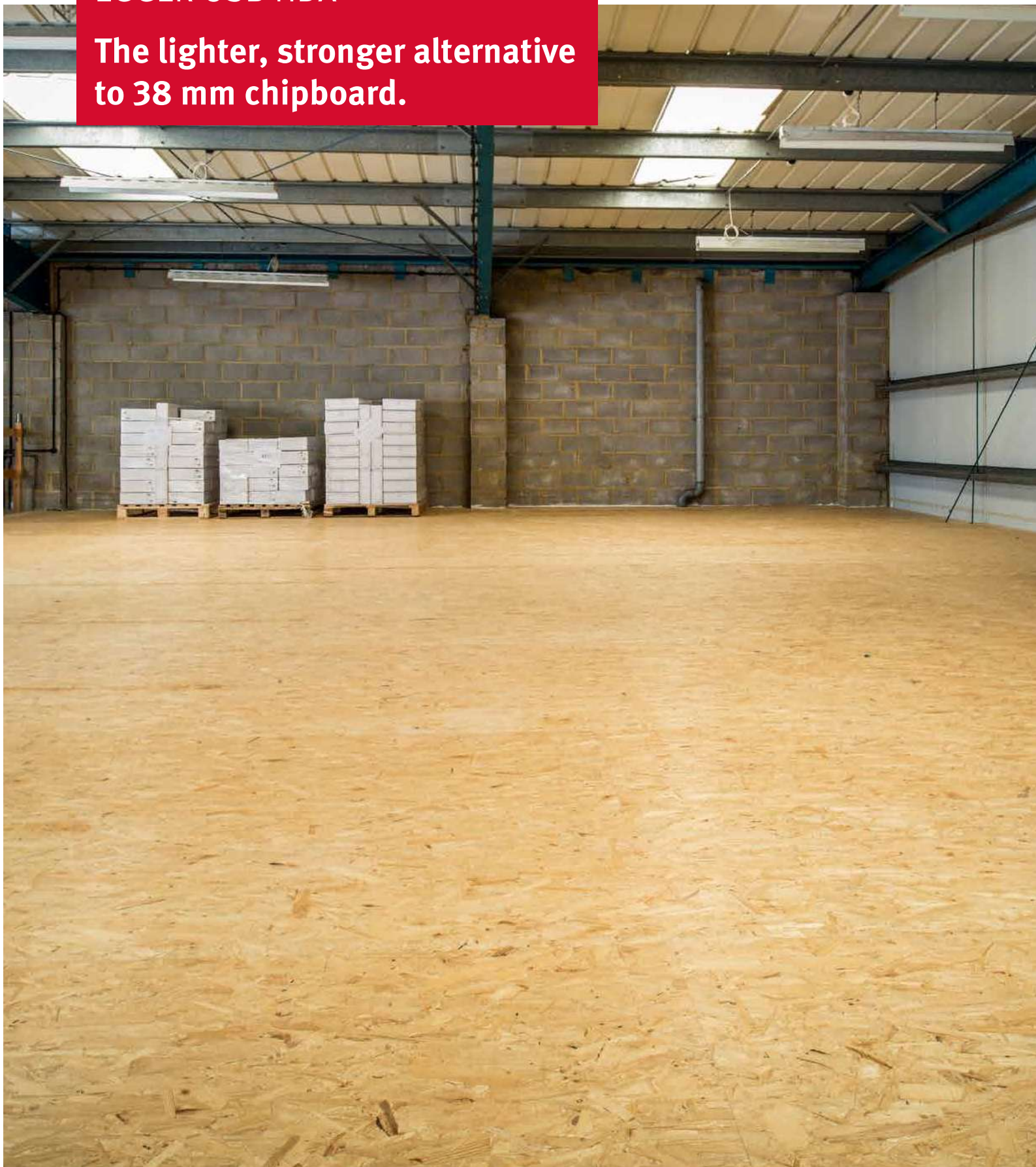


**MORE FROM WOOD.**



**EGGER OSB HDX**

**The lighter, stronger alternative  
to 38 mm chipboard.**





**What is it?**

EGGER OSB HDX is a 30 mm heavy duty, load bearing OSB4 panel.

**What environments is it suitable for?**

It is the ideal solution for heavy duty load bearing environments such as mezzanine flooring, r and decking, where 38 mm chipboard would typically be used.

Due to the low swelling properties of EGGER OSB HDX it is suitable for use in humid environments **pick up moisture** which can lead to uneven floors.

**Is it easy to lay?**

It has a tongue and groove profile on the 2 long edges and is laid the same way as 38 mm chipboard. 30 mm thick, EGGER OSB HDX is around **20% lighter**. That's despite being wider than the typical 600 mm opposed to the usual 600 mm)

A lighter board means that it is **easier to manoeuvre and quicker to lay**.

**Does a thinner board compromise its technical properties?**

On the contrary, 30 mm EGGER OSB HDX actually outperforms 38 mm chipboard for:

- Point loads
- Strength
- UDLS
- Stiffness

Therefore potentially floors could be designed to take **higher loads**, or use **fewer joists**, providing

The table below shows the differences between EGGER OSB HDX and P6 38 mm chipboard

| Properties                           | EGGER OSB HDX (30 mm)  | P6 38 mm Chipboard     |
|--------------------------------------|------------------------|------------------------|
| Bending strength                     | 25 N/mm <sup>2</sup>   | 15.8 N/mm <sup>2</sup> |
| Modulus of Elasticity (stiffness)    | 7000 N/mm <sup>2</sup> | 2770 N/mm <sup>2</sup> |
| Safe long term point load over 600mm | 5.4 kN                 | 4.7 kN                 |
| Safe long term point load over 800mm | 4.4 kN                 | 4.0 kN                 |

*...e of its superior structural properties over chipboard products available for  
...eeded to achieve a high point loading requirement for the project and the*

**the requirements in the table below:**

(DIBt)

| id | Unit                 | Requirement |
|----|----------------------|-------------|
|    |                      | 30mm        |
|    | (kg/m <sup>2</sup> ) | ≥600        |
|    | (N/mm <sup>2</sup> ) | ≥0.30       |
| A  | (N/mm <sup>2</sup> ) | ≥0.08       |
|    | (N/mm <sup>2</sup> ) | ≥29         |
|    | (N/mm <sup>2</sup> ) | ≥16         |
|    | (N/mm <sup>2</sup> ) | ≥5000       |
|    | (N/mm <sup>2</sup> ) | ≥2100       |
|    | (%)                  | ≤10         |
|    | (%)                  | 2-12        |
|    |                      | Grade 100   |
|    | (mg/100g)            | ≤2.0        |

the allowed values:



**Storage**

EGGER OSB HDX should be stored in a dry enclosed building, off the ground, preferably on airtight air to circulate.

**Loading information**

To design and detail your specification accordingly please note that Annex K of BS5268-2:2006 defines deflection under various loading periods and defines the limit of such deflections. According to BS5268-2:2006, the maximum deflection should be limited to span/200 and span/300 under long term dead plus live loading.

Manufactured in accordance with EN300-6:2006 EGGER OSB HDX it is suitable for heavy duty applications in a dry environment, such as for decking and mezzanine floors, shelving and racking.

Independent performance testing acc. to EN 12871 has confirmed best point load capability.

**Uniformly distributed load**

Based on testing acc. to EN 789 and EN 1058 specific characteristic values have been determined. Modifications factors detailed in Eurocode 5, EN 1995-1-1:2010. The values always consider a safety factor of 1.35.

**Safe Long Term UDL uniformly distributed load – double span (kN/m<sup>2</sup>)**

| OSB HDX          | CC span |         |        |
|------------------|---------|---------|--------|
|                  | 400 mm* | 480 mm* | 600 mm |
| Strength limit   | 47.5    | 33.0    | 21.0   |
| Deflection limit | L/200   | 53.0    | 27.8   |
|                  | L/300   | 35.5    | 18.0   |

\*Please note that values for cc-span 400mm and 480mm in safe long term UDL are based upon estimated calculations (acc. to B. Wissmannmann 2013).

**Concentrated loads**

Adequate provision should be made for static and dynamic effects of concentrated loads such as point loads. Spreader plates should also be provided if necessary to transfer permanent loads to the supports and guard rail posts.

**Safe long term point load (kN)**

| Service Class | CC span |         |        |
|---------------|---------|---------|--------|
|               | 400 mm* | 480 mm* | 800 mm |
| SC1           | 5.9     | 5.6     | 4.4    |
| SC2           | 4.8     | 4.5     | 3.5    |

Determined acc. to EN 12871/EN 1195.

\*Please note that values for cc-span 400mm and 480mm in safe long term point loads are based upon estimated calculations (acc. to B. Wissmann; Univ Hannover, 2013).

**Safe medium term**

| Service Class | CC     |        |
|---------------|--------|--------|
|               | 400 mm | 600 mm |
| SC1           | 8.0    | 6.0    |
| SC2           | 6.0    | 4.5    |

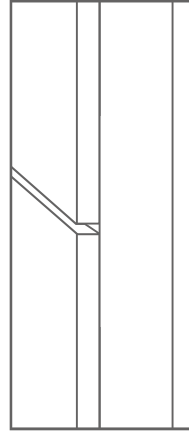
Determined acc. to EN 12871/EN 1195.

\*Please note that values for cc-span 400mm and 480mm in safe long term point loads are based upon estimated calculations (acc. to B. Wissmann; Univ Hannover, 2013).

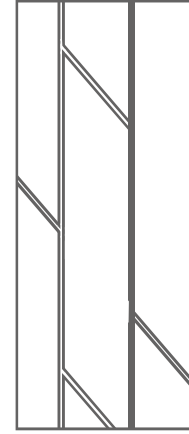
**Hand pallet trucks**



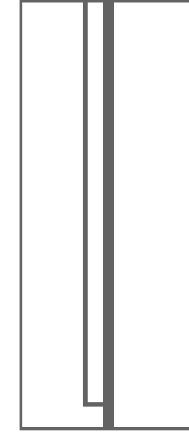
## Installation instructions



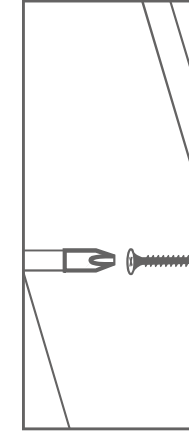
**1.** EGGER OSB HDX boards should be laid with staggered joints so all short end joints land on a joist. V. building authority guidelines.



**2.** Joints should always be staggered in a brickwork pattern and supported by a joist continuously.



**3.** An expansion gap of 10 mm or 2 mm per meter should be provided to the floor perimeter and against a wall. For spans in excess of 10 m long, intermediate movement joints should be provided and finished with a compressible filler or proprietary product.



**4.** Fastenings should be made not less than 25 mm from the edge and be securely fastened to each joist or noggin. For expansion joints, it would be advisable to use 50 mm, 12 gauge nails. For boards being fixed to timber joists it would be advisable to use at least 60 mm in length.

[www.egger.com/building](http://www.egger.com/building)



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