools and asbestos containment etc.

Decorated walls must have first coat applied and tiled walls must be grouted before tracking. Other trades should take care once Barrisol is installed to prevent damage.

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Recommended Square metres per sheet Based on square ceiling shapes

Barrisol Matt finishes	45 metres square
Barrisol Lacquer & metallic	35 metres square
Barrisol Suede	30 metres square
Barrisol Translucent	45 metres square

Weight per square metre

Matt	180 grams
Lacquer & metallic	200 grams
Translucent	170 grams
Suede	320 grams

Dimensionally stable from -15°C to +60°C.

Acoustic Properties

Absorption coefficients for typical installations using standard flat stretched materials with minimum 50mm thermal insulation above.

Frequency (Hz)	63	125	250	500	1000	2000	4000
Absorption Coefficient	0.1	0.5	0.47	0.57	0.44	0.23	0.17

Coefficients averaged from ISO354 (1985) reverberation time room tests for various mounting configurations & should be used as a design guide only.

Example Reverberation reduction for typical hard surfaced & carpeted room of 3M x 4M x 2.65: -
Mid frequency reverberation before stretch ceiling: 1 sec
Mid frequency reverberation AFTER stretched ceiling: 0.4 sec

Thermal reflection factor NH/PTH

Matt - 0.16 Satin - 0.16 Lacquer & Metallic - 0.15 Suede - 0.18

Thermal emission factor ESPIL

Matt -0.84 Satin - 0.84 Lacquer & Metallic - 0.85 Suede - 0.82

Antistatic

Typical average for Lacquer - 4.10 at 11 ohms

Light reflectance and transmission

Colour/ Finish	Reflectance %	Transmission %
White Lacquer	78.8	9.6
White Matt	81	9.8
Translucent Blanc Venus	56	45
Translucent Mecure	51	52

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Fire Resistance BCA Group Classification 1.*

The Building Code of Australia (BCA) requires all wall / ceiling finishes to comply with ISO 9705 or AS/NZ3738 as specified in BCA spec c1.10a.

The material group results from the above standards have to be in either groups 1, 2, or 3 depending on location. Barrisol achieves a group 1 classification.

K Factor K=. 785 using 2.7cm airspace and 45mm glass wool.
K=. 624 using 2.7cm airspace and 30mm Polyurethane foam.

Air movement

All air handling equipment within Barrisol installation areas must be balanced to prevent ceiling movement and possible damage.

Cleaning

Use non-abrasive cleaners and polish to remove any streaks, for hygienic surfaces system 2000 cleaners and sanitizers can be used.

Hygiene Typical Microbiological Trial

14 DAYS – chlorinated solution wipe after 7 days – inoculated Bacterium – E. Coli, Listeria, Salmonella, Yeast, Mould – NONE DETECTED.

Certification Biological

The Biological Division of the U.S. Testing Co. Inc has tested Barrisol. And conforms to the NYS INHALATION TOXICITY TESTS.

Certification Lloyd's Register EMEA

Marine approvals LLOYD'S REGISTER, MARINE SAFETY AGENCY,
Certificate of Fire Approval
Specific Standard: IMO. Fire Test Procedures Code, Annex 1, Part 2 and Part 5
Copies of certificates available upon request.

Barrisol Star Track System.

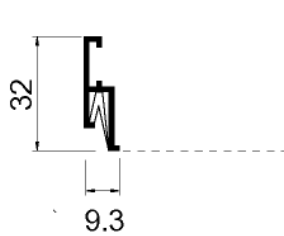
Standard Finish: Aluminum clear anodized finish.
Custom Finish: Colour matched (painted) to ceiling colour

Track weight per lineal metre.

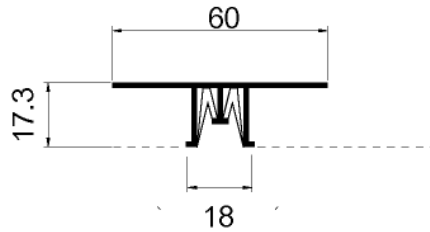
Type	BS350-11 Ceiling	.246 kg
	BS350-01 Wall	.219 kg
	BS350-16 Separator	.401 kg

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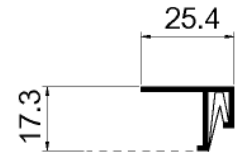
Typical sections of commonly used components -



BS350/01



BS350/16



BS350/11

Important

Barrisol membrane is stretched and held under tension.

The supporting structure must be sufficient to withstand 16kg continuous tension of the installed ceiling.

Track is screwed to the supplied surfaces, which should be rigid and true. Plasterboard should be skimmed and have a background member within, to take 16 kg continuous tension of the finished product (32 kg point load during construction.)

* Fire test results available upon request.

For more information please contact the NSW state office:



Sydney Stretch Ceilings Pty Ltd

233 Bulwara Rd

Ultimo 2007

NSW

Tel. 02 9660 6044

Fax. 02 9660 5044

Email. design@barrisolsydney.com.au