





StrongStep®

A highly durable & robust underlay designed for contract installations requiring a double-stick installation method





StrongStep®		Testing Method	
Construction	Rubber Crumb		
Density	400 kg/m ³		
Thickness	6.5mm		
Tog Rating	1.38 TOG	BS4745	
Noise Reduction	31 dB (∆LW)	BS EN ISO 10140-3 Impact Sound	
Comfort Rating	Firm Luxury		
Area Coverage	10m² (1.37m x 7.3m)		
Roll Dimensions	137 x 32 x 32 cm		
Double Stick Applications?	Yes		





Recommended End Use Classifications

Class HC/U

Heavy contract use, suitable for heavy foot and wheel traffic and castor chairs

Product Specifications

Top SurfaceWoven PP BackingBottom SurfaceRubber CrumbRecyclableNoGuaranteeLifetime of initial carpet installation (when used in recommended areas)RecommendationHeavy footfall areas, ideal for Hotels, Bars, Pubs or commercial sectors

All underlay joins must be bonded with our

All underlay joins must be bonded with our Wilsons Bonding Tape to ensure the warranty is valid. It has been manufactured to work exclusively with our underlays.

Environmental Credentials

Recycled Content Environmentally Friendly: 100% recycled rubber.

01924 451 138 | sales@wilsons-group.com







And now for the science-y bit... This is where you wish you'd paid more attention in school!

T 1 : 10 : 10 : 11			Formaldehyde Testi	na Results		
Technical Specifications to BS EN 14499:2015 (BS5808)				maldehyde (µg/m³)		
Torting		Method	28 Not detected			
Testing		Metriou	Limit of detection for formaldehyde is 2.0 (µg/m³)			
Breaking Strength (maximum force)	≥30N in each direction	BS EN ISO 13934-1:2013	VOC Results: Carcinogenic compound as defined in Annex VI to Regulation (EC) No. 1272/2008			
Thickness loss of static loading short term after 1 h recovery			LCI value ⁺¹	Emissions R Value ⁺² @ 28 days @ 28 days		
Fibrous underlay	≤ 40 %	ISO 3416:1986 (2012)	Cas No. μg/m³	μg/m³ Unitless		
Non-fibrous underlay Combined underlay	≤ 15 % ≤ 40 %		Not Not detected	Not Not detected		
			VOC Results: TVOC	VOC Results: TVOC		
Thickness loss of dynamic loading			Cas No. µg/m³	μg/m³ Unitless		
Fibrous underlay Non-fibrous underlay Combined underlay	≤ 40 % ≤ 15 % < 40 %	BS ISO 2094:1999 (2015)	N/A	Not Not detected		
Combined underlay	<u><</u> 40 %		Limit of quantification for VOC Limit of detection for VOC - 1			
Thickness	≥ 4.0 mm	ISO 1765:1986 (2012)	The following compounds were detected below the limit of quantification - Dodecane, tetramethylbutanedinitrile, nonanal, xylene			
Thickness deviation from max to min Fibrous or combined underlay Non-fibrous underlay	ISO 1765:1986 (2012) ≤ 4 mm < 3 mm		EMISSIONS DANS L'AIR INTÉRIEUR A A B C Indoor Air Quality Test Tested to ISO 16000			
·	_		Regulation or protocol	Conclusion .		
Resistance to breaking or cracking	No cracks greater than 50 mm along the fold	BS EN 14499:Annex A:2015	French VOC Regulation	A+ Pass		
			French CMR components Italian CAM Edilizia	Pass		
	No cracks in backing		ABG/AqBB	Pass		
	No cracks in backing		Belgian Regulation	Pass		
Compression after dynamic loading	Minimum 2 mm, Maximum 8 mm	BS 4098:1975 (2003) and BS ISO 2094:1999 (2015)	EMICODE	EC 1 PLUS		
			Indoor Air Comfort	Pass		
			Indoor Air Comfort GOLD	Pass		
Work of compression after dynamic loading	Minimum 50 J/m², Maximum 200 J/m²	BS 4098:1975 (2003) and BS ISO 2094:1999 (2015)	Blue Angel (DE-UZ 156)	Pass		
			BREEAM International	Exemplary Level		
Retention of original work of compression	≥40 %	BS 4098:1975 (2003) and BS ISO 2094:1999 (2015)	BREEAM NOR	Exemplary Level		
			EU Taxonomy	Pass		
			LEED v4.1 BETA (outside U.			
			LLLD VT.I DL IA (Outside O.,	J., 1 U.S.S		



StrongStep® Installation Instructions



First things first

Not all carpets are suitable for double stick installation so please check with the carpet manufacturer to ensure that they are happy with this method of installation. It is important to allow the underlay to acclimatise to room temperature for as long as practical, room temperature should be at least 180C and the relative humidity should not exceed 65%.

The following instructions are intended to act as additional notes to this code of practice and to cover or emphasise those details relating to the installation of StrongStep. Please also refer to the specific instructions of the carpet manufacturer.

Sub floor conditions and floor preparation

In general sub floor conditions should comply with the requirements of the Code of Practice quoted above. A lot of effort goes into these standards and codes of practice with the aim of getting the best installation, so our advice is to take a look at them.

Basically, it says that all sub floors should be clean, dry, level and structurally sound and free from any cracks and contamination. All cracks and holes should be adequately repaired to ensure a smooth finished appearance, patching and levelling compounds must be suitable for the end use application and must becompatible with any adhesives that may be used. Very absorbent or dusty subfloors should be primed with a primer compatible with the adhesive to be used. Wooden floors showing warping, shrinkage or unevenness must be made good before continuing. Wax or varnish should be removed as these treatments can affect the adhesive bond.

Concrete floors laid direct to ground should incorporate a continuous damp proof membrane. Installation should only take place on subfloors where the relative humidity has fallen below 75% when tested in accordance with BS 5325: 2001.

Asphalt floors must be isolated by applying a compatible 3mm thick surface underlayment, this avoids any chance of migration of the asphalt to the carpet.

Temperature/humidity and conditioning

The ideal indoor temperature for installation is between 18-35°C, with a maximum air relative humidity of 65%. The subfloor temperature should not fall below 10°C and it is important that the carpet and underlay are stored on site at the same temperature as the areas to be installed.

Underfloor heating

Underfloor heating should be switched off for a minimum of 48 hours prior and 48 hours after installation to allow the adhesive to achieve its full bond strength. The sub floor surface temperature should ideally be around 15 $^{\circ}$ C but no lower than 10 $^{\circ}$ C. Always tell the end user to avoid sudden or large changes in temperature, ideally temperatures should be increased in stages of 2 to 3 $^{\circ}$ C this allows the carpet to reach equilibrium to the new temperature before increasing further. In use underfloor heating should not exceed 27 $^{\circ}$ C.

Installation

- Lay the scrim side facing upwards and the rubber crumb to the subfloor.
- 2 Cut the underlay so that it is approximately 50mm over the length required around the perimeter of the room. The seams must be butted together without compression or gaps. Ideally the underlay should be fitted at right angles to the run of the carpet.
- 3 Once the underlay has been fully positioned trim to size leaving a gap around the perimeter if a tuck finish is required the size of the gap will depend on the quality and thickness of the carpet the carpet can be tucked into this gap between the underlay and the wall.
- Then roll half of the underlay back to expose the sub floor for adhesive application. The tackifier/release adhesive coverage between the underlay and the sub floor will be dependent on local conditions, however applying the tackifier/release adhesive with a medium roller will not deliver the same bond strength as applying the same adhesive with a notched trowel, and the application rate should be as per the instructions of the adhesive manufacturer.
- Always allow the tackifier/release adhesive to dry to a clear tacky state, placing the underlay into wet adhesive will result in a permanent bond. Once the adhesive has dried, lay the underlay into position securing to the subfloor using a glider or similar tool (heavy rollers can move and stretch the underlay). Repeat this procedure for the other half.









- 6 Next position the lengths of carpet prior to applying the permanent bond adhesive (it can be useful to place a plastic sheet over the underlay as this will help in positioning the carpet without dragging the underlay excessively).
- Once positioned roll or fold back the carpet and apply the permanent bond adhesive to the underlay using a notched trowel as advised in the instructions of the adhesive manufacturer. Ensure that there is total transfer of adhesive into the carpet backing and that the adhesive is applied evenly and tight up to the walls to prevent any bubbling. After the required open time, place the carpet into the adhesive, smoothing out any air bubbles or creases with a glider or similar tool (again heavy rollers can move and stretch the carpet which can then move back leaving gaps after final cutting). Always glide the width of the carpet before the length to reduce the chance of stretching it and glide from the centre of the room to the perimeter.
- 8 If any seaming is required, the cut edges should be sealed with a proprietary seam sealant before they are laid into the wet adhesive. Make sure that you press the edges firmly into the adhesive during its open time.
- Once the adhesive has grabbed the carpet sufficiently, trim in the edges to the perimeter. If there are any concerns about carpet shrinkage due to the carpet construction, atmospherics or the cleaning methods to be used subsequently, the use of gripper should be considered to provide extra resistance against movement away from the perimeter.

Always install the carpet in accordance with the carpet manufacturer's instructions. These instructions are not exhaustive, if in any doubt please contact us.

