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The registered trademark of Euroform Products given to its range of cement bonded particle board and systems which are supplied to Euroform from manufacturing operations in Europe conforming to the EN 634-1 and EN 634-2 for cement bonded particleboard.

Versapanel® is a cement bonded particle board intended for both internal and external use which has very high levels of performance in the presence of moisture and has high resistance to fire.

Versapanel® conforms to the European Standards EN 634-1 for cement bonded particle boards. This specifies the requirements for particle boards bonded with Ordinary Portland Cement (OPC) for use in dry, humid and exterior conditions. Versapanel® is CE marked in accordance with EN 13986.

Versapanel® also complies with the general requirements as listed in EN634-1 together with the requirements set out in table 1 of the standard.

Versafloor® is a cement bonded particle board intended for internal use which has very high levels of performance for flooring applications and a high resistance to fire.

COMPOSITION AND MANUFACTURE

Cement bonded particle board generally (but not exclusively) comprises wood particles bonded with ordinary Portland cement. Wood is the predominant component by volume but cement is predominant by weight. Small quantities of chemicals are added to the wet mix, one of their purposes is to accelerate cement setting.

SIZE

Board sizes generally available are 2400 x 1200, 2800 x 1200 and 3050 x 1220mm in thickness of 8mm to 40mm. Square edged boards are standard although other edge details are available.

WEIGHT

Typical density of boards are
1300 kg/m³ for example a 2400 x 1200 x
12mm board will weigh approximately
45 kilograms.

APPEARANCE

Standard unsanded boards are generally light grey in colour with a smooth cementitious surface. Although generally smooth this should not be relied upon for decoration.

Worldwide Standards

Versapanel® is sold worldwide and has gained acceptance to various country standards by meeting and in many cases exceeding the required performances

in applications. Further information is available on request.

Technical assessment papers on Cement Bonded Particle Board are available from the Building Research Establishment (UK). Who have carried out extensive research on the Generic material since 1979.

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Versapanel® - the versatile cement bonded particle board suitable for a wide range of applications. Cement particle board represents an advantage in building board technology to meet increasingly stringent building regulations and demands for ever higher standards of durability, safety and economy.

Versapanel® board contains no hazardous volatiles, it is asbestos free and its process dust is non-aggressive. It may be sawn, planed, sanded, drilled, routed, nailed and screwed.

Suitable for exterior performance with excellent sound attenuation. It is durable, even when unprotected, and is able to withstand the destructive influences of weather, moisture, insects, vermin and fungi. It is robust against impact, therefore the possibility of damage is reduced. It will not build up static charges. It will also accept a wide variety of finishes.

Made from the traditional building materials, cement and wood. The special process of blending results in a board having a unique combination of properties relevant to current needs. Due to the monolithic structure any exposed sawn edges are not vulnerable to weather damage.



GENERAL INFORMATION

Specifications

Finishes – Versapanel® board is smooth in texture and light grey in colour. It is available in two types of finish: unsanded and calibrated. Calibrated is normal production, simultaneously sanded on both sides; it is used where minimal thickness tolerance is required. Although generally smooth this should not be relied upon for decoration



Edges

Plain or profiled are available.



Versapanel® is a cement bonded particle board comprising of wood particles and cement.

Versapanel® is a High Performance Panel its principal attributes are: durability, fire resistance, sound reduction, it is resistant to attack from termites, insects and fungus.



Versapanel® is produced in sizes:

2400mm x 1200mm

2800mm x 1200mm

3050mm x 1220mm

2600mm x 1200mm



Versapanel® is available in a wide range of thicknesses 8mm - 40mm.



Versapanel® is manufactured either unsanded or calibrated.



Versapanel® is available with an optional Primer/Sealer factory applied.



Versapanel® may have a wide range of surface treatments applied.

INTERNAL, EXTERNAL & OTHER APPLICATIONS



INTERNAL

Versapanel® board has advantages over
other types of board materials due to its
strength, workability and durability coupled
with the three main attributes:

Proven performance as an external
sheathing material - Versapanel® has
been successfully used in prefabricated
panel construction - both single skin

fire resistance, sound reduction and high performance in the presence of moisture.

Versapanel® may be confidently used in wet areas. It is ideal for cold storage, food processing and all areas which highlight the importance of hygiene.

The first choice for internal walls and partitions in domestic or public buildings due to its impact resistance, fire resistance and sound reduction properties.

EXTERNAL

Proven performance as an external sheathing material - Versapanel® has been successfully used in prefabricated panel construction - both single skin and sandwich application. Also, due to the excellent "racking" properties of Versapanel®, the board may be utilised as a structural member in a composite building application.

Versapanel® in an untreated state is weather resistant and will not degrade with permanent exposure, even if subjected to freeze/thaw conditions.

However, in general, a surface treatment is recommended for external applications.

A range of paint and textured finishes may be used.

OTHER APPLICATIONS

Can also be used for a wide range of applications including as a backing board (carrier panel) to cladding systems such as:

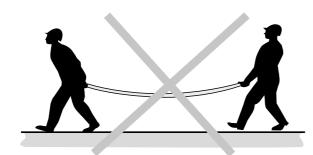
- Insulated Render Systems
- Terracotta Cladding Systems
- High Performance Cladding Panels
- Brick Slip Systems

The benefits of using Versapanel® in this type of application is: to help acoustic performance, fire performance, impact performance, pull out performance for approved fasteners, tested for wind loadings, ventilated rainscreen cavity.

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SITE PROCEDURE



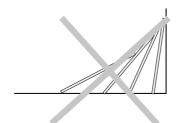


TRANSPORT

Boards are usually delivered secured in plastic bound, edge protected pallets. When loose boards are transported they must be laid flat and fully protected with a waterproof sheet. When manually moving Versapanel® it must be carried in a vertical position.







STORAGE

Verspanel® should be stored flat on levelled supports at 800mm centres. It must never be stored on edge or upright. If outside, a protective plastic sheet must be secured to protect from weather.

CONDITIONING

Versapanel® has an ex-works moisture content of 9% + / - 3% and is in equilibrium when the temperature is 20°C with a relative air humidity of 50-60%. Versapanel® adapts to the ambient humidity level, therefore to adjust to its working conditions it should be allowed to acclimatise for 24-48 hours prior to fixing.

PRODUCT INFORMATION - HEALTH & SAFETY

FIRE: Tested to BS 476-6 & BS 476-7 classified as Class 0 building board with a Class 1 surface spread of flame. European classification to

EN 13501-1: B1

B-s1,d0 Versapanel®, Bfl-s1 Versafloor®

HEALTH: Skin contact - classified as nonaggressive dust.

Eye contact - Normal Treatment for

removing foareign bodies

from eyes.

Inhalation -Process dust is non-

aggressive, but protection

recommended.

COMPOSITION:

SURFACE pH:

Portland Cement

Wood

Water

Non-toxic chemical neutralising agents. 12 - alkaline in the presence of surface

moisture.

PROCESSING

MACHINING

Versapanel® is machined and processed in the same manner as resin bonded particle boards, but ensuring that tungsten carbide tipped blades are used at all times. Comprehensive tests have shown that wear on tools during the processing of Versapanel® is significantly lower when compared with resin bonded board. This is due to the lack of resinification and a lower degree of heating.

SAWING

Equipment

- Cross cut hand saws for thicknesses up to 12mm.
- Jigsaw for thicknesses up to 12mm and small work.
- Portable circular saw.
- Fixed saw for dimensioning (vertical or horizontal).

Type of blade

- Alternative or trapezoidal teeth
- Chart shows number of revolutions and number of teeth (Z).

Diameter mm	250	300	350	400
Panel thickness up to 12mm	Z=48	Z=60		Z=72
Panel thickness exceeding 12mm	Z=36	Z=48	Z=54	Z=60
Number of revolutions rpm	3000/4500	3000	3000	3000/1500



MILLING

When working in confined areas dust extraction equipment is recommended. When used indoors, use vacuum dust extractor.

Common machines with carbide-tipped tools. The higher the rpm, the better the milled edge.



COUNTERSINKING DRILLING

When working in confined areas dust extraction equipment is recommended. When used indoors, use vacuum dust extractor.

Versapanel® can be drilled using conventional portable drilling machines; high speed steel drills or tungsten carbide drills (for prolonged use) and central tip for precision drilling. Although Versapanel® is a wood and cement panel it is not concrete and therefore does not require percussion drilling. The drilling speeds are the same as for chip-board panels (3000/4000 rpm).



SANDING

When working in confined areas dust extraction equipment is recommended. When used indoors, use vacuum dust extractor.

Versapanel® can be sanded using a vibrating sanding machine or belt sanding machine. Belts should be 40-80 grains; open coat structure with linear speed of 20 to 28 m/sec.

Hand-held Orbital Sander, Hand-held Belt Sander.

Versapanel® can be affected by slight dimensional changes, according to variation in relative humidity. Fixings and in particular the joints between the panels must allow for movement. Joints can be filled using Versaseal joint compound.

WATER PROOFING

For more information on waterproofing, please contact Euroform.

APPLICATION EXAMPLE

The following application example refers to the use of flexible surface treatments for internal or external application, whether the surface treatment be water based or solvent based. Before fixing Versapanel®, the location of all battens must be carefully checked for accurate location. Versapanel® will be nailed through to

regularised softwood battens prefixed to the timber frame panel, with the board held tight to the batten at point of fixing to avoid break-out. The battens should be drilled or grooved to allow the cavity to be ventilated. Fixing nails should be ITW Paslode ring shank nails, selected from the following table of pullout resistances:

	35mm Length	45mm Length
2.2mm Diameter	125N	216N
2.5mm Diameter	180N	243N

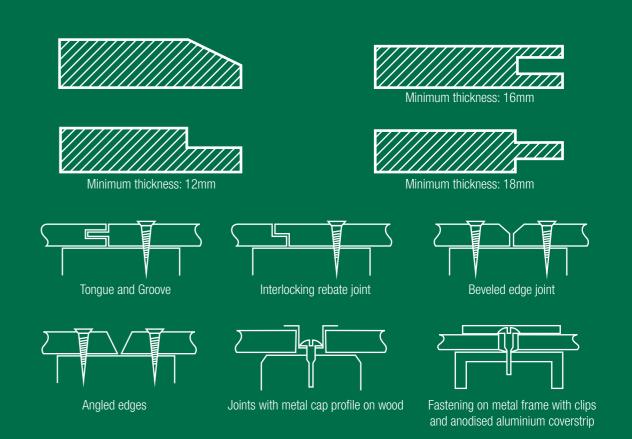
Nailing can be manual or pneumatic. Pneumatic tools should be set to 5-6 bar, then finely, adjusted using test pieces to achieve the required penetration. The perimeter ring fixings will be at 200mm centres, min 15mm from the board edge to min 38 x 25mm battens (35mm nails) or min 38 x 32mm battens (45mm nails). The central vertical fixings will be at 300mm centres, to min 38 x 25mm battens (35mm nails) or min 38 x 32 battens (45mm nails). Board junctions within a panel will be butt-jointed with a space not less than 2mm nor greater than 3mm between boards, with fixings at 200mm centres, min 15mm from the board edge, to min 50 x 25mm battens (35mm nails) or min 50 x 32mm battens (45mm nails). All nail heads must finish not less than 2mm nor greater than 4mm below the board surface.

NOTE:

EDGING DETAIL

Regular checks are required to allow for minor variations in density of the board. There must be no step between the outer plane of the boards at joints in excess of 2mm. Any damaged or broken boards must be replaced. No small infill pieces should be used. No oil based marker pens are to be used on the surface of the board.

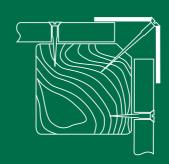
EDGING & JOINTING DETAIL



NOTE:

Where Versapanel® is used on an application where the product is not sealed but can be exposed to temperature changes in relative humidity, then screw holes should be oversized and a gap which allows movement should be used at joints.

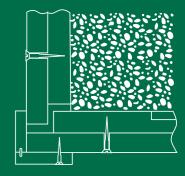
Examples showing 3 corner joints



Exterior corner fixture on timber supports



Interior corner fixture on wooden frame with wooden cover clip



Exterior angle fixture on wooden frame

MOUNTING & FIXING

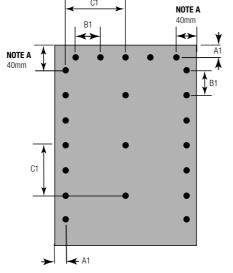
MOUNTING

Versapanel® can be fixed using nails, screws or staples and is also suitable for manual, pneumatic and powered fixing methods. The following table is a guide to fixing distances for most common applications; however, the details are not sufficient when Versapanel® is to be subjected to particular structural forces such as wind suction or loading on ceiling soffits etc. In such cases further advice should be obtained.

Figure 1

MOUNTING & FIXING

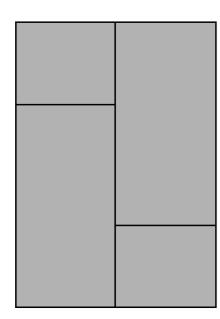
Board Thickness	Centro	es mm		
mm		A1	B1	
8	40		200	400
10 - 12	40		300	600
16 +	40	30	400	600



NOTE A - The first fixing in from the corner for both horizontal and vertical fixing must be 40mm in from the edge

BOARD ARRANGEMENT

We recommend that Versapanel® should be installed in brick Bond fashion as per the diagram. For further information please contact Euroform Products..



NOTE:

- Do not use 4 way joints.
- Minimum board width should not be less than 300mm.

EXPANSION/MOVEMENT JOINTS

Versapanel® can be affected by slight dimensional changes according to variation in relative humidity. Fixings and in particular the joints between the panels must allow for movement. E.g. oversize the screw hole and leave a 3-6mm gap at the joint.

Joints can be filled with Versaseal Intumescent joint compound.

MOUNTING & FIXING

SCREWING

Type of screw:

Wafer head screws designed for particle boards in stainless steel or galvanized, preferably self tapping screws with central tip adapted to the type of substrate.

Diameter: 3.5 to 4.2 mm

Length: 2.5 to 3 times the panel thickness

Euroform recommends and distributes the following fixings:

Type of Substrate Steel	Board Thickness	Screw Type
0.7 - 1.5mm	up to 16mm	EMF1 4.8x45mm
1.5 – 3.00mm	up to 16mm	EMF2 4.8x35mm
4.0 – 10mm	up to 16mm	EMF3 5.5x65mm

Timber Battens	Board Thickness	Screw Type
	up to 20mm	ETF1 4.8x60mm
	up to 36mm	ETF2 4.8x80mm

FIXING TECHNIQUE

- Manually with pre-drilling
- Pre-drilling is not necessary when using a pneumatic screw driving machine and central tip screws, preferably screws with a self tapping head
- Screws must be positioned as shown in Figure 1
- On external application screw heads should be covered to avoid rust formation
- Use self-tapping screws for a metal frame structure with thicknesses exceeding 7.5/10mm
- Screwing in edges is possible with 16mm (minimum) panels and predrilled holes

NAILS

Type of nail:

- Flat-headed, galvanized stainless steel, twisted or sheradized serrated
- Diameter: 2.2 to 3.1 mm
- Length: 3 to 3.5 times the panel thickness

Fixing Techniques:

- For thicknesses up to 12mm nailing can be manual, but pre-drill an 0.8 x diameter hole exceeding 12mm use pneumatic tools set to 5-6 bars with tape loader or nail roll, or pre-drill pilot hole
- Avoid tapping the panel with hammer
- Keep panel steadily positioned on the background structure whilst nailing

MOUNTING & FIXING

SPECIFIC FIXING METHODS

a) Cordless nail gun into timber

The use of a cordless nail gun enables the rapid fixing of Versapanel® to timber frame or battens. The advantage of this method is the speed of erection time and the subsequent cost reduction. To fix 8mm to 22mm boards for internal and external applications a 51mm x 2.8mm annular ringed nails with sheradized coating BS 492 was Precast concrete partition slabs. BS EN 492 is Fibre cement slates and fixings should be used. The variable power setting on the tool can provide either a flush finish with the board surface where visible fixing is acceptable or where a high build surface coating is to be applied, or a countersunk nail head where filling and painting are desired.

b) Cartridge nail gun

Versapanel® can be fixed into steel framing or structure, concrete, brickwork or concrete blockwork using cartridge fixing tools.

Fixing method can be direct to substrate, or where irregular surfaces are encountered, via battens applied prior to panels.



BONDING



Only alkali resistant adhesives should be used, suitable for Versapanel® due to a potential surface pH of 11 - 13 when wet. For high-quality bonding, Versapanel® with calibrated surfaces are most suitable.

For adhesive bonding my means of hot pressing, a board moisture content of no more than 6% -9% is required but this should be determined with the adhesive manufacturer. When bonding to one face of Versapanel® the reverse should always be counterbalanced. For large-area adhesive bonding, some pre-testing should always be carried out in cooperation with the adhesive manufacturer.

APPLICATIONS AND TYPES OF ADHESIVES

Tiling Versapanel® for internal walling applications should be limited to single panel applications. The type of Versapanel® to be used should be factory primer/sealed. The board should be supported on all edges with support centres not exceeding 400mm. A minimum thickness of 10mm board should be used with all screw fixings at nominal 300mm centres and screw holes oversized. Without sealing the back of the boards, moisture can penetrate the board, which can result in distortion. Distortion can also take place when the back of the board dries out on one side only. For adhesive bonding to free floating floors Versafloor® primed on both sides should be used, to avoid one-sided penetration of moisture which could lead to distortion. Boards with a calibrated surface can easily absorb moisture.

FULL SURFACE BONDING OF Versapanel® TO EACH OTHER Dry Rooms:

Dispersion adhesive or one component reaction resin adhesives.

Wet Rooms:

Double component resin adhesive polyurethane based or epoxy resin adhesive.

BONDING OF TONGUE & GROOVED EDGES

PUD 4 polyurethane adhesive as supplied by Euroform Products is recommended for this application for wet or dry environments.

FULL SURFACE BONDING OF LAMINATES AND VENEERS

Versapanel® is an excellent substrate for the application of decorative laminates and veneers. The sanded/calibrated finish should always be used, when bonding a decorative surface to one face the reverse of the panel must have a compensator layer applied. With timber veneers a cross band veneer is usually required.

In all instances the above operations should be carried out by experienced companies specialising in bonding techniques using the input from adhesive manufacturers for bonding to cement board material.

NOTE:

Always consult adhesive manufacturer and laminate manufacturer for technical assistance on suitability of use. Always test a small sample of the materials before application.

TECHNICAL DATA

PRODUCT RANGE

Panel Type: unsanded calibrated Thicknesses:

Standard Sizes: 2400 x 1200mm Unsanded: 8 10 12 14 16 18 20 22 24 28 30 32 36 40mm

Calibrated: 8 10 12 14 16 18 20 22 24 28 36mm

Non Standard Sizes: 2600 x 1200mm

3050 x 1220mm 2800 x 1200mm

SPECIAL SIZES OF PANEL AND THICKNESSES ARE AVAILABLE ON REQUEST

Density (average)	1300Kg/m ³	Surface Alkalinity	pH between 11 and 13
Modulus of Elasticity	4500N/mm ²	Moisture Content (ex production)	9% +/- 3% by weight
Thickness tolerances Calibrated: Unsanded: Length:	8-37mm +/- 0.3mm 8-10mm +/- 0.7mm 12-19mm +/- 1.0mm 22-42mm +/- 1.5mm +/- 5mm	Thickness Swelling (24hrs immersion)	0.7% (average)
3. Width:4. Squareness:	+/- 5mm -2.5mm on panel diagonal difference	Dimensional Stability	0.11% for an increase in relative humidity from 65% to 90% 0.16% for an increase in
Bending Strength (min)	9N/mm²	Thermal Conductivity	relative humidity from 65% to saturation 0.26.W/m.k.
Permissible design value	2.25 N/mm²	Sound Insulation	Coefficient See characteristics guide Also acoustic information
Tensile strength (parallel to surface)	4.0N/mm ²	Fire Rating	BS 476-6 & BS 476-7 classified as Class 0 building board with a Class 1 surface spread of flame. European classification to EN 13501-1: (B-s1,d0 Versapanel®), (Bfl-s1 Versafloor®)
Tensile strength (perpendicular to surface)	0.5Nmm ²	Bonding Agent	Versapanel® is odourless. As the bonding agent
Compression strength (min)	15 N/mm²		is free from formaldehyde.

TECHNICAL DATA

Testing of Euroform Versapanel® (12mm Thick) to BS EN 12086: Determination of Water Vapour Transmission Properties.

SUMMARY

A sample of Euroform 12mm thick Versapanel® has been tested to establish its Water Vapour Transmission Properties. Testing was performed in accordance with BS EN 12086, 'Thermal Insulating Products for Building Applications – Determination of Water Vapour Transmission Properties', Test Method B, using test conditions 23°C and 85% r.h.

The mean test results are as follows:

Water Vapour Transmission Rate	10.3 mg/(m².h)
Water Vapour Permeance	0.75 mg/(m².h.Pa)
Water Vapour Resistance	1.35 m ² .h.Pa/mg
Water Vapour Permeability	8.86 x 10 ³ mg/(m.h.Pa)
Water Vapour Diffusion Resistance Factor	80.5µ



TECHNICAL DATA

VERSAPANEL® CHARACTERISTICS

VERSAPANEL® CHARACTERISTICS

					Uns	sanded	and Cal	ibrated	Only					rated ily
Thickness of b	ooard in mm	8	10	12	14	16	18	20	22	24	28	30	36	40
Approx. kg pe	r square metre	10.4	13	15.6	18.2	20.8	23.4	26	28.6	31.2	36.4	39	46.8	52
Airbourne sou single board in	and reduction for n dB	30	31	31	32	33	33	34	34	35	36	36	37	38
Manual nailing holes	g without pre-drilled	*	*	*	*									
Manual screw holes	ving with pre-drilled	*	*	*	*	*	*	*	*	*	*	*	*	*
Power screwing pre-drilled hole	ng & nailing without les	*	*	*	*	*	*	*	*	*	*	*	*	*
Nailing and so	crewing into edges					*	*	*	*	*	*	*	*	*
	Rebated				*	*	*	*	*	*	*	*	*	*
	Grooved for inserted tongue				*	*	*	*	*	*	*	*	*	*
Edge Profiling	Tongue & Grooved					*	*	*	*	*	*	*	*	*
General	Studs at 400mm centres	*												
internal linings & ext. claddings	Studs at 500mm centres					*	*	*	*					
Ceilings and	Studs at 600mm centres		*	*	*	*	*	*	*	*	*	*	*	*
soffits	Joists at 400mm centres	*	*	*	*									
	Joists at 600mm centres			*	*	*	*	*	*	*	*	*	*	*

APPROXIMATE NUMBER OF BOARDS PER PALLET

(subject to variation)

Board Size	No. of Boards
8mm	63
10mm	52
12mm	43
16mm	33
18mm	28
22mm	25
25mm	22
28mm	20
32mm	18
36mm	15



FIRE PERFORMANCE

Versapanel®'s wide range of thicknesses combined with its unique quantities of:

- High performance in the presence of moisture
- Resistance to impact
- High acoustic performance
- For use internally or externally
- Smooth surfaces

Making it a very cost effective solution for fire protection.

FIRE PROPAGATION BS 476-6

This test measures the amount and rate of heat evolved by the material while subjected to standard heating conditions. Test results are given as an index of performance (1) which is based on three sub- indices (il 'i2'i3). The higher the value of the index of performance, 1, the greater is the materials contribution to fire growth. The higher the value of sub-index, il the greater the ease of ignition and flame spread.

SURFACE SPREAD OF FLAME BS 476-7

This test groups materials into class 1 to 4 in descending order of performance according to the rate at which flame spreads over their surface under standard heating conditions.

Versapanel® IS CLASS '0'

Class 'O' is not a classification identified in a British Standard test. Class 'O' is defined in Approved Document B2/3/4 as follows:

- a) Composed throughout of materials of limited combustibility, or
- b) A Class 1 material which has a fire propagation index (1) of not more than 12, and a sub-index (1) of not more than 6.

EUROPEAN CLASSIFICATION

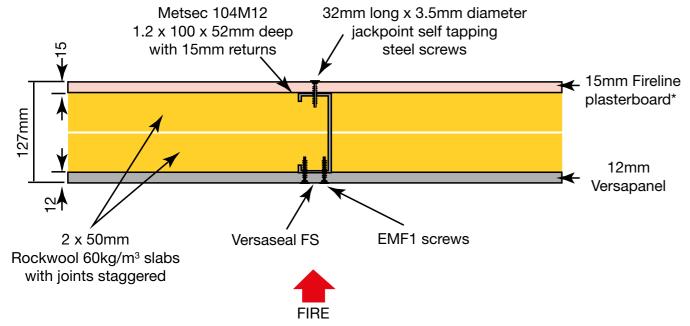
European classification to EN 13501-1 (B-s1,d0 Versapanel®), (Bfl-s1 Versafloor®)

FIRE PERFORMANCE

Fire Performances - Typical Example Showing CP Board

60 Minute Fire Resistant Non-Load Bearing External Metal Frame Wall

Assessed to BS 476-22



*Fireline plasterboard supported on horizontal joists by gypframe 99FC50 0.8 x 10 99mm strip Illustration for guidance purposes.

ACOUSTIC INSULATION



Versapanel® has a minimum density of 1300kg per M³ and therefore have superior acoustic performances when used in various elements of construction: walls, floors or ceilings.

With today's environmental considerations, protection against noise is an important criteria in the design of modern construction. Whether used in conventional construction or in component manufacture, Versapanel® increases substantially the mass of the overall system.

Versapanel® has been used extensively in a wide range of constructions where acoustic control is one of the important performance criteria.

- Internal linings to existing constructions to increase mass
- Underlining to roofs in high risk noise areas -airports, etc -both in single sheet and sandwich construction
- As one or both faces to factory finished bonded composite panels for various cladding systems
- High performance ceiling and flooring systems
- External sound barriers for motorways and airports
- Soundproofing of doors, new or upgrading -application can be to one or both sides
- Versapanel® is flat and smooth and can be used in acoustic baffles in theatres, concert halls and recording studios where true sound reverberation is required

Versapanel® acoustic performance based on minimum density of 1300kg per M³ by thickness

Thickness	Weight per m ² Kilos	Weighted Acoustic Insulation Value Rw dB
8	10.4	30
10	13	31
12	15.6	31
14	18.2	32
16	20.8	33
18	23.4	33
20	26	34
22	28.6	34
24	31.2	35
28	36.4	36
30	39	36
32	41.6	37
36	46.8	37
40	52	38

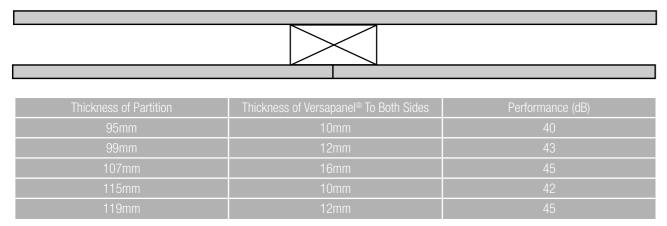
FIRE PERFORMANCES

ACOUSTIC INSULATION

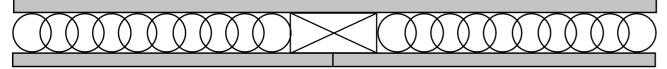
Typical examples using Versapanel® in varying thicknesses in wall, floor and ceiling constructions. The performance figures given are the theoretical value, it is to be noted that it is possible to achieve these figures providing site work is carried out correctly.

Partition Construction - Basic Details

Timber Stud - No Insulation To Cavity



Timber Stud - Insulation To Cavity



Insulation RWA 45 - 75mm *RWA 45 - 100mm

Thickness of Partition	Thickness of Versapanel® To Both Sides	Performance (dB)
95mm	10mm	46
99mm	12mm	49
107mm	16mm	53
*115mm	10mm	49
*119mm	12mm	52
*127mm	16mm	55

NOTE:

ACOUSTIC INSULATION

When using steel stud the dB values of the partitions are at least the same and in many cases can be 1 to 2 dB better than timber frame.

VERSAFLOOR® SYSTEMS

The following is an overview of Versafloor® - A factory finished, high performance flooring system.

The construction industry now requires as many components as possible to be supplied in a finished form, minimising any further work on site. This particularly applies to the Modular and Volumetric construction industry where modules are of a repetitive sizing for such constructions as:

• Prisons • Hospitals • Restaurants • Petrol Stations • Hotels

Versafloor® has been developed for these applications manufactured using Versapanel® cement bonded particle board which is a high performance building material with high fire resistance, moisture resistance and acoustic performance

.For further information on Versafloor®, please contact Euroform.

FINISHED SPECIFICATION

Thickness of floor = 18mm - 19mm - 20mm - 22mm - 24mm - 28mm - 32mm. Versafloor® is available to the following specifications:

Type 001

Unsanded Versafloor® can be supplied with Calibrated Versafloor® has been factory the standard unsanded finish with square edge or tongue and groove applied to two or four edges. Care must be taken when using this specification as there will be a thickness tolerance of up to +/- 1.5mm.

Note: This range can also be supplied with a factory applied grey primer/sealer to both faces which is highly recommended for environments where the product may take on moisture during a build process or in it's construction life. The top surface is white and the bottom surface is grey.

Type 002

calibrated and all thickness' have a thickness tolerance of + - 0.3mm. This range can also be supplied square edge or with tongue and groove applied to two or four edges. This product range is suitable for application of fine thickness overlays such as vinyl flooring and thin carpet tiles.

Type 003

Prime/Seal Versafloor® that has been factory calibrated and then has a factory applied primer/sealer to reduce uptake of moisture when used in damp or wet conditions, the thickness tolerance is +/- 0.5mm. The top surface is white and the bottom surface is grey, the application of this primer/sealer can prevent up to 80% of moisture uptake. This range can also be supplied square edge or with tongue and groove applied to two or four edges. This primer/sealer is highly recommended for environments where the product may take on moisture during a build process or in it's construction life. The top surface is white and the bottom surface is grey.

VERSAFLOOR® SYSTEMS

THE FACTORY FINISHED HIGH PERFORMANCE FLOORING SYSTEMS

Tongue & Groove

Where a tongue and groove is applied it will be in the centre of the panel.

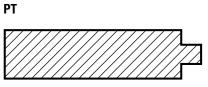
Panel Sizes

Versafloor® panel sizes will be produced to suit client requirements and layouts but standard stock sizes 2400 x 1200mm.

Versafloor® can also be produced in 'kit of part' supply to minimise on site cutting and wastage and can be supplied in the following panel types:

PANEL TYPE

VERSAFLOOR® SYSTEMS



Above illustrations not to scale.





Tiling to Versafloor®

When tiling to Versafloor® the Type 003 Prime/Seal specification must always be used with tongue and groove to all four edges and laid in accordance with the BS 5385-3:2014.

Tile adhesive systems should be tested for compatibility and expansion joints incorporated in accordance with the BS 5385-3:2014.

Fixing Versafloor®

Self-drilling, self-countersinking screws should always be used for fixing to steel or timber support structure. No mechanical fixings should be used for floating floor applications. All edges of the Versafloor® must be bonded using a moisture resistant, fire resistant adhesive - for this application we advise the use of Euroform T&G Adhesive.

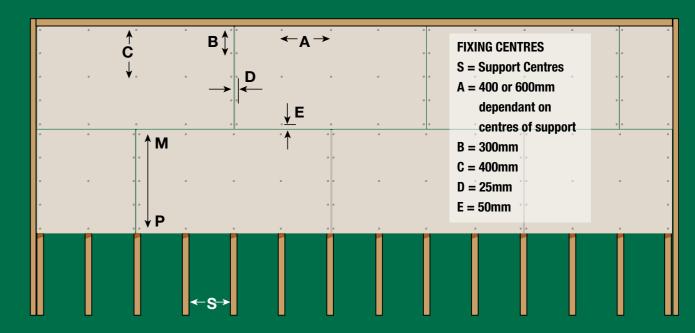
Floating & Acoustic Floor Applications

Versafloor® for acoustic flooring both as a working deck or finished floor will increase mass with fire rated performance.

Versafloor® can be used with highdensity mineral insulation or with the Euroform Versalayer for performance applications in accordance with Document E to the building regulations - for further information please contact Euroform.

VERSAFLOOR® SYSTEMS

LAYING OF SYSTEM - TYPICAL LAYOUT ALSO SHOWING CENTRES OF MECHANICAL FIXINGS



ALL Tongue & Grooved edges to be bonded.

NOTE:

A 10mm perimeter gap should be allowed around the edge of the floor to wall junction.

Boards should not be installed with a moisture content over 12%, reading should be taken prior to laying of Versafloor® to ensure that this is the case.

Please read these installation instructions in conjunction with BS 8201 code of practice for installation of flooring of wood and wood based panels.



The following loading charts have been calculated using the physical data as listed, these are the performance requirements of the EN 634-2. Versapanel®'s actual performances against EN 634-2 can be considered as superior.

8mm - VERSAPANEL® CEMENT PARTICLE BOARD

		Uniformly	distributed loa	ad (kN/m²)				Con	centrated load	d (kN on 50mr	n x 50mm squ	are)	
Span (mm)	Load limited by		nited by ection	Load limited by		nited by ection		Load limited by		nited by ection	Load limited by		nited by ection
		Span/300	Span/500	stress	Span/300	Span/500			Span/300	Span/500	stress	Span/300	Span/500
300	2.0	1.8	1.1	2.6	-	2.1	300	0.1	-	-	0.1	-	-
400	1.1	0.8	0.5	1.4	-	0.9	400	0.1	-	-	0.1	-	-
500	0.7	0.4	0.2	0.9	0.7	0.4	500	0.1	-	0.1	0.1	-	-
600	0.4	0.2	0.1	0.6	0.4	0.3	600	0.1		0.1	0.1	-	-
700	0.3	0.1	0.1	0.4	0.3	0.2	700	0.1	-	-	0.1	-	-
800	0.2	0.1	0.1	0.3	0.2	0.1	800	0.1	-	-	0.1	-	-
900	0.1	0.1	0.04	0.2	0.1	0.1	900	0.1	-	-	0.1	-	-
1000	0.1	0.05	0.03	0.1	0.1	0.1	1000	0.1	0.1	-	0.1	-	-

VERSAPANEL® LOAD CHARTS

10mm - VERSAPANEL® CEMENT PARTICLE BOARD

		Uniformly	distributed loa	ad (kN/m²)				Con	centrated load	l (kN on 50mr	m x 50mm sqı	Jare)	
		Single Span			Continuous				Single Span			Continuous	
Span (mm)	Load limited by	Load lin defle						Load limited by			Load limited by		nited by ection
	stress	Span/300	Span/500		Span/300	Span/500		stress	Span/300	Span/500	stress	Span/300	Span/500
300	3.2	-	2.1	4.0	-	4.0	300	0.1	-	-	0.2	-	-
400	1.8	1.5	0.9	2.2	-	1.7	400	0.1	-	-	0.2	-	-
500	1.1	0.8	0.5	1.4	-	0.9	500	0.1	-	-	0.2	-	-
600	0.7	0.4	0.3	0.9	0.8	0.5	600	0.1		-	0.2	-	-
700	0.5	0.3	0.2	0.6	0.5	0.3	700	0.1	-	-0.1	0.2	-	-
800	0.3	0.2	0.1	0.5	0.4	0.2	800	0.1	-	-0.1	0.2	-	-
900	0.2	0.1	0.1	0.3	0.2	0.1	900	0.1	-	-0.1	0.1	-	-
1000	0.2	0.1	0.1	0.3	0.2	0.1	1000	0.1	-	-0.1	0.1	-	-

12mm - VERSAPANEL® CEMENT PARTICLE BOARD

		Uniformly	distributed loa	ad (kN/m²)				Con	centrated load	d (kN on 50mn	n x 50mm sql	are)	
		Single Span			Continuous				Single Span			Continuous	
Span (mm)	Load limited by			Load limited by		nited by ction		Load limited by			Load limited by		nited by ection
_	stress	Span/300	Span/500	stress	Span/300	Span/500		stress	Span/300	Span/500	stress	Span/300	Span/500
300	4.7	-	3.7	5.9	-	-	300	0.2	-	-	0.3	-	-
400	2.6	-	1.6	3.2	-	2.9	400	0.2	-	-	0.3	-	-
500	1.6	1.3	0.8	2.0	-	1.5	500	0.2	-	-	0.3	-	-
600	1.1	0.8	0.5	1.4	-	0.9	600	0.1		-	0.1	-	-
700	0.7	0.5	0.3	1.0	0.9	0.5	700	0.1	-	-	0.2	-	-
800	0.5	0.3	0.2	0.7	0.6	0.4	800	0.1	-	0.1	0.2	-	-
900	0.4	0.2	0.1	0.5	0.4	0.3	900	0.1	-	0.1	0.2	-	-
1000	0.3	0.2	0.1	0.4	0.3	0.2	1000	0.1	-	0.1	0.2	-	-

VERSAPANEL® LOAD CHARTS

14mm - VERSAPANEL® CEMENT PARTICLE BOARD

		Uniformly	distributed loa	ad (kN/m²)				Con	centrated load	d (kN on 50mr	n x 50mm squ	iare)	
		Single Span			Continuous				Single Span			Continuous	
Span (mm)	Load limited by		nited by ection	Load limited by		nited by ection		Load limited by		nited by	Load limited by		nited by ection
		Span/300	Span/500	stress	Span/300	Span/500			Span/300	Span/500	stress	Span/300	Span/500
300	2.0	1.8	1.1	2.6	-	2.1	300	0.1	-	-	0.1	-	-
400	1.1	0.8	0.5	1.4	-	0.9	400	0.1	-	-	0.1	-	-
500	0.7	0.4	0.2	0.9	0.7	0.4	500	0.1	-	0.1	0.1	-	-
600	0.4	0.2	0.1	0.6	0.4	0.3	600	0.1		0.1	0.1	-	-
700	0.3	0.1	0.1	0.4	0.3	0.2	700	0.1	-	0.05	0.1	-	-
800	0.2	0.1	0.1	0.3	0.2	0.1	800	0.1	-	0.04	0.1	-	-
900	0.1	0.1	0.04	0.2	0.1	0.1	900	0.1	-	0.04	0.1	-	-
1000	0.1	0.05	0.03	0.1	0.1	0.1	1000	0.1	0.1	0.03	0.1	-	-

16mm - VERSAPANEL® CEMENT PARTICLE BOARD

		Uniformly	distributed loa	ad (kN/m²)				Con	centrated load	l (kN on 50mn	n x 50mm squ	ıare)	
		Single Span			Continuous				Single Span			Continuous	
Span (mm)	Load limited by			Load limited by		nited by ction		Load limited by			Load limited by		nited by ection
		Span/300	Span/500		Span/300	Span/500		stress	Span/300	Span/500	stress	Span/300	Span/500
300	8.3	-	-	10.5	-	-	300	0.3	-	-	0.5	-	-
400	4.6	-	3.7	5.8	-	-	400	0.3	-	-	0.5	-	-
500	2.9	-	1.9	3.6	-	3.6	500	0.3	-	-	0.4	-	-
600	1.9	1.8	1.1	2.5	-	2.1		0.3		-	0.4	-	-
700	1.4	1.1	0.7	1.8	-	1.3		0.3	-	-	0.4	-	-
800	1.0	0.8	0.5	1.3	-	0.9	800	0.2	-	-	0.4	-	-
900	0.8	0.5	0.3	1.0	-	0.6	900	0.2	-	-	0.4	-	-
1000	0.6	0.4	0.2	0.8	0.7	0.4	1000	0.2	-	-	0.4	-	-

18mm - VERSAPANEL® CEMENT PARTICLE BOARD

		Uniformly	distributed loa	ad (kN/m²)				Con	centrated load	l (kN on 50mn	n x 50mm sql	ıare)	
		Single Span			Continuous				Single Span			Continuous	
Span (mm)	Load limited by			Load limited by			Span (mm)	Load limited by		nited by	Load limited by	Load lir defle	nited by ction
		Span/300	Span/500	stress	Span/300	Span/500		stress	Span/300	Span/500		Span/300	Span/500
300	10.6	-	-	13.3	-	-	300	0.4	-	-	0.7	-	-
400	5.9	-	5.2	7.4	-	-	400	0.4	-	-	0.6	-	-
500	3.7	-	2.7	4.6	-	-	500	0.4	-	-	0.6	-	-
600	2.5	-	1.6	3.2	-	2.9	600	0.3		-	0.5	-	-
700	1.8	1.6	1.0	2.3	-	1.9	700	0.3	-	-	0.5	-	-
800	1.3	1.1	0.7	1.7	-	1.2	800	0.3	-	-	0.5	-	-
900	1.0	0.8	0.5	1.3	-	0.9	900	0.3	-	-	0.5	-	-
1000	0.8	0.6	0.3	1.0	-	0.6	1000	0.3	-	-	0.5	-	-

19mm - VERSAPANEL® CEMENT PARTICLE BOARD

		Uniformly	distributed loa	ad (kN/m²)				Con	centrated load	l (kN on 50mn	n x 50mm sqı	Jare)	
		Single Span			Continuous				Single Span			Continuous	
Span (mm)	Load limited by			Load limited by		nited by ection		Load limited by			Load limited by		nited by ection
	stress	Span/300	Span/500		Span/300	Span/500		stress	Span/300	Span/500	stress	Span/300	Span/500
300	11.8	-	-	14.8	-	-	300	0.5	-	-	0.7	-	-
400	6.5	-	6.2	8.2	-	-	400	0.4	-	-	0.7	-	-
500	4.1	-	3.2	5.2	-	-	500	0.4	-	-	0.6	-	-
600	2.8	-	1.8	3.5	-	3.5	600	0.4		-	0.6	-	-
700	2.0	1.9	1.2	2.5	-	2.2	700	0.4	-	-	0.6	-	-
800	1.5	1.3	0.8	1.9	-	1.5	800	0.3	-	-	0.6	-	-
900	1.1	0.9	0.5	1.4	-	1.0	900	0.3	-	-	0.5	-	-
1000	0.9	0.7	0.5	1.1	-	0.7	1000	0.3	-	-	0.5	-	-

20mm - VERSAPANEL® CEMENT PARTICLE BOARD

		Uniformly	distributed loa	ad (kN/m²)				Con	Icentrated load	i (kN on 50mn	n x 50mm sql	ıare)	
		Single Span			Continuous				Single Span			Continuous	
Span (mm)	Load limited by		nited by ection	Load limited by		nited by ection		Load limited by		nited by	Load limited by		nited by ection
		Span/300	Span/500	stress	Span/300	Span/500			Span/300	Span/500	stress	Span/300	Span/500
300	13.1	-	-	16.4	-	-	300	0.5	-	-	0.8	-	-
400	7.3	-	7.2	9.1	-	-	400	0.5	-	-	0.8	-	-
500	4.6	-	3.7	5.8	-	-	500	0.4	-	-	0.7	-	-
600	3.1	-	2.1	3.9	-	-	600	0.4		-	0.7	-	-
700	2.2	-	1.3	2.8	-	2.5	700	0.4	-	-	0.6	-	-
800	1.6	1.5	0.9	2.1	-	1.7	800	0.4	-	-	0.6	-	-
900	1.2	1.1	0.6	1.6	-	1.2	900	0.4	-	-	0.6	-	-
1000	1.0	0.8	0.5	1.3	-	0.9	1000	0.4	-	-	0.6	-	-

22mm - VERSAPANEL® CEMENT PARTICLE BOARD

		Uniformly	distributed loa	ad (kN/m²)				Con	centrated load	l (kN on 50mn	n x 50mm squ	ıare)	
		Single Span			Continuous				Single Span			Continuous	
Span (mm)	Load limited by			Load limited by		nited by ection		Load limited by			Load limited by		nited by ction
		Span/300	Span/500	stress	Span/300	Span/500		stress	Span/300	Span/500	stress	Span/300	Span/500
300	15.9	-	-	19.9	-	-	300	0.6	-	-	1.0	-	-
400	8.8	-	-	11.1	-	-	400	0.6	-	-	0.9	-	-
500	5.5	-	4.9	7.0	-	-	500	0.5	-	-	0.8	-	-
600	3.8	-	2.8	4.8	-	-	600	0.5		-	0.8	-	-
700	2.7	-	1.8	3.4	-	3.4	700	0.5	-	-	0.8	-	-
800	2.0	2.0	1.2	2.6	-	2.3	800	0.5	-	-	0.7	-	-
900	1.5	1.4	0.8	2.0	-	1.6	900	0.4	-	-	0.7	-	-
1000	1.2	1.0	0.6	1.5	-	1.2	1000	0.4	-	-	0.7	-	-

24mm - VERSAPANEL® CEMENT PARTICLE BOARD

	Single Span Continuous							Con	centrated load	d (kN on 50mr	m x 50mm squ	Jare)	
		Single Span			Continuous				Single Span			Continuous	
								Load limited by			Load limited by		nited by
	stress	Span/300	Span/500		Span/300	Span/500		stress	Span/300	Span/500	stress	Span/300	Span/500
300	18.9	-	-	23.7	-	-	300	0.7	-	-	1.2	-	-
400	10.5	-	-	13.2	-	-	400	0.7	-	-	1.1	-	-
500	6.6	-	6.4	8.3	-	-	500	0.6	-	-	1.0	-	-
600	4.5	-	3.7	5.7	-	-	600	0.6		-	1.0	-	-
700	3.2		2.3	4.1	-	-	700	0.6	-	-	0.9	-	-
800	2.4	-	1.6	3.1	-	2.9	800	0.6	-	-	0.9	-	-
900	1.8	1.8	1.1	2.4	-	2.1	900	0.5	-	-	0.9	-	-
1000	1.4	1.3	0.8	1.9	-	1.5	1000	0.5	-	-	0.8	-	-

25mm - VERSAPANEL® CEMENT PARTICLE BOARD

	Single Span Continuous							Cor	ncentrated load	d (kN on 50mn	n x 50mm squ	ıare)	
		Single Span			Continuous				Single Span			Continuous	
								Load limited by			Load limited by		nited by ection
	stress	Span/300	Span/500		Span/300	Span/500		stress	Span/300	Span/500	stress	Span/300	Span/500
300	20.5	-	-	25.7	-	-	300	0.8	-	-	1.3	-	-
400	11.4	-	-	14.3	-	-	400	0.7	-	-	1.2	-	-
500	7.2	-	-	9.1	-	-	500	0.7	-	-	1.1	-	-
600	4.9	-	4.2	6.2	-	-	600	0.6		-	1.0	-	-
700	3.5	-	2.6	4.5	-	-	700	0.6	-	-	1.0	-	-
800	2.6	-	1.8	3.4	-	3.3	800	0.6	-	-	1.0	-	-
900	2.0	-	1.2	2.6	-	2.3	900	0.6	-	-	0.9	-	-
1000	1.6	1.5	0.9	2.0	-	1.7	1000	0.6	-	-	0.9	-	-

28mm - VERSAPANEL® CEMENT PARTICLE BOARD

		Uniformly	distributed loa	ad (kN/m²)				Con	centrated load	l (kN on 50mn	n x 50mm squ	iare)	
		Single Span			Continuous				Single Span			Continuous	
Span (mm)	Load limited by		nited by	Load limited by		mited by ection		Load limited by		nited by ction	Load limited by		nited by ction
	stress	Span/300	Span/500		Span/300	Span/500			Span/300	Span/500	stress	Span/300	Span/500
300	25.8	-	-	32.3	-	-	300	1.0	-	-	1.6	-	-
400	14.4	-	-	18.0	-	-	400	0.9	-	-	1.5	-	-
500	9.1	-	-	11.4	-	-	500	0.9	-	-	1.4	-	-
600	6.2	-	5.9	7.8	-	-	600	0.8		-	1.3	-	-
700	4.5	-	3.7	5.7	-	-	700	0.8	-	-	1.2	-	-
800	3.3	-	2.5	4.3	-	-	800	0.8	-	-	1.2	-	-
900	2.6	-	1.7	3.3	-	3.3	900	0.7	-	-	1.2	-	-
1000	2.0	-	1.3	2.6	-	2.4	1000	0.7	-	-	1.1	-	-

32mm - VERSAPANEL® CEMENT PARTICLE BOARD

Uniformly distributed load (kN/m²)								Concentrated load (kN on 50mm x 50mm square)							
	Single Span			Continuous				Single Span			Continuous				
Span (mm)	Load limited by stress	Load limited by deflection				nited by ction	Span (mm)	Load limited by	Load limited by deflection		Load limited by	Load limited by deflection			
		Span/300	Span/500	stress	Span/300	Span/500			Span/300	Span/500	stress	Span/300	Span/500		
300	33.7	-	-	38.4	-	-	300	1.3	-	-	2.1	-	-		
400	18.8	-	-	23.6	-	-	400	1.2	-	-	1.9	-	-		
500	11.9	-	-	15.0	-	-	500	1.1	-	-	1.8	-	-		
600	8.1	-	-	10.3	-	-	600	1.1		-	1.7	-	-		
700	5.9	-	5.5	7.4	-	-	700	1.0	-	-	1.6	-	-		
800	4.4	-	3.7	5.6	-	-	800	1.0	-	-	1.6	-	-		
900	3.4	-	2.6	4.3	-	-	900	1.0	-	-	1.5	-	-		
1000	2.7	-	1.9	3.4	-	-	1000	0.9	-	-	1.5	-	-		

36mm - VERSAPANEL® CEMENT PARTICLE BOARD

Uniformly distributed load (kV/m²)								Concentrated load (kN on 50mm x 50mm square)							
Span (mm)				Continuous			Span (mm)	Single Span			Continuous				
	Load limited by stress	Load limited by deflection		Load limited by	Load limited by deflection			Load limited by	Load limited by deflection		Load limited by	Load limited by deflection			
		Span/300	Span/500		Span/300	Span/500		stress	Span/300	Span/500	stress	Span/300	Span/500		
300	42.8	-	-	43.2	-	-	300	1.7	-	-	2.7	-	-		
400	23.9	-	-	29.9	-	-	400	1.5	-	-	2.4	-	-		
500	15.1	-	-	19.0	-	-	500	1.4	-	-	2.3	-	-		
600	10.4	-	-	13.1	-	-	600	1.3		-	2.2	-	-		
700	7.5	-	-	9.5	-	-	700	1.3	-	-	2.1	-	-		
800	5.6	-	5.2	7.2	-	-	800	1.2	-	-	2.0	-	-		
900	4.4	-	3.7	5.6	-	-	900	1.2	-	-	1.9	-	-		
1000	3.4	-	2.7	4.4	-	-	1000	1.2	-	-	1.9	-	-		

40mm - VERSAPANEL® CEMENT PARTICLE BOARD

		Uniformly	distributed loa	ad (kN/m²)		Concentrated load (kN on 50mm x 50mm square)							
		Single Span		Continuous			Span (mm)	Single Span			Continuous		
Span (mm)	Load limited Load deflection limited by			Load limited by	Load limited by deflection			Load limited by	Load limited by deflection		Load limited by	Load limited by deflection	
		Span/300	Span/500		Span/300	Span/500		stress	Span/300	Span/500	stress	Span/300	Span/500
300	52.8	-	-	48.0	-	-	300	2.1	-	-	3.3	-	-
400	29.5	-	-	36.0	-	-	400	1.9	-	-	3.0	-	-
500	18.7	-	-	23.5	-	-	500	1.8	-	-	2.8	-	-
600	12.8	-	-	16.2	-	-	600	1.7		-	2.7	-	-
700	9.3		-	11.8	-	-	700	1.6	-	-	2.5	-	-
800	7.0	-	-	8.9	-	-	800	1.5	-	-	2.5	-	-
900	5.4	-	5.1	6.9	-	-	900	1.5	-	-	2.4	-	-
1000	4.3	-	3.7	5.5	-	-	1000	1.4	-	-	2.3	-	-

VERSAPANEL® FOR CEILINGS

Although Versapanel® is not generally regarded as a ceiling material, many prestigious projects have been completed using Versapanel® for a variety of applications.

- Class '0' fire resistance High performance in the presence of moisture Easily machined to produce profiles
- Can be used in grid or demountable system Acoustic performance Wide range of surface finishes
- Flexibility in design

MOULDED PANELS

Versapanel® can be machined to create a fielded effect or have mouldings in hard or soft wood applied to the surface.

CEILING GRID

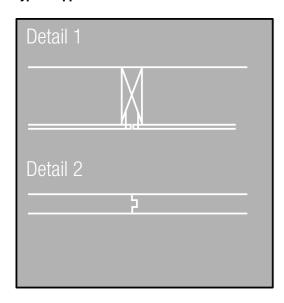
VERSAPANEL® FOR CEILINGS

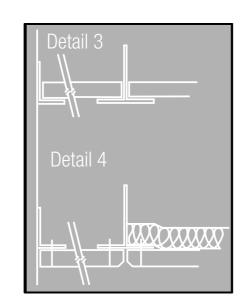
Versapanel® can be supplied cut to size, bevel or square edged, and with a variety of surface treatments. Form emulsion, veneered, laminated etc.

SPECIFIC HIGH PERFORMANCE SYSTEMS

Versapanel® ceiling systems are used where there is a requirement for a high performance against any of the following criteria: Fire-moisture/Humidity/-Acoustics-Impact contamination. Versapanel® is also available in standard sizes of 600 x 600mm or 1200 x 600mm. Available with square edge (for lay-in grid system) or bevelled edge (for face fixing) they offer a Class '0' fire resistance with a Class '1' spread of flame to BS 476-7 European classification to EN 13501-1 (B-s1,d0 excluding floors). The density of Versapanel® offers excellent airborne sound reduction (31 dB for a single tile of 10mm). The tiles can be supplied pre-decorated or with an ex-works smooth finish suitable for all types of site applied coatings. Being manufactured from Versapanel® they are totally asbestos and toxic free, with the additional qualities of long term durability and maintenance free performance.

Typical Application Details





SURFACE TREATMENTS TO VERSAPANEL®

DECORATION TO VERSAPANEL®

Versapanel® will receive most standard paint finishes and stains. Versapanel® has a surface pH of 11-13 and therefore an alkali resistant primer may be required by some coatings - it is advisable to refer to the paint manufacturer in all instances. Remove any surface dust prior to decoration and ensure that if boards have been exposed to the elements that they have been allowed to dry out and acclimatise before being coated.

For surface treatments that are not vapour or moisture permeable, the reverse and all edges of the panel should also be treated in the same way. Uneven joints, screw holes or surface damage can be rectified by use of compatible filler.

FACTORY APPLIED PRIMER/SEALER TO VERSAPANEL®

Versapanel® can be supplied with a factory applied primer/sealer that will resist up to 80% of possible moisture uptake. It can be applied to both unsanded and sanded material, compatibility of this finish to additional surface treatments should be referred to the finish-coating manufacturer before any application. This finish is standard for the Versafloor® range of flooring and is essential when used in conjunction with ceramic tile installations.



SURFACE TREATMENTS TO VERSAPANEL®

SURFACE TREATMENTS TO VERSAPANEL®

PRIMER/SEALER SPECIFICATION

Composition - Acrylic based water reducible coating containing white or grey pigment and fillers.

Application - Suitable for in line application to Versapanel® cement board, both faces and all edges. It is applied by computer controlled pressure spray guns.

Properties - The cured film of the primer/sealer has excellent adhesion to the substrate and reduces the swelling and shrinkage of the panel by controlling any moisture uptake.

Extensive test have been carried out with various adhesive manufacturers but in all instances surface compatibility should be carried before any further application is made by either adhesive or paint.

Appearance - Opaque white or grey

Viscosity - 30 - 35 sec. Din 4mm cup

- ca 1.33 Density

Drying - After coating panels run through an extractor zone so that moisture is taken form the application to aid curing and level

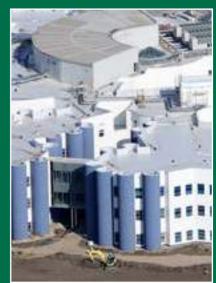
the surface. Panels then pass under infra red dry zones to harden the surface.

- Product should always be stored away from direct sunlight and direct heat sources at temperatures preferably below 25°C. Storage

For more information on waterproofing, please contact Euroform.

GALLERY







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