

Technical specifications

Sarlon 15 dB, Sarlon 19 dB and Modul'up 19 dB meet the requirements of EN 651 and ISO 11638
Modul'up Compact meet the requirements of EN 10582

		Sarlon 15 dB	Sarlon 19 dB	Modul'up 19 dB	Modul'up Compact	
	Total thickness	EN ISO 24346	2.6 mm	3.4 mm	3.45 mm	2.0 mm
	Wear layer thickness	EN ISO 24340	0.70 mm	0.70 mm	0.70 mm	0.70 mm
	Commercial use	EN ISO 10874	34	34	34	34
	Industrial use	EN ISO 10874	42	42	42	43
	Packaging		Rolls	Rolls	Rolls	Rolls
	Roll length	EN ISO 24341	25 ml	25 ml	25 ml	25 ml
	Roll width	EN ISO 24341	2 m	2 m	2 m	2 m
	Total weight	EN ISO 23997	2.700 g/m ²	2.900 g/m ²	2.830 g/m ²	2.600 g/m ²
	Impact sound reduction	EN ISO 717-2	$\Delta L_w = 15$ dB	$\Delta L_w = 19$ dB	$\Delta L_w = 19$ dB	n.a.
	In-room impact noise	NF S 31-074	$L_{n,e,w} < 65$ dB, Class A	$L_{n,e,w} < 65$ dB, Class A	$L_{n,e,w} < 65$ dB, Class A	$L_{n,e,w} < 75$ dB, Class B
	Sound absorption	EN ISO 354 EN ISO 11654	$\alpha_w = \pm 0.05$	$\alpha_w = \pm 0.05$	$\alpha_w = \pm 0.05$	$\alpha_w = \pm 0.05$
	Residual indentation typical value Requirement	EN ISO 24343-1	0.05 mm ≤ 0.20 mm	0.08 mm ≤ 0.20 mm	0.08 mm ≤ 0.20 mm	0.02 mm ≤ 0.10 mm
	Slip resistance	DIN 51130	R10	R10	R10	R10
	Abrasion resistance	EN 660-2	T	T	T	T
	Castor chair resistance	ISO 4918	Yes	Yes	Yes	Yes
	Furniture leg resistance	EN ISO 16581	compliant	compliant	compliant	compliant
	Dimensional stability	EN ISO 23999	≤ 0.10 %	≤ 0.10 %	≤ 0.10 %	≤ 0.10 %
	Colour fastness to light Requirement	EN ISO 105-B02	7 ≥ 6	7 ≥ 6	7 ≥ 6	7 ≥ 6
	Stain resistance	EN ISO 26987	Excellent	Excellent	Excellent	Excellent
	Surface treatment		XtremPUR™	XtremPUR™	XtremPUR™	XtremPUR™
	Emissions into air: TVOC* at 28 days	EN 16516	≤ 0.01 mg/m ³	≤ 0.01 mg/m ³	≤ 0.01 mg/m ³	≤ 0.01 mg/m ³
	REACH (European regulation)	1907/2006/CE	compliant ⁽¹⁾	compliant ⁽¹⁾	compliant ⁽¹⁾	compliant ⁽¹⁾
	Compliance EN 14041		0200860-DOP-010	0200860-DOP-010	0200859-DOP-010	0200862-DOP-010
	Reaction to fire	EN 13501-1	B ₁ -s1, L, NCS	B ₁ -s1, L, NCS	B ₁ -s1, L, NCS	B ₁ -s1, L, NCS
	Slip resistance	EN 13893	$\mu \geq 0.30$	$\mu \geq 0.30$	$\mu \geq 0.30$	$\mu \geq 0.30$
	Body voltage	EN 1815	≤ 2 kV	≤ 2 kV	≤ 2 kV	≤ 2 kV
	Thermal conductivity ⁽²⁾	EN 12524 (EN ISO 10456)	0.25 W/(m.K)	0.25 W/(m.K)	0.25 W/(m.K)	0.25 W/(m.K)

⁽¹⁾ The articles (products) do not contain substances of the candidate list published by ECHA (SVHC substances of very high concern) to be declared in accordance with REACH.
⁽²⁾ The products are suitable for underfloor heating.
⁽³⁾ To strictly follow the Forbo cleaning recommendation process is the best protection against infection.
TVOC: total volatile organic compounds



All Forbo Flooring Systems' sales organisations worldwide have a certified Quality Management System in accordance with ISO 9001.
All Forbo Flooring Systems' manufacturing operations have a certified Environmental Management System in accordance with ISO 14001.
The Life Cycle Assessment (LCA) of Forbo Flooring Systems' products is documented in individual Environmental Product Declarations (EPDs) which can be found on all of our websites.

Baltic States

Forbo Flooring
K. Улмана гатве 5
Рига, LV-1004, Латвия
Tel: +371 70 66 116
Факс: +371 70 65 117
info.lv@forbo.com
www.forbo-flooring.com

Belgium - Dutch

Forbo Flooring
T Hofveld 4B 001
1702 Groot-Bijgaarden
Tel: +32 2 464 10 10
Fax: +32 2 464 10 11
info.belgium@forbo.com
www.forbo-flooring.be

China

Forbo Shanghai Co., Ltd.
Room 2302,
Golden Magnolia Plaza West Building
No. 1 Da Pu Road
Shanghai 200023
T: +86 21 64734586
F: +86 21 64734757
www.forbo-flooring.com.cn

Czech Republic

Forbo s.r.o.
Novodvorská 994
142 21 Praha 4
Česká republika
T: +420 239 043 011
F: +420 239 043 012
info@forbo.cz
www.forbo-flooring.cz

Ireland

Forbo Ireland Ltd.
2 Deansgrange Business Park
Blackrock, Co Dublin
T: 00353 1 2898 898
F: 00353 1 2898 177
info.ireland@forbo.com
www.forbo-flooring.ie

Poland

Forbo Flooring Polska
ul. Jeleniogórska 16
60-179 Poznań
Poland
T: +48 (61) 862 13 82
F: +48 (61) 622 71 75
info.pl@forbo.com
www.forbo-flooring.pl

Russia

Forbo Flooring Russia
19, Leninskaya sloboda, of.29
115280, Moscow
T: 007 495 269 18 21
F: 007 495 269 18 25
moscow-office@forbo.com
www.forbo.ru
www.forbo-flooring.ru

Other Countries

Forbo Flooring B.V.
PO. Box 13
1560 AA Krommenie
The Netherlands
T: +31 75 647 74 77
F: +31 75 647 77 01
contact@forbo.com
www.forbo-flooring.com



Acoustic vinyl

sarlon® 15dB | 19dB Glue down flooring
modul'up® 19dB | compact Loose lay flooring



25 x 2 m

forbo

FLOORING SYSTEMS

creating better environments

creating better environments

forbo

FLOORING SYSTEMS



307 | pastel blue nairobi 9602 | grey graphito 878 | dark green uni

DIVERSITY, BETTER TOGETHER

We live in a demanding world. The criteria for decision making in projects are diverse, but in all cases the very best is expected for the performance of the floor. This collection offers the most comprehensive and qualitative answer to all your needs.

Diversity

Forbo Flooring proudly presents one concept with an unprecedented diversity of products. Acoustic, compact and compact acoustic; glued or fully loose laid. Everything is covered in this concept. And looking at the designs, it is hard to imagine a concept with more diversity in patterns.

XtremPUR™ is an extremely high-performance lacquer protection which provides the best possible resistance against stains, scuffs and scratches and provides a matt aesthetic.

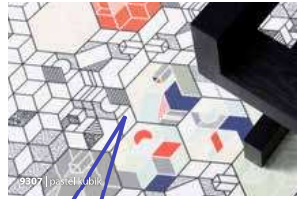
Better together

All elements in this range sparkle in their individual diversity and quality, but we also found ways to create connections and commonality. We are sure that all elements work better together.

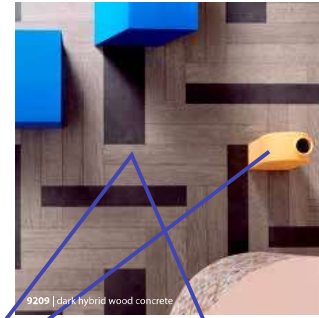
XtremPUR™ is on every single product of the range, all designs are available in all products and the design concept is connected into one easy to understand and use constellation. It is possible to combine different functionalities in a project. **Sarlon and Modul'up are better together.**



307 | pastel blue nairobi 9602 | grey graphito 9609 | black graphito



9307 | pastel cubik



9209 | dark hybrid wood concrete



337 | indigo blue canvas 307 | pastel blue nairobi



9607 | blue graphito

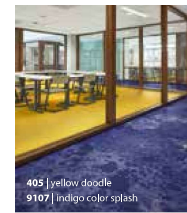
DYNAMICS OF A BUILDING

The Dynamic of a Building philosophy no longer looks at the traditional split in segments, but works from a philosophy that is based on the identity a space has and what function it has for the users. In a project there are many functions that need to be fulfilled and using this identity as a guiding system works on ensuring the optimal atmosphere and design in a building.

There are 5 dynamics

- Receiving
- Moving
- Connecting
- Concentrating
- Recharging

Each dynamic has its own unique colour dialogue with its genuine identity created by the contrast, intensity and positioning of the colours. It is the overall expression of the selected colours that represents the defined atmosphere. The individual colours can easily be updated when needed whilst keeping the total feel intact.



405 | yellow doodle 9107 | indigo color splash



9201 | light hybrid wood concrete



8412 | grey silver oak

BETTER TOGETHER

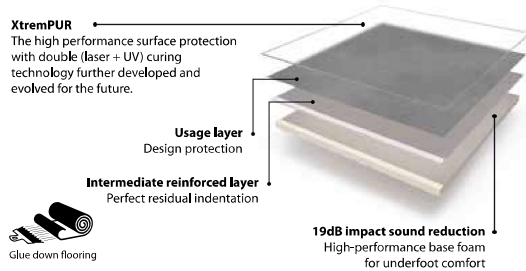
Forbo Flooring produces a wide variety of ranges, designed by a large team of designers from around the globe. They all work according to similar design principles in which the dynamics of a building play an important role. They all work together to create a global colour card, based on the latest trends and projections for the future. This means that different ranges can complement each other and when different functionalities are required for a project it is always possible to combine different Forbo Flooring products. When there is a need they do work better together.

For this range we have taken the concept a step further. All individual designs and colours have their own story and strength, suitable for use in a huge variety of applications. But this range was built in a constellation that is not just offering these individual "stars", but also show very strong links between the elements to create a full concept. The "moodboard" above shows how several designs from this collection can be used alongside each other to produce a complementary floor design that is both visually striking and high performing.

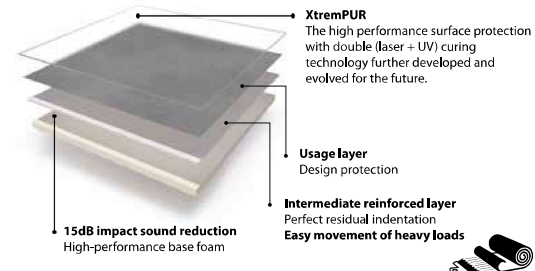
Because, as you know, if something is done well the end result is bigger than just the sum of individual parts. And this is what we show: **we are better together.**

Sarlon 19dB

The best acoustic **high traffic** product in the market. Highest acoustic sound reduction of 19dB. **Best residual indentation** for a 19 dB acoustic product. High performance characteristics in all other areas.

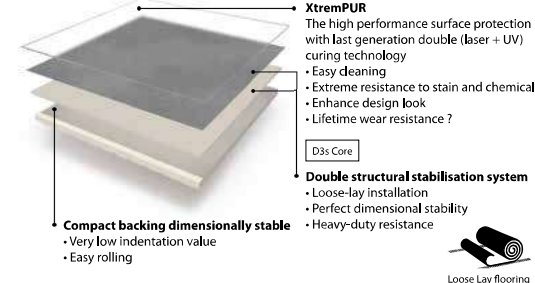


XTREM PUR™



Modul'up 19dB

The best **fully loose laid** sheet acoustic solution. Quick installation (without disturbing occupied areas), immediate use possible. Long term benefit of very quick replacement and removal, saving money over time. Offering all benefits of the **best performing acoustic** with less overall material.



Sarlon 15dB

The **best compromise** on acoustic and high load requirements. **Low residual indentation**, suitable for heavy loads. 15dB acoustic performance for additional comfort at **high performance**. A **unique** product proposition in the market.

Modul'up compact

The best **fully loose lay** sheet compact solution. Speed of installation and renewal reduces downtime and is immediately **ready for use** after installation. Compact and strong **solution for heavy traffic** and intense use. Possibility to use over existing flooring, no need to remove on many occasions.

All constructions are available in all colours of our acoustic and loose lay offer.



Sound reduction

There are two different types of sound that can impact your working or living environment. The **in-room impact** sound is related to impact sound in the room itself. You want to reduce this to create a more calm and pleasant environment. All products in this range offer a lot of sound reduction and are rated Class A, so best possible class and will bring this benefit to create a better environment.

Impact sound relates to the sound that is transmitted through the floor from one level to the level below. Reducing this impact sound is a critical characteristic in more and more environments and with our 19dB products we offer the best possible improvement on impact sound from rooms above, as measured in EN ISO 717-2. In combination with the other superior performance characteristics Forbo Flooring is really leading in this important contributor to well being in many occasions.

Indentation resistance

Floors need to be strong to remain beautiful and indentation under pressure can be a major issue. For projects where sound reduction is the key priority, our 19 dB solutions offer excellent acoustic properties with residual indentation performance that's best in class. For areas where sound reduction is required but the floor covering may be subjected to very heavy or rolling loads, Sarlon 15 dB will give you the optimum balance between acoustic performance and residual indentation.

When pressure is applied continuously or with very acute pressure points (for example, a table leg) then a compact solution is recommended. Modul'up Compact offers the highest resistance to residual indentation, with the additional benefit of an adhesive free installation.





Ultimate protection for Saron and Modul'Up.
Better together!

The high performance surface protection with double (laser + UV) curing technology further developed and evolved for the future.







4803 | vanilla stardust 307 | pastel blue nairobi

Stain resistant

The XtremPUR™ lacquer offers the best possible resistance against stains. This collection is ideal for the healthcare segment where potential chemical spillages may cause stains.

Result after cleaning with water and neutral detergent according to the EN ISO 26987 standard

	Contact time	Regular PUR lacquer	XtremPUR lacquer
 Betadine alcoholic solution	After 30 minutes		
	After 2 hours		
 Eosin alcoholic solution	After 30 minutes		
	After 2 hours		
 Potassium permanganate	After 30 minutes		
	After 2 hours		
 Permanent marker Onyx Only with XtremPUR the permanent marker stains can be easily and totally removed with a regular eraser.			



651 | silver slabstone 9402 | natural terrazzo

Easy to clean in minimal time at reduced costs

Xtrem PUR creates a 3D surface protection acting as a true shield against soiling. The floor is easy to clean and needs no wax or polish. This also saves time and money when cleaning the floors



Durable and longlasting

Tested in the most intensive and aggressive conditions. Xtrem PUR surface protection shows excellent performance against scuffs and scratches. Xtrem PUR is the most durable solution. It remains beautiful over time even in high traffic or demanding areas.

Matt surface

Xtrem PUR improves the visual of the flooring giving it a more realistic and less glossy appearance.



Extreme resistance to scratch after abrasive sand test (300 cycles) compare to standard PUR surface treatment



The acoustic solution

sarlon® 19 dB

Sarlon has a long history of being the best acoustic product on the market. The 19dB acoustic performance and comfort, in combination with the best residual indentation has given this product the leading acoustic position over years. This will not change.

The performance of this product is further enhanced through the introduction of Xtrem PUR™ to Sarlon 19dB which brings many additional benefits in the use of this product.

This means Sarlon 19dB remains beautiful over the years of usage. The beauty of the over 90 options in colour and design will remain beautiful throughout the life time of the product.

It can be used in any project where acoustic and heavy traffic needs to be combined

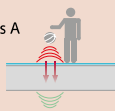


Its acoustic efficiency complies with the regulations

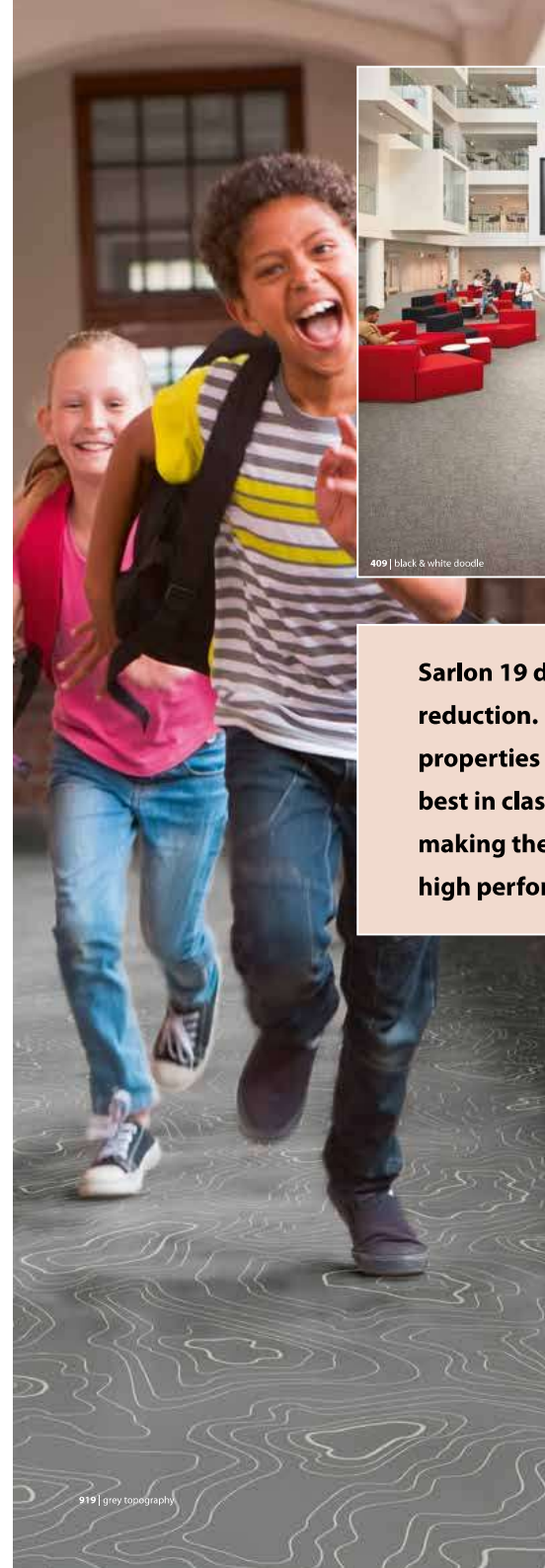
The highest acoustic and best indentation performance in the category.



Class A



Sarlon 19dB is the most comfortable and easy to use solution for high traffic areas.



Sarlon 19 dB is the perfect solution for sound reduction. It offers the best possible acoustic properties along with a residual indentation that is the best in class for acoustic solutions, with XtremPUR™ making the product easy to maintain whilst offering high performance protection.

Technical specifications

Sarlon 19 dB meets the requirements of EN 651 and ISO 11638

		Sarlon 19 dB
Total thickness	EN ISO 24346	3.4 mm
Wear layer thickness	EN ISO 24340	0.70 mm
Total weight	EN ISO 23997	2.900 g/m ²
Impact sound reduction	EN ISO 717-2	ΔL _w = 19 dB ✓
In-room impact noise	NF S 31-074	L _{n,e,w} < 65 dB, Class A ✓
Sound absorption	EN ISO 354 EN ISO 11654	α _w = ± 0.05
Residual indentation typical value	EN ISO 24343-1	0.08 mm ✓
Requirement		≤ 0.20 mm ✓
Slip resistance	DIN 51130	R10 ✓
Dimensional stability	EN ISO 23999	≤ 0.10 % ✓
Surface treatment		XtremPUR™ ✓
Abrasion resistance	EN 660-2	T ✓
Stain resistance	EN ISO 26987	Excellent ✓
Emissions into air: TVOC* at 28 days	EN 16516	≤ 0.01 mg/m ³ ✓
Reaction to fire	EN 13501-1	B _s = s1, L, NCS ✓

The hybrid solution without compromise

sarlon® 15 dB

Sarlon is offering a unique product proposition in the market. Particularly for very demanding circumstances with heavy loads and intense traffic this product combines very good acoustic properties in combination with performance characteristics that are normally expected from a compact product. A true compact acoustic product.

The full range of over 90 items is available in this one of a kind solution that is finding its way successfully already for many years in to a wide variety of demanding projects.

The wide choice of aesthetics and colours makes it suitable for many dynamic environments. The Xtrem PUR protection that is introduced with this new collection will ensure a high quality performance with easy maintenance for many years of use.



3812 | light grey cristal

Offering excellent residual indentation performance for an acoustic floor covering and perfect for high traffic environments

	Pressure level $L_{p,r}$ concrete slab floor	Pressure level $L_{p,r}$ with Sarlon 15dB	
18 cm	74 dB	59 dB	✓
20 cm	72 dB	57 dB	✓
22 cm	70 dB	55 dB	✓

Typical needs in hospital environments

≤ 60 dB

PR 0.05 mm ≤ 0.10 mm Requirement for compact flooring

Sarlon 15dB is the acoustic solution for areas where the highest indentation performance is key.

NF EN ISO 24343-1



303 | nairobi sand 8514 | pure chill oak

Sarlon 15 dB is a unique solution for areas with high acoustic requirements and the most demanding environments in terms of residual indentation performance. With chemical resistance, easy maintenance and long-lasting performance of Xtrem PUR™ it is the perfect solution in for example healthcare.

Technical specifications

Sarlon15 dB meets the requirements of EN 651 and ISO 11638

		Sarlon 15 dB
Total thickness	ENISO 24346	2,6 mm
Wear layer thickness	ENISO 24340	0,70 mm
Total weight	ENISO 23997	2,700 g/m ²
Impact sound reduction	ENISO 717-2	$\Delta L_w = 15$ dB ✓
In-room impact noise	NF S 31-074	$L_{n,eq,w} < 65$ dB, Class A
Sound absorption	ENISO 354 ENISO 11654	$\alpha_w = \pm 0,05$
Residual indentation typical value Requirement	ENISO 24343-1	0,05 mm ≤ 0,20 mm ✓
Slip resistance	DIN 51130	R10 ✓
Dimensional stability	ENISO 23999	≤ 0,10 % ✓
Surface treatment		XtremPUR™ ✓
Abrasion resistance	EN 660-2	T ✓
Stain resistance	ENISO 26987	Excellent ✓
Emissions into air : TVOC* at 28 days	EN 16516	≤ 0,01 mg/m ³ ✓
Reaction to fire	EN 13501-1	B _s - s1, L, NCS ✓

3801 | pearl cristal

Committed to the future modul'up®

Modul'up is the best loose lay floor covering available for high traffic applications. It can be installed quickly without adhesives, but is even more time and cost efficient at time of replacement. Millions of m² has been sold around the world which has proven that the Modul'up adhesive free concept is trusted and reliable. The range is suitable for sustainable solutions due to the reusability of the product.

Modul'up is available in an acoustic (19 dB) and compact version. Both formats offer the best possible quality and durability, now enhanced with the introduction of XtremPUR™ protection on all products. Both have the benefit of not having to use installation adhesive and are very suitable for busy areas: installation time is reduced by up to

50% compared to standard, glued down products and there is minimal disruption or lingering adhesive odours. Modul'up can be walked on immediately after installation. As minimal subfloor preparation is required, over 20% of costs can be saved when using Modul'up compared to a standard, glued down product.

The full range in acoustic and compact is available in over 90 designs and colours, which makes this a concept that can be used in a wide diversity of applications and dynamics.

Both products offer the benefits that can be expected from products in the acoustic and compact category. It offers you solutions for every requirement, now and in the future.

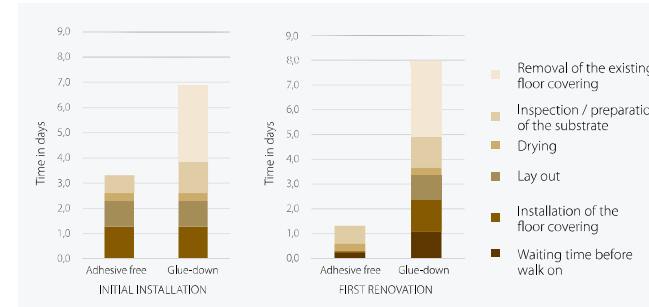


NEW BUILDS

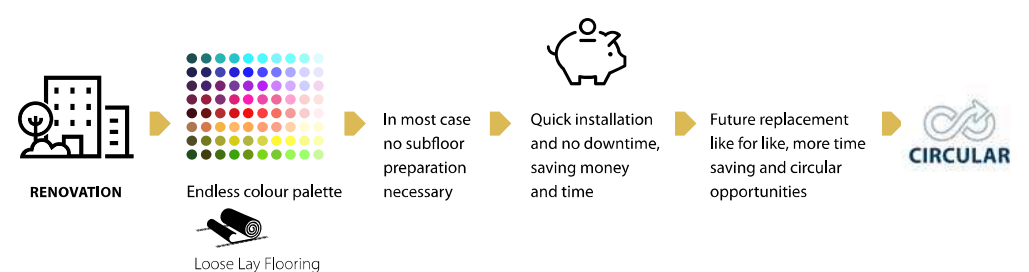
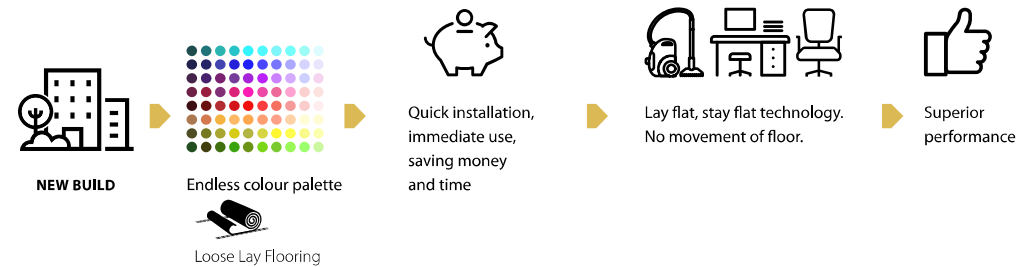
- Shorter installation times
- Reduced maintenance and service costs
- Same supplied & fitted price as a glue-down floor covering (initial installation)

RENOVATIONS

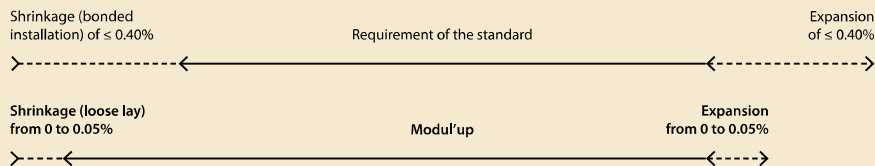
- Installation while premises are in use without any disruption (noise, dust, adhesive odours etc.)
- Instantly ready for use after installation
- Possibility of covering old floor tiles (ceramic tiles, compact vinyl, etc.)



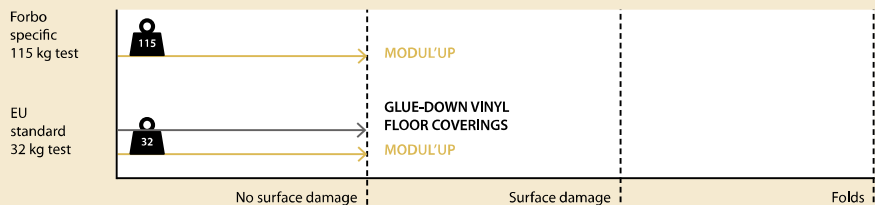
Modul'up adhesive free floors, the advantages at a glance



Perfect dimensional stability | Dimensional stability test EN-ISO 23999



Resistance to extreme stresses | Results of the furniture leg resistance EN 424 (ISO 16581)



Loose lay flooring, the circular solution

modul'up® 19dB and compact

Modul'up 19 dB

- The adhesive free acoustic sheet solution
- Rapid installation with minimal downtime and disturbance, and can be walked on immediately after use
- Long term benefit of very quick removal, replacement and end of life recycling or reuse, saving money over time
- As part of Forbo's Fast Flooring collection, Modul'up can reduce downtime by over 50% compared to standard, glued down products

Modul'up compact

- The adhesive free compact solution
- Speed of installation and renewal reduces downtime and is immediately ready for use after installation.
- High performance for heavy traffic and intense use, including where rolling loads may be part of the everyday use
- Can be installed over existing flooring in many instances, removing the need for expensive and time-consuming subfloor preparatio



9309 | dark kubik 4804 | copper stardust

Modul'up is a proven adhesive free solution with millions m² installed around the world.



9307 | pastel kubik

Focusing on the present by anticipating the future. Modul'up products are part of the circular economy product design concept and do not require any glue or tape.

Technical specifications

Modul'Up 19dB meet the requirements of EN 651 and ISO 11638. Modul'up Compact meet the requirements of EN 10582

		Modul'up 19 dB	Modul'up Compact
	Total thickness	EN ISO 24346 3.45 mm	2.0 mm
	Wear layer thickness	EN ISO 24340 0.70 mm	0.70 mm
	Total weight	EN ISO 23997 2.830 g/m ²	2.600 g/m ²
	Impact sound reduction	EN ISO 717-2 $\Delta L_w = 19$ dB	✓ n.a.
	In-room impact noise	NF 531-074 $L_{n,e,w} < 65$ dB, Class A	$L_{n,e,w} < 75$ dB, Class B
	Sound absorption	EN ISO 354 EN ISO 11654 $\alpha_w = \pm 0.05$	$\alpha_w = \pm 0.05$
	Residual indentation typical value	EN ISO 24343-1 0.08 mm	0.02 mm
	Requirement	≤ 0.20 mm	≤ 0.10 mm
	Slip resistance	DIN 51130 R10	✓ R10
	Dimensional stability	EN ISO 23999 ≤ 0.10 %	≤ 0.10 %
	Surface treatment	XtremPUR™	✓ XtremPUR™
	Abrasion resistance	EN 660-2 T	T
	Stain resistance	EN ISO 26987 Excellent	✓ Excellent
	Emissions into air : TVOC* at 28 days	EN 16516 ≤ 0.01 mg/m ³	✓ ≤ 0.01 mg/m ³
	Reaction to fire	EN 13501-1 B _s - s1, L, NCS	✓ B _s - s1, L, NCS

Installation and complementary products

Modul'up single-sided tape

Modul'up tape is part of the Modul'up system. To get all the benefits of a complete adhesive free installation, Forbo Flooring recommends the use of the Modul'up tape.



PVC welding rod

Matching welding rods exist for all items in this collection. Look at our website for the full offer.



Sarlon Complete Step

An acoustic PVC floor covering that is specially made for installation on staircases. Thanks to the foam backing, Sarlon Complete Step ensures a good sound insulation of 17 dB. The stair nosing is integrated in the structure and has a different colour allowing a visible contrast.

311 | light grey zebrano 632199 | linea light grey, nose black



Entrance Flooring

Entrance flooring is fundamental to modern building design. A well designed entrance flooring system will prevent dirt and moisture from being tracked in and thereby prolongs the life of interior flooring, reduces cleaning & maintenance costs and the potential for slip injuries. With both textile (Coral) and rigid (Nuway) Entrance Systems in our portfolio, we can offer an entrance solution for every situation.

5767 | slate blue

Other acoustic and loose lay solutions



85E32 | anthracite seagrass

Acoustic Luxury vinyl tiles and planks come together in our **Allura decibel** collection.



18802 | elegant oak 17422 | beton concrete

When both acoustics and slip safety are important, you can choose **Surestep decibel**



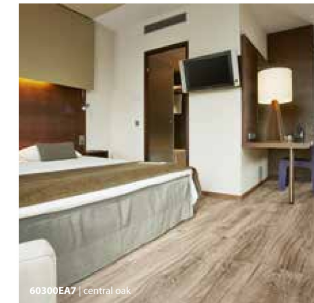
386035 | silver shadow

Our natural Marmoleum combined with an acoustic layer, we offer **Marmoleum decibel** for noise reduction



60065PZ7 | honey elegant oak

Pop up stores, supermarkets, large areas can be quickly updated with **Allura puzzle**.



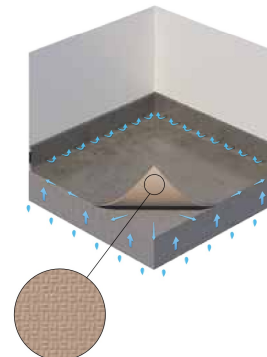
60300EA7 | central oak

Quick installation and no downtime can be realised with our loose lay luxury vinyl tiles **Allura Ease**.



63420CLS | burned oak 63432CLS | smoke cement

Our luxury vinyl tiles **Allura click** can be linked together and ensure a solid loose lay solution.



Modul'up TE

The solution for damp sub floors. Installation of flooring on damp sub floors is a general issue in the market. Current solutions mostly contain a combination of products requiring a long, complex and costly installation process. Modul'up TE is an easy, economic and hassle-free solution for installation on damp subfloors. It can be installed in heavy traffic areas and it offers the benefits of loose lay installation.