

**MORE FROM WOOD.**



**PROFESSIONAL**



## **BUILDING SOLUTIONS**

› House Building, Domestic Flooring, Refurbishment, Renovations, Modular & Offsite Construction, Mezzanine & Access Flooring



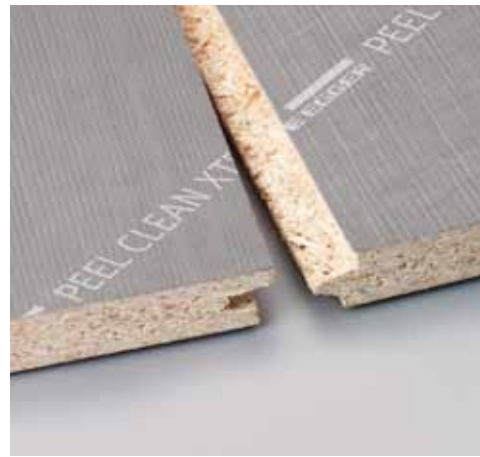
[www.egger.co.uk](http://www.egger.co.uk)



EGGER Decorative Protect



EGGER Protect



EGGER Peel Clean Xtra



EGGER P5



EGGER HDX Reflect



EGGER HDX Class O



EGGER HDX Protect



EGGER HDX



EGGER FD30



EUROSTRAND® OSB 4



EUROSTRAND® OSB 3



EUROSTRAND® OSB

## CONTENTS

04-05	<b>INTRODUCTION</b>
06-07	<b>EGGER &amp; THE ENVIRONMENT</b>
08-09	<b>DECORATIVE PROTECT ›</b> <i>Flooring that protects and looks good</i>
10-11	<b>PROTECT ›</b> <i>Flooring that protects both during &amp; after the building process</i>
12-13	<b>PEEL CLEAN XTRA ›</b> <i>Flooring with peelable protection</i>
14-15	<b>P5 ›</b> <i>EGGER standard moisture resistant tongue &amp; groove flooring</i>
16-17	<b>DESIGN CONSIDERATIONS FOR JOISTED FLOORS</b>
18	<b>RAPID DECK FLOOR LAYING SYSTEM</b>
19	<b>EGGER ADHESIVES ›</b> <i>EGGER D3 &amp; EGGER D4</i>
20-21	<b>EUROSPAN® P5 &amp; P6 ›</b> <i>Quality raw particleboard</i>
22-23	<b>EUROSTRAND® OSB ›</b> <i>High performance oriented strand board</i>
24-29	<b>EGGER HDX ›</b> <i>Flooring for heavy duty applications</i>
30-34	<b>FD30 FIRE DOOR CORES ›</b> <i>Technical specifications</i>



## **EGGER IS A WELL RESPECTED NAME IN CONSTRUCTION** DUE TO THE QUALITY, PRODUCT RANGE DIVERSITY AND NUMBER OF CERTIFIED AND TESTED PRODUCTS WE OFFER

The EGGER Group consists of 15 manufacturing facilities throughout Europe making EGGER one of Europe's leading wood based panel producers.

EGGER UK Limited manufactures the "EGGER" brand of P5 flooring products and the HDX range of industrial products. The range incorporates EGGER Protect, a robust flooring board with surface protection to both sides of the board, offering up to 42 days protection from the elements when laid correctly using the Rapid Deck Floor Laying System. Used by many of the UK's leading house builders EGGER Protect is Ideal for use in applications such as house building, domestic flooring, refurbishment, renovations, modular and off-site construction.

The EGGER HDX range of heavy duty 38 mm P5 and P6 industrial flooring products are designed specifically for use in mezzanine, warehouse and access flooring applications.

At our plant In Wismar Germany, we manufacture PEFC certified EUROSTRAND® OSB available in a variety of thicknesses and grades. EUROSTRAND® OSB 3 is BBA approved for use in flooring, roof decking and sarking applications and is the ideal choice for the timber frame/ modular builder.

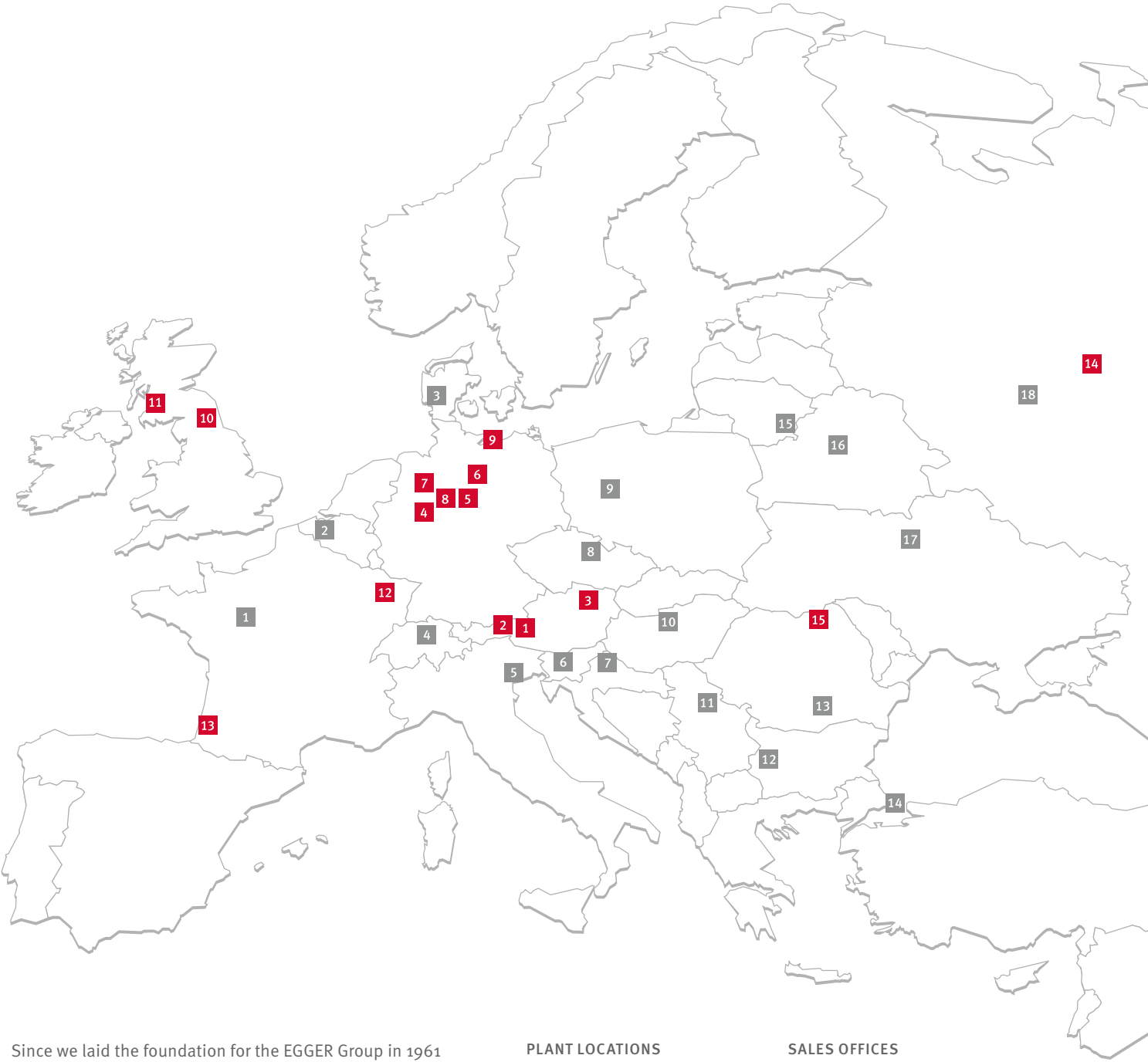
Through both UK and European production we are able to offer new and innovative products to the UK market, enabling builders to complete quicker and to a higher standard than was ever possible before.

All of our construction products are certified and independently tested by the WKI test institute to conform to the construction products directive (CPD) formulated by the European Community to facilitate free, unrestricted movement of building materials throughout the EC.

The EGGER Group is certified under ISO 9001:2008 ensuring consistently high production standards each and every time.



# WE SUPPLY GLOBALLY FROM OUR BASES IN EUROPE

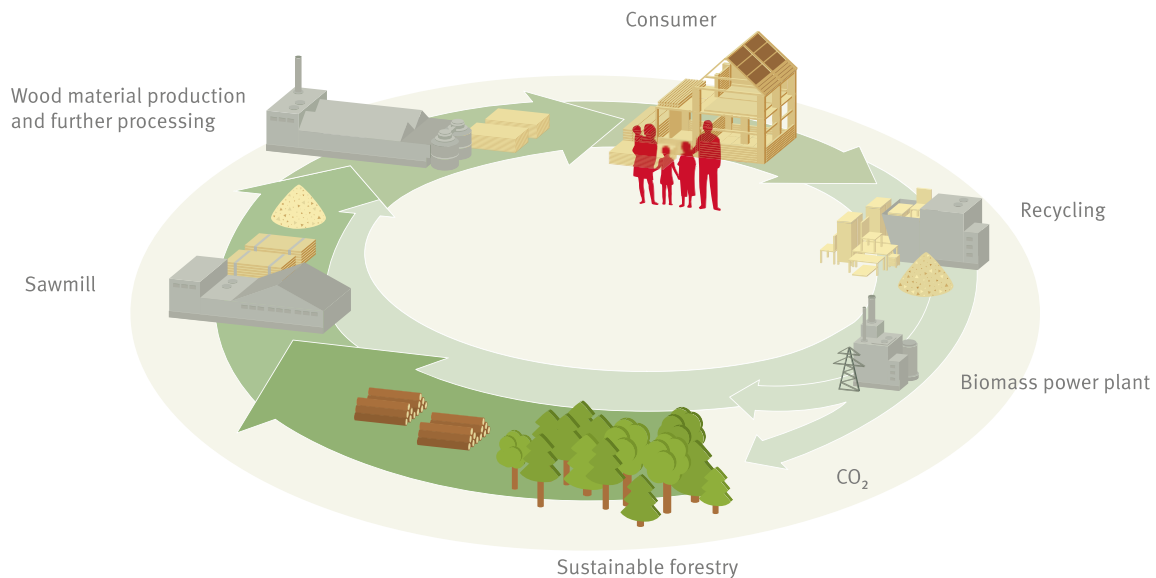


Since we laid the foundation for the EGGER Group in 1961 with the first chipboard plant in St. Johann in Tirol, we have been achieving sustainable international growth based on our own performance. Thanks to extensive investments, all of our 15 locations are state-of-the-art. Regardless of whether a board comes from Rion in South-West France or was manufactured in the Romanian town of Radauti – the same EGGER quality standards apply. These are good prerequisites to continue expanding our leading role in the European wood-based material industry in the future.

PLANT LOCATIONS			SALES OFFICES		
1	ST. JOHANN IN TIROL	AT	1	TOURS	FR
2	WÖRGL	AT	2	ZULTE	BE
3	UNTERRADLBERG	AT	3	TISTRUP	DK
4	BRILON	DE	4	KRIENS	CH
5	BEVERN	DE	5	UDINE	IT
6	GIFHORN	DE	6	ŠENČUR	SI
7	BÜNDE	DE	7	VARAŽDIN	HR
8	MARIENMÜNSTER	DE	8	HRADEC KRALOVĚ	CZ
9	WISMAR	DE	9	POZNAN	PL
10	HEXHAM	UK	10	BUDAPEST	HU
11	BARONY	UK	11	SMEDEREVO	RS
12	RAMBERVILLERS	FR	12	SOFIA	BG
13	RION DES LANDES	FR	13	BUCUREȘTI	RO
14	SHUYA	RU	14	İSTANBUL	TR
15	RADAUTI	RO	15	VILNIUS	LT
			16	MINSK	BY
			17	KIEV	UA
			18	MOSCOW	RU
			19	SHANGHAI	CN
			20	TOKYO	JP

## EGGER & THE ENVIRONMENT

EGGER pursues a far reaching environmental policy and adheres to the strict ecological regulations laid down by the wood processing industry. Starting with the collection of timber from renewable forests and wood residues from saw mills, to the generation of energy through environmentally friendly production techniques and finally, through to the continual monitoring of emissions.



Very little waste is generated during the manufacturing of particleboard, as almost all by-products are used, whether as a raw material, or as an energy source.

When timber is harvested from the forest it is usually delivered to a sawmill and the parts of the tree that cannot be used by the sawmilling industry (e.g. the tops) can be used by EGGER.

Furthermore the off-cuts and sawdust generated from the sawmills when they produce sawn timber can then also be used by EGGER.

Wood is a renewable and versatile raw material. Its primary uses are for:

- Furniture
- Construction
- Packaging

At the end of its life, wood, or a wood based panel, such as particleboard can be recycled or used as a carbon-neutral source of energy.

The greatest benefit from a carbon viewpoint is to respect the above cycle since more carbon is stored for longer, but also more energy and infinite resources are saved since fossil fuels are not used as an alternative.





## WE REDUCE CO<sub>2</sub>

Through the processing of wood in EGGER products, annually

**3.6 million tonnes** of CO<sub>2</sub>\* are materially bound; this corresponds to the CO<sub>2</sub> emission from **800,000**

households\*\*. Through the use of recycled wood residues we save the environment **1.2 million tonnes** CO<sub>2</sub> per year, and through our biomass power plants we annually achieve a CO<sub>2</sub> saving of **640,000 tonnes** in comparison to the combustion of natural gas.

\* Established from the greenhouse potential of the EGGER EPDs (in kg CO<sub>2</sub> equivalent, on the basis of the production figures 2007/08)

\*\* An average European household with three people produces approximately 4.5 tonnes of CO<sub>2</sub> per year, source: according to EUROSTAT 08/2008

## PROTECTING THE ENVIRONMENT BEGINS WITH SUSTAINABLE FORESTRY

Sustainable forestry has the highest priority at EGGER. For the production of wood materials we exclusively use wood from forest thinnings and wood residues from sawmills, as well as suitable recycled wood. Within the chain of custody, our plants are PEFC\* and/or FSC\*-certified depending on the availability of wood.

\* PEFC (Programme for the Endorsement of Forest Certification Schemes) and/or FSC (Forest Stewardship Council)

## RECYCLING AND THERMAL UTILISATION OF WOOD

Part of the wood we use consists of recycled wood residues. Those wood materials that accrue during production and which cannot be used materially are combusted in biomass power plants. The energy created through this is utilised for the drying of the wood chips used in the production of wood-based materials.

In the UK we have our own wood recycling company 'Timberpak' which collects, sorts and supplies timber which has already been used (e.g. uncontaminated timber such as pallets and old floorboards). Approximately 40% of the timber we use at our Hexham plant is recycled wood. Recycling timber is a sustainable use of wood resources and helps improve the environmental efficiency of its use.

❖ Further information on EGGER and the environment can be viewed at [www.egger.co.uk/environment](http://www.egger.co.uk/environment).



1m<sup>3</sup> (or respectively 450 kg) of spruce wood stores approx. **825 kg CO<sub>2</sub>**  
 1m<sup>3</sup> (or respectively 600 kg) of chipboard or OSB boards stores **1,100 kg CO<sub>2</sub>**  
 1m<sup>3</sup> (or respectively 880 kg) of MDF boards stores **1,615 kg CO<sub>2</sub>**



# EGGER DECORATIVE PROTECT

With a unique wood grain finish on a proven P5 high tech substrate, this high performance tongue and groove flooring board greatly improves building presentation, adds value to all building projects and creates a good first impression.

## IMPROVED PRESENTATION

Warm and inviting, EGGER Decorative Protect gives you an attractive floor and creates an excellent first impression, whilst adding value to the property.

## ALL WEATHER PROTECTION

Once correctly laid, EGGER Decorative Protect can be left exposed to the elements for up to 42 days. The fully sealed surface ensures that the floor is protected against moisture, wear, impact and traffic during the build process.

## ENHANCED CUSTOMER APPEAL

With a unique wood grain finish on a proven P5 high tech substrate, EGGER Decorative Protect greatly improves the presentation of new buildings and can even act as a finished floor if necessary until an appropriate floor covering is laid.

## THE GO-ANYWHERE FLOOR

EGGER Decorative Protect is ideal for domestic flooring in traditional, timber-frame and modular builds, in private and social housing, student accommodation and care homes. Suitable for damp or humid environments.

## BETTER FOR YOUR BUSINESS

Enhancing your company's reputation for quality, EGGER Decorative Protect communicates premium quality to customers, facilitating up-selling.

EGGER Decorative Protect meets Health and Safety requirements and current regulations for part E/L (in England) and part J/H (in Scotland).

### EGGER Decorative Protect - The benefits

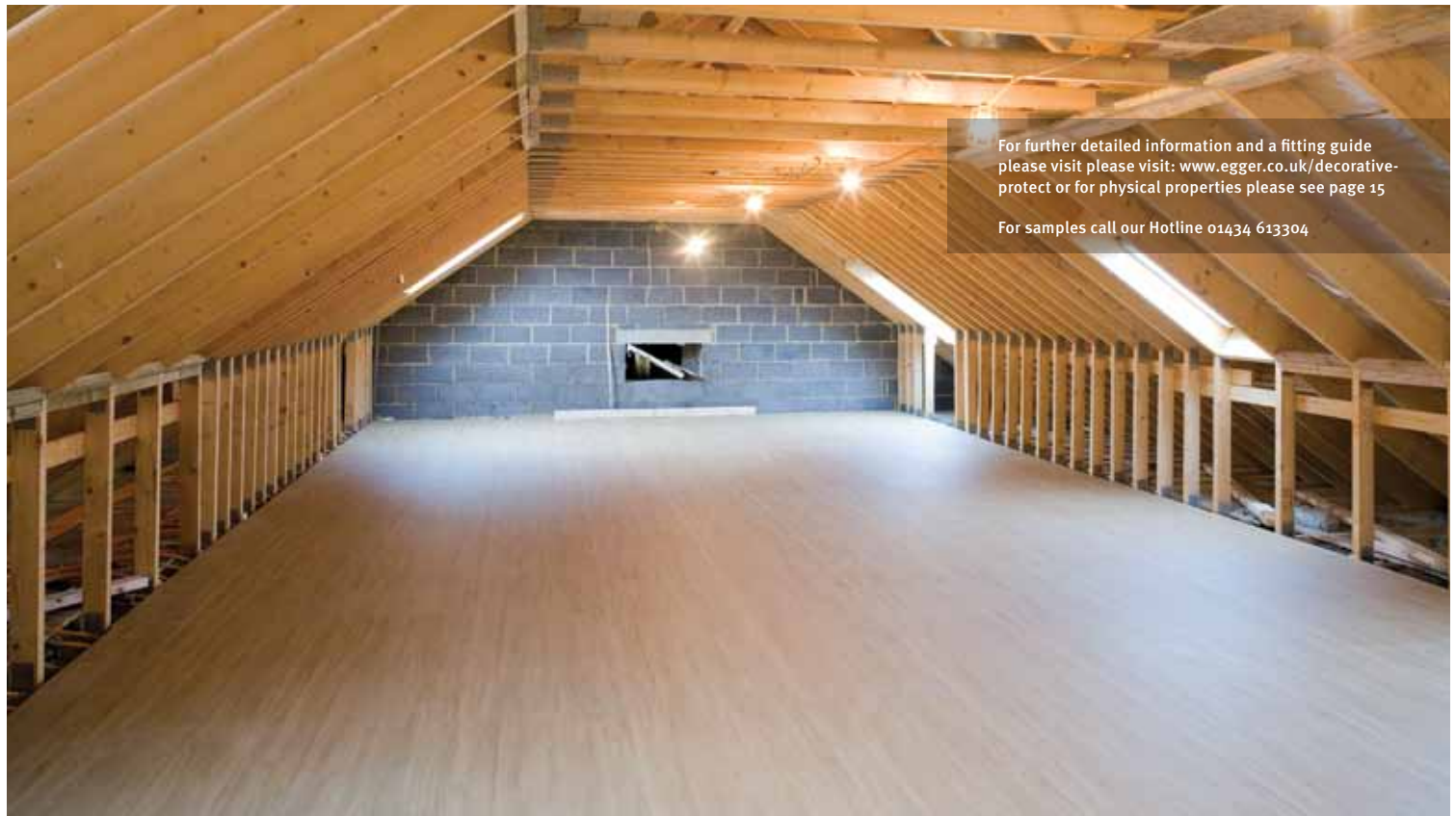


- Quick and easy to install, the 2400 x 600 mm boards have a tongue & groove profile on all 4 sides and are available in thicknesses of 18 or 22 mm.
- All boards are machine profiled with diamond tipped tooling to achieve a precision tongue and groove profile.
- Protects during and after construction.
- Also available with a peel clean option.
- CE Certified and FSC accreditation.
- Ideal for underfloor heating, Decorative Protect is less prone to movement due to moisture changes which may be accelerated by underfloor heating.
- EGGER D4 Adhesive is used to bond the boards to the joists and EGGER D3 Adhesive is recommended to bond the tongue and groove of the boards. This eliminates the use of excessive nailing vastly reducing squeaks often associated with fully nailed floors.

The floor that's setting new standards:  
EGGER Decorative Protect





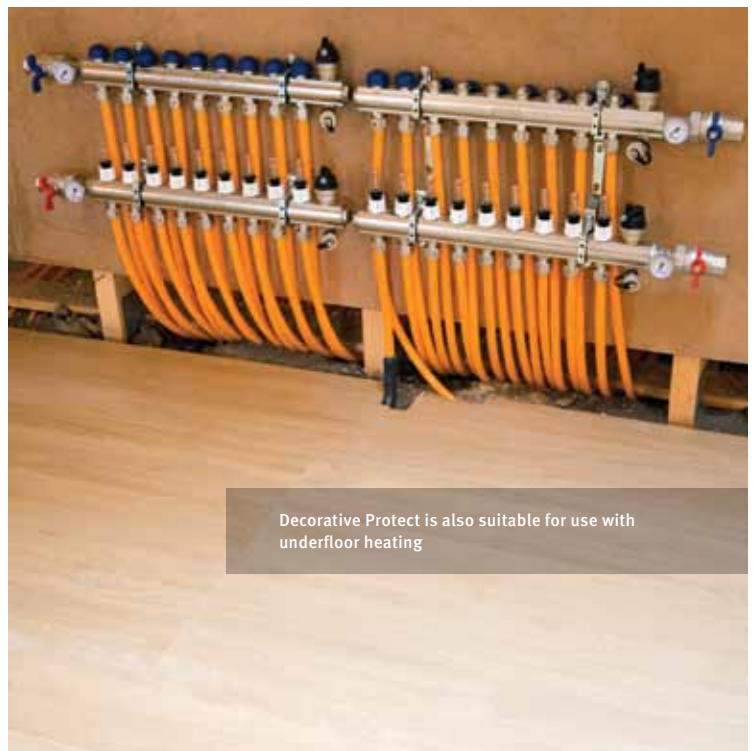


For further detailed information and a fitting guide please visit [www.egger.co.uk/decorative-protect](http://www.egger.co.uk/decorative-protect) or for physical properties please see page 15

For samples call our Hotline 01434 613304



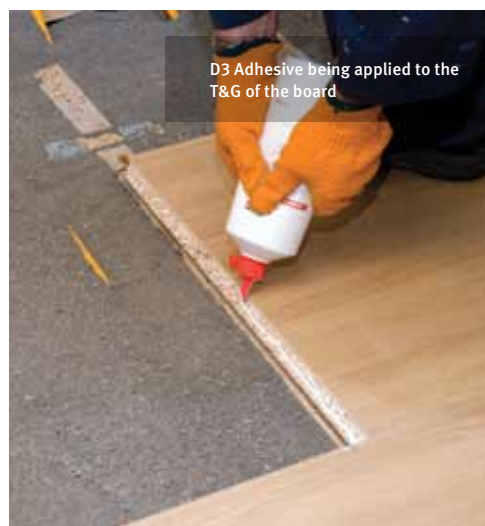
Tongue & groove of Decorative Protect being fitted together



Decorative Protect is also suitable for use with underfloor heating



D4 Adhesive being applied to the joint in two parallel lines



D3 Adhesive being applied to the T&G of the board



Tongue & groove of Decorative Protect being fitted together

## EGGER PROTECT

EGGER Protect, made from P5 flooring grade particleboard, is faced with thermosetting resin impregnated Kraft paper\* on both sides of the board providing double protection and preventing moisture ingress.

EGGER Protect is CE certified and is ideal as a floor across joists, EGGER Protect can be left exposed to the elements for up to 42 days during the building process. EGGER Protect can be laid during light rain thus reducing weather related stoppages and resulting in speedier completions.

When glued properly with EGGER D4 Adhesive (see page 18-19), EGGER Protect requires no joint sealing tape, leaving you with a fully sealed working deck. This finished deck protects against site spoil, impact, wear and tear of heavy site traffic and moisture.

EGGER Protect's unique anti-slip surface provides additional foot holding in wet and dry conditions which is of significant benefit to site safety. EGGER Protect is the ideal solution for builders requiring a safe working platform during house building construction.

EGGER Protect meets Health and Safety requirements and current regulations for part E/L (in England) and part J/H (in Scotland).

Ideal for use with underfloor heating as EGGER Protect is less prone to movement due to moisture changes which may be accelerated by underfloor heating.

\* We do not guarantee colour therefore variations in colour between batches are possible.

### EGGER Protect - The benefits



- Quick and easy to install, the 2400 x 600 mm boards have a tongue & groove profile on all 4 sides and are available in thicknesses of 18 or 22 mm.
- All boards are machine profiled with diamond tipped tooling to achieve a precision tongue and groove profile.
- Protects against the elements – EGGER Protect, once correctly laid can be left exposed for up to 42 days during the building process whatever the weather.
- Protects against water and moisture ingress on **both** sides of the board thanks to the fully sealed surface of EGGER Protect.

### EGGER Protect - In use

“EGGER Protect and the Rapid Deck system is advantageous to us in both onsite and pre-fabricated factory applications. Its speed and durability ensure quality standards are met and we find it dramatically reduces potential remedial works.”

**Matthew Naughton, Assistant Manager, Wyckham Blackwell Limited**

“As a leading national house builder we find EGGER Protect to be a cost effective decking product and complies with our health and safety standards.”

**Ian Cryer, Group Purchasing Manager, Bellway Homes**

“We specify EGGER Protect because of its excellent weather performance, for us it proves cost effective as it has no peel away foils to dispose of. A floor can be fitted in one visit to site and we don't get additional call backs after the floor has been installed.”

**Philip Keohane, Construction Manager, Linfoot Homes Limited**



EGGER Protect







For further detailed information and a fitting guide  
please visit please visit: [www.egger.co.uk/protect](http://www.egger.co.uk/protect)  
or for physical properties please see page 15

For samples call our Hotline 01434 613304

## EGGER PEEL CLEAN XTRA

Peel Clean Xtra is made from P5 flooring grade, moisture resistant particleboard covered with an easy to peel, anti-slip polyethylene film, designed to provide surface protection from site traffic and wet trades while building works are in progress.

EGGER Peel Clean Xtra is ideal for refurbishment/renovation, new build and for modular/pre-fab construction. Once the building work is complete, the film can be removed to provide a clean and well presented appearance to the floor prior to handover.

We recommend that joints of EGGER Peel Clean Xtra are sealed using EGGER D4 Adhesive to prevent moisture ingress.

Once peeled away from the top surface of the board the film is suitable for disposal and recycling through a polythene recycling process.

EGGER Peel Clean Xtra is designed for use with the Rapid Deck Floor Laying System (see page 18-19) or traditional fixing methods where poly laminated joint sealing tape may be required. See [www.egger.co.uk/mechanicalfixing](http://www.egger.co.uk/mechanicalfixing) for further information.

### POLYLAMINATED HIGH GRADE JOINT SEALING TAPE

Product	Width [mm]	Roll size	Rolls per pack
Polylaminated tape	48 mm	25 m	36

### STANDARD TAPE

Board size [mm]	Product	Boards per pack	Rolls of tape
18 mm	Peel Clean Xtra	80 boards	9
22 mm	Peel Clean Xtra	64 boards	8

The colour of Peel Clean Xtra film may change due to availability but this does not alter the quality of the film.


#### EGGER Peel Clean Xtra - The benefits

- Quick and easy to install, the 2400 x 600 mm boards have a tongue & groove profile on all 4 sides and are available in thicknesses of 18 or 22 mm.
- All boards are machine profiled with diamond tipped tooling to achieve a precision tongue and groove profile.
- New easy to peel film and less waxy residue.
- Peel off the film, revealing a floor left clean and well presented prior to handover.
- Once correctly laid, Peel Clean Xtra can be left exposed to the elements for up to 42 days during the build process.

EGGER Peel Clean Xtra







For further detailed information and a fitting guide  
please visit please visit: [www.egger.co.uk/peelcleanextra](http://www.egger.co.uk/peelcleanextra)  
or for physical properties please see page 15

For samples call our Hotline 01434 613304

## EGGER P5 (MOISTURE RESISTANT)

EGGER tongue and groove moisture resistant P5 grade particleboard forms the basis for many of our value added products

P5 flooring grade particleboard is specified by the NHBC for new build applications and is ideal for domestic flooring and modular building. EGGER P5 is suitable for humid/damp environments and is therefore ideal for bathroom and kitchen floors.

All boards are machine profiled with diamond tipped tooling to achieve a precision tongue and grooved profile. The board is manufactured in accordance with EN312-5:2003, and has been independently audited by WKI to meet CE guidelines. All production is FSC certified by HOLZCER.

Available in 18 mm and 22 mm thickness, 2400 mm × 600 mm board size.

EGGER P5 also forms the basis for Decorative Protect, Protect and Peel Clean Xtra. The information in the tables therefore is relevant for all of these products.

### EGGER P5 - The benefits



- Quick and easy to install, the 2400 × 600 mm boards have a tongue & groove profile on all 4 sides and are available in thicknesses of 18 or 22 mm.
- All boards are machine profiled with diamond tipped tooling to achieve a precision tongue and groove profile.
- Specified by the NHBC for New Build applications and is ideal for domestic flooring and modular building.
- EGGER P5 boards are moisture resistant.

### LOADING TABLES

Board	Fixing method	Max. span [mm]	QK Uniformly distributed load kN/m <sup>2</sup>	QK Concentrated point load kN SC1	QK Concentrated point load kN SC2
22 mm P5	Rapid Deck	400	11.3	3.7	2.6
22 mm P5	Traditional	400	11.3	3.2	2.2
22 mm P5	Rapid Deck	600	3.2	3.0	2.0
22 mm P5	Traditional	600	3.2	2.9	2.0

All loadings are medium term duration for imposed floor loads as defined by EUROCODE 5-BS EN 1995-1-1:2004.

SC1 = Service Class 1 dry conditions (relative humidity of surrounding area only exceeds 65% for a few weeks per year).

SC2 = Service Class 2 humid conditions (characterised by a relative humidity of the surrounding area only exceeding 85% for a few weeks per year). Traditional fixing D3 to T&G and min. 3 nails or screws.

2kN are required for most category A domestic and residential areas. 2.7kN are required for category B&C areas such as offices, snooker rooms etc. And 3kN is required for category C areas like classrooms or cafes.

### AVAILABILITY

Thickness	Standard dimension	Boards per pack	Pack weight
18 mm	2400 × 600 mm	80	1.5 tonnes
22 mm	2400 × 600 mm	64	1.5 tonnes



EGGER P5



## EGGER P5 PHYSICAL PROPERTIES

### PRODUCT TYPE

Load bearing flooring grade particleboard for use in humid conditions (characterised by a relative humidity of the surrounding area only exceeding 85% for a few weeks per year).

EGGER Protect and EGGER Decorative Protect has the added benefit of a Kraft paper impregnated with thermosetting resins bonded to both faces of the board for increased protection and durability.

EGGER Peel Clean Xtra has a heavy-duty polyethylene film laminated on the top surface which is removed once the floor is laid.

EGGER P5 particleboard is FSC certified through the HOLZCERT Austria Chain of Custody Certificate HCA-COC-100017.

EGGER Protect particleboard is designed for use as a floor across joists during house construction where the floor is likely to be exposed to the elements prior to the installation of the roof.

EGGER Peel Clean Xtra particleboard is designed for use in joisted floor construction which may be left exposed to the elements for up to 42 days during the building process.

### CONSTRUCTION

EGGER P5 particleboard is manufactured to EN 312-5:2003 under an ISO9001:2008 Quality Austria OQS Certificate Number 184/0. The Wilhelm-Klauditz-Institut (WKI) of Germany has granted EGGER a Certificate of Compliance 0765-CPD- 366 with the CE marking requirements of the Construction Products Directive.

### PHYSICAL PROPERTIES TABLE – DECORATIVE PROTECT / PROTECT / PEEL CLEAN XTRA / P5

Properties	Test method	Unit	18 mm mean	L5% or U5%	Requirement	22 mm mean	L5% or U5%	Requirement
Bending Strength	EN310	N/mm <sup>2</sup>	18.8	17.4	≥16.0	16.4	14.6	≥14.0
Modulus of Elasticity	EN310	N/mm <sup>2</sup>	2860	2620	≥2400	2610	2370	≥2150
Density	EN323	kg/m <sup>3</sup>	649			620		
Internal bond	EN319	N/mm <sup>2</sup>	0.66	0.57	≥0.45	0.58	0.51	≥0.40
Thickness swelling	EN317	%	5.9	7	≤10.0	6.3	7.6	≤10.0
Internal bond after cyclic	EN321	N/mm <sup>2</sup>	0.35	0.27	≥0.22	0.3	0.24	≥0.20
Cyclic thickness swelling	EN321	%	9.8	11.9	≤12.0	9.7	10.9	≤11.0
Wear resistance EGGER Protect	EN14322/ EN438-2	Class 3A	550 REV					
Wear resistance EGGER Decorative Protect	EN14322/ EN438-2	Class 4	3500 REV					
Fire Behaviour	EN13501-1	D <sub>FL</sub> —s1						
Slip Resistance	37 (WET) Satisfactory 56 (DRY) Satisfactory							

P5/ PEEL CLEAN XTRA/ PROTECT/ DECORATIVE PROTECT: All percentile values shown are based on mean values for unconditioned individual boards tested in accordance with EN312:2003 and calculated in accordance with EN326-1 all results verified by WKI Factory Production Control Audit 27.11.09



## DESIGN CONSIDERATIONS FOR 18 & 22 mm JOISTED FLOORS

### UNDER FLOOR SERVICES

Access to any pipes and services running between joists should be ensured. Joists should be trimmed to all four edges of any removable trap or duct cover. Fixing of traps and covers should be with 50 mm × 8 gauge countersunk wood screws in predrilled holes.

### SITE WORK

Preparation: All timber joists and noggins treated with a waterborne preservative should be allowed to dry out thoroughly before installation.

### SITE SAFETY

Good health and safety practice is vital during the building process. EGGER Protect and EGGER Decorative Protect can help you on site by providing a non slip surface that negates the need for temporary decking and provides a safer working environment.

### EXPANSION PROVISION

To take into account any increase of panel moisture content it is necessary to incorporate an expansion gap. For tongued and grooved panels it is essential to allow for possible expansion by providing a gap wherever boards abut any rigid upstand such as a perimeter wall/internal load-bearing walls, column, pipes or fireplace surround. The gap at each edge of the floor should be equal to 2 mm/metre run of floor but not less than 10 mm wide. Movement gaps should be kept free of debris. For floors where the movement gap cannot be dealt with at the perimeter alone or which are in excess of 10 metres long e.g. corridors, intermediate movement gaps (minimum 10 mm) should be incorporated.

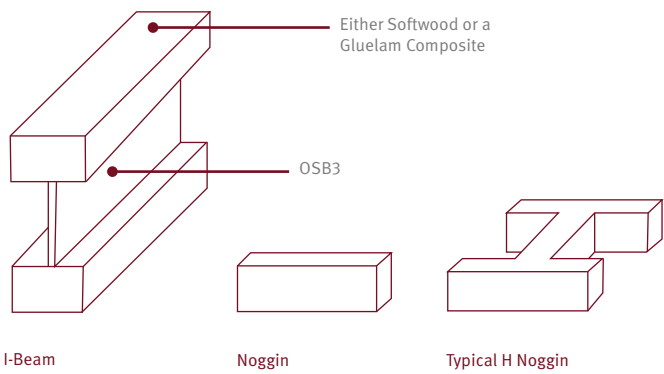
Good health and safety practice is vital during the building process



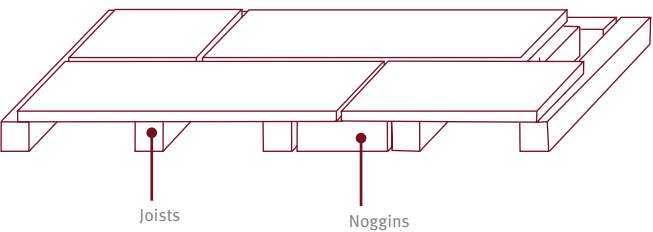


JOISTS AND NOGGINS

Noggins are generally made from rough sawn timber which must be used to support short end joints which do not rest on a joist, and to support any unsupported joint which abuts a perimeter wall. Unsupported perimeter and short end joints must be supported by a joist or noggin (including 22 mm board at 400 mm centres).

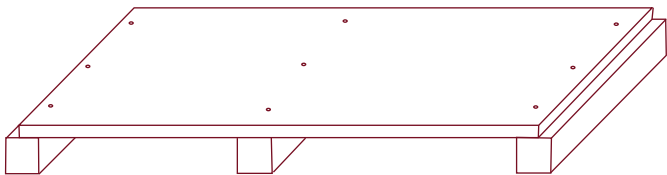


Joists should be correctly spaced so the short end joint of the board falls on the centre of the joist (excluding the use of noggins with the exception of perimeter noggins). It is recommended that particleboard should be laid with the longest edges at right angles to the joists. Short ends should be staggered by approximately half a board in a “brick bond” fashion.



JOIST SPANS

Joist centres/span equates to the measurement from the centre of one joist to the other. A clear span equates to the measurement from the inside edges of the joists (nearest edge from each joist). For 18 mm particleboard Joist centre/ span should be 400 mm and 400 mm or 600 mm for 22 mm boards.



NAILS & SCREWS

Boards should be fixed using corrosion resistant nails or screws. Corrosion resistant materials include galvanised or sheradised steel, phosphor bronze and silicon bronze.

Screws and flat headed improved nails (e.g. annular grooved or rink shank) have superior holding power and should be used in preference to plain shank nails.

Minimum nail length should be 50 mm or 2.5 times the board thickness, whichever is greater see the table below:

Board Thickness	Nail/Screw Length	Nail/Screw Diameter
18 mm	50 mm (2.5 × panel thickness)	2.8 mm (0.16 × panel thickness)
22 mm	55 mm (2.5 × panel thickness)	3.5 mm (0.16 × panel thickness)

Screws should be countersunk, self-drilling and self tapping types. Nails should be punched and screws should be countersunk by 2 mm to 3 mm below the surface.

EGGER Protect flooring boards



## RAPID DECK FLOOR LAYING SYSTEM

Rapid Deck is a floor laying system designed primarily to reduce installation times and also minimise squeaking floors, whilst complying with current HSE regulations for floor decking.

The Rapid Deck Floor Laying System involves bonding EGGER Protect board to the joists using EGGER D4 Adhesive.

While eliminating the use of nails the strength of the board is increased\*, whilst squeaks often associated with mechanical fixings are minimised.

\* The board/joist connection and the tongue and groove joints laid using the Rapid Deck Floor Laying System were tested at Durham University in April 2005, to confirm its suitability as a decking solution.

The Rapid Deck Floor Laying System also reduces weather related stoppages as it can be used to fix boards during light rain conditions. Furthermore, sealing the tongue and groove with EGGER D4 Adhesive negates the need for joint sealing tape.

The Rapid Deck Floor Laying System is also suitable for use with EGGER Decorative Protect, Peel Clean Xtra and P5.

For mechanical fixing instructions please see [www.egger.co.uk/mechanicalfixing](http://www.egger.co.uk/mechanicalfixing)

### STEP BY STEP GUIDE

1. Temporary bracing should be provided, in accordance with the joist manufacturers recommendations, to keep the joists in straight and plum position.
2. Apply 2 generous beads of EGGER D4 Adhesive to the top of the joist, along the full length of the joist.
3. Place the first row of boards onto the joists and square using a line.
4. Once positioned an angular ring shank nail 50 mm or 2.5 times the thickness of the board should be hammered flush through the board on every joist in the first row.
5. As further boards are laid it will be necessary to remove the temporary bracing (Please follow your joist manufacturers recommendations). Further mechanical fixings should replace those which have been removed from the temporary bracing.
6. A liberal amount of EGGER D4 Adhesive should be applied directly onto the shoulder of the tongue and into the groove of the board.
7. Position board and close the joint tightly ensuring a small bead of adhesive is forced out of the joint along the entire length of the joint on the top of the board.
8. The second and subsequent rows should be fixed with EGGER D4 Adhesive to the top of the joist (as per step 2) and steps 6-7 should be repeated. It is not recommended to glue more than one board at a time due to the rapid curing time of EGGER D4 Adhesive. Avoid walking on newly laid boards.
9. Seal exposed nail heads using EGGER D4 Adhesive. Perimeter edges, cut edges and stair wells should also be sealed using EGGER D4 Adhesive. Excess adhesive is likely to foam out of the joint and form a ridge. This is to be expected and will enhance the protection of the joint. Any excess adhesive should be left to dry and can be removed with a scraper.

#### The Rapid Deck Floor Laying System



- Complies with current HSE regulations for floor decking.
- Saves time and labour costs.
- No taping, no need for tools/applicators and quick and easy to lay.
- For installation during light rain conditions.
- Vastly reduces squeaks often associated with fully nailed floors.
- Can be left exposed to the elements for 42 days once laid.

EGGER D4 Adhesive being applied following the Rapid Deck Floor Laying System



# EGGER ADHESIVES

EGGER D4 Adhesive is used for bonding the board to the joist and within the tongue and groove joint as well as for sealing nail heads and adjacent areas.

Also available; EGGER D3 Adhesive for use in the tongue & groove of the board (i.e.: not for bonding the board to the joist).

## RECOMMENDED USAGE D3 ADHESIVE

For bonding the board within the tongue and groove joint:

Board Thickness	Boards per pack	Bottles per pack
18 mm	80	8
22 mm	64	6

## RECOMMENDED USAGE D4 ADHESIVE

For bonding the board to joist and within the tongue and groove joint:

Board Thickness	Boards per pack	Bottles per pack
18 mm	80	15
22 mm	64	12

## EGGER Adhesives - The benefits

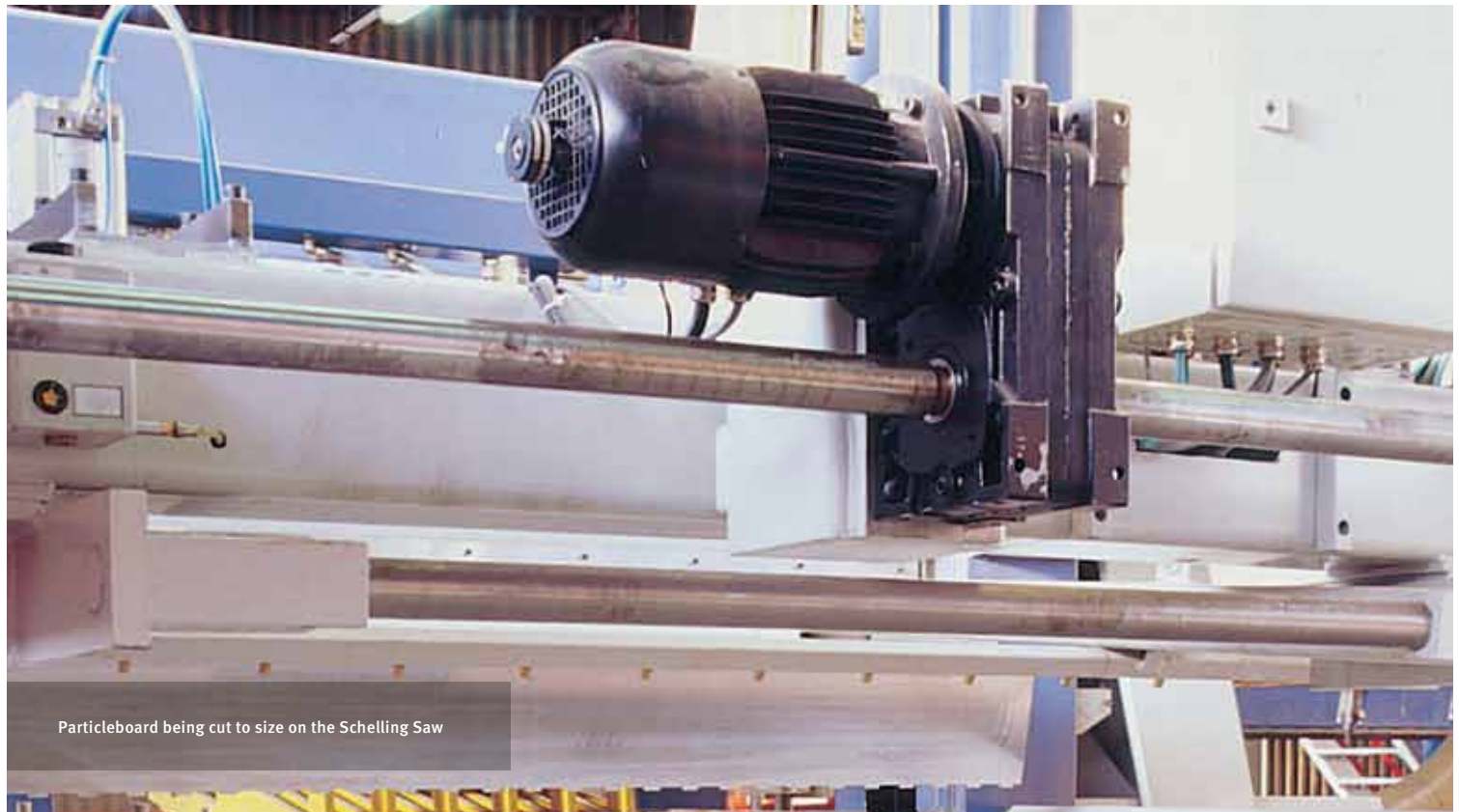


- EGGER D4 Adhesive can be used for bonding the board to the joist within the tongue & groove of the board.
- EGGER D3 Adhesive is used for bonding the board within the tongue and groove joint.
- EGGER D4 Adhesive has optimum viscosity for speed of delivery and minimum waste, saving you time and money with no need for costly applicators.
- It is packed in a handy 1 kg squeezy bottle for ease of use onsite.

EGGER Adhesives  
Left to right: EGGER D4 Adhesive setting on the board, EGGER D3 Adhesive & EGGER D4 Adhesive







Particleboard being cut to size on the Schelling Saw





## EUROSPAN® P5 & P6

EUROSPAN® P6 boards are ideal for heavy duty requirements whilst P5 is ideal for load bearing in humid environments.

EUROSPAN® is ideal for access flooring and packaging and can be provided in a number of sizes using our cut to size facility. Available in a variety of thicknesses ranging from 8 mm-38 mm and a variety of sizes, subject to availability and minimum order quantities.

EUROSPAN® particleboard is FSC certified and meets CE guidelines and is produced as a three-layer particleboard consisting of two fine surface layers and a homogeneous core layer. Manufactured in accordance with EN312:2003 in both P5 and P6 grades.

### CUT-TO-SIZE FACILITY

The state-of-the-art 'Schelling Saw' enables us to supply you with cut panels reducing wastage and saving you time and money. Ideal for assisting with the manufacture of access flooring, packaging and specialist construction elements.

The saw offers:

- Tolerances: +/- 1 mm per 1 metre length or +/- 2 mm per 1 metre square
- Maximum book height: 210 mm, minimum 20 mm
- Minimum board infeed: 1900 mm x 1000 mm
- Minimum board out: 300 mm x 100 mm

Subject to minimum order quantities and capacity.

### EGGER P5 & P6 - The benefits



- For ease of installation and removal for maintenance.
- Excellent strength properties.

EGGER EUROSPAN®



# EUROSTRAND® OSB

## EUROSTRAND® OSB 2

EUROSTRAND® OSB 2 is designed for use where a high performance board is required which provides dimensional stability and load bearing capabilities for use in dry conditions. Typical uses for EUROSTRAND® OSB 2 include boarding up, shelving, site hoarding, temporary works, garden sheds, crating, packaging, pallet tops and DIY projects.

## EUROSTRAND® OSB 3

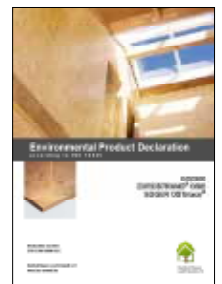
EUROSTRAND® OSB 3 is designed for use where a high performance board is required which provides not only dimensional stability and high load bearing properties but also the ability to perform in humid conditions. Moisture resistant resins with low emission are used in manufacture to allow for the board to be used for external applications. All EUROSTRAND® OSB 3 is supplied pre conditioned with a minimum moisture content of 5 % which reduces the dimensional movement offering better overall dimensional stability in use.

These qualities make EUROSTRAND® OSB 3 the ideal choice for timber frame and general house-building applications. EUROSTRAND® OSB 3 has been independently certified by the BBA (No.08/4546) as a load bearing oriented strand board for use in humid conditions, for use as a floor, roof decking, sarking and sheathings on timber frame buildings.

## EUROSTRAND® OSB 4 TOP

EUROSTRAND® OSB 4 TOP is manufactured using a formaldehyde-free PU (polyurethane) binder, especially developed for the more stringent technical and ecological requirements of the timber frame market. OSB 4 TOP is classified as a heavy load bearing board (OSB/4 EN300:2006) and has a light closed surface, high dimensional stability and low thickness swelling. Suitable for a variety of applications EUROSTRAND® OSB 4 TOP is ideal for engineered timber construction, industrial pre-fab house-building, cassette systems, heavy load bearing walls, roofs and ceilings, shelving elements and as a load bearing board for bulk export packaging. OSB 4 TOP is available in a thickness range from 12-40 mm in either a sanded or unsanded finish. Subject to minimum order quantities and availability.

An environment product declaration (EPD) meeting the ISO 14025 standard and covering a product life cycle assessment for OSB according to ISO 14040 is available upon request or can be downloaded at [www.egger.com/environment](http://www.egger.com/environment).



## PHYSICAL PROPERTIES TABLE – EUROSTRAND® OSB

Properties	Test method	Unit	OSB 2 <sup>(1)</sup>			OSB 3 <sup>(1)</sup>			OSB 4 TOP <sup>(2)</sup>				
Thickness	EN323	mm	6-10	>10->18	18-25	6-10	>10->18	18-25	8-10	>10->18	18-25	>25->32	>32->40
Internal bond	EN319	N/mm²	>0.34	>0.32	>0.30	>0.34	>0.32	>0.30	>0.50	>0.45	>0.40	>0.35	>0.30
Internal bond (after boiling test)	EN321	N/mm²	N/A			>0.18	>0.15	>0.13	>0.17	>0.16	>0.13	>0.10	>0.08
Bending strength major axis	EN310	N/mm²	>22	>20	>18	>22	>20	>18	>36	>33	>31	>29	>25
Bending strength minor axis	EN310	N/mm²	>11	>10	>9	>11	>10	>9	>23	>20	>18	>16	>15
Modulus of elasticity major axis	EN310	N/mm²	>3500			>4500			>5600	>5300	>5200	>5000	>4800
Modulus of elasticity minor axis	EN310	N/mm²	>1400			>1800			>2700	>2500	>2300	>2100	>1900
24hr thickness swelling	EN310	%	<20			<15			<12	<10			
Thermal conductivity	EN13986	W/mK	0.13										
Fire Behaviour	EN13986		≥ 9 mm: D-s₂ d0										

(1) OSB according to EN300:1997. (2) OSB 4 TOP according to German approval Z-9.1 566  
For more detailed information on EUROSTRAND® OSB please visit [www.egger.co.uk/OSB](http://www.egger.co.uk/OSB) or request a brochure from our samples hotline 01434 613304.

EUROSTRAND® OSB



## EGGER HDX

HDX is a range of heavy duty 38 mm particleboard tongue and grooved flooring panels specially developed for use in mezzanine flooring and storage platform applications. HDX is engineered and produced in the UK using carefully selected and prepared woodchips with our own formulated and manufactured resins.

All EGGER HDX boards meet the stringent demands of EN312:2003 and have been independently audited by WKI to meet CE guidelines. They are designed to assist the major suppliers in the industry meet their specialist needs. HDX is manufactured under stringent quality control throughout production utilising modern technological processes. This gives each HDX board a high degree of resistance to wear and tear, as well as excellent load transfer across the tongue and groove long edges.

The unique, specifically designed, tongue and groove rounded profile makes HDX a truly versatile board with added strength and the opportunity for wider spans enabling the process of floor laying to be quicker and more cost effective by reducing the amount of cutting and the hassle that this can sometimes create.

### HDX P5 (MOISTURE RESISTANT)

Manufactured in accordance with EN312-5:2003 HDX is the flooring solution for cold rooms and refrigerated warehousing, where high humidity exists or where there is a risk of a sudden increase in moisture, due to a generator breakdown or electrical failure, for example. HDX P5 offers exceptional resistance to moisture as it is produced using a melamine based resin making it ideally suited for installation during winter times or new installations in unheated buildings as it is resistant to high humidity and damp.

### HDX P6

Manufactured by EGGER for more than 20 years, HDX P6 has become the premium heavy duty particleboard specified by dedicated mezzanine flooring and pallet racking manufacturers throughout the UK. HDX P6 is the strongest and most durable heavy duty particleboard available thanks to continuous development and the testament of its inclusion in working floors and platforms throughout the UK.

Manufactured in accordance with EN312-6:2003 it is suitable for heavy duty load bearing floors in a dry environment, such as for decking and mezzanine floors, shelving and racking.

EGGER HDX Protect used underneath the blue proprietary finish for the Davis Cup  
Image courtesy of DOE Sport (left) EGGER HDX P5 (right)





### EGGER HDX CLASS 'O'

There are a number of ways to provide fire protection on the underside of mezzanine floors and pallet racking walkways. With increasing legislation regarding fire safety, specifiers need to be increasingly aware of the fire resistance of the board they are specifying. A Class 'O' foil applied to the underside of HDX is an option which can provide valuable extra time for installations to be evacuated in the event of a fire breaking out. HDX Class 'O' can be applied to all HDX products. HDX Class 'O' has been independently tested and certified by Warrington Fire Research. All Class 'O' boards comply with BS 476: Part 7: 1997 and BS 476: Part 6: 1989.

### EGGER HDX PROTECT

Manufactured using HDX coreboard and faced with a durable colour matched decorative paper. It is easy to clean and maintain and the finish provides extra abrasion and wear resistance. Protects from slipping during wet and dry conditions supporting site safety and is available as a stock item in HDX P6 and by special order in HDX P5.

### EGGER REFLECT

Light reflection under mezzanine flooring and pallet racking supported walkways is desirable particularly where suspended ceilings are not present.

A white semi-matt melamine finish to one side can be specified (the other side being raw unless otherwise specified), which in combination with fluorescent lighting, provides excellent light reflection and unlike some proprietary finishes and foils, is easy to clean and maintain, helping you to provide the very best impression upon hand over.

Subject to volume, HDX Reflect can be specified in combination with HDX Protect P6 or P5 enabling you to offer the best all round heavy duty flooring solution and meet the ever increasing market demands of both customers, and Health & Safety requirements.

#### EGGER HDX - The benefits



- Unique rounded profile provides easier and quicker fitting.
- Stronger joints than square profile.
- The opportunity for wider load spans.

EGGER HDX

Left to right: EGGER HDX Class 'O', EGGER HDX Reflect, EGGER HDX Protect

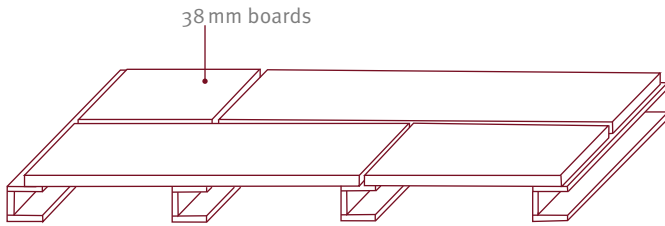


# DESIGN CONSIDERATIONS FOR HDX BOARDS

## LAYING HDX BOARDS

The perimeter of the floor should be fastened to continuous supports. Short (600 mm) edges must always be located over a joist to maintain continuity of load bearing capacity

HDX should be laid with the longest edges at right angles to the joists. Short ends are staggered by approximately half a board in a 'brick bond' fashion. Laying will start with a single row of panels parallel to the longest wall. The second row should start with a half panel ensuring the 'brick bond' pattern



## CONCENTRATED LOADS

Adequate provision should be made for static and dynamic effects of concentrated loads (eg. wheel loads of powered trucks and racking systems). Spreader plates should be provided as necessary to transfer permanent loads to the supporting structure (eg. storage tanks, stanchions and guard rail posts).

For storage platforms, 38 mm HDX is suitable for 1 tonne pallet trucks at maximum 700 mm joist centres, and for 1.5 tonne pallet trucks at maximum 525 mm joist centres.

## Concentrated/Point Load

This is the load applied over a defined area or point ie:  
 $50 \text{ mm} \times 50 \text{ mm} = 1 \text{ kN}$

## UDL

Uniformed Distributed Load this is the load distributed uniformly over an area i.e.:  $33.3 \text{ kN/m}^2$

## DESIGN NOTES

As with all composite materials, particleboard, being a mix of wood fibres bonded with resin, is liable to creep under pressure from sustained applied loading. It is essential therefore in its use to differentiate between applications which will effect long, medium or short term loadings and to design and detail your specification accordingly.

Annex K of BS5268-2:2002 dictates the method of assessment of deflection under the various loading periods, and defines the limit of such deflections. Accordingly the loadings in the tables are limited by deflections of the board to  $\text{span}/200$  under long term dead plus live loading.

EGGER HDX finished floor



## FIXINGS

Fastenings to metal frame support flanges should be made (which should not be less than 25 mm from sheet edges) using approved fixings (subject to top width of supporting purlins/beams).

The perimeter of the floor should be fastened to continuous supports. For raised storage platforms and other structures where medium or long term loading will apply, we recommend a staggered lap, multi-span arrangement. Short (600 mm) edges must always be located over a joist to maintain continuity of load bearing capacity.

Floor fixings serve a number of roles, they are required to secure and stabilise the supporting thin gauge steel members and to hold the board down when a heavy rolling load moves from span to span.

A positive, reliable fixing into steel and an adequate coverage of fixings is imperative. It is essential for a sound fixing that all handrail standard base plates are fixed either through the flange of a supporting steel section or are provided with a washer plate.

## EXPANSION GAPS

There must be a minimum gap provided of 10 mm between the HDX panel and the perimeter, where panels abut a solid wall/object. Where expansion gaps are provided all edges of the board should be supported.

## PHYSICAL CHARACTERISTICS

### Surface spread of flame

EGGER HDX has a reaction to fire Euroclass D<sub>FL</sub>-s1 rating. Enhanced values can be achieved by applying proprietary finishes. (Please refer to HDX Class 'O' on page 25).

### Insect attack

Although it is not impossible it is unlikely that HDX would be affected by wood boring insects.

### Fungal

HDX is not intended for use where wetting is likely to occur and therefore attack by wood destroying fungi remains unlikely. Humid conditions are characterised by a moisture content of the material corresponding to a temperature of 20 °C and a relative humidity of the surrounding air exceeding 85 % only. HDX is best suited for use in areas where the moisture content is unlikely to exceed 18 % for prolonged periods.

### Water

HDX is a hygroscopic product and must not have excess water applied. A damp mop/cloth should be sufficient and may be used. Any spillage must be dried as soon as possible to prevent water ingress. Due to the fact that mezzanine floor profiles are not glued the use of excess water and jet/pressure washers is not recommended.

## GENERAL MAINTENANCE AND CLEANING

For all HDX products a stiff brush/broom and damp mop/cloth should be sufficient to clean the product and may be used. For more 'stubborn' stains a mild detergent is recommended. HDX Protect has a durable paper impregnated with thermosetting resin facing which negates the requirement for proprietary finishes at installation. Discolour may occur due to general warehouse wear and tear.

The use of water based paints/solvents are not recommended, but epoxy based paints and resins may be used to seal floors if required.

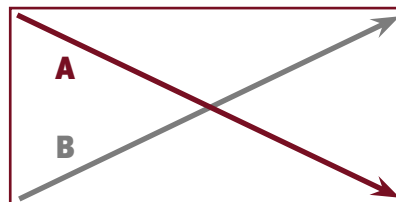
A colour match paint for HDX Protect is called 'EGGER Grey' and is available from Cromadex on T +44 121 555 1500. Alternatively a two part epoxy resin grout and hardener for EGGER HDX Protect flooring is also available, please contact Simmons (moulding) Ltd on T+44 1247 663 7028.

## STORAGE

EGGER HDX should be stored in a dry enclosed building, off the ground, preferably on at least 3 equidistant bearers to allow air to circulate.

## MANUFACTURING TOLERANCES

Length tolerance	+/- 3 mm
Thickness tolerance	+/- 0.2 mm
Width tolerance	+/- 1 mm
Diagonal tolerance (Ex-factory)	+/- 3 mm



Procedure for measuring diagonal values.  
A-B = Diagonal Tolerance Value

# DESIGN CONSIDERATIONS FOR HDX BOARDS

## DIMENSIONS & STOCK AVAILABLE

Stock product type	Thickness	Standard dimensions	Boards per pack	Pack weight
HDX P5	38 mm	2100 × 600 mm	38	1.1 tonnes
HDX P5	38 mm	2400 × 600 mm	38	1.3 tonnes
HDX P6	38 mm	2100 × 600 mm	38	1.2 tonnes
HDX P6	38 mm	2400 × 600 mm	38	1.4 tonnes

All HDX board is 38 mm thick and supplied tongue and grooved along 2 long edges. 38 boards per pack.

Other board finishes and sizes are available on request subject to special order quantity and

## PHYSICAL PROPERTIES TABLE – HDX

Properties	Method	Unit	38 mm HDX P5 mean	L5 % or U5 %	Requirement	38 mm HDX P6 mean	L5 % or U5 %	Requirement
Bending Strength	EN310	N/mm <sup>2</sup>	14.2	12.3	>10.0	15.8	14.5	>14.0
Modulus of Elasticity	EN310	N/mm <sup>2</sup>	2330	2130	>1700	2770	2530	>2200
Density	EN323	kg/m <sup>3</sup>	592			638		
Internal bond	EN319	N/mm <sup>2</sup>	0.43	0.39	>0.30	0.45	0.35	>0.30
Thickness swelling	EN317	%	6.2	8.2	<9.0	8.9	12.9	<13.0
Internal bond after cyclic	EN321	N/mm <sup>2</sup>	0.22	0.16	>0.15			
Cyclic thickness swelling	EN321	%	8.5	8.9	<9.0			

Tested in accordance with EN312-5/6:2003 calculated in accordance with EN326-1 All results verified by WKI Quality Assessment dated 29.05.09

## SAFE LONG TERM POINT LOADINGS (KN)

Span [mm]	400	525	600	700	800
P6 HDX SC1	5.1	4.9	4.7	4.0	4.0
P5 HDX SC1	4.8	4.2	4.1	4.0	3.4
P5 HDX SC2	3.2	2.8	2.7	2.7	2.2

SC1 - Service Class 1, for use in dry conditions,  
SC2 - Service Class 2, for use in humid conditions

## SAFE LONG TERM POINT LOADINGS (KG)

Span [mm]	400	525	600	700	800
P6 HDX SC1	510	490	470	400	400
P5 HDX SC1	480	420	410	400	340
P5 HDX SC2	320	280	270	270	220

## SAFE LONG TERM UDL'S (KN/M<sup>2</sup>) LIMITED BY DEFLECTION OF SPAN/200

Span [mm]	400	525	600	700	800
P6 HDX SC1	51.5	26.4	17.7	11.1	7.5
P5 HDX SC1	41.5	21.2	14.2	9.0	6.0
P5 HDX SC2	31.1	15.9	10.7	6.7	4.5

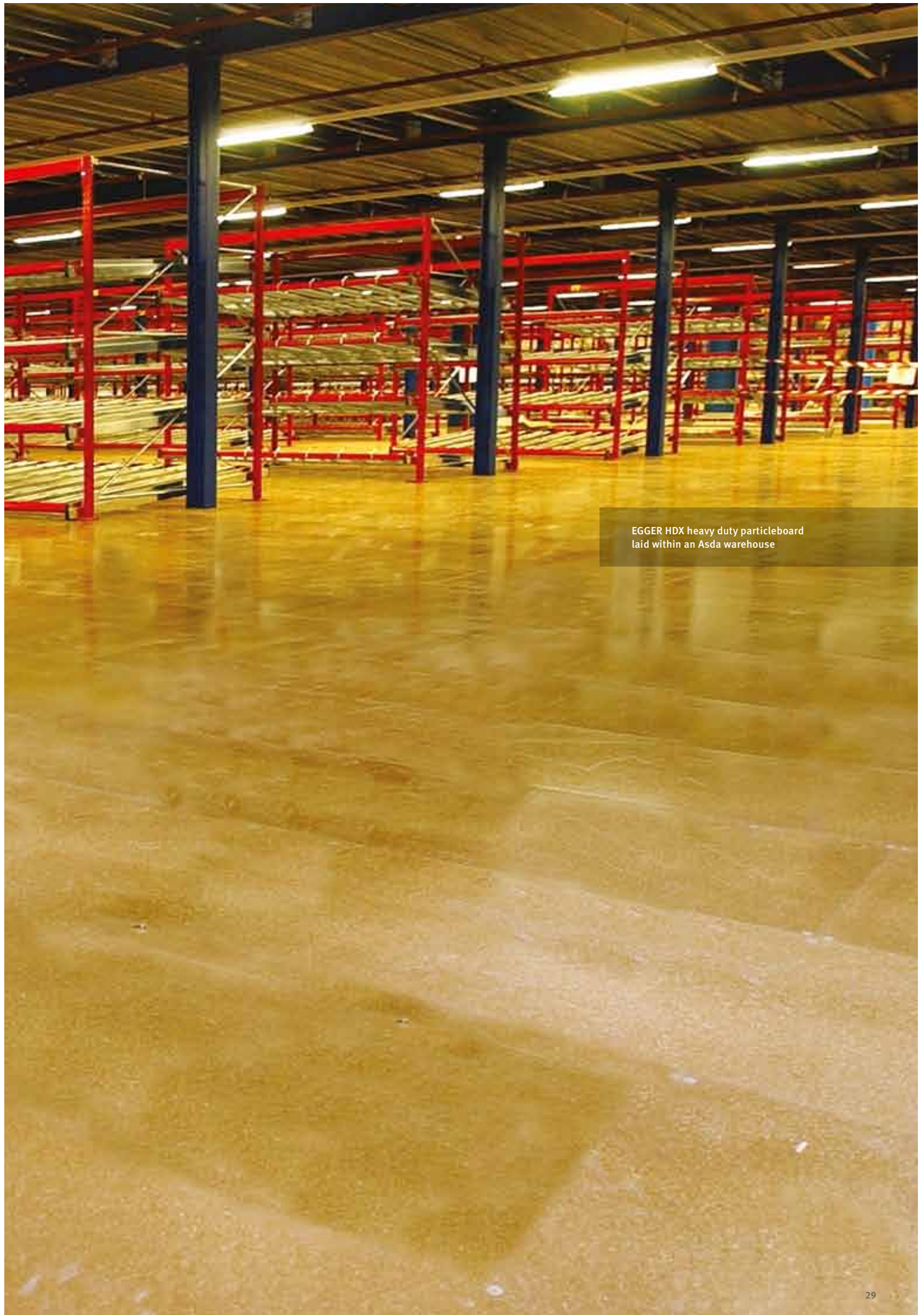
## SAFE LONG TERM UDL'S (KG/M<sup>2</sup>) LIMITED BY DEFLECTION OF SPAN/200

Span [mm]	400	525	600	700	800
P6 HDX SC1	5150	2640	1770	1110	750
P5 HDX SC1	4150	2120	1420	900	600
P5 HDX SC2	3110	1590	1070	670	450

Load tables have been revised utilising test data from Bath University completed in May 2009, and the latest modification factors for Long Term Loadings from Eurocode 5 and this supersedes all previous data.

Note: All point loadings based on a 50 × 50 mm concentrated load. Greater point loads may be achievable with profiles glued with EGGER D3 Adhesive





EGGER HDX heavy duty particleboard  
laid within an Asda warehouse

Office fire door using EUROSPAN® FD30 as the core and EGGER Laminate as the facing.



## EUROSPAN® FD30 FIRE DOOR CORES

The EGGER range of EUROSPAN® Type P2 Fire Door Cores are highly engineered, 44 mm particleboards. Manufactured from a selected wood chip mix, bonded with UF resin, the EUROSPAN® door cores form an integral component in a doors' front line fire protection.

EGGER P2 EUROSPAN® particleboard is manufactured to EN 312-2:2003 and is FSC certified through HOLZCERT Austria HCA-COC-100017.

### PERFORMANCE

EUROSPAN® Fire Doors are designed to provide a minimum of 30 minutes fire resistance. Tested by Chiltern International EUROSPAN® FD30 doors have exceeded the minimum requirements set out in BS476 Part 20/22: 1987 and have been certified within the BM Trada scheme for Q-Mark Fire Doors. Global assessment CHILT/A09077REFA, September 2009.

### THE RANGE

EUROSPAN® Fire Door Cores are 44 mm thick and are available in the following sizes:

2060 × 840 mm	2135 × 915 mm
2440 × 915 mm	2440 × 1220 mm
2800 × 915 mm	2800 × 1830 mm

### TO SPECIAL ORDER

For anything outside of the stock programme please ask for minimum order requirements.

Multiple and single glazed apertures are covered by the assessment to a maximum area of 1.29 m<sup>2</sup>. A transomed overpanel can be fitted to a doorset to a maximum size of 2000 mm (single) and 1500 mm (double).

### FINISHES

Ideal as a door core for laminating and veneering. EGGER's range of door size laminate (in thickness 0.8 mm, 2150 × 950, 2150 × 1020, 2350 × 950, 2800 × 1300 mm) are an ideal solution for fabricating to EUROSPAN® FD30.

EGGER EUROSPAN® FD30 Fire Door Cores  
Particle board designed to withstand the intense heat

#### EUROSPAN® FD30 Fire Door Cores - The benefits

- Excellent screw holding properties
- Surface finish allows good adhesion if required.
- 30 minute fire protection.



Certificate Number 364



## EUROSPAN® FD30 PHYSICAL PROPERTIES

Physical Properties					
Type	Particleboard specially developed as a high performance door core. Conforms to BS EN 312-2 (Type P2)				
Fire test reports	RF09015	RF09039	RF09101		
Surface spread of flame	BS476 Class 3				
Composition	100 % Softwood (Spruce, Pine, Larch, sawmills residues, recycled wood fibre)				
Moisture content ex factory	6-8 %				
Emission classification	Complies with BS EN 120 Class E1 (below 8 mg/100 g)				
Fire behaviour category	EN 13986	D - s2, d0			
Water vapour diffusion resistance value	Mean density 540 kg/m³		μ moist 15	μ dry 50	
Thermal conductivity EN 12524	Mean density 540 kg/m³		0.105 W/(m·K)		
Air sound insulation EN 13986	EN 13986	R =13 ×lg(mA) + 14    mA = board surface weight kg/m ²			
Sound absorption EN 13986	Frequency range:	250 Hz bis 500 Hz	0.10	1000 Hz bis 2000 Hz	0.25
Biological durability EN 13986	EN 335-3	Hazard category 1 (no earth contact; dry 20 °C/65 % relative humidity)			
PCP content EN 13986	EN 13986	<5 [ppm]			
Fire Rated	44 mm FD30				
Door Frames	MDF 750 kg/m³	Softwood 510 kg/m³		Hardwood 510 kg/m³	
Lipping Glue Lines	PU/UF/PVA				
Lipping Glue Lines	Lippings 8 mm				
Glazing Areas	1.29 m²				
Features	Average Density kg/m³	540 ± 10			
	Average Weight kg/m²	23.8 kg/m²			
	Acoustic Performance	See SRL Technical Report C/09/5L/20824/R01 October 2009			
	Mechanical (Duty Grade)	awaiting test report			

Note: Fire resistant door cores have been tested to BS476 Part 20/22. Reference should be made to the appropriate Assessment or Test Report for installation details that must be adhered to for the doors to achieve the fire performance rating.



## EUROSPAN® FD30 PHYSICAL PROPERTIES

DOOR SET CONFIGURATIONS - FD30 is suitable (for the following door set configurations).

Configurations	
LSASD & ULSASD	Latched & unlatched single acting single doorset
DASD	Double acting single doorset
LSASD+OP+ULSASD+OP	Latched & unlatched single acting single doorset with overpanel
LSADD+ULSADD	Latched & unlatched single acting double doorset
LSADD+OP+ULSADD+OP	Latched & unlatched single acting double doorset with overpanel
DADD	Double acting double doorset

### INTUMESCENT MATERIALS

Application	Location	Manufacturer/Product
Edge seals	Fitted in the frame jambs or leaf edges	1. Lorient Polyproduct Ltd - type 617 2. Mann McGowan Fabrication Ltd - 100p 3. Pyroplex Rigid box seal
Hinges	Under hinge blades (doorsets over 2440)	1. Lorient Polyproducts Ltd - 1 mm MAP paper 2. Dufaylite Developments Ltd - 1 mm interdens 3. Intumescent seals Ltd - 1 mm Therm-A-Flex 4. Mann McGowan Ltd - 1 mm Pyrostrip
Lock / Latches	Under forend & keep (forends over 57 × 26)	1. Lorient Polyproducts Ltd - 1 mm MAP paper 2. Dufaylite Developments Ltd - 1 mm interdens 3. Intumescent seals Ltd - 1 mm Therm-A-Flex 4. Mann McGowan Ltd - 1 mm Pyrostrip
Flush bolts	Lining all sides of the mortices	1. Lorient Polyproducts Ltd - 1 mm MAP paper 2. Dufaylite Developments Ltd - 1 mm interdens 3. Intumescent seals Ltd - 1 mm Therm-A-Flex 4. Mann McGowan Ltd - 1 mm Pyrostrip
Cableways	Lining the base of the groove	1. Lorient Polyproducts Ltd - 1 mm MAP paper 2. Dufaylite Developments Ltd - 1 mm interdens 3. Intumescent seals Ltd - 1 mm Therm-A-Flex 4. Mann McGowan Ltd - 1 mm Pyrostrip
Top and bottom pivot points	Lining all sides of the mortice	1. Dufaylite Developments Ltd - Interdens 2. Lorient Polyproducts Ltd - MAP paper 3. Approved intumescent protection pack as supplied by hardware manufacturer

### TESTED HARDWARE

Element	Make / type	Size [mm]	Location
Hinges	Royde and Tucker H105 lift off types	101 × 32 (blade size)	Fitted as section 11.2
Closers	Dorma Door Controls TS68	220 × 54 (foot print size)	Fitted to exposed face of the leaf as per manufactures specification
Locks / Lathes	Henderson Hardware Tubular mortice latch	57 × 26 (forend size)	Fitted in leaf edge 1000 mm up from base of leaf
Floor Springs	Dorma Door Controls BTS80F	341 long × 78 wide × 60 deep	Fitted as per manufacturers specification
Top Pivots	Dorma Door Controls 8067	165 long × 25 wide	Fitted as per manufacturers specification

# EUROSPAN® FD30 PHYSICAL PROPERTIES

## ASSESSED GLAZING SYSTEMS

Glazing System	Manufacturer
Therm-A-Glaze 30	Intumescent Seals Ltd
Fireglaze 30	Sealmaster Ltd
Firestrip 30	Hodgsons Sealant Ltd
Pyroglaze 30	Mann McGowan Ltd
R8193	Pyroplex Ltd
System 36	Lorient Polyproducts Ltd
Flexible Figure 1	Lorient Polyproducts Ltd.

## ASSESSED GLASS PRODUCTS

Glass Type	Manufacturer
6 & 7 mm Pyroshield™	Pilkington Glass Ltd
6 mm Pyran	Schott Glass Ltd
6 mm Pyroguard™	CGI Ltd (limited to 0.90 m²)
7 mm Pyrobelite®	AGC Flat Glass Europe
7 mm Pyrodur™	Pilkington Glass Ltd
10 mm Pyrodur™ 30-201	Pilkington Glass Ltd
12 mm Pyrobelite®	AGC Flat Glass Europe
13 mm Pyrodur™ 60-20	Pilkington Glass Ltd
14 mm Swissflam Lite®	Vetrotech Saint-Gobain Ltd
15 mm Pyrostop™ 30-10	Pilkington Glass Ltd

## EGGER EUROSPAN® 44 mm FD30 FIRE DOOR CORES - ACOUSTIC TEST

dB Rw (C;Ctr)	Glazed/Flush	Seal Specification
34 (-1;-2)	15 mm ESG glazing system 36/15	LP1504DS, IS1212k, IS8010si
33 (-1;3)	10 mm Pyrodur glazing system 36/10	LP1504DS, IS8010si
33 (-1;-2)	11.4 mm Pyroguard glazing FFI glazing system	IS1212k, IS8010si
33 (-1;-2)	11.4 mm Pyroguard glazing FFI glazing system	LP1504DS, IS8010si
33 (-1;-2)	10 mm ESG glazing in glazing system 36/10	LP1504DS, IS8010si
33 (-1;-2)	7 mm Pyrodur glazing system 36/7	IS1212k, IS8010si
33 (-1;-2)	7 mm Pyrodur glazing system 36/7	LP1504DS, IS8010si
33 (0;-2)	15 mm ESG glazing system 36/15	IS1212k, IS8010si
32 (-1;-2)	15 mm Pyrostop glazing in glazing system 36/15	LP1504DS, IS8010si
32 (0;-1)	7 mm Pyrodur glazing system 36/7	IS1212k, IS8010si
31 (-1;-2)	Flush	LP1504DS, IS1212K, IS8010si
30 (-1;-2)	Flush	IS1212k, IS8010si
30 (-1;-2)	Flush	LP1504DS, IS8010si

EGGER EUROSPAN® FD30 - Fire door core





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