Underlay & Accessories Collection



tredaire®
It's what's underneath that counts

Duralay®
Underlay Experts Since 1952

Gripperrods®

STIKATAK®

MADE IN THE UK

interfloor

AMBIENCE



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
9.00MM	145KG/M³	19.7KG	15.07M²	2.37 TOG	39DB	YES



TAAMBIENCE

PRODUCT RATING	
Comfort	5
Durability	5
Warmth	5
Impact Sound	5
Airborne Sound	2
Underfloor Heating	1

BRIO



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
8.00MM	98KG/M³	11.8KG	15.07M²	2.18 TOG	32DB	YES



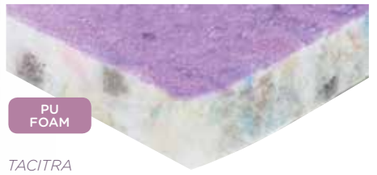
TABRIO

PRODUCT RATING	
Comfort	4
Durability	4
Warmth	5
Impact Sound	4
Airborne Sound	1
Underfloor Heating	1

CITRA



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
11.00MM	145KG/M³	24.0KG	15.07M²	2.90 TOG	43DB	YES



TACITRA

PRODUCT RATING	
Comfort	6
Durability	5
Warmth	6
Impact Sound	6
Airborne Sound	2
Underfloor Heating	1

COLOURS GREEN



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
10.30MM	362KG/M³	40.9KG	10.96M²	1.47 TOG	44DB	YES



TACOLGREEN

PRODUCT RATING	
Comfort	6
Durability	3
Warmth	3
Impact Sound	6
Airborne Sound	5
Underfloor Heating	1

COLOURS RED



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
11.40MM	357KG/M³	44.6KG	10.96M²	1.65 TOG	46DB	YES



TACOLRED

PRODUCT RATING	
Comfort	6
Durability	4
Warmth	4
Impact Sound	6
Airborne Sound	6
Underfloor Heating	1



COSYWALK



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
7.00MM	110KG/M³	11.6KG	15.07M²	2.05 TOG	36DB	YES



TACOSYWALK2

PRODUCT RATING	
Comfort	4
Durability	4
Warmth	5
Impact Sound	5
Airborne Sound	1
Underfloor Heating	1

DEFENDER



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
6.10MM	495KG/M³	45.5KG	15.07M²	0.80 TOG	30DB	YES



TADEF3

PRODUCT RATING	
Comfort	4
Durability	5
Warmth	2
Impact Sound	4
Airborne Sound	4
Underfloor Heating	5

DREAMWALK



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
11.00MM	110KG/M³	18.2KG	15.07M²	3.13 TOG	44DB	YES



TADREAMWALK3

PRODUCT RATING	
Comfort	6
Durability	5
Warmth	6
Impact Sound	6
Airborne Sound	2
Underfloor Heating	1

DYNAMICS



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
9.40MM	368KG/M³	37.9KG	10.96M²	1.30 TOG	35DB	YES



TADYNAMICS2

PRODUCT RATING	
Comfort	5
Durability	4
Warmth	3
Impact Sound	4
Airborne Sound	4
Underfloor Heating	3

ELITE



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
9.75MM	379KG/M³	40.5KG	10.96M²	1.50 TOG	42DB	YES



TAELITE

PRODUCT RATING	
Comfort	6
Durability	4
Warmth	4
Impact Sound	6
Airborne Sound	5
Underfloor Heating	1

ENERGY



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
7.00MM	368KG/M³	38.8KG	15.07M²	1.01 TOG	30DB	YES



TAENERGY2

PRODUCT RATING	
Comfort	4
Durability	4
Warmth	3
Impact Sound	4
Airborne Sound	4
Underfloor Heating	3

FLAMECHECK



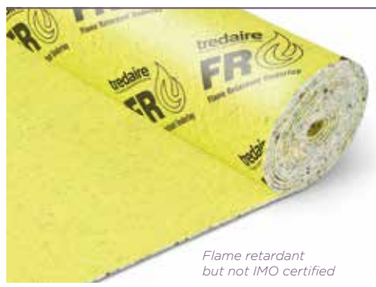
THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT	IMO RATED	DOUBLE STICK
6.50MM	145KG/M³	15.1KG	15.07M²	1.85 TOG	35DB	YES	YES	YES



TAFLAMECHECK2

PRODUCT RATING	
Comfort	4
Durability	5
Warmth	4
Impact Sound	4
Airborne Sound	2
Underfloor Heating	1
Flame Retardancy	6

FR7



Flame retardant but not IMO certified

THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT	DOUBLE STICK
7.00MM	1450KG/M³	15.3KG	15.07M²	1.93 TOG	35DB	YES	YES



TAFR7

PRODUCT RATING	
Comfort	4
Durability	5
Warmth	4
Impact Sound	4
Airborne Sound	2
Underfloor Heating	1
Flame Retardancy	5

GALA



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
7.00MM	262KG/M³	27.6KG	15.07M²	1.19 TOG	27DB	YES



TAGALA

PRODUCT RATING	
Comfort	4 ★★★★
Durability	3 ★★★
Warmth	3 ★★★
Impact Sound	4 ★★★★
Airborne Sound	3 ★★★
Underfloor Heating	3 ★★★

GRANDURO



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
11.00MM	145KG/M³	24KG	15.07M²	2.90 TOG	43DB	YES



TAGRANDURO

PRODUCT RATING	
Comfort	6 ★★★★★★
Durability	5 ★★★★★
Warmth	6 ★★★★★★
Impact Sound	6 ★★★★★★
Airborne Sound	2 ★★
Underfloor Heating	1 ★

HALLMARK



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
9.50MM	410KG/M³	42.7KG	10.96M²	1.51 TOG	42DB	YES



TAHK080013

PRODUCT RATING	
Comfort	5 ★★★★★
Durability	5 ★★★★★
Warmth	4 ★★★★
Impact Sound	6 ★★★★★★
Airborne Sound	5 ★★★★★
Underfloor Heating	1 ★

JAZZ



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
12.00MM	98KG/M³	18.1KG	15.07M²	2.90 TOG	39DB	YES



TAJAZZ

PRODUCT RATING	
Comfort	6 ★★★★★★
Durability	4 ★★★★
Warmth	6 ★★★★★★
Impact Sound	6 ★★★★★★
Airborne Sound	2 ★★
Underfloor Heating	1 ★

KENSINGTON DELUXE



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
11.00MM	227KG/M³	27.4KG	10.96M²	1.70 TOG	30DB	YES



TAKENDEL

PRODUCT RATING	
Comfort	6 ★★★★★★
Durability	5 ★★★★★
Warmth	3 ★★★
Impact Sound	4 ★★★★
Airborne Sound	4 ★★★★
Underfloor Heating	1 ★

KING



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
8.30MM	510KG/M³	46.4KG	10.96M²	0.80 TOG	42DB	YES



TADK080013

PRODUCT RATING	
Comfort	5 ★★★★★
Durability	6 ★★★★★★
Warmth	2 ★★
Impact Sound	6 ★★★★★★
Airborne Sound	6 ★★★★★★
Underfloor Heating	5 ★★★★★





tredaire

LIFESTYLE SELECT



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
10.20MM	366KG/M³	40.9KG	10.96M²	1.51 TOG	42DB	YES



TALSS08013

PRODUCT RATING	
Comfort	6
Durability	3
Warmth	4
Impact Sound	6
Airborne Sound	5
Underfloor Heating	1

NEW SUPREME



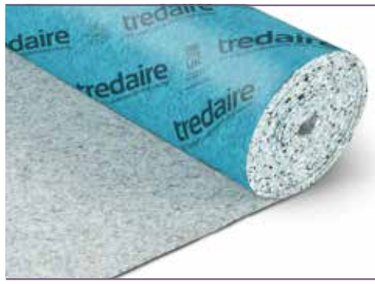
THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
8.75MM	391KG/M³	37.5KG	10.96M²	1.00 TOG	39DB	YES



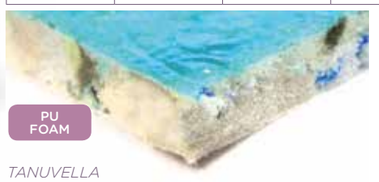
TANEWSUP

PRODUCT RATING	
Comfort	5
Durability	5
Warmth	3
Impact Sound	5
Airborne Sound	4
Underfloor Heating	3

NUVELLA



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
9.00MM	98KG/M³	13.3KG	15.07M²	2.40 TOG	35DB	YES



TANUVELLA

PRODUCT RATING	
Comfort	5
Durability	4
Warmth	5
Impact Sound	4
Airborne Sound	2
Underfloor Heating	1

POWER



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
8.60MM	378KG/M³	35.7KG	10.96M²	1.10 TOG	37DB	YES



TAPOWER3

PRODUCT RATING	
Comfort	5
Durability	5
Warmth	3
Impact Sound	5
Airborne Sound	4
Underfloor Heating	3

RED SUPREME



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
8.90MM	343KG/M³	46KG	15.07M²	1.27 TOG	41DB	YES



TASH110013

PRODUCT RATING	
Comfort	5
Durability	5
Warmth	3
Impact Sound	6
Airborne Sound	4
Underfloor Heating	3



REVIVE



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
7.00MM	145KG/M³	15.3KG	15.07M²	1.93 TOG	35DB	YES



TAREVIVE

PRODUCT RATING	
Comfort	4
Durability	5
Warmth	4
Impact Sound	4
Airborne Sound	2
Underfloor Heating	1

SENSATION



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
11.00MM	145KG/M³	24KG	15.07M²	2.89 TOG	43DB	YES



TASENSATION2

PRODUCT RATING	
Comfort	6
Durability	5
Warmth	6
Impact Sound	6
Airborne Sound	2
Underfloor Heating	1

SIGNATURE



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
9.40MM	418KG/M³	43.1KG	10.96M²	1.20 TOG	35DB	YES



TASIG

PRODUCT RATING	
Comfort	5
Durability	4
Warmth	3
Impact Sound	4
Airborne Sound	5
Underfloor Heating	3

SOFTWALK



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
9.00MM	110KG/M³	14.9KG	15.07M²	2.69 TOG	41DB	YES



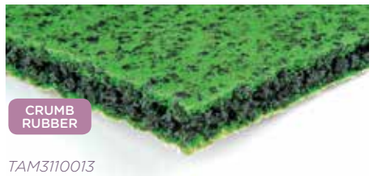
TASOFTWALK3

PRODUCT RATING	
Comfort	4
Durability	4
Warmth	6
Impact Sound	6
Airborne Sound	2
Underfloor Heating	1

SUPER MK 3



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
6.75MM	359KG/M³	36.5KG	15.07M²	1.15 TOG	26DB	YES



TAM3110013

PRODUCT RATING	
Comfort	4
Durability	6
Warmth	3
Impact Sound	4
Airborne Sound	4
Underfloor Heating	3

SUPERIOR



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
8.65MM	314KG/M³	40.9KG	15.07M²	1.26 TOG	32DB	YES



TASUPERIOR

PRODUCT RATING	
Comfort	5
Durability	3
Warmth	3
Impact Sound	4
Airborne Sound	4
Underfloor Heating	3

SYSTEM TEN



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT	DOUBLE & SINGLE-STICK
9.20MM	435KG/M³	43.8KG	10.96M²	1.55 TOG	32DB	YES	YES



TADUP08013

PRODUCT RATING	
Comfort	5
Durability	6
Warmth	4
Impact Sound	4
Airborne Sound	6
Underfloor Heating	1

TITANIUM



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT	DOUBLE STICK
9.00MM	160KG/M³	21.7KG	15.07M²	2.37 TOG	39DB	YES	YES



TATITANIUM2

PRODUCT RATING	
Comfort	5
Durability	5
Warmth	5
Impact Sound	5
Airborne Sound	3
Underfloor Heating	1

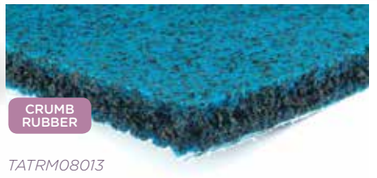
*Titanium double-stick for domestic use only, for maximum of 30m² **System Ten single-stick for domestic use only, for maximum of 33m²



TREADMORE



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
7.95MM	390KG/M³	34KG	10.96M²	1.03 TOG	32DB	YES



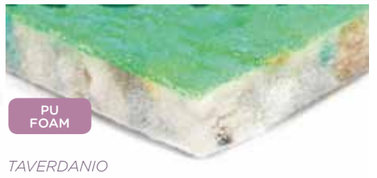
TATRM08013

PRODUCT RATING	
Comfort	5
Durability	5
Warmth	3
Impact Sound	4
Airborne Sound	4
Underfloor Heating	3

VERDANIO



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
10.00MM	110KG/M³	16.6KG	15.07M²	2.70 TOG	41DB	YES



TAVERDANIO

PRODUCT RATING	
Comfort	6
Durability	5
Warmth	6
Impact Sound	6
Airborne Sound	2
Underfloor Heating	1

WILLOW GREEN



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
8.40MM	323KG/M³	40.9KG	15.07M²	1.10 TOG	32DB	YES



TAWILLOW

PRODUCT RATING	
Comfort	5
Durability	4
Warmth	3
Impact Sound	4
Airborne Sound	4
Underfloor Heating	3

XTRA



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
8.25MM	308KG/M³	38.3KG	15.07M²	1.51 TOG	35DB	YES



TAXD110013

PRODUCT RATING	
Comfort	4
Durability	4
Warmth	4
Impact Sound	4
Airborne Sound	4
Underfloor Heating	1

ZEST

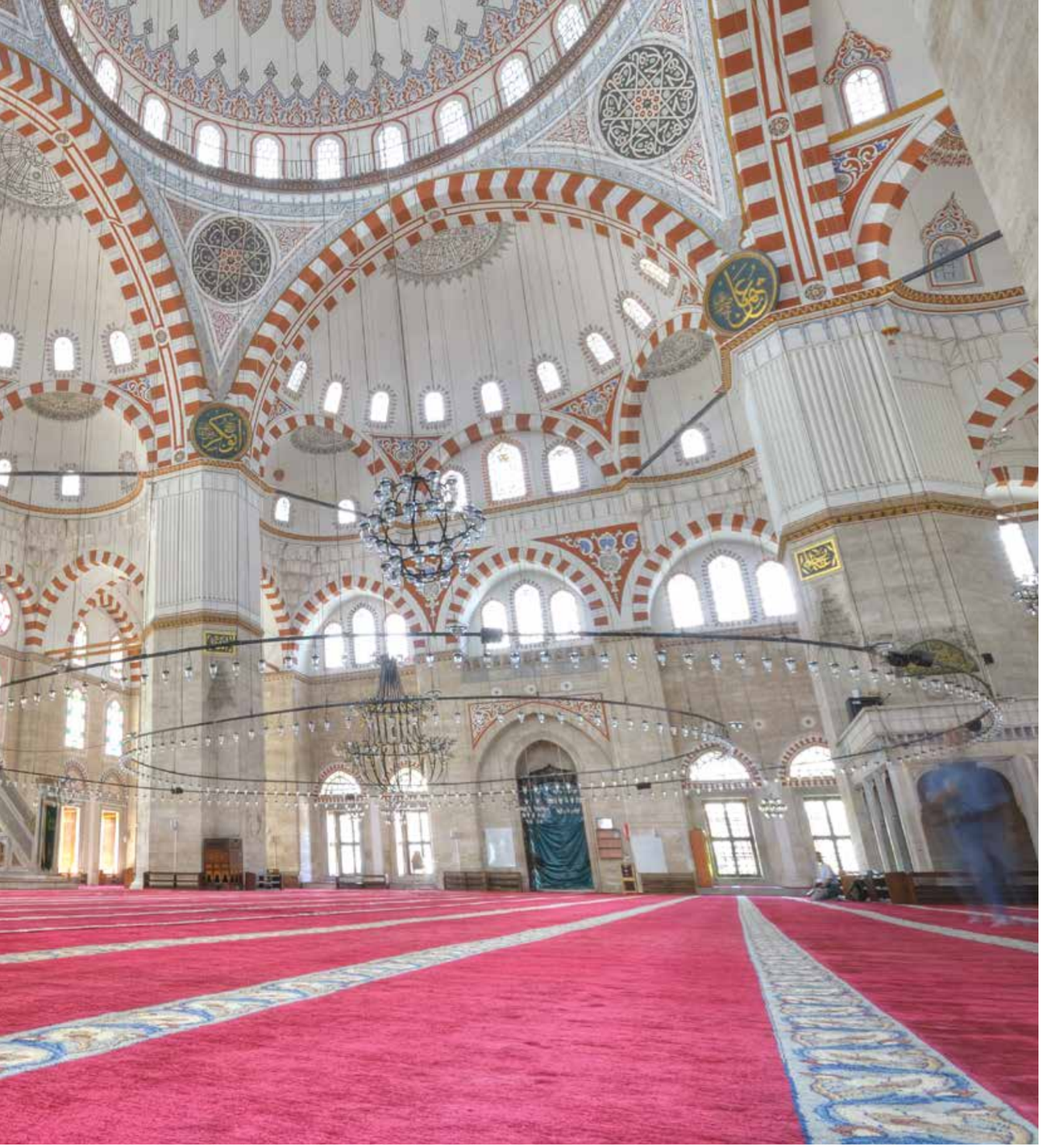


THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
10.00MM	98KG/M³	15.8KG	15.07M²	2.64 TOG	39DB	YES



TAZEST

PRODUCT RATING	
Comfort	6
Durability	4
Warmth	6
Impact Sound	5
Airborne Sound	2
Underfloor Heating	1



DURAFIT® 500



See page 53 for Durafit® adhesives

THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT	DOUBLE STICK
5.25MM	400KG/M³	31.6KG	15.07M²	0.83 TOG	25DB	YES	YES

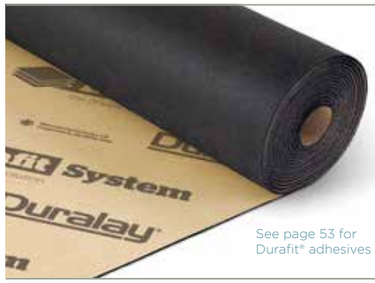


CRUMB RUBBER

TADURA500

PRODUCT RATING	
Comfort	3 ★★★
Durability	6 ★★★★★★
Warmth	2 ★★
Impact Sound	4 ★★★★
Airborne Sound	3 ★★★
Underfloor Heating	4 ★★★★

DURAFIT® 650



See page 53 for Durafit® adhesives

THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT	DOUBLE STICK
6.50MM	415KG/M³	40.7KG	15.07M²	1.10 TOG	29DB	YES	YES



CRUMB RUBBER

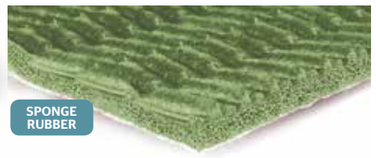
TADURA650

PRODUCT RATING	
Comfort	4 ★★★★
Durability	6 ★★★★★★
Warmth	3 ★★★
Impact Sound	4 ★★★★
Airborne Sound	4 ★★★★
Underfloor Heating	3 ★★★

HEATFLOW CARPET



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT
6.10MM	495KG/M³	45.5KG	15.07M²	0.75 TOG	31DB	YES



SPONGE RUBBER

TAHEATCARPET

PRODUCT RATING	
Comfort	4 ★★★★
Durability	5 ★★★★★
Warmth	2 ★★
Impact Sound	4 ★★★★
Airborne Sound	4 ★★★★
Underfloor Heating	6 ★★★★★★

TECHNICS 5



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT	DOUBLE STICK	IMO RATED
5.00MM	542KG/M³	40.9KG	15.07M²	0.56 TOG	28DB	YES	YES	YES



SPONGE RUBBER

TATECH5

PRODUCT RATING	
Comfort	3 ★★★
Durability	5 ★★★★★
Warmth	2 ★★
Impact Sound	4 ★★★★
Airborne Sound	4 ★★★★
Underfloor Heating	6 ★★★★★★

TECHNICS 6



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT	DOUBLE STICK
6.00MM	526KG/M³	47.5KG	15.07M²	0.66 TOG	31DB	YES	YES



SPONGE RUBBER

TATECH6

PRODUCT RATING	
Comfort	4 ★★★★
Durability	5 ★★★★★
Warmth	2 ★★
Impact Sound	4 ★★★★
Airborne Sound	4 ★★★★
Underfloor Heating	6 ★★★★★★

COUNTERFLAME



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	STRETCH FIT	DOUBLE STICK	IMO RATED
6.25MM	256KG/M³	24.1KG	15.07M²	0.84 TOG	32DB	YES	YES	YES



LATEX FOAM

TACF110013

PRODUCT RATING	
Comfort	4 ★★★★
Durability	5 ★★★★★
Warmth	2 ★★
Impact Sound	4 ★★★★
Airborne Sound	3 ★★★
Underfloor Heating	6 ★★★★★★
Flame Retardancy	6 ★★★★★★

DURATEX



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	FLOATING FLOOR	SONE RATING
3.60MM	706KG/M³	38.3KG	15.07M²	0.57 TOG	23DB	YES	57



TADTX11013

PRODUCT RATING	
Impact Sound	5 ★★★★★
Airborne Sound	4 ★★★★
Underfloor Heating	4 ★★★★

HEATFLOW WOOD & LAMINATE



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	FLOATING FLOOR	SONE RATING
3.00MM	802KG/M³	36.3KG	15.07M²	0.35 TOG	21DB	YES	57



TAHEATWOOD

PRODUCT RATING	
Impact Sound	4 ★★★★
Airborne Sound	4 ★★★★
Underfloor Heating	6 ★★★★★★

MULTITEX



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	FLOATING FLOOR	SONE RATING
3.60MM	706KG/M³	25.4KG	10.00M²	0.57 TOG	23DB	YES	57



TADM146068

PRODUCT RATING	
Impact Sound	4 ★★★★
Airborne Sound	4 ★★★★
Underfloor Heating	4 ★★★★

SILENTFLOOR



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	FLOATING FLOOR	SONE RATING
3.00MM	735KG/M³	33.2KG	15.07M²	0.38 TOG	18DB	YES	56



TASIL

PRODUCT RATING	
Impact Sound	5 ★★★★★
Airborne Sound	3 ★★★
Underfloor Heating	6 ★★★★★★

SILENTFLOOR GOLD



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	FLOATING FLOOR	SONE RATING
4.20MM	710KG/M³	45.0KG	15.07M²	0.33 TOG	24DB	YES	53



TASILGOLD

PRODUCT RATING	
Impact Sound	6 ★★★★★★
Airborne Sound	4 ★★★★
Underfloor Heating	6 ★★★★★★
Moisture Resistance	6 ★★★★★★

TIMBERMATE EXCEL



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	FLOATING FLOOR	SONE RATING
3.60MM	707KG/M³	38.3KG	15.07M²	0.55 TOG	23DB	YES	56



TATEX11013

PRODUCT RATING	
Impact Sound	5 ★★★★★
Airborne Sound	4 ★★★★
Underfloor Heating	4 ★★★★
Moisture Resistance	6 ★★★★★★

TIMBERMATE EXCEL DIY



THICKNESS	DENSITY	ROLL WEIGHT	ROLL AREA	HEAT INSULATION	SOUND REDUCTION	FLOATING FLOOR	SONE RATING
3.60MM	707KG/M³	25.5KG	10.0M²	0.55 TOG	23DB	YES	56



TATXL14668

PRODUCT RATING	
Impact Sound	5 ★★★★★
Airborne Sound	4 ★★★★
Underfloor Heating	4 ★★★★
Moisture Resistance	6 ★★★★★★



Underlay applications

Discover the best performing underlays for:

- Comfort
- Warmth
- Impact Sound
- Airborne Sound
- Moisture Protection
- Underfloor Heating
- Wood & Laminate Flooring
- Durability
- High & Wheeled Traffic
- Flame Retardancy
- Natural Floor Coverings
- Large Areas

Comfort

Comfort is one of the most important benefits of an underlay for most customers. It makes a budget carpet feel like a luxury one, and it makes it a pleasure to walk through the home. Over 70% of consumers say this is important to them when selecting an underlay.

Typical rooms where comfort is important are the lounge and bedrooms, and underlays that work best in these areas include sponge rubber flat, sponge rubber waffle and PU foam.

The factors that make an underlay comfortable are a combination of the 'sponginess' of the underlay material, density and thickness.

Our rating for comfort is:

6★	premium luxury
5★	super luxury
4★	luxury
3★	general



We recommend Tredaire® Colours Red, Sensation and Citra, see pages 15 and 22 for product details.



Warmth

Energy efficiency of the home is an increasingly important issue, and a modern underlay can make a big difference in improving insulation.

We measure how warm an underlay is in a variety of means, such as thermal conductance, and then convert all of this into a familiar number - a Tog value. For comparison, typical tog values for everyday products are shown in the panel to the right.

Underlay achieves its insulating properties through two ways. One is the intrinsic insulation of the material itself, such as rubber which is a poor conductor of heat; the second is by trapping pockets of air in small bubbles, which is an even better insulator. This is why lightweight underlays such as a PU foam have a really high tog.

Many rooms in the home can benefit from an underlay with a tog of 2.5 or higher, such as a bedroom over a garage, second story rooms where the flooring is wooden planks with draughty gaps, loft and attic conversions, and ground floor rooms where the sub-floor is stone or concrete (though a DPM is probably also required for these).

> *"A modern underlay can make a big difference in improving insulation.*

Typical tog values are:

0.4 tog	Shirt
0.6 tog	Sweater
3.0 tog	Ski outfit
1.0 - 2.2 tog	Carpet
Up to 3.13 tog	Underlay
3.0 - 4.5 tog	Summer duvet

We recommend Tredaire® Dreamwalk, Jazz and Citra, see pages 15, 16 and 18 for product details.



Impact Sound

There are many times when it is desirable to reduce impact sound, such as minimising the sound of footfall. If a carpet is fitted in upstairs rooms or first or second floor flats then lower impact noise can make a real difference to the people below.

For carpets, impact sound is reduced through two factors. The first is the sponginess of the underlay, and the second is its thickness. In this respect the factors that influence impact sound reduction are almost identical to those that influence comfort, so unsurprisingly the more comfortable an underlay the better it is at muffling the sound of footfall.

Wood and laminate floors also benefit from underlay. Tests show that a rubber underlay such as Silentfloor Gold or Timbermate Excel will significantly reduce the acoustic noise levels of wood and laminate flooring. It's important to choose the right one, and that means using sponge rubber because low cost underlays such as PE foams have so much air in them they act like echo chambers and actually amplify the sound.

There are two ways to measure impact sound reduction, depending upon whether you are fitting a carpet or a hard floor. For carpet the sound reduction is measured in decibels (dB), and each 3dB is halving the amount of sound produced by footfall so 6dB is 1/4 of the sound, 9dB is 1/8 of the sound, etc. Sone is a measure of how loud something is, so a lower Sone is better - typical hard floors will have a Sone over 70 without underlay, and a Sone of 57 or less with a dense sponge rubber underlay.



Carpet

We recommend Tredaire® Colours Red, Sensation and Dreamwalk, see pages 15, 16 and 22 for product details.







Wood & Laminate floor

We recommend Duralay® Silentfloor Gold, Silentfloor and Timbermate Excel, see pages 30 and 31 for product details.







Airborne Sound

Airborne sound leaking from one room to another can be a constant problem; imagine noisy neighbours in a flat above or below you, or your children learning to play the drums upstairs.

Airborne sound which is transmitted from one room to the next is reduced by adding mass into the partitioning wall or floor. It's not just about the density of the underlay, it's a combination of density and thickness, which then equates to a mass per square metre.

The very best underlays for airborne sound reduction are the crumb rubber and high density sponge rubber underlays. PU foam underlays are not suitable at all.

There are some critical factors when fitting flooring to reduce sound transmitted between rooms. Noise will easily seep through small cracks, so underlay and flooring must be fitted tight up to the edge of the walls which means that it is better to use a double-stick fitting than a stretch fit over gripper. In addition, each roll or piece of underlay must be tightly butted up to the next one and they must be taped together to stop them "gapping".

If fitting a hard floor then don't use nails which will couple the floor to the sub-floor, the best method is a floating floor. However, the expansion gap must be filled with a flexible silicone filler or similar.

Carpet

We recommend Tredaire® King, Colours Red and System Ten, see pages 15, 19 and 23 for product details.







Wood & Laminate floor

We recommend Duralay® Silentfoor Gold, Timbermate Excel and Duratex, see pages 30 and 31 for product details.







Moisture Protection

Solid ground sub-floors, such as concrete or stone, can be very cold and prone to dampness which will damage any underlay and flooring. These floors should always have a DPM installed prior to any flooring. An underlay with a built-in vapour barrier can help protect the flooring from moisture.

When fitting an underlay with a moisture barrier the gold/silver moisture barrier must be face down, then the top of the seams must be taped using an appropriate vapour proof tape such as Gripperrods® Vapour Tape (6450).

We recommend Duralay® Silentfloor Gold and Timbermate Excel, see pages 30 and 31 for product details.





> *An underlay with a built-in vapour barrier can help protect the flooring from moisture.*



Underfloor Heating

There are three main types of underfloor heating.

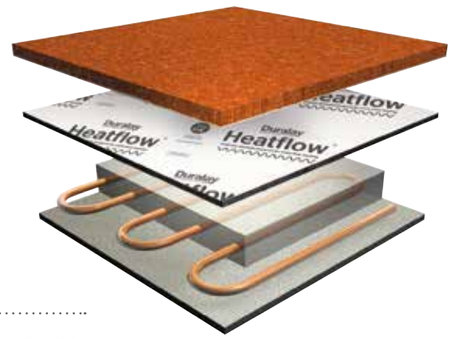
Hydronic (or wet) UFH uses a series of pipes laid under the floor through which hot water is pumped.

Forced Air UFH uses heated air which is passed through a series of ducts laid under the floor.

Electric (or dry) UFH uses a conductive cable laid under the floor which is heated by passing a current through the wire, just like a heated blanket in a bed. The heating element is normally laid in a pattern on to the sub floor. We do not recommend underlay is used with Electric (or dry) UFH.

There are two main considerations when choosing an underlay to work with UFH. The first is the tog of the underlay, which must be below 1.0 to make sure that enough heat gets through to the room; the second is the ability of the underlay to withstand the direct heat of the UFH system without drying out and crumbling.

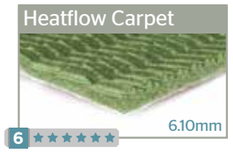
Although a tog of less than 1.0 is normally sufficient, the tog should be as low as possible. Underlays designed for UFH in combination with a carpet are particularly specialist, and a target tog should be 0.8 or less for hard flooring underlays a tog should be ideally less than 0.4.

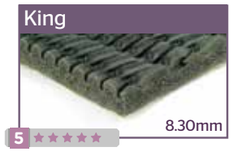


"The tog of the underlay must be below 1.0 to make sure that enough heat gets through to the room.

Carpet

We recommend Duralay® Heatflow Carpet, Tredaire® King and Defender, see pages 16, 19 and 29 for product details.







Hard floor

We recommend Duralay® Heatflow Wood & Laminate, see page 30 for product details.



Wood & Laminate Floor

Hard flooring underlay provides some specific benefits that don't apply to carpet underlay.

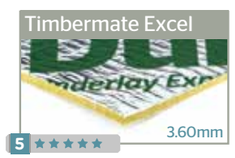
One of the most important benefits is a reduction in impact sound. Footfall on a hard floor can be both loud and sharp, and the right underlay will make a big difference in reducing and mellowing the sound. In this case, the right underlay means using sponge rubber because low cost underlays such as PE foams have so much air in them they act like echo chambers and amplify the sound.

Hard flooring underlay means it is easier and quicker to fit the flooring because the underlay will help to iron out minor imperfections in the sub-floor, and it also helps to protect the joints. If used on a floor above the ground floor the underlay adds mass to the floor which helps to reduce airborne noise transmitted from the rooms below, while on the ground floor an underlay with a barrier keeps moisture at bay on concrete and stone floors.

Underlay for hard floors is a specialist technical product, and so all our hard flooring underlays are Duralay®. For impact and airborne sound reduction there is a fitting issue to consider. If the flooring is nailed to the sub-floor then the difference the underlay makes is considerably reduced because the flooring is rigidly coupled to the sub-floor; it is much better to have a floating floor.

We recommend Duralay® Silentfloor Gold, Timbermate Excel and Duratex, see pages 30 and 31 for product details.







Durability

Some parts of the home have to endure more traffic than others. Where that's the case, an underlay which is durable and resistant to continuous footfall is vital or the carpet will wear. In addition, rooms with heavy furniture benefit from a durable underlay because it will resist indentations for longer - this is called 'point loading'.

Our PU foam underlays typically demonstrate good durability in a domestic setting, while crumb rubber is the ultimate underlay for durability in any application and out-performs all other underlay types.

Typical domestic rooms where durability is important are:

- **Hallways**, where there is a lot of traffic down one narrow path
- **Stairs,** where the edge of the carpet on the tread wears quickly
- **Dining rooms**, if there is heavy dining furniture
- **Lounges**, if there is heavy lounge furniture

For commercial applications, durability is important when there are large areas with a lot of foot traffic.

Our rating for durability is:

6★	premium durability
5★	extra durability
4★	hard wearing
3★	general

"Our PU foam underlays typically demonstrate good durability in a domestic setting, while crumb rubber is the ultimate underlay for durability in any application



We recommend Duralay® Durafit® 650, Durafit® 500 and Tredaire® System Ten, see pages 23 and 29 for product details.









High & Wheeled Traffic

Certain areas get a lot of footfall, such as hallways and stairs, and the consequence can be that the carpet gets compressed, flattens and suffers from premature wear.

An even harder situation for the carpet is where there is wheeled traffic, such as wheelchairs or powered scooters. In these circumstances the wheels are always pulling laterally against the carpet, quickly causing stretching and rucking. This is often referred to as the 'bow wave effect'. Of course, it's not just the impact that mobility equipment has on the carpet, it works the other way round - the carpet impacts the performance of mobility equipment. People with impaired mobility, who might be using wheeled walkers or zimmer frames, don't want a bouncy surface to walk on, they much prefer a firm surface which provides a feeling of surefootedness.

In all cases the underlay itself gets a lot of wear and tear, and the narrow wheels and weight of wheelchairs and scooters put a lot of load onto a very small area which is incredibly tough for underlay to cope with.

The solution is to use a hard wearing underlay and to double-stick it. The very best underlays in this instance are therefore crumb rubber underlays.



We recommend Duralay® Durafit® 650, Durafit® 500 and Tredaire® System Ten, see pages 23 and 29 for product details.



Flame Retardancy

In certain situations, particularly public buildings, ships and hotels, a flame retardant underlay is required to meet the building regulations.

There are two ways of achieving flame retardancy. One is to use chemicals that absorb heat (these are called endothermic compounds) and reduce the temperature of the fire, and the other is to use chemicals which release water when heated which helps to quench the fire. Aluminium Trihydrate does both, and this is a key component of Duralay® Counterflame, giving this underlay a self-extinguishing property. There are different levels of flame retardancy which are appropriate for different applications. Tredaire® FR7 is particularly suitable for commercial applications such as hotels and public buildings, while Duralay® Counterflame and Tredaire® Flamecheck are IMO certified and are incredibly popular solutions for the most demanding applications such as cruise ships.



We recommend Duralay® Counterflame, Tredaire® Flamecheck and FR7, see pages 17 and 28 for product details.



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Natural Floor Coverings

Natural floor coverings, such as Seagrass, Coir, Sisal and Jute are made from natural products and tend to be woven, which makes them more prone to stretching and harder to fit. They expand and contract with the room temperature, which can make them look loose and rucked in the summer.

Issues such as these mean that the best method is to double-stick the underlay, so Durafit® is the perfect solution.

> *The best method is to double-stick the underlay, so Durafit® is the perfect solution.*



We recommend Duralay® Durafit® 650, Durafit® 500 and Tredaire® System Ten, see pages 23 and 29 for product details.



Large Areas

In a normal domestic environment a small percentage of stretching on a carpet which is not too large equates to a small amount of actual stretching in millimetres. On a large area, such as an office, a hotel ballroom or a restaurant, a small percentage stretch on a big carpet equates to several centimetres, which will easily show as a ruck in the carpet. To make matters worse, the more the traffic the more likely a carpet is to stretch over time, and the very places where large areas need carpeting are also normally high traffic areas.

Where there is high traffic a low quality underlay will flatten. Flat patches will quickly show up against other areas of the carpet.

The solution is to use a highly durable underlay, which will normally mean a crumb rubber, and to double-stick it to firmly anchor the carpet to the underlay and the underlay to the floor, e.g. Duralay® Durafit®.

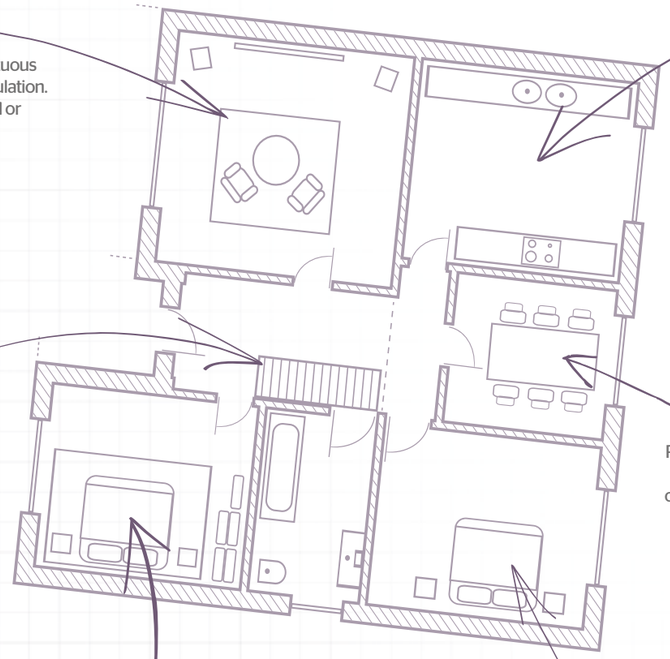


We recommend Duralay® Durafit® 650, Durafit® 500 and Technics 5, see page 29 for product details.



Applications around the home

The modern home can have many different underlay requirements. Use this guide to help your customer find the best underlay to ensure their new flooring will feel comfortable underfoot and look better for longer. Below are some suggested recommendations.



Lounge

Premium underlay for sumptuous comfort and superb heat insulation. We recommend **Colours Red** or **Sensation** by Tredaire®.

Kitchen

Specialist underlays to support wood & laminate flooring joints and reduce in-room noise by up to 30%. We recommend **Silentfloor Gold** by Duralay®.

Staircase & Landing

High traffic and high impact require hardwearing underlay, a dense crumb rubber underlay is ideal for these areas. We recommend **Treadmore** by Tredaire®.

Dining Room

Protect your carpet from heavy furniture and high traffic with one of our dense crumb rubber underlays. We recommend **System Ten** by or **Treadmore** by Tredaire ®.

Master Bedroom

Choose from our premium luxurious underlays for the ultimate in comfort. We recommend **Dreamwalk** by Tredaire®.

Other Bedroom

For rooms with less traffic try our economical range of underlays to suit all budgets. We recommend **Zest** by Tredaire®.

Applications in contract installations

Duralay® and Tredaire® underlays have been installed successfully in thousands of contract installations around the world. Our diverse range of products offer the ideal solution to give the contractor and end user peace of mind. This is why they have been selected as the underlays of choice by most of the leading international hotel groups.



Restaurants & Meeting Rooms

Heavy furniture may be moved around occasionally - so we recommend 4★ or 5★ Duralay® double-stick crumb rubber underlay with over 90% recovery from pressure indentations.



Corridors

A high traffic area requires the enhanced resilience and stability of a Duralay® double-stick crumb rubber underlay in order to provide increased protection against wear.



Guest Rooms

We would recommend a 4★ or 5★ comfort underlay from Tredaire®.



Decorative Borders

Duralay® crumb rubber double-stick underlays allow the carpet installation to be cut to produce decorative carpet effects.



Reception Areas

Heavy furniture may be moved around occasionally - so we recommend 4★ or 5★ Duralay® double-stick crumb rubber underlay with over 90% recovery from pressure indentations.



Laminate Floored Areas

We would recommend a 5★ or 6★ wood & laminate underlay from Duralay® to reduce noise by up to 30%.

tredaire Duralay

Selecting your underlay

A simple visual guide to help you select a range that will meet the needs of your customers. These are the top performing underlays for each application, in order of performance from left to right.

Comfort

Colours Red 11.40mm	Sensation 11.00mm	Citra 11.00mm	Granduro 11.00mm	Dreamwalk 11.00mm	Colours Green 10.30mm	Verdanio 10.00mm	Jazz 12.00mm	Elite 9.75mm	

Warmth

Dreamwalk 11.00mm	Jazz 12.00mm	Citra 11.00mm	Granduro 11.00mm	Sensation 11.00mm	Verdanio 10.00mm	Softwalk 9.00mm	Zest 10.00mm		

Impact Sound **Carpet**

Colours Red 11.40mm	Jazz 12.00mm	Dreamwalk 11.00mm	Colours Green 10.30mm	Citra 11.00mm	Granduro 11.00mm	Sensation 11.00mm	Hallmark 9.50mm		

Impact Sound **Wood & Laminate**

Silentfloor Gold 4.20mm	Timbermate Excel 3.60mm	Silentfloor 3.00mm							

Wood & Laminate Flooring

Silentfloor Gold 4.20mm	Timbermate Excel 3.60mm	Silentfloor 3.00mm	Heatflow Wood & Laminate 3.00mm	Duratex 3.60mm					

Underfloor Heating **Carpet**

Heatflow Carpet 6.10mm	King 8.30mm	Defender 6.10mm	Durafit® 500 Double Stick 5.25mm	Counterflame Double Stick FR 6.25mm					

Underfloor Heating **Wood & Laminate**

Heatflow Wood & Laminate 3.00mm	Silentfloor Gold 4.20mm	Silentfloor 3.00mm							

Contract **High Traffic**

Durafit® 650 Double Stick 6.50mm	Durafit® 500 Double Stick 5.25mm	System Ten Double Stick 9.20mm	Technics 6 Double Stick 6.00mm	Technics 5 Double Stick 5.00mm					

Durability

Durafit® 650 Double Stick 6.50mm	System Ten Double Stick 9.20mm	Durafit® 500 Double Stick 5.25mm	Treadmore 7.95mm	Super Mark 3 6.75mm					

