



BY APPOINTMENT
TO HER MAJESTY THE QUEEN
CARPET MANUFACTURERS
BRINTONS CARPETS LIMITED, WIDENMINSTER

Brintons



Healthcare+

technical user guide

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The Brintons story

A Brintons woven carpet is born from well over two centuries of experience and expertise.



Wherever you are and whatever your project, Brintons has the product, expertise and capability to create innovative and timeless solutions. From hotels to airports, restaurants to convention centres, cruise ships to offices; Brintons has produced award-winning carpets that have combined innovative design with quality and outstanding performance.

These skills, and our understanding of your needs, position us perfectly to help make your healthcare environment more welcoming.

Style built on practical foundations

Brintons mission to make the world a more beautiful place now turns to wellbeing and healing environments.

We passionately believe everyone deserves a gracious living and working environment.

Whatever needs our clients have, Brintons has inclusive design options tailored to meet them.

From clinics and hospitals, to homes for seniors and the less abled; Brintons range of beautiful healthcare carpets feature state of the art technologies. Safety, comfort and practicality are all yours.

For too long selecting healthcare products has meant a choice between style or functionality; now Brintons brings you both. Style need never be compromised again.



Why Brintons healthcare carpet?

Brintons healthcare carpets offer a wealth of benefits and peace of mind:

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Soft and stable

We're much less likely to slip and fall on carpet, and if we do the impact is lessened dramatically with a softer landing.

Acoustics

Soft carpets mean less noise. Footsteps fall more quietly, and other noise is dampened in the soft pile.

Flammability Performance

Class I rated US Flammability Test (ASTM E648-09a), certified within EN14041 European CE mark, and ISO 9239 radiant panel test.

80% Wool, 20% Nylon blend or 100% Solution Dyed Nylon

Choose our durable wool blend for the ultimate in comfort; or our fully synthetic alternative where bleach cleaning is required.

Design

Our impressive pattern matching and controlled processes enable large areas to be covered with striking designs.

Colour critical

For colour fastness use Solution Dyed Nylon. For bespoke colours use our 80/20 wool rich blend which can be colour matched.

Impervious

Adding our impervious latex means spills won't make it through the carpet.

Protecting

Anti-microbial technology is added front and back - giving two layers of protection.

Low resistance

A low pile height, and our integrated axminster production method, make it easy for all kinds of wheeled traffic to get going and keep moving; be that chairs, beds or equipment.

Anti-allergy

Carpets are better for allergy sufferers – acting as a natural filter; trapping allergens until they are removed by the cleaning process. Adding our anti-microbial treatment enhances this effect.

Investment

A well designed carpet adds value to a property. Both financially, by making the building more desirable to others; and emotionally by creating a better healing environment.

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Long lasting

Brintons carpets look good for longer; that's why they are used in airports and other high footfall buildings worldwide.

Easy to clean

Designed to be easy to clean, our cut pile carpet products help you keep them looking fresh. No matter what life throws at them.

Anti-static

Both our 80/20 and Solution Dyed Nylon contain tiny conductive fibres. Protecting against electrostatic charges, for the duration of the product life.



Selecting the right flooring

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Choosing the right flooring is critical in any healthcare environment. The primary consideration should be how acute the level of care is.

Solutions by acuity level

Acuity	High	Moderate	Low
Typical areas	Wards, nursing areas	Bedrooms, day rooms	Communal areas
Spills	Very frequent	Regular	Occasional
Spill type	Primarily body fluids	Primarily body fluids / occasionally foodstuffs	Primarily foodstuffs / occasionally body fluids
Cleaning	Very frequent	Frequent	Regular
Maintenance	Very frequent	Frequent	Regular
Impervious backing	Yes	Yes	Optional
Anti-microbial	Yes	Yes	Optional
Recommended flooring	Impermeable, non-porous hard flooring e.g. vinyl	SDN axminster	80/20 axminster

We make carpets, we **live** design

We built our reputation on leading edge design. It's a journey which has no end. Everyday we work hard to bring the latest global colours, styles and trends to life.

Whilst there are particular needs in healthcare for cleaning, durability and infection control. There is no reason why we can't meet these needs in a beautiful way by using clever, inclusive design which meets the technical requirements and produces a living, healing or ageing environment of real beauty.



Your design team

We offer a dedicated design service with over 80 designers worldwide.

Using our Design Service Online, it is easier than ever to recolour solutions perfect for your building using our vast array of designs.

We hold the worlds largest carpet design archive, with centuries of eye catching designs, steeped in history and used in iconic buildings worldwide. If you don't see the design you want in one of our published collections, we are certain to have something perfect for your healthcare project in our archive.

Our unrivalled pattern matching ability enables you to create stunning interiors by selecting large designs across floor spaces without worrying about mismatched patterns and colours.

Sampling

Woven samples can be produced quickly and efficiently to help bring your project to life and reassure you that the finished design will fit in perfectly with your overall design theme.





Design inspiration for healthcare

We understand that whilst there are many limiting factors in designing a healthcare environment, everywhere is different, and yet design shouldn't be to the lowest common denominator. With this in mind, we offer a range of patterned and plain options.

The designs we have created are selected to promote a comfortable healing environment. Traditional and organic patterns and designs promote a sense of wellbeing, whilst more contemporary patterns are also available for those wanting something right on trend.

We would recommend thought is given to the residents or clients of your facility. We understand that larger patterns, or high degrees of contrast, can be disorientating to some. Whilst others will find that having zones using different patterns and colours aid their ability to navigate.

We provide you with a range of options to make an informed choice based on your own expert knowledge of your client's needs. If you can't see the right design, then please contact us and we will be delighted to help find a bespoke solution.

Why carpet?

Making a house feel like a home. Making healthcare feel less clinical. These things are important, and they make a real difference to the welfare of clients and carers.

Brintons have been at the forefront of carpet design since 1783 because we continue to meet those nurturing, homely desires which bond us all. We believe we meet those needs best because of the materials we use and the care taken in design.



U.S. national guidelines for control of infection in healthcare areas highlight the advantages of carpet in terms of enhancing the environment, noise reduction and reducing the incidence and severity of slips and falls.

Source: Guidelines for Environmental Infection Control in Health-Care Facilities. U.S. Department of Health and Human Services Centers for Disease Control and Prevention, 2003.

Breathe easy

Our carpets are proven to trap airborne fibres, helping lessen the risk to asthma and other allergy sufferers. Controlling airborne transfer of allergens and infections is particularly important for young, seated or bedbound residents who breathe nearer to ground level.



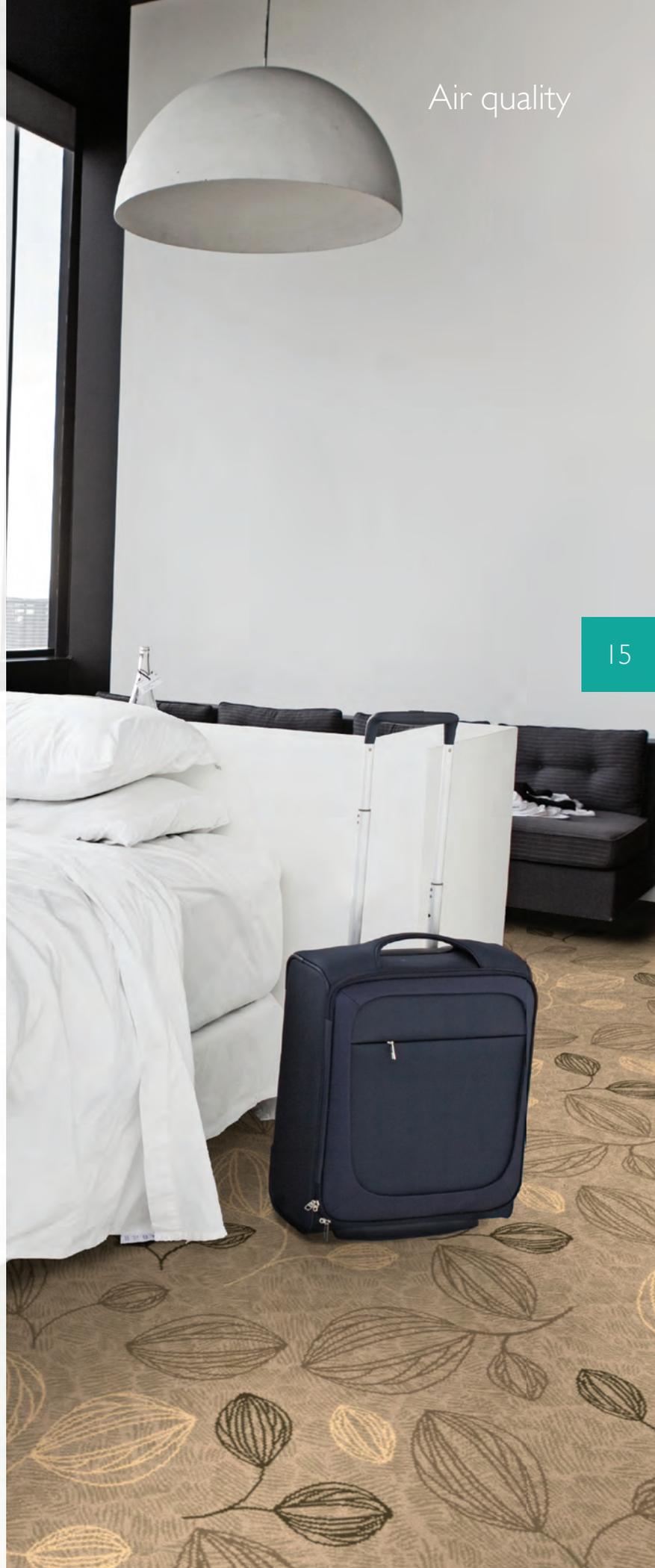
Minimal Volatile Organic Compounds

Carpet is the lowest Volatile Organic Compound (VOC) emitter of all common flooring choices, and one of the lowest emitting products used in construction.

Many newly made items emit gasses from VOC. There may be distinctive odours which can be perceived as dangerous. In other cases, such as with a new car, the smell is actually perceived to be pleasant to many people.

New carpet smell is due to VOC, usually from the backing material. It will diminish and disappear in time dependent upon the level of ventilation in the room.

US and German research found the effect of VOC from new carpets in creating indoor air pollution to be minimal, and much lower than the impact of other commonly used materials. For example, paint gives off 200 times as much VOC.

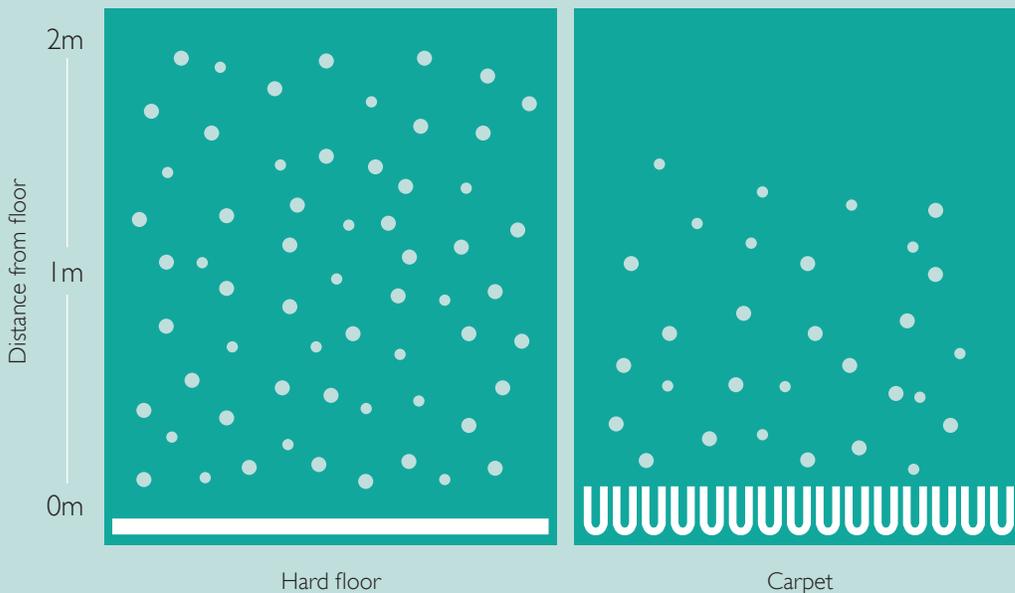


Air quality studies

An independent study by Deutscher Allergie und Asthmabund e.V. (the German Allergy and Asthma Society) found that carpeting dramatically reduces the fine dust load in interior spaces, benefiting allergy sufferers and providing a significant advantage over hard floors.

Recognising the shift in science which now finds carpet to help rather than hinder allergy sufferers, and to the persuasive argument that the filter like properties of carpet entrap allergens in the pile, preventing its release into the atmosphere.

DAAB found fitted carpets provide an advantage over smooth floor coverings for allergy patients. Their research has shown that air in rooms with smooth floor coverings holds, on average $62.9 \mu\text{g}/\text{m}^3$ of fine dust concentration which exceeds the established limit of $50 \mu\text{g}/\text{m}^3$. The air in rooms with fitted carpets, however, contains an average of only $30.4 \mu\text{g}/\text{m}^3$, well below the limit. Source: Fitted carpets: advantages for allergy patients. DAAB, 2005.



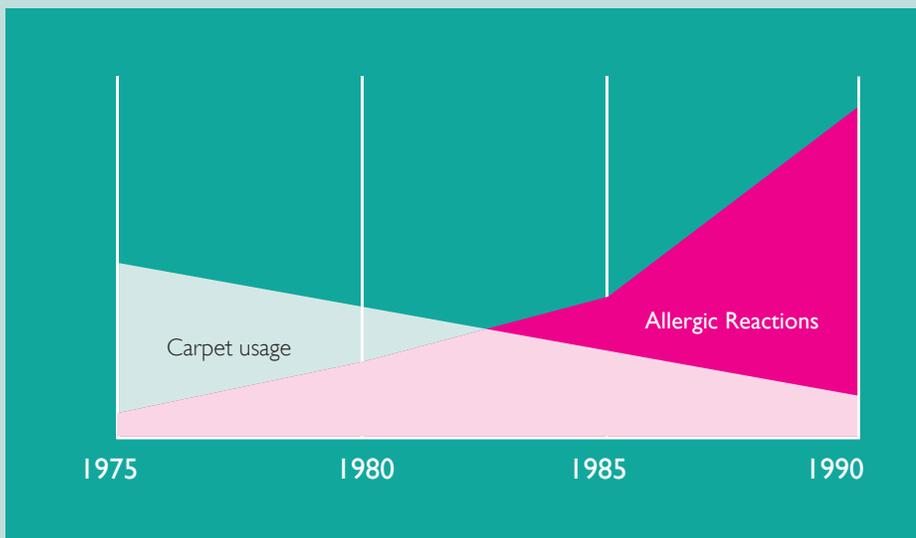
Fine dust particles

A study by the German Asthma and Allergy Federation (DAAB), has shown that the air over smooth floor coverings contains, on average, $62.9 \mu\text{g}/\text{m}^3$ of fine dust particles whilst over carpet the average is $30.4 \mu\text{g}/\text{m}^3$. Carpet is therefore their recommended floor covering for those prone to asthma.

The 18 nation, European Community Respiratory Health Survey study of nearly 20,000 people found a statistical relationship between carpeted bedrooms and reduced asthma symptoms and bronchial responsiveness.

Source: Zock, J.P., D. Jarvis, C. Luczynska, J. Sunyer, and P. Burney. 2002. Housing Characteristics, reported mould exposure, and asthma in the European Community Respiratory Health Survey Journal.

“We aimed to investigate the associations between housing characteristics related to dampness, mould exposure, and house dust mite levels and adult asthma in 38 study centres from the European Community Respiratory Health Survey. Fitted carpets and rugs in the bedroom were related to fewer asthma symptoms and bronchial responsiveness”.



Carpet usage and allergic reactions in Sweden

Asthma cases and carpet

Where a significant decline in carpet use has taken place asthma cases have risen dramatically. In Sweden, there was a 77% reduction in carpet use over a 15 year period between 1975 and 1990. The incidence of asthma increased by over 300% in the same period. Carpet usage is now increasing.

Noise reduction

We all know quality rest is critical to our recovery and comfort. Carpet reduces noise, promoting peace and quiet.

In an environment where patient confidentiality is important, carpet will help too.

There are two big benefits:

Less noise is made. Footsteps falling on a soft Brintons carpet can barely be heard, and likewise any movements of equipment or patients.

Less noise is heard. One of the best ways to reduce overall decibel levels through the living environment. Your Brintons carpet absorbs noise whereas hard surfaces amplify it.



Hard floor



Carpet

A clearer view

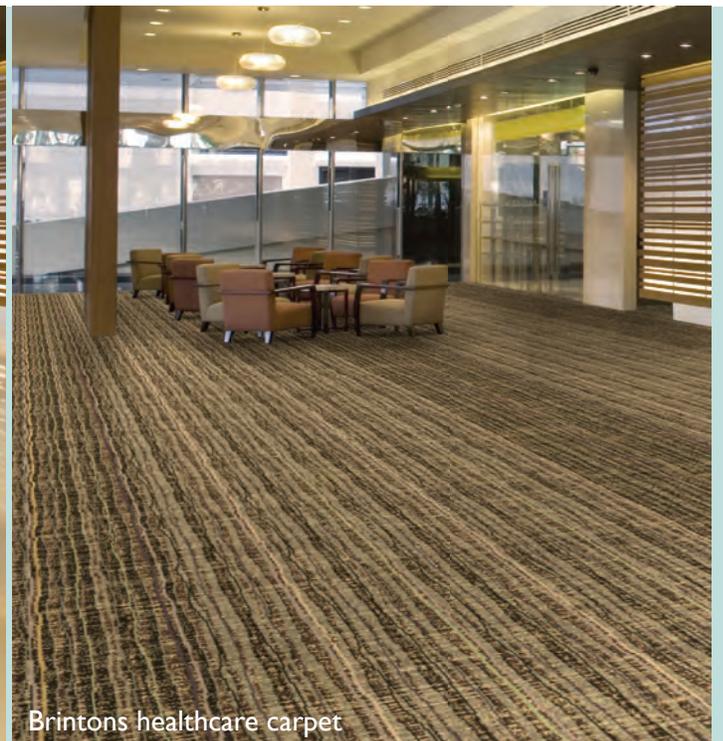
Carpets reduce glare. We've all seen a highly polished, wet or hard floor reflect light which can disorientate or even make us feel dizzy. Contrast this with the soft, non-reflective qualities of a Brintons healthcare carpet.

Where there is an abundance of natural or artificial light, a carpet is the best choice to negate its impact and promote a homely environment.

Information on light reflective values (LRV) is available on request.



Hard floor



Brintons healthcare carpet



Leg fatigue

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Comfort from the feet up

A luxurious Brintons healthcare carpet provides the ultimate cushioned walking surface, and will dramatically reduce leg and foot fatigue when compared to a hard floor.

Therapeutic conditioning to the feet, knees and easier on the back; the benefit will be felt by clients and carers alike.

Soft and stable

In any environment the occasional slip and fall is inevitable. With a soft carpet the consequences can at least be mitigated. There is no such thing as a safe fall, but a carpet will at least provide a softer landing.

Carpet helps reduce falls as there is more friction, so the surface is less slippery than hard surfaces. The gentle give underfoot also helps those with balance issues find a sound footing.

Keep on rolling

Many healthcare environments use wheeled equipment including chairs, beds and trolleys.

We offer low, dense carpets which minimise the drag on 'rolling traffic'. The reduced pile height offers a perfect balance of comfort, durability and ease of movement.

The really clever part is our unique method of backing the product, which despite being totally impervious, is also

very thin. This helps alleviate any risk of 'tram lining' which can be reported with some lower specification carpets with thicker secondary backings.

Using human factors research, including Snook and Ciriello's 1991 study into ergonomics and the forces used to push and pull various loads, we can be confident a Brintons carpet provides a very practical solution.

80/20

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The natural choice

Brintons 80 percent wool, 20 percent nylon blend, set the standard for high quality carpet.

Offering the comfort and luxury of real wool, with enough nylon to prolong the life expectancy of the finished product dramatically, whilst taking nothing away from its natural look and feel.

Brintons 80 percent wool, 20 percent nylon blend, has naturally insulating qualities, bringing real warmth to a room.

Super resilient

Where very frequent and intense cleaning is needed we recommend Solution Dyed Nylon.

This fully synthetic alternative to natural wool offers outstanding colourfastness. Solution Dyed Nylon has colour added to the material during production rather than afterwards. It is the superior colourfast system.

Just as we use the highest quality wools, we source our Solution Dyed Nylons from the world's leading manufacturers.

Our products have guarantees covering durability, colourfastness and product life expectancy.

Benefits of SDN

- Hardwearing
- Colourfast
- Soil resistant
- Easy to clean
- UV resistant
- Durable
- Rot proof
- Shrink proof

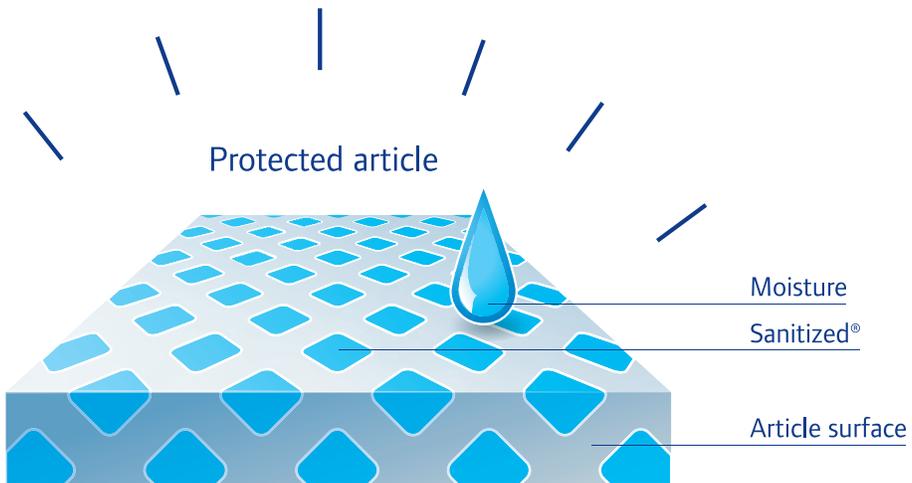
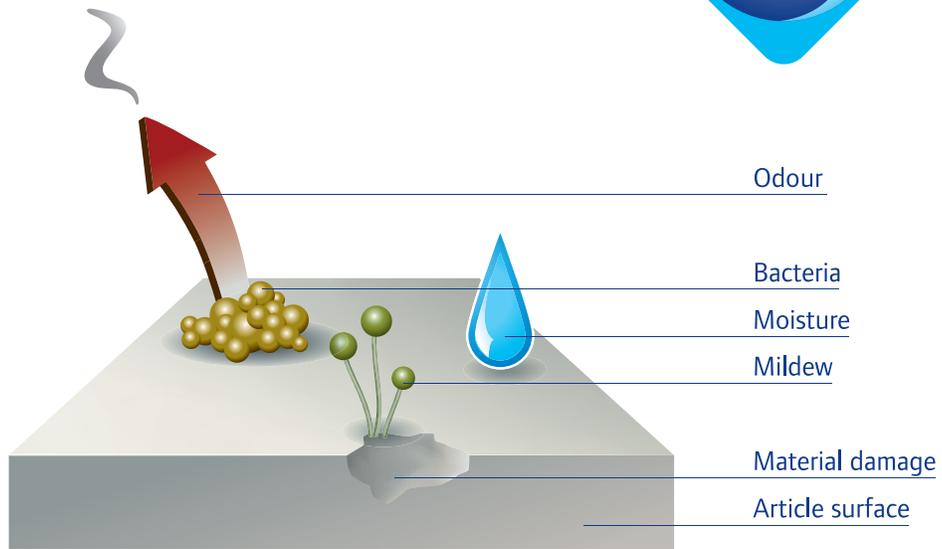
Sanitized[®] anti-microbial

When you specify a Brintons healthcare carpet with our optional anti-microbial protection, you can be assured that there is clever inclusive technology at work helping to protect your hygiene and improve your comfort.

Comfort Comfort exists when you feel safe and completely relaxed. Carpets which carry the Sanitized[®] Quality Seal, make this perception of wellbeing possible. The effectiveness of the integrated hygiene function is long-lasting and reliable.

Breathe easily and relax. An encompassing sense of security is there for you and your family. Sanitized[®] provides a reassuring feeling of lasting freshness so that you can be certain that everything has been done to ensure perfect hygiene in your home.

Protection The integrated Sanitized[®] hygiene function reliably and permanently equips material against bacterial and fungal growth depending on individual needs. By preventing unsightly mildew spots not only the optical appearance is retained but also the material structure. Unappealing mould stains do not appear and you benefit from an extended useful life. Active biocidal substance: benzisothiazolinone / octylisothiazolinone / permethrin.



We've got your back

Because we know how easy it is to spill a coffee, and because we know that very often coffee won't be the only spills our carpets see; we've developed a unique impervious backing.

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Added as an integral part of the manufacturing process, rather than glued on as an afterthought, a Brintons impervious back provides the ultimate watertight impermeability.

Tested to withstand the rigours of the British Spill Test, our impervious back prevents liquid ingress. This means when accidents do happen, the spill can be contained and cleaned easily, with nothing passing through into the fabric of the building.

The impervious back also makes more regular wet cleaning no big deal, so along with our anti-microbial treatment you have extra peace of mind.

Of course where regular spills of blood, urine or other bodily fluids are possible we would recommend Solution Dyed Nylon and our anti-microbial treatment are used in conjunction with the impervious back.

Our healthcare carpets can be seamed together effectively joining the backing of each piece of carpet together. This provides a continuous impervious layer. As Brintons healthcare carpets come in widths of up to 4 metres, many typical rooms can be covered with a single piece.



Simulated images of Brintons healthcare carpet



High integrity axminster weave



Impervious backing and anti-microbial protection

Project management

You can be confident that your project will be delivered on time and to budget. From start to finish your project will be championed by your own project manager who will guide you through the entire process from initial project shaping, planning and estimating right through to installation, aftercare and maintenance.

Installation

In partnership with our global network of installation professionals, we can offer you a full installation service including technical supervision and on-site advice.

Direct sticking of a Brintons healthcare carpet to the floor is the conventional installation system for areas where wheeled traffic and optimum rolling resistance is required. Conventional carpet adhesives can be used.

Where underlay is preferred, generic options of crumb and sponge rubber underlay are suitable, again using conventional adhesives.

Sustainability

Our commitment

Our vision for the future is an entirely sustainable manufacturing process and a legacy we are proud to leave to the next generation.

We will continuously seek new ways to refine our processes and the materials we use to limit their impact until our environmental vision is achieved.

All Brintons' manufacturing sites have environmental management systems in place and are accredited to the ISO 14001:2004 International Environmental Management System, a structured framework for identification, control and improvement of environmental impacts.

Quality assured

We offer you complete assurance in our ability to deliver the highest quality flooring solutions, with rigorous quality management systems and procedures in place to deliver consistent and reliable quality registered and accredited under ISO 9001:2008.

Global approvals

We work hard to comply with environmental accreditation schemes. If there is a particular approval relevant to your specification, please contact your Brintons representative to discuss eligibility.

All Brintons standard carpets comply with the CRI Green Label and positively contribute towards LEED.

Cleaning and maintenance

Soiling

The main causes of soiling are from airborne dust and foot, wheelchair or trolley traffic. Eating areas are prone to high levels of soiling as are entrance areas. In healthcare soiling from bodily fluids is a key consideration.

Barrier matting

Barrier matting is a very effective method to prevent soiling. The first line of defence is heavy duty matting fitted outside or immediately inside the entrance. A lighter duty, all textile mat is an effective second line of defence, fitted close to heavy duty matting or loosely laid in high traffic areas.

Regular vacuuming

Brintons carpets should be vacuumed immediately after installation and then at regular intervals to remove hard abrasive particles which can cause pile damage and discolouration.

For our cut pile carpets, Brintons recommends vacuum cleaners with cylindrical rotating brushes and beaters.

Spillages and stain removal

For both 80/20 and SDN: Brintons recommends stain removers approved under the Woolsafe programme. Use in accordance with the manufacturer's guidelines and try on a small inconspicuous area first.

For SDN: the inherent bleach resistant properties of Solution Dyed Nylon make a diluted bleach solution suitable for use. It is essential this is tested on a small inconspicuous area prior to use.

Always undertake the removal of spillages, spots and stains before commencing any intensive cleaning operations. Act promptly, but do not rub, as this will cause pile distortion.

Commercially available cleaning systems

Brintons recommends the following methods using Woolsafe approved cleaning companies:

- Absorbent powder compounds
- Dry foam (cylindrical brush method)
- Hot water / spray extraction

Brintons do not recommend bonnet buffing / skimming or rotary brush cleaning systems.

Specification

Product Line	Impervious Back	Anti-microbial	Impervious + Anti-microbial
Solution Dyed Nylon	AX7010 SW	AX7010 SB	AX7010 SWB
	AX8010 SW	AX8010 SB	AX8010 SWB
	AX9010 SW	AX9010 SB	AX9010 SWB
	AX1010 SW	AX1010 SB	AX1010 SWB

Suffixes

B = Anti-microbial
S = Solution Dyed Nylon
W = Impervious

Also available

Axminster 80 / 20	AX718 W	AX718 B	AX718 WB
	AX818 W	AX818 B	AX818 WB
	AX918 W	AX918 B	AX918 WB
	AX1018 W	AX1018 B	AX1018 WB

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	80% Wool, 20% Nylon	Solution Dyed Nylon
Impermeable to CAMRASO method E6-1: 2002 (when specified with impervious backing)	YES	YES
European Flammability test compliant (CE ISO 9239)	YES	YES
U.S. Flammability test class I (ASTM E648-09a)	YES	YES
Wheeled traffic push/pull factors within Snook and Ciriello's guide	YES	YES
High colourfast performance	NO	YES
Anti-microbial (when specified with Sanitized® anti-microbial)	YES	YES



Brintons

making the world a more beautiful place

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