

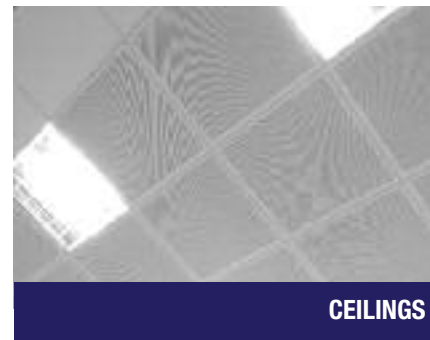
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RAISED ACCESS FLOORING SOLUTIONS

For every raised access flooring project



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No two buildings are the same, which is why no two raised access flooring projects will ever be the same. It's not just that the buildings are physically different, the needs of the occupiers vary too. But that doesn't mean your job as a specifier or installer has to be more complicated. With the right materials and the right advice, you can specify or install a raised access floor that provides the levels of practicality, flexibility, and finish that the project demands.

All you need is the right distributor

One who understands the regulations, who knows the materials and the manufacturers, and who can deliver the goods on time and at a price that fits within your budget. We stock a wide range of materials from all the major manufacturers - and we talk to them on a daily basis.

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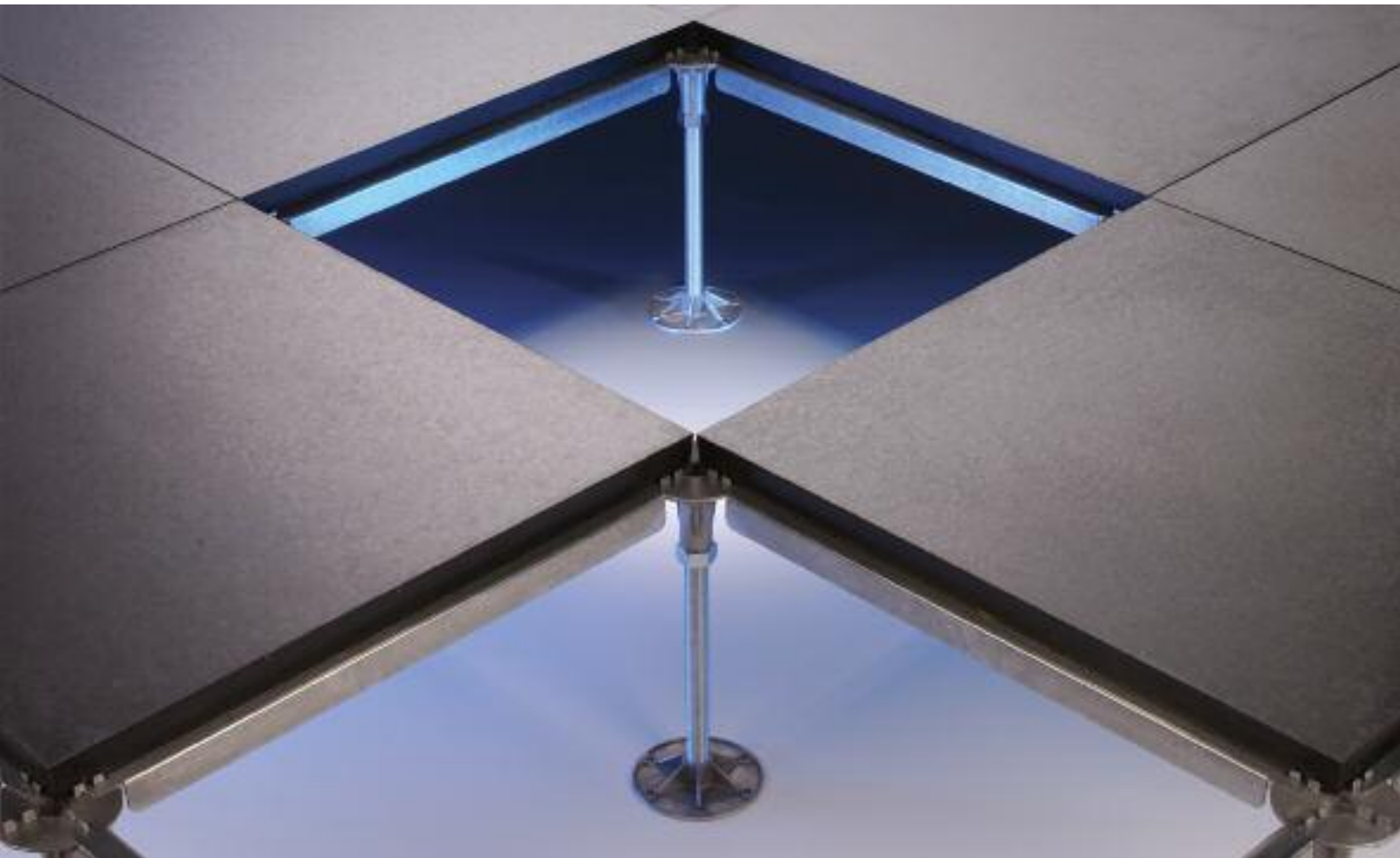
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Raised access flooring provides a safe and cost effective means of concealing building services. Some solutions are so versatile, they allow a working environment to be entirely flexible. When business needs change, the underlying services can be reconfigured with minimal disruption.

**Bathgate Permaflor and Knauf GIFAfloor
Two routes to a better working environment**

For specialist installers, there are only two raised access flooring systems that count: Permaflor from Bathgate and GIFAfloor from Knauf. Permaflor systems offer a complete solution for a busy working environment where full access to void based services are required and GIFAfloor provides a solid monolithic surface for areas in buildings where the application of decorative stone, porcelain or sheet floor coverings are required.

Both Bathgate and Knauf provide a full range of pedestals, fixings and ancillaries. In addition, full access systems are readily available complete with factory bonded finishes from vinyl, laminate and carpet to high lustre, natural and reconstituted stone, porcelain, stainless steel and glass finishes.



Bathgate Permaflor – full-access raised flooring

Permaflor is the versatile raised access flooring solution that takes change in its stride. It comes in two configurations: fully encased steel panels (the BG range) and panels with steel facing on both surfaces and protective edging (the BE range). Both have a high density particleboard core and panels engineered for the most common PSA and BSEN specifications. Standard panel dimensions are 600mm x 600mm but Permaflor can produce panels in other sizes to order, in addition to being able to produce panels with a range of factory bonded coverings such as carpet, vinyl, rubber and laminate.

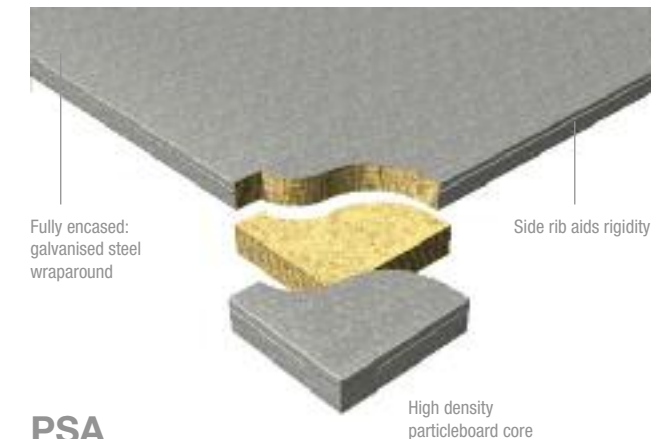
With a full range of accessories for cable management, air handling, and barrier creation within the void, Permaflor brings new life to old buildings, and a sophisticated finish to new ones. For cabling and HVAC needs, Permaflor comes in a range of standard void heights from 26mm to 2000mm as well as bespoke heights. It can even incorporate an underfloor heating system.

Permaflor BG






Permaflor BG is the ideal flooring surface. It suits most modular floor coverings, or you can specify one of many standard or bespoke factory-bonded finishes. These rigid floor panels combine strength and durability with ease of installation, long-lasting performance, and low maintenance.

The high-density particleboard core is fully encased in galvanised steel, roll pressed to a unique profile for easy installation and removal. The profile also protects the edges against damage.

- Fully encased in galvanised steel
- Unique profile prevents lid detachment
- Gravity laid or screw down
- Rigid construction



PSA Specification

					
Product	BGM 600	BGM 600S	BGM 600L	BGH 600	BGH 600S
Grade	Medium	Medium	Medium	Heavy	Heavy
Depth	31mm	31mm	26mm	39mm	39mm
Weight (m ²)	33kg	33kg	32kg	43kg	43kg

BSEN Specification

			
Product	BG 3	BG 3L	BG 5
Grade	3/A/3/2	3/A/3/2	5/A/3/2
Depth	31mm	26mm	31mm
Weight (m ²)	32kg	31kg	33kg

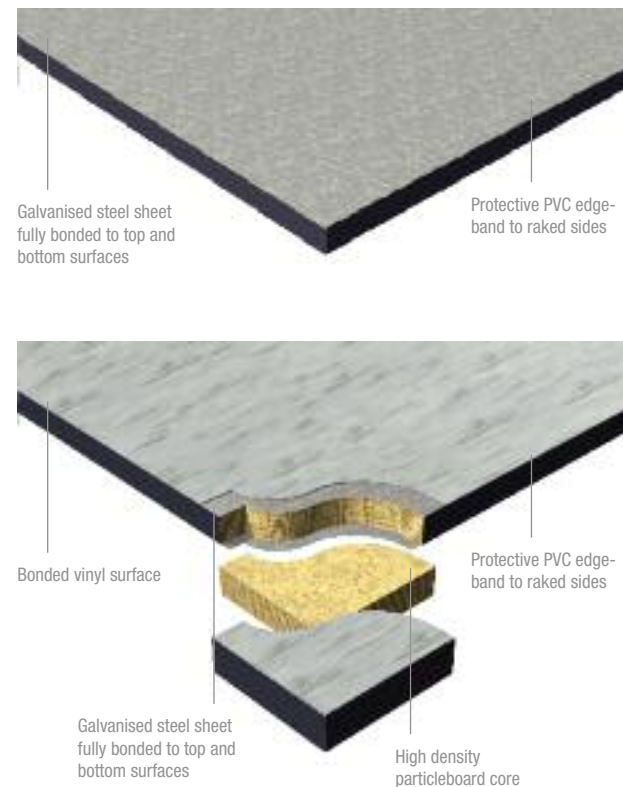
Notation:
S = Screw down
L = Low profile

Permaflor BE

Permaflor BE combines the strength of traditional steel encased panels with easier handling during installation. The high-density particleboard core is faced on both sides with galvanised steel. A popular alternative is a bonded vinyl finish. You can also order non standard sizes and a range of factory-bonded surface finishes, including carpet, timber, and ceramics.

At the panel edges, full-depth PVC banding improves the tightness of fit, and lets you lay panels on to pedestals without gaskets. The tight fit reduces air leakage, which makes Permaflor BE a good choice when using the void as an air plenum.

- Galvanised steel bonded to both surfaces
- PVC edge-band with raked sides for easier fitting
- Anti-static vinyl surfaced option
- Bespoke factory-bonded finishes available
- Reduced air leakage



PSA Specification

Product	BEM 600	BEM 600V	BEH 600	BEH 600V
Grade	Medium	Medium	Heavy	Heavy
Depth	31mm	33mm	39mm	41mm
Weight (m ²)	33kg	35kg	43kg	45kg

Notation:
V = Vinyl surface

BSEN Specification

Product	BE 3	BE 3V	BE 5
Grade	3/A/3/2	3/A/3/2	5/A/3/2
Depth	31mm	33mm	31mm
Weight (m ²)	33kg	35kg	33kg

Permaflor BPB



For a budget flooring solution that's fully BSEN-compliant, choose unencapsulated Permaflor BPB. With its excellent dimensional accuracy, this high-density particleboard forms an ideal base for loose-laid carpet tiles.

Bespoke Range



With Permaflor, you can specify a bespoke panel for just about any new build or refurbishment scheme. Bespoke panels come in a wide range of materials and finishes, all of which meet PSA or BSEN standards.



Permaflor – simple, modern practicality

Raised access flooring is the system of choice for new office buildings. It's also a cost-effective way to upgrade older buildings. Architects, installers, and building occupiers like the ease with which services can be routed through the floor voids within:

- Retail outlets
- Hotels and leisure
- Education
- Computer rooms
- Telecoms and call centres
- Financial centres

Energy-efficient HVAC

HVAC is better all round when you use the flooring void as an air plenum. It gives you greater control, improved air quality, and a more comfortable working environment. It's also more energy-efficient than traditional methods.

As well as cutting heating and cooling costs, there is conclusive evidence that this improves morale, increases productivity, and lowers absenteeism.

Built for businesses that don't stand still

When routing power, telecoms, data, and communication cables, Permaflor offers greater flexibility and practicality than traditional cable management systems. It also keeps cost and disruption to the minimum when you need to change the working layout. You just lift the panels where necessary to reconfigure the services.

There are no limits to the applications for Permaflor. There's a solution for most floor loadings, and finishes for every environment from the back office to the smartest public-facing showroom.

Permaflor - Bespoke solutions

Permaflor goes wherever you want to go. With a combination of flexible manufacturing capability and inventive design and production teams, Permaflor can create just about any solution you need for your next new-build or refurbishment project.

There's a customised solution for every installation challenge: bespoke factory-bonded surfaces for new installations, replacement floor coverings, or even upgrades to improve load performance.

Any floor finish

Permaflor finishes are as varied and as attractive as regular floor finishes. There are options for vinyls, wooden floors, veneers, and carpet, as well as natural and reconstituted stone, or ceramics. You can incorporate existing floor materials or ask to see a selection of finishes that would fit the location and the application.

Trouble free structural upgrades

Over time, the load-bearing demands of a working environment change. With Permaflor, you can order a bespoke solution that will upgrade performance. And you can install it while working round the needs of the building occupants. There'll be no need to shut down operations.

Match and patch saves costs

When you're upgrading an older building, you don't have to replace the raised access flooring. If the existing installation is sound, you can upgrade or extend it with a matched bespoke solution from Permaflor. The match-and-patch approach gives you panels and pedestals to match just about any existing system. You can upgrade for a fraction of the cost of replacement.

Accessories

Pick from a full range of accessories:

- Cable ports
- Handrails
- Ramps and steps
- Perimeter gaskets
- Class O aluminium foil tape
- Pedestal earthing clamps
- Beams and stringers
- Oversized panels
- Ventilation panels



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✓ **ACOUSTICS**

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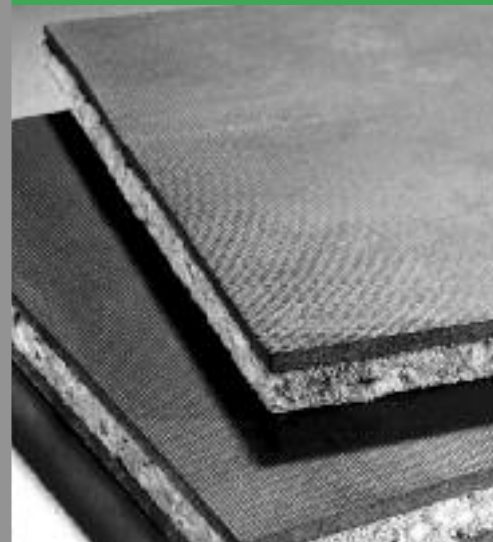
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SCREEDS



ACOUSTICS



UNDERFLOOR HEATING



Knauf GIFAfloor – partial access raised flooring

GIFAfloor is the raised access flooring solution for high-spec environments such as airports, hotel lobbies, and corporate reception areas, as well as washrooms, kitchens and other wet areas. It provides a monolithic floor to accept finishes including heavy granite with ease.

GIFAfloor is totally inert and non-combustible. It's ideal for locations with an enhanced fire and acoustic specification. These engineered flooring boards are made from a mix of natural and FGD gypsum with cellulose fibres extracted from wholly recycled paper and cardboard. They come with a tongue and groove edge profile for near seamless joints or with a tapered edge profile that accepts aluminium support frames for access panels where required.

For heavy duty monolithic floors

With two panel sizes (600 × 1200mm and 600 × 600mm), two densities (1100kg m⁻³ and 1500kg m⁻³), and four board thicknesses (25mm, 28mm, 32mm, and 38mm), there are plenty of options for different locations and loadings. Doubling panels up creates solid substrates up to 76mm thick to accept heavy floor finishes, such as stone or porcelain, required in the busiest environments.

GIFAfloor provides an ideal surface for lightweight floorings too. For carpet, vinyl, or any flooring that comes in a roll, it provides a smooth, joint-free base. Because the floor below is hollow, you can run services beneath for reception desks and other island work spaces, especially those in atria and other areas with high ceilings

Thermally transparent for underfloor heating

GIFAfloor is an exceptional material for use with underfloor heating. When you lay two layers at right angles, you can rout channels in the upper layer for heating pipes. The lower layer provides the strength and stability. Since GIFAfloor is highly thermally transparent, tests have proven that heat filters through extremely quickly.



F18 GIFAfloor

Statics basics

No	Utilization	Examples	Design Load Analogue To DIN 1055-3* (kN)	Standardized Panel Thickness* (mm)
1	Without classification	Miter sill, non passable	n/a	25
2	Cock lofts	Attics, not for residential usage but passable with clear dimension less than 1.08m	1	25
3	Housing and residential rooms	Rooms and corridors in residential buildings, bedrooms in hospitals, hotel rooms including kitchens and bathrooms belonging to them	1	25
4	Offices, working areas corridors	Corridors in office buildings, offices, practices, ward rooms including corridors belonging to them	2	25
5	Offices, working areas corridors	Corridors in office buildings, hospitals, hotels, old peoples homes, boarding schools etc., kitchens and ward rooms including operating theatres without heavy-load equipment belonging to them	3	25
6	Offices, working areas corridors	See no 5, but including heavy-load equipment	4	28
7	Assembly rooms and areas to convene	Areas with tables, e.g. rooms in schools, cafes, restaurants, dining rooms / halls, reading rooms, receptions	4	28
8	Assembly rooms and areas to convene	Floors with fixed chairs, e.g. churches, theatres or cinemas, congress halls, lecture halls, assembly rooms, waiting rooms	4	28
9	Assembly rooms and areas to convene	Free passable floors, e.g. in museums, exhibition areas, entry areas of public buildings and hotels	4	28
10	Assembly rooms and areas to convene	Dancing halls, gymnastic rooms and stages	7	32+18
11	Assembly rooms and areas to convene	Areas for big assemblies e.g. concert halls, terraces and entry areas, grandstands with fixed chairs	4	28
12	Sales rooms	Floors of stores with less than 50m ² selling area inside of residential or office building	2	25
13	Sales rooms	Floors of retail shops and department stores	4	28
14	Sales rooms	See no 13, but with higher loads because of high shelves	7**	32+18
15	Factories, workshops and warehouses	Floors in factories and workshops with low load activities	4	28
16	Factories, workshops and warehouses	Floors of warehouses and libraries	7**	32+18

For applications not mentioned above or applications with potential higher load requirements, please consult our specialist flooring staff.

*Proof according to EN 13213

**Example for a Support grid of 600mm, without transverse joints, with edge supports with a grid equal to or less than 300mm.

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CCF know how



CCF HELP AND ADVICE

For help with flooring materials, costs, and specifications. Contact CCF National Sales.

08707 550686

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✓ Glasgow	Tel: 0141 445 2557	Fax: 0141 445 5660
✓ Leeds	Tel: 08700 979797	Fax: 08707 550671
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✓ Basildon	Tel: 01268 293323	Fax: 01268 527070
✓ Croydon	Tel: 020 8665 6113	Fax: 020 8683 0256
✓ East London	Tel: 020 7540 5050	Fax: 020 7476 9955
✓ Heathrow	Tel: 020 8893 5353	Fax: 020 8893 5244
✓ Park Royal	Tel: 020 8965 4222	Fax: 020 8965 4777
✓ Peterborough	Tel: 01733 551 333	Fax: 01733 311921
✓ Stevenage	Tel: 01438 740055	Fax: 01438 741600
✓ Thetford	Tel: 01842 766316	Fax: 01842 753728
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CCF Nationwide Branch Network

