

Why Milliken?

Milliken & Company is an industry leader in innovation and has, at its headquarters in Spartanburg, South Carolina, one of the world's largest textile and chemical research centres. We employ over 100 research scientists and hold over 1600 patents.

If you look around you, you'll find Milliken products everywhere!

Our carpets, upholstery fabrics, napery and drapery are found in many of the world's finest hotels and restaurants.

Our apparel fabrics keep astronauts safe, skiers warm, baseball players smart and sportsmen comfortable.

Milliken chemicals give crayons their colour, plastic containers their transparency and car dashboards their durability.

For the automotive industry, you will also find Milliken interiors fabrics and air bag fabrics alongside a multitude of industrial materials including tyre cords, belts and hoses.

Our high performance industrial and coated substrate fabrics are engineered to combat extreme weather conditions and provide structure and stability in civil engineering projects.

Milliken's reputation within the floorcoverings industry is also unparalleled. Our unique Millitron® technology enables us to push the boundaries of carpet design with supreme flexibility.

This impressive design capability can help to create beautiful, inspiring interiors that will enhance any interior space – whether your project is a dramatic entrance hall, lively office area, sumptuous conference room, stunning boardroom or funky creative thinking area.



A recognised commitment to quality

Quality is integral to Milliken's philosophy. As an organisation we continually strive to provide innovative, better quality products by understanding our customers' requirements and expectations.

Our commitment to quality has been recognised worldwide with the British Quality Award, European Quality Award, Canadian Award for Business Excellence and the USA's highest quality accolade the Malcolm Baldrige National Quality Award.



Milliken Carpet Markets

Milliken has long been recognised as the industry's leading supplier of carpet tiles to the corporate office market. Due to advances in Millitron® imaging technology and the development of a wide variety of different base products, Milliken also serves major clients in the retail, leisure and public space sectors.

Office



Retail/Leisure



Public Sector



Public Space



Product and service benefits

A Lifetime of Protection

Extended 15 Year Wear Guarantee for Comfort Plus²® products.

Comfort Plus² is Milliken's latest cushion backing system manufactured from recycled material which provides a lighter weight sustainable solution with all the benefits of our original Comfort Plus² backing including:

- Significantly improved wear performance with a 15 year wear guarantee
- Luxurious underfoot comfort
- Sound absorbency of 32db
- 93% Compression recovery

Teflon® - a non-stick coating which makes soiling easier to vacuum out and enables liquid spills to be held on the surface of the carpet.

D-Stain™ - is an anti-stain finish that prevents liquid spills backing onto the carpet fibre allowing them to be easily cleaned out with water.



Industry Leading Design

Setting the trends in carpet styling

Milliken Carpet has a large and experienced design team. Our designers seek inspiration from a wealth of worldwide sources both within and beyond the interiors industry.

This commitment to design development enables us to take the lead position in developing styling and colour directions for the floorcoverings industry.



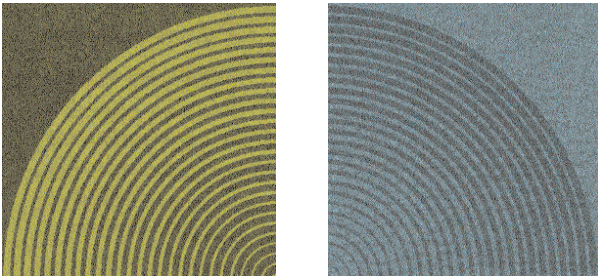
Millitron design capability

The Millitron is the world's leading carpet patterning technology and has been used worldwide for over 20 years to design millions upon millions of metres of carpet.

Unlike woven design technology, Millitron patterning offers supreme design flexibility and service advantages. Millitron patterning also achieves total dye penetration and fastness as well as clarity and accuracy of patterning.

Sustainability

Milliken Carpet is the first carpet manufacturer to achieve BRE (Building Research Establishment) Environmental Certification. Our cushion backing is manufactured from recycled polyurethane and all products are renewable through our Earth Square® carpet renewal process.



Incorporating pattern is a way of using Milliken's unique technology to create tonal, almost sculpted effects, whilst retaining the richness and clarity of the solid shade.

Millitron patterning can provide numerous benefits. It can:

- Enhance appearance retention by concealing soil, stains and wear
- Customise your environment
- Camouflage seams
- Alter perspective or focus attention
- Define areas
- Be used to create invisible walls
- Help create a corporate image
- Provide better opportunity for colour co-ordination
- Create visual texture and dimension
- Create mood
- Re-create a period of time

Field Design Service

Milliken offers a Field Design Service which helps to speed up the design process. Where you have a special project requirement, our carpet design professionals can work with you to create an outstanding one-off flooring scheme that will work specifically for your interior design project.

Guaranteed to Perform

- **10 and 15 Year Wear Guarantee**
- **15 Year Availability Guarantee**
- **Lifetime Anti-Static Guarantee**
- **Guaranteed against latent defects**

Unrivalled Service



Recognising the need for rapid response on many fast-track projects, the majority of Milliken products are offered on a 10 day service programme.

All of the designs in this book are available for despatch within a maximum of 10 days of order placement (in quantities up to 1000m²).

Comfort Plus² – The superior performance cushion backing

Comfort Plus² is a high performance cushion backing system which is manufactured from recycled material. It provides a lighter weight sustainable solution with all the industry leading benefits of our original Comfort Plus[®] backing.

Milliken Comfort Plus² backing protects the surface of the carpet by absorbing the effects of wear - keeping your carpet looking good, for even longer.

Comfort Plus² has been engineered to absorb the impact of foot traffic. The result is a reduction in pile crush and a resistance to the build up of traffic lanes and wear from castor chairs, to a much greater degree than hardback carpet.

Industry standard 'Traffic Simulator' tests show how, at extreme levels of wear, Comfort Plus² continues to protect the face of the carpet much longer than hardback.



Luxurious underfoot comfort and reduced leg muscle fatigue makes Milliken Carpet the ultimate alternative to hard flooring.

New ways of working have encouraged us to use our space more flexibly and interact more with other people. In a leisure or retail setting, encouraging people to 'linger for longer' is more important than ever.

The ergonomic benefits are clear. In tests, Milliken's Comfort Plus² backing has been proven to provide a 20% reduction in leg muscle fatigue compared to hard surface flooring. In the workplace, fresher, less tired staff means increased productivity.

The cushioning effect of Comfort Plus² offers the ideal ergonomic solution for any active environment.

Contact Details

For further information please contact Milliken Carpet on:

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The spring like structures in the open cells of Milliken's Comfort Plus² backing act as tiny shock absorbers to soak up the impact of heavy objects placed upon them.

Space is dynamic. We are constantly shifting and moving around to meet our ever-changing requirements. When replacing heavy desking or storage, the last thing you want to see is ugly indent marks.

After removing heavy furniture, Comfort Plus², recovers back to 93% of its original thickness offering excellent recovery and keeping your carpet looking as good as new.



Milliken's Comfort Plus² backing absorbs sound to a far greater degree than any hardback carpet or flooring alternative.

At work, noise is a key factor for disruption and loss of productivity, particularly in today's more open plan environments. For open spaces such as libraries and conference centres the benefits of good sound insulation are clear.

All carpet has a beneficial effect upon the absorption of reverberative noise. Comfort Plus² absorbs sound to a far greater degree than hardback carpet or hard flooring. The ability for Comfort Plus² to absorb sound helps to reduce interfloor noise and makes raised access floors sound more solid.

Comfort Plus² – The superior performance cushion backing

Ergonomically Superior



Sound Absorbent



Ultimate underfoot comfort



Unrivalled performance retention

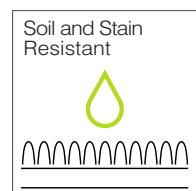
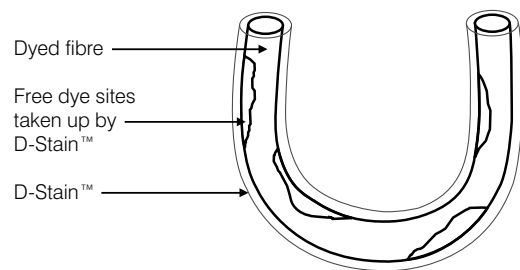


D-Stain™

Milliken's new **D-Stain™** finish offers exceptional protection, preventing liquid spills from leaving permanent stains on the carpet

Some spills such as coffee, tea and cola, if not cleaned up quickly, can lock onto the carpet fibres and cause ugly staining. Milliken's D-Stain™ offers an additional level of protection that enables you to easily remove stains using cold water.

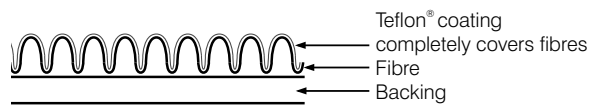
D-Stain™ locks into any free dye sites, preventing a spill from becoming a stain.



Teflon®

Most Milliken Carpet products are treated with Teflon® to repel soiling

The superior soilguard protection of Teflon® makes everyday soiling on the carpet much easier to vacuum out. Teflon®'s famous non-stick properties create a low surface tension on the face of the carpet which prevents soil from sticking to the carpet fibres.



By applying the treatment during our manufacturing process and curing it on the fibres the protection system is also durable over time to wear. Liquid spills are also held on the surface of the carpet to aid the clean up process.

Teflon® is a registered trademark of DuPont®.

Indoor air quality

Poor indoor air quality can make a significant contribution to absenteeism in the workplace

Milliken is leading the carpet industry in the promotion of indoor air quality

AlphaSan®

Anti-microbial inhibits bacterial growth and odours

All Milliken Carpet products are engineered with AlphaSan®, an advanced Milliken patented anti-microbial agent. AlphaSan® is a broad spectrum, silver-based anti-microbial which inhibits the growth of bacteria and fungi that can cause odours. Unlike some other anti-microbial agents, AlphaSan®'s silver-based formulation means that it is completely safe to humans.

Capture® Dry Cleaning System

Milliken's Capture® dry cleaning system also has a positive effect on indoor air quality by absorbing particles too small to be picked up by a vacuum cleaner such as tobacco smoke and sub-micron particles like dust mite allergens.



Tested for emissions of harmful gases

All Milliken carpet has been tested and certified by GuT, the German based 'Association of Environmentally Friendly Carpet Manufacturers' for no "off-gassing". Milliken Carpet is a co-founder member of GuT and is currently the only UK member.



MilliCare® – Carpet maintenance system

Taking care of your carpet investment

Purchasing a carpet is one of the largest capital investments any company can make. Milliken's commitment to service and quality does not end once your carpet has been installed. We have developed MilliCare – a unique carpet cleaning and maintenance system which meets our own exacting quality standards.

To ensure that you gain maximum value from your investment we have dedicated MilliCare contractors who are specially trained in the technical and practical aspects of your installation. Our contractors will create a tailored MilliCare carpet maintenance program which will ensure that you get the ultimate performance and life-span from your Milliken carpet.

Maximising your carpets appearance



Barrier matting

Up to 80% of the soil reaching a carpet is walked in from outside. One of the most effective ways of keeping soil off your carpet is to install the correct barrier matting. Areas of extreme soiling and staining such as entrances and drinks areas will benefit from using the Milliken Obex® range of barrier mats.

Daily maintenance

Efficient daily vacuuming

The MilliCare 360 upright vacuum has a rotary brush action which is far more effective than tub or cylinder type vacuums at removing loose soiling and debris within the carpet. It also helps to reduce pile crushing, therefore assisting with appearance retention.

Spot and stain removal

Most spots and stains can be removed using Capture soil absorbent powder and pre-spray. It is preferable to adopt a regular spot removal procedure. This can be done quickly and easily prior to daily vacuum cleaning.

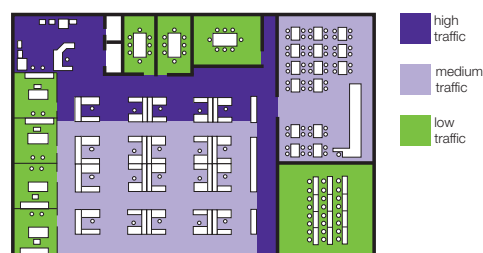
Periodic maintenance for smaller installations

For installations less than 250m² we have developed the MilliBox System. This contains all the necessary cleaning products and equipment (except the MilliCare 360 vacuum cleaner) to enable in-house staff to carry out regular cleaning. It is recommended that it is used in conjunction with a periodic clean by an approved MilliCare contractor.

Contract maintenance

Our worldwide network of MilliCare Approved Maintenance Contractors are carpet cleaning specialists trained and certified on an annual basis to provide a consistent standard of quality and service.

Site Plan



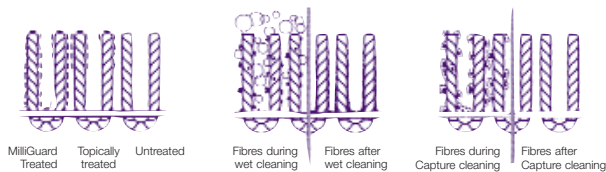
Our maintenance contractors will initially audit your carpet installation to ensure that each part of the building receives the appropriate amount of cleaning relative to the traffic and soil build-up it has to withstand. They will then undertake periodic checks to ensure that the programme continues to meet your requirements.

MilliCare®

MilliCare dry powder cleaning v s. wet cleaning

The **MilliCare Capture™ Cleaning System**, as provided by MilliCare Approved Carpet Maintenance Contractors, is Milliken's only recommended carpet maintenance system. It has been developed to ensure optimum levels of appearance retention and carpet performance throughout the life of the installation.

Alternative methods such as wet cleaning often leave chemical residues on the fibre, which mask the MilliGuard soil repellent treatment rendering it ineffective and causing rapid resoiling of the carpet, as well as matting down of the fibres. In addition to causing loss of appearance, certain cleaning methods for example "bonnet" or "spin" buffing may result in damage to or loss of fibre, therefore affecting the wear guarantee. Wet cleaning methods are likely to leave relatively high moisture levels within the carpet fibre, potentially providing one of the ingredients for the growth of mould, bacteria or other biological organisms. As the MilliCare Capture™ Cleaning System leaves no moisture or harmful residue it follows that it does not create the environment necessary for the growth of these organisms.



Milliken carpet can now actually last longer than a lifetime - still providing value for money when most other carpets are being thrown away.



For further details of this and other Corporate Solutions services from Milliken Carpet please call :

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Milliken Obex[®] - Barrier matting systems

Up to 80% of dirt in commercial and public buildings is carried in by pedestrian traffic. Floorings are the most abused element in any facility, and because of the cost of new carpet it is important to protect the investment as best you can. 95% of all carpet appearance problems are caused by soil and traffic patterns. Milliken Obex is a range of products designed to help keep dirt and soil walked in by pedestrians to a minimum.

Milliken Obex is a range of aesthetically co-ordinated products. The unique designs have an exceptional dirt hiding effect, and allow the product to integrate into all types of interior decor.

Prior

Prior is a flexible multi-purpose flooring product. Installed as primary outdoor matting, fitted into mat wells or applied to a variety of industrial and commercial tasks. Prior incorporates resilient scrapers to remove particulate dirt. The open structure allows efficient drainage. Prior can also be surface mounted using the Milliken Obex edging system.

Prior is available in base colours: Graphite and aluminium, both are fully compatible with Forma.



Forma

The combination of the patented Milliken Obex textile and the Prior module produces a revolutionary matting system for entranceways. Unequaled in performance and unique in aesthetics, Forma is fully compatible with Prior and is available in the same base colours: Graphite and aluminium. The textile inserts in Forma are available in the complete colour range of the Milliken Obex textile providing full co-ordination with Atrium Plus.



Atrium Plus

Combining the unique patented Milliken Obex textile with the Everwear[™] impervious backing, Atrium Plus offers a superior solution to protect floor coverings. Atrium Plus is primarily designed for high traffic applications such as reception and circulation areas - fitted wall to wall or simply loose laid on the floor.



OBEX

Cero and Cero Plus

Cero Plus together with Cero is the perfect entrance matting combination for buildings where there is no mat well, offering maximum flexibility in fitting solutions. Cero Plus with its alternative rows of heavy duty brushing monofilaments and absorbing fibres is a unique and highly efficient product for use as primary matting. As secondary matting, Cero is the ideal complement to Cero Plus thanks to its functionality in absorbing dirt and moisture. Cero and Cero Plus are manufactured in 25-meter long rolls with two borders on Everwear, impervious backing, offering the option between wall to wall fitting or loose laid on the floor. Cero mats are available in various sizes.



Logo

The Millitron® machine is unique to Milliken. It offers a method of dyeing the tufted textile ensuring a deep and intense colour penetration. Millitron Dyeing Technology locks in the colour for great appearance retention and long lifetime. The fine resolution of the dye jets gives a superior design definition and allows the production of complex colour graduation and shading. The largest choice of colours can be used in the same piece of textile matting - up to 60 colours. Digital system and design software specially created for Milliken in cooperation with IBM, enable us to produce highly sophisticated designs. We can receive and send designs electronically in order to make artworks more efficient.



Contact details

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Levitate™ – Office lifting system

Levitate is an office lifting system which enables you to re-carpet occupied office areas without the need to remove any furniture - **saving you time, money and disruption.**

Cost savings in excess of 50%

Re-carpeting an office area typically entails complex organisation and a long list of cost considerations:

- specialist furniture dismantling
- removal teams
- telephone engineers
- computer technicians
- storage
- staff relocation
- downtime

All of these costs are eliminated with Levitate.

Minimal downtime

Downtime for many companies means lost business. With Levitate, you can replace large areas of carpet overnight helping to keep downtime to an absolute minimum. Time-consuming disconnection of telephone lines and computer terminals is also eliminated.

No furniture damage

Unlike other office lifting systems Levitate's unique jack mechanism lifts your furniture in one smooth and controlled motion. This "no-jolt" system means that your office will be completely protected throughout the refit.

No staff disruption

Maintaining the confidence and support of staff is important during a refit. With Levitate there is no need for staff to waste time emptying and refilling desks and filing areas, as their workstations are kept completely intact and simply lifted!

A co-ordinated approach

A traditional refit often requires the services of numerous teams of different contractors. With Milliken's Levitate system, the whole job is handled by a single professional team, providing a reliable and totally co-ordinated approach.

How does Levitate work?

Levitate is a series of custom designed mechanical tools which are placed underneath any type of office furniture to lift it smoothly and safely.



Levitate's "no-jolt" screw system raises furniture off the ground in one smooth controlled motion.

The following clients have successfully used Levitate:

UK

Glaxo Welcome
Fidelity Investments UK
IBM
BT
Channel 4
LEK Partnership
E.ON
Unilever

Europe

Provincial, Dusseldorf
Chevron Texaco, Brussels

No more Logistical nightmares!

To find out more about how Levitate can help take the strain out of your carpet refit, please call Milliken Carpet on:

T +44 (0)1942 826073

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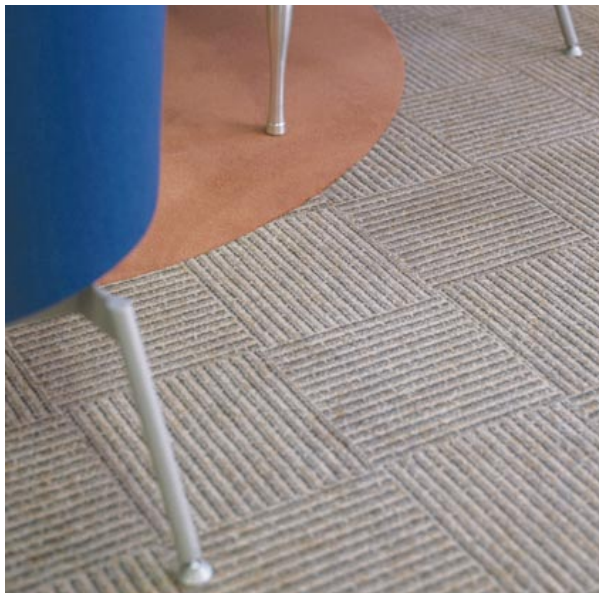
E carpetenquires@milliken.com



Sustainability

“In a typical building the floor covering can have a greater environmental impact than any other material.”

Source: Green Guide to Specification



Milliken Carpet has become the first commercial carpet manufacturer to achieve a Building Research Establishment environmental profile rating.

The BRE Rating is the construction industry standards which measures the environmental impact of any building materials - internal and external.

Lets Face Facts

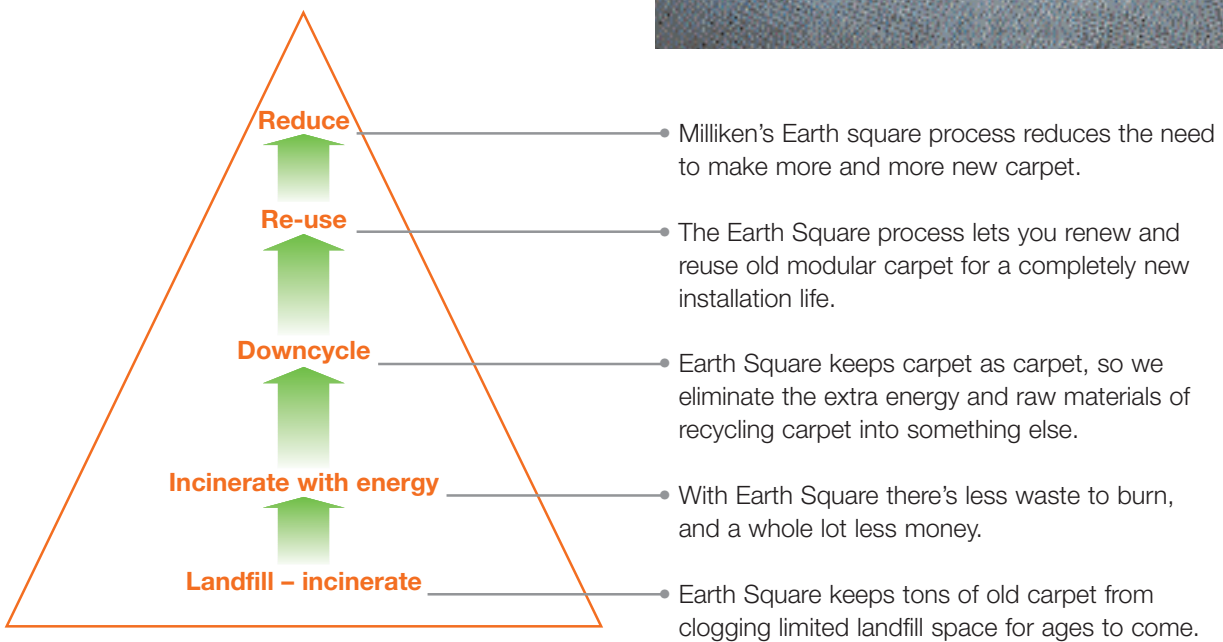
- All of our plants have at least two qualified environmental specialists.
- 11 of our environmental plants are certified to ISO 14001.
- All sites have organised for the safe handling of storage of chemicals
- All pre-metalised dyes have been substituted by more environmentally dyestuffs in our dyeing locations
- Sending waste to landfill has been eliminated from virtually all our European locations.



Agendas embrace the environment, action saves it

Recycling is good, but it creates its own waste and pollution. We keep carpet as carpet - transforming old modular tile back into new - and saving tons of old carpet from landfills.

With the Earth Square® process, old Milliken carpet is super-cleaned, rejuvenated, restyled - and reinstalled with a new pattern and new warranty.



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Product Specifications

Product Reference	P.1325/P.1311/P.1332/P.1337/P.1329	P.1769/P.1764
Construction	Tufted Loop Pile	Tufted Loop Pile
Yarn	100% Invista Antron® Nylon	100% Invista Antron® Nylon
Yarn Weight	675g/m ²	675g/m ²
Gauge	39.4 per 10cm	32 per 10cm
Stitch Rate	47 per 10cm	42.7 per 10cm
Tuft Density	185,180 per m ²	103,010 per m ²
Finished Pile Height	3.4mm avg	3.6mm avg
Total Thickness	10.2mm	10.2mm
Total Weight	4000g/m ²	4000g/m ²
Backing Type	Comfort Plus ² - 85% Recycled Open Cell Polyurethane	Comfort Plus ² - 85% Recycled Open Cell Polyurethane

Product Reference	P.0109/P.0103	P.0131/P.0138
Construction	Bonded Cut Pile	Bonded Cut Pile
Yarn	100% Invista Antron® Nylon	100% Invista Antron® Nylon
Yarn Weight	950g/m ²	990g/m ²
Gauge	33.6 per 10cm	33.8 per 10cm
Stitch Rate	31.9 per 10cm	29.4 per 10cm
Tuft Density	107,184 per m ²	100,000 per m ²
Finished Pile Height	6.35mm avg	5.6mm
Total Thickness	8.4mm	7.7mm
Total Weight	4645g/m ²	4560g/m ²
Backing Type	Synthetic Hardback	Synthetic Hardback

Product information

Modules per box

16 - Comfort Plus², 20 - Synthetic Hardback

Module size

457mm²

Maintenance

MilliCare® using Capture soil extraction powder

Treatment

Teflon® soil repellent, AlphaSan® anti-microbial,
D-Stain™ stain release system

Product test data (applies to all)

BS 4790 Hot metal nut

Low radius of char

ASTM E648 Radiant flux

Class 1

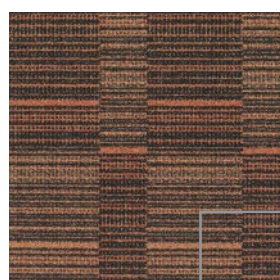
BS6307 - ISO6925 Methenamine tablet

≤ 10mm

Castor chair: DIN 54324

Pass

If any additional information is required please contact our Customer Service Department on: **T** 01942 826073
NB. Specifications may be modified from time to time.



Colourway name P.xxxx - xxxx

Product Specification Number

This "P" number refers to the product construction specification.

