

PRO-STRETCH

Fabric Acoustic Wall & Ceiling Treatment System
Technical Specifications, EU & UK Standards

Eomac **PRO-STRETCH** is a site built fabric acoustic wall treatment system, designed to reduce reverberation time and unwanted noise/echo in virtually any space.

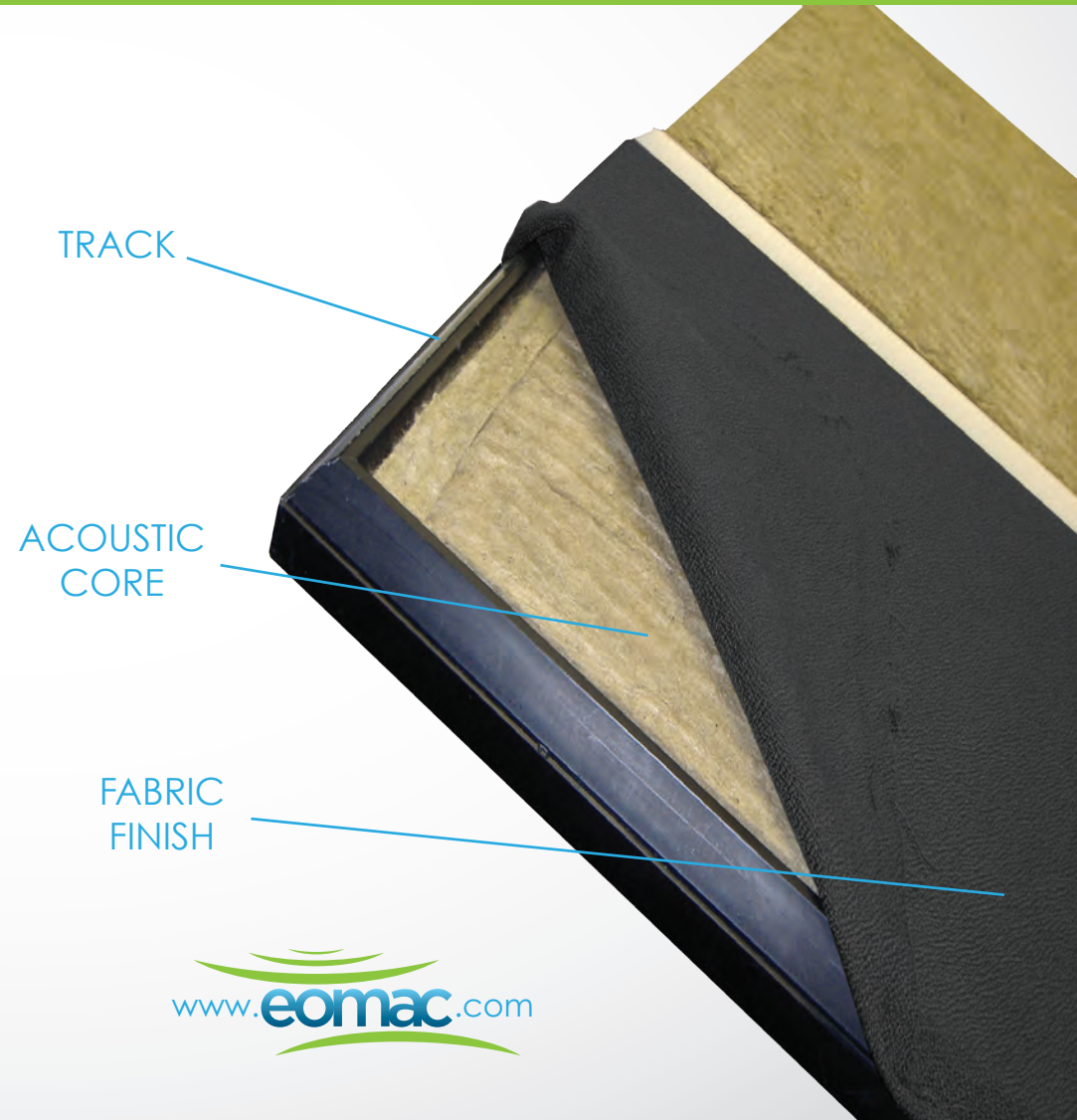
PRO-STRETCH installs quickly and easily onto all types of wall construction. The system does not require a smooth and perfect surface. Installation conceals slight imperfections on fire taped and rough sanded surfaces.

Exact site measurements are not required, facilitating efficient on-site coordination and timely installation.

Eomac's in-house Technical Team oversees the projects from design through installation, ensuring the highest quality of aesthetic and acoustic performance.



The **PRO-STRETCH** System is an environmentally friendly acoustic design solution. As such, all components are 100% recyclable and re-usable.



TRACK

ACOUSTIC
CORE

FABRIC
FINISH

www.eomac.com

THE PRO-STRETCH SYSTEM INCLUDES SUPPLY & INSTALLATION OF THE COMPONENTS BELOW

TRACK

Typical 34 mm & 53 mm depth fire resistant plastic track extrusion for securing fabric. Systems thicker than 53 mm are available if required. 16 mm & 28 mm depth track also available. See the track details for various profiles (square, bevel etc).

Track is fixed directly to plasterboard, acoustic core filled in between track. Fabric is then stretched between the tracks, creating a finished panel.

On concrete walls, MDF strips are mounted direct to concrete as a base for fixing the **PRO-STRETCH** System.

CORE

Typical: 30 mm - 100 kg/m³ Rigid Acoustic
50 mm - 60 kg/m³ Rigid Acoustic
75 mm - 60 kg/m³ Rigid Acoustic

Increased thickness and density is available, should it be required. The core can be provided to meet specific acoustic performance requirements. For NRC values, see the acoustic performance table.

Tackable core available upon request.

WOOD

MDF strips are installed behind fabric, as required to provide blocking for surround speakers, light sconces, fire strobes, exit signs, thermostats or any other fixture occurring within the fabric field. Thickness of blocking will coincide with the depth of the fabric field.

FABRIC

Select from Eomac's standard ranges. Custom fabrics available upon request. Customer's own fabric upon review and approval. Samples available upon request.

Colours and Textures:

Select from standard range. Custom colours and textures available, minimum order quantities may apply. Colour swatches available upon request. Dye-sublimated, high-definition, digital graphic printing on fabric available upon request.

Recommended specifications for fabric:

Contents : 100% Polyester Trevira CS
Weight : 400 g/lm
Width : 168 cm usable

Flammability:

Fire test data performed by independent laboratories. Support documentation available upon request. Note that all data provided is for typical usage. Eomac is adaptable to other situations and custom applications.



CANADA	: CAN/ULC-S 102: Class 1
EU	: EN 13238:2010: Class B, s2, d0
UK	: BS 476 Part 6: Class 0 BS 476 Part 7: Class 1 BS 56867 Part 2: Type B
USA	: ASTM E-84: Class A NFPA 265; UBC 8-2: Passes

SHOP DRAWINGS

Eomac provides a complete set of CAD Shop Drawings. Shop drawings are submitted for approval, prior to commencement of installation. Approved shop drawings define Eomac's scope of work.

PRO-STRETCH TRACK DETAILS - Fire-rated Plastic Extrusion (2.75 m lengths)

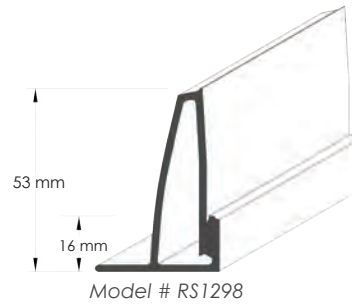
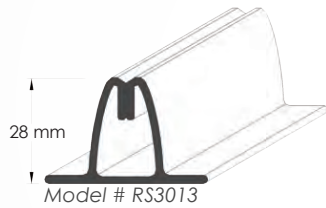
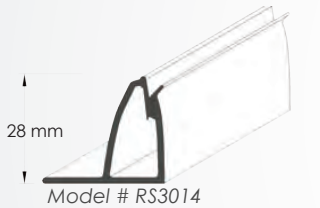
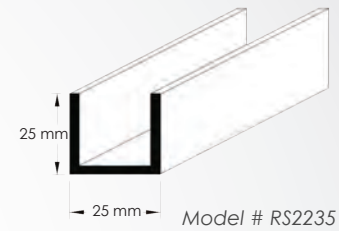
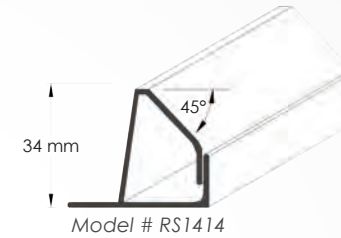
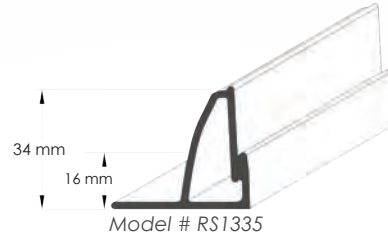
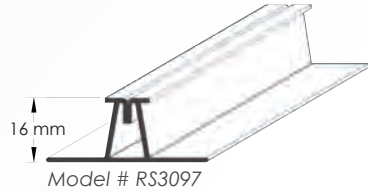
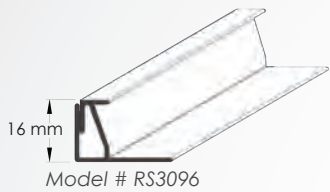
PERIMETER

MIDWALL

COMBINATION

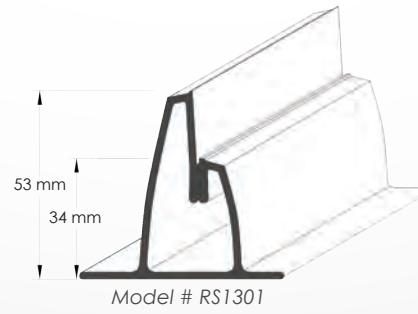
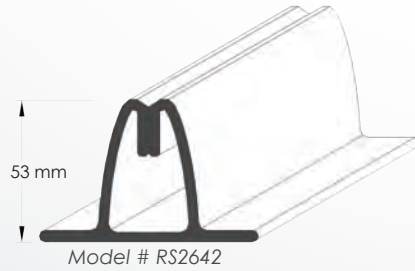
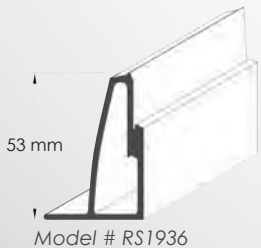
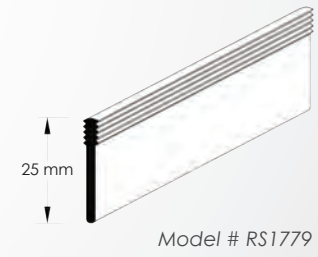
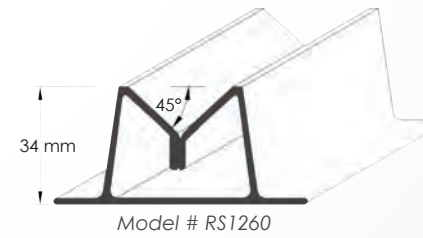
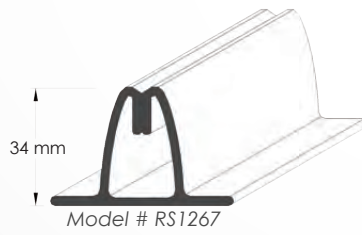
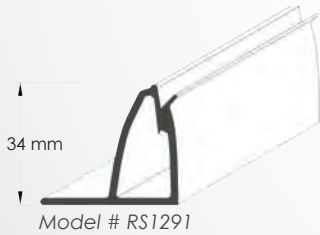
PERIMETER BEVEL 34

U-CHANNEL



REVEAL 34 BEVEL MIDWALL

FABRIC SPLINE INSERT



ACOUSTIC PERFORMANCE

Sound Absorption Coefficients (Hz) (Third Octave Bands)

Thickness	Mounting	100	125	250	315	400	500	630	800	1000	1600	2500	3150	4000	5000	α_w (ISO 11654)	NRC (ASTM - C423)
30 mm	Type A	0.03	0.03	0.30	0.50	0.62	0.85	0.97	1.01	1.03	1.05	1.04	1.04	1.03	1.02	0.65	0.85
50 mm	Type A	0.09	0.13	0.63	0.84	0.93	1.12	1.13	1.08	1.09	1.08	1.06	1.05	1.01	1.02	0.95	1.00
75 mm	Type A	0.27	0.44	0.95	0.99	1.07	1.15	1.10	1.03	1.07	1.07	1.06	1.07	1.08	1.05	1.00	1.00

*Type A: Direct Mounting

SITE CONDITIONS

- Work can only begin once the construction has reached a stage ready to accept final finishes.
- Installation will not begin until wet works, such as painting concrete and plasterboard, have been completed and cured.
- Installation can start only when normal temperature and humidity conditions have been reached to the approximately same conditions, which will exist when the building is occupied.
- Ceiling grid should be installed.
- Areas cleaned with minimum airborne dust.
- For home theatre and cinema applications, installation must be complete prior to setting of seats.
- All electrical works must be complete.

ELECTRICAL CONDITIONS

All electrical can be surface mounted provided:

- All conduit and junction boxes are run tight on the surface of the walls.
- Junction boxes/conduit entry point at junction box, not to exceed depth of the **PRO-STRETCH** Coverage.
- Do NOT run multiple conduits tightly together. Electrical details for spacing available upon request.

WALL CONDITIONS

If Plasterboard:

- Eomac **PRO-STRETCH** Fabric Acoustic Wall & Ceiling Treatment System will be fixed directly to plasterboard. Depth of the system is as specified.
- Plasterboard mounted to metal studs. Eomac will securely fix wood grounds to studding for the mounting of speakers, scone lights etc.
- Plasterboard should be fire taped only and rough sanded. The **PRO-STRETCH** System is very adaptable to slight imperfections in the plasterboard and does not require a smooth and perfect surface to be installed.
- There is no need to paint or prime plasterboard in areas, which will be covered with the **PRO-STRETCH** System.

If Concrete:

- Depth of the system will be minimum 34 mm (16 mm track on 18 mm MDF strips).
- MDF furring strips will be fixed to concrete where applicable. Eomac **PRO-STERTCH** System will be fixed to the furring strips.