

Quality Management ISO 9001:2015

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## Technical Leaflet

Thickness Application Guideline  
for EGGER OSB and EGGER DHF



The following panel type and thickness application guideline applies to EGGER OSB , EGGER Roofing Board, EGGER Ergo Board and EGGER DHF. It is designed to guide the user on how to choose the right product type and the typical thickness range for building application or general purpose use, which is essential for avoiding product misuse and unfounded claims.

The data in this data sheet are common panel thicknesses in the respective areas of application and should be seen as a guide. They do not prevent you from carrying out a separate static design for each individual application and from adapting the panel type and thickness to the individual case.

### General information about panel use

#### EGGER OSB 2

EGGER OSB 2 boards are produced according to EN 300. They are suitable for load-bearing applications in dry conditions (service class 1 according to EN 1995-1-1).

#### EGGER OSB 3 (square edge and tongue & groove)

EGGER OSB 3 boards are produced according to EN 300. They are multi-purpose boards for numerous applications in dry and humid conditions (service class 1 and 2 according to EN 1995-1-1).

#### EGGER OSB 4 TOP (square edge and tongue & groove)

EGGER OSB 4 TOP boards are produced according to EN 300 with higher static and building physical properties (according to CE declaration of performance DOP-745-01). They are heavy-duty load-bearing boards for use in dry and humid conditions (service class 1 and 2 according to EN 1995-1-1).

#### EGGER Roofing Board

EGGER Roofing Boards are OSB 3 panels and produced according to EN 300. They are especially designed for the use as roof decking with a special profiling over the edges.

#### EGGER Ergo Board

EGGER Ergo Boards are OSB 3 panels and produced according to EN 300. They are especially designed for the use as internal wall sheathing.

#### EGGER DHF

EGGER DHF boards are produced according to EN 622-5. They are mainly used as sub-covering according to EN 14964 and party as supporting planking in rood and wall acc. to EN 13986.



## Applications by panel type & thickness for EGGER OSB and EGGER DHF

### General purpose

This is a list of common applications of EGGER construction products. No guarantee is given for completeness

Application (general purpose)	Panel type							
	EGGER OSB 2	EGGER OSB 3 s.e.	EGGER OSB 3 T&G	EGGER OSB 4 TOP s.e.	EGGER OSB 4 TOP T&G	EGGER Roofing Board	EGGER Ergo Board	EGGER DHF
Sofa's back panels	6-10 mm	6-10 mm	-	-	-	-	-	-
Handcraft	9-12 mm	6-12 mm	-	-	-	-	-	-
Dress-room separators	9-12 mm	9-12 mm	-	-	-	-	-	-
Shelves	12-18 mm	12-18 mm	-	-	-	-	-	-
Heavy-duty shelves	18-25 mm	18-25 mm	-	18-25	-	-	-	-
Site Hoarding	-	10-15 mm	-	-	-	-	-	-
Packaging	-	12-15 mm	-	-	-	-	-	-
Billboards	-	12-15 mm	-	-	-	-	-	-
Tool lockers	-	12-15 mm	-	-	-	-	-	-
Animal shelter and small barns	-	12-15 mm	-	-	-	-	-	-
Shock protection boxes	-	18-25 mm	-	18-25	-	-	-	-



### Structural purpose

This is a list of common applications of EGGER construction products. No guarantee is given for completeness

Application (structural purpose)	EGGER OSB 2	EGGER OSB 3 s.e.	EGGER OSB 3 T&G	EGGER OSB 4 TOP s.e.	EGGER OSB 4 TOP T&G	EGGER Roofing Board	EGGER Ergo Board	EGGER DHF
Partition wall sheathing	10-15 mm	10-12 mm	-	10-12 mm	-	-	-	-
Structural floors on joints	18-25 mm	18-25 mm	18-25 mm	15-30 mm	15-25 mm	-	-	-
Interior and exterior walls sheathing	-	12-25 mm	12-25 mm	12-22 mm	12-22 mm	-	-	-
Internal wall sheathing with enhanced pull-out strength for hanging cabinets	-	-	-	10-15 mm	-	-	12 mm	-
Exterior sheathing of vapour permeable external walls	-	-	-	-	-	-	-	15-20 mm
Concrete shuttering	-	18-25 mm	-	-	-	-	-	-
Double-layer floating dry screed	-	-	12-18 mm	-	-	-	-	-
Single-layer floating dry screed	-	-	18-25 mm	-	15-25 mm	-	-	-
Prefabricated large-span heavy-duty floor and roof elements	-	-	-	25-30 mm	25-30 mm	-	-	-
Under-rafters airtight sheathing	-	-	-	12-15 mm	-	-	-	-
Large rafter's span roof decking	-	-	-	-	18-22 mm	-	-	-
Roof decking	-	12-25 mm	18-25 mm	12-25 mm	18-25 mm	-	-	-
Pitch-roofs decking	-	-	-	-	-	12-18 mm	-	-
Rigid decking of vapour permeable pitched-roofs	-	-	-	-	-	-	-	15-20 mm



Remarks:

1. Despite that use of OSB 3 with thicknesses 9 / 10 / 11 mm as roof decking is quite frequent in some countries, they do not fulfil the static requirements of Eurocode 5 (EN 1995-1) for the common 600 – 800 mm center-to-center spacing of rafters.  
EGGER recommends for pitch-roofs decking the use of OSB 3, with a minimum panel thickness of 12 mm !
2. According to EN 335 (wood preservation), the external building elements not directly exposed to weathering (such as roof decking and external wall cladding) require the use of wood products from minimum service class 2 (eg. OSB 3 or OSB 4) or up. Consequently, the use of OSB 2 products in roofing application must be avoided!
3. Sanded EGGGER OSB and EGGGER OSB tongue and groove for decorative use in retrofitting furniture, or in walls sheathing, flooring or ceiling applications where OSB remains visible (finishing layer).

## General note

Failure to comply with any of the recommendations explicitly described in this guideline will exempt EGGGER from any liability or claim resulted from product damage or people injury.

Quality Characteristics / Technical Data of EGGGER OSB and EGGGER DHF products per type and thickness range are found in the corresponding Declaration of Performance available on [www.egger.com](http://www.egger.com).

Further information on choosing the right panel thickness for different applications, based on static design, are found in "Static Design Guideline for EGGGER OSB and EGGGER DHF" and in "Panel Selection Guideline for EGGGER Roofing Board"

## Additional documents

Declarations of Performance EGGGER OSB, Declaration of Performance EGGGER DHF, Static Design Guideline for EGGGER OSB and EGGGER DHF, Panel Selection Guideline for EGGGER Roofing Board

Provisional Listings:

This technical leaflet has been carefully drawn up to the best of our knowledge. It is intended for information only and does not constitute a guarantee in terms of product properties or its suitability for specific applications. It is based on practical experiences, our own tests and correspond to our present state of knowledge. We accept no liability for any mistakes, errors in standards, or printing errors. In addition, technical modifications may result from the continuous development of our products, as well as from changes to standards and public law documents. Therefore, the content of these processing instructions cannot serve as instructions for use nor as a legally binding basis.

