

TECHNICAL INFORMATION

DESCRIPTION

tretford Roll is made from carded fibres formed into a continuous corrugation and bonded with PVC or 100% natural latex to a hessian backing. Standards quoted below are for PVC bonded carpet.

MATERIALS

Pile composition of carpet: 80% Goat Hair (512 Dapple Grey, 538 Silver Birch and 587 Double Cream are manufactured using undyed goat hair), 15% Nylon, 5% Viscose

WARRANTIES

Wear Guarantee and a Lifetime Anti-Ravel/Non-Zipper Guarantee.
BS EN 1307:2005 Class 33 LC2 Contract Wear

DIMENSIONS & WEIGHT

Roll Width: 2m wide (ribs run across 2m width)
Roll Length: 25m approx
Thickness: ca. 7mm
Weight: ca. 2.75kg / sq.m

FLAMMABILITY

BS 4790: 1987 Mean radius of burning: 25mm Class: low
BS EN ISO 11925:2002, BS EN ISO 9239-1: Euroclass C_{s1}
Critical radiant flux tests: ANSI/ASTM E648 result category 1
AS ISO 9239.1-2003: Direct Stick - CHF value: mean 7.2 kW/m². Dual bond - CHF value: mean 5.7 kW/m².
Conclusion: Suitable for all commercial / contract installations including Institutional, Commercial and Public Buildings.

THERMAL TRANSMISSION PROPERTIES (BS 4745:1971)

Thermal resistance: 1.76 togs
Thermal conductance: 5.68 W/m². °C
Thermal conductivity: 4.99 Wcm/m². °C
Conclusion: Satisfactory thermal properties for normal underfloor heating.

ELECTRICAL PROPERTIES / STATIC

IBM and ICL Electrical Resistance: Tested at 40% RH and 20°C and passed.
Recommendation: To prevent discomfort a minimum of 40% RH should be maintained.

LOSS IN THICKNESS AFTER DYNAMIC LOADING (BS4052:1987)

Thickness loss (%) after 1000 Impacts: 13.33%

COLOUR FASTNESS (BS 1006: 1990)

To light - colour change: 5-6 very slight to none
To water spotting - colour change: 4 very slight
To carpet shampoo - colour change: 3-4 slight
To rubbing - colour change: 4 very slight

IMPACT INSULATION (BS 2750: 1980)

Centre band frequencies (Hz)	200	400	800	1000
Test 1 bare concrete (dB)	66	69	71	71
Test 2 bare concrete with tretford (dB)	57.2	45.5	33.7	25.6
Regulation Requirements (dB)	66	66	64	63

Conclusions: This carpet meets the requirements of the building regulations by a useful margin.

SOUND ABSORPTION (BS EN 20354: 1993)

Noise reduction coefficient (250-2,000Hz) is 0.21

	130	255	515	1025	2025	4075	Hz
Carpet	0.01	0.03	0.10	0.27	0.42	0.41	Coefficient of absorption

MOTHPROOFING (BS 4797:1972) (SIS 650220)

tretford Roll is moth-resistant to the following standards:
European Standards
Australian Woolmark Levels 1 to 5
New Zealand Woolmark WoNZ R1 to R3.

CASTOR CHAIR PROTECTORS (for appearance retention purposes)

Recommended with 3★ colours. Mandatory with 1★ and 2★ colours.

MAINTENANCE

Please see under feeler sample for maintenance instructions

COUNTRY OF MANUFACTURE

Republic of Ireland

OTHER PRODUCT FORMATS

tretford TILE
tretford EVER

Please note: we reserve the right to make technical improvements.

INSTALLATION INSTRUCTIONS

It is recommended that **tretford** rolls be installed by sticking them directly to the sub-floor or over an underlay.

SUB-FLOOR PREPARATION The subfloor should be dry, sound and level. Using a hygrometer, the relative humidity of the subfloor must NOT exceed 75% - this is a stipulation of the British Standards for Floor Laying Procedures (ref. BS 5325). Otherwise shrinkage or bubbling can occur and the adhesive bond to the subfloor may be compromised. If the subfloor requires levelling, use a sand/cement screed.

ACCLIMATISATION At times of extreme humidity changes it is best to unroll the carpet or roll it loosely and allow it to acclimatise for twenty-four hours before installation in the area in which it is to be laid.

CUTTING THE CARPET **tretford**'s unique construction allows the carpet to be cut in any direction without fraying. Seam sealer is not required; however, it may be advisable to seal joints where **tretford** is cut into designs or where frequent wet cleaning is likely. Seam sealing will limit the ingress of moisture which can undermine the adhesive bond to the subfloor and cause shrinkage. Installers please note that once you have cut the carpet, you own it! Remember to check colour, quantity, batch and roll sizes against your order before cutting.

DIRECTION OF LAYING We recommend that rolls be laid with the ribs running perpendicular to the principle light source. **tretford**'s ribs run across the roll. **Note:** Where rolls are laid side by side, the rolls must be laid in the same direction to avoid an illusion of shade variation. This is done by keeping the line marked on the back of each roll always to the same side. On stairs, the ribs may be run parallel or perpendicular to the step.

ADHESIVE For permanent bonding, we recommend rubber/resin-based adhesives such as F.Ball's F3, Laybond 73 (low total VOCs), Tretford 240 or Durabond LE9000. When installing **tretford** on walls, we recommend a high tack adhesive such as F.Ball's F66 or Durabond D7. **Note:** Spirit based adhesives must never be used when installing **tretford**. Their use voids all manufacturer warranties.

ADHESIVE APPLICATION Direct Stick: Spread the adhesive in accordance with the adhesive manufacturer's instructions and using the recommended trowel notch sizes and shapes. **tretford** must be 100% adhered to the subfloor - no spot gluing. Place the carpet and press from the centre outwards to exclude air and ensure overall contact with the adhesive. Roll from end-to-end and side-to-side using a 75lbs (34kg) roller. Roll again after 30 mins. **Over Underlay:** If installation over an underlay is preferred, a double-stick system is recommended using a contract quality, paper-laminated if available, dense, crumb-rubber underlay, e.g. Bridgestone Airstep Sensi Slab. The carpet must be 100% adhered to the underlay and the underlay 100% adhered to the subfloor. Different trowel notch sizes may be required for applying the adhesive to the subfloor and to the underlay. Follow the adhesive manufacturer's instructions. Do not use a pressure sensitive/release adhesive at any stage.

CARPET INSTALLATION In contract situations **tretford** should always be installed by 100% (all over) direct adhesion to the subfloor using a permanent bond adhesive. If an underlay or pad is required or preferred, a double-stick system and dense, contract grade underlay should be used. 100% adhesion will prevent expansion, contraction and bubbling resulting from changes in humidity. In all dual bond installations, cross-joints must be heatbond taped using dual-bond heat bond tape. In direct stick installations, cross-joints may also be heatbond taped using dual-bond heat bond tape or, if not, must be temporarily tacked in place until the adhesive has permanently bonded so that the joints do not open. The carpet must never be spot glued. To avoid problems with shrinkage do not lay **tretford** into overly wet adhesive. It is important to allow the adhesive to tack-up (dry to a paste like consistency) before lowering the carpet. Tack-up time will depend on atmospheric conditions and on the absorbency of the substrate. The correct tack-up time can be determined by placing a small piece of carpet into the adhesive. When the carpet is pulled away, strings or cobwebs should be apparent. If the correct tack has not developed, wait five minutes, re-check, and re-check every few minutes thereafter until cobwebs appear. Tack-up time can be reduced by double-dropping the carpet into the adhesive. Shrinkage can only occur if there is excessive moisture in the subfloor, too high water content in the adhesive, insufficient time is allowed for correct tack to build-up or there are significant changes in air humidity during installation. Shrinkage is not caused by or accepted as a manufacturing fault. Only cut-in around the perimeter once the adhesive is set. **Please note:** adhesive tack-up time will be longer over rubber underlay as it is non-absorbent. When installing over an underlay, to help protect against shrinkage or simply for aesthetic reasons, a 75mm (3") wide, flat edge/architectural strip with 3 rows of low profile tacks may also be used around the edge of the room. The carpet is hooked over these, to hold the carpet tight, and tucked-in to give a softer finish to the edges. Cotton head stretchers must be used to avoid tearing or damaging the carpet and seams should be located no closer than 150-200mm (6"-8") from the edge of the room to avoid unsightly peaking. In residential situations, the carpet may be loose-laid and joined using wide adhesive tape. On stairs, in contract situations, nosings must be used. In residential situations, tretford roll should be fitted over good quality underlay and the stair carpet moved periodically.

UNDER FLOOR HEATING Both **tretford** and the recommended adhesives are suitable for use over under floor heating. However, it is recommended that the heating be switched off for 48hrs prior to installation of the carpet and for 48hrs after installation and temperature increased gradually when turned back on.

LIGHT SOURCE If possible, lay the cord rather than the roll, perpendicular to the primary light source. Please note, if the cord runs parallel to the light source or if there is very strong overhead lighting, a reflection off the backing may be visible between the ribs until the carpet has settled-in. This is not a manufacturing fault and does not indicate below-standard face fibre weight. The phenomenon is only visible when the carpet is newly laid.

SHADING tretford cord carpet is a natural fibre product. Different production runs of the same product may therefore be subject to shade variation. This is not a defect or a manufacturing fault.

Please see our website for the most up-to-date information (including installation on walls): www.tretford.com

ENVIRONMENTAL STATEMENT

Natural fibres, renewable raw materials, improved IAQ, less noise, higher productivity, environmental responsibility at our core. Vibrant colours, clean lines, underfoot comfort and warmth... improving well-being for all.

