MORE FROM WOOD.

EGGER

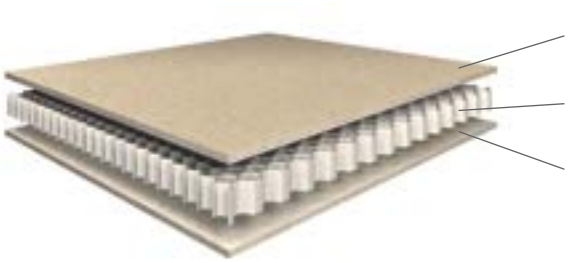
Eurolight® Lightweight Boards

Light and contemporary

Lightweight furniture: A trend with potential

Lightweight materials play an important role in furniture construction and offer advantages for fabricators as well as end users: Low weight, high strength, flexible application possibilities, maximum design freedom and economical use of the raw materials used are unbeatable arguments for the use of Eurolight Lightweight Boards.

Eurolight® Lightweight Board



The Eurolight Lightweight Board has all the characteristics of a modern wood-based material: light yet stable, resource-saving and therefore environmentally friendly.

Due to its sandwich construction, the board achieves high strength with little material.

Thanks to their flexural rigidity, thick tabletops or counters and cabinets with large sliding doors and extra-wide doors can be manufactured. With solid materials, applications in such dimensions would be difficult and cost-intensive to implement.

The low weight of the board also offers clear handling advantages in the area of trade fair construction or shopfitting. **The top layers** consist of 3 or 4 mm thin chipboard or 8 mm chipboard with a raw, sanded surface and are ideal for coating thanks to their regular, fine surface.

The middle layer is a cardboard honeycomb core made of 100 % recycled paper.

All our shown and mentioned decors are reproductions.

Product characteristics

Design freedom with ease

Eurolight Lightweight Boards allow maximum freedom of design for your sophisticated designs.

Thanks to its flexural rigidity, this resource-saving material can be used in many ways: From conventional lightweight construction to unusual designs, there are numerous options open to you.

For a coordinated look, the melamine-resin-coated Eurolight decor boards are available in matching decors and textures with Eurodekor, laminate and ABS edging matched to the respective decor.

If required, you can also cover the raw Eurolight Lightweight Board with laminate or veneer in your workshop.

Eurolight Lightweight Boards can be easily used for individual furniture parts or complete furniture. For wardrobes, for example, combine doors in lightweight construction with shelves made of conventional wood-based materials. In this way, you save costs through targeted use of materials without compromising on design.

Exposed cables are not only a safety risk, but also affect the look. Lighting, sockets, charging stations, speakers and even docking stations can be invisibly integrated into the cardboard honeycomb core.

Minimum weight with maximum stability

Thanks to their structure, Eurolight Lightweight Boards combine lightness with stability.

Manufacture wardrobes with extra-wide doors and large sliding doors without expensive special fittings. Tables with excess length are easier to work with in the workshop and easier to assemble on site.

For floating doors or long shelves that bend less than classic wood materials, Eurolight Lightweight Boards open up new perspectives and design possibilities.

At a thickness of 19 mm with 4 mm wood-based material top and bottom layers, the cardboard honeycomb core makes Eurolight 47 % lighter than conventional chipboard. At a thickness of 38 mm with 8 mm wood-based top layers the weight reduction is 51 %.This means that even larger elements can be handled without any problems. This is easy on the back and speeds up the production process.

Rising logistics costs and the growth of the mail order business mean that product weight is a decisive factor. With Eurolight Lightweight Boards, you can save on packing units and reduce shipping costs in the take-away furniture sector.

The general trend towards lighter materials should not be ignored: Functional sportswear, lightweight high-tech bicycle frames and light, slim laptops and monitors. The “heavy goods = good quality” approach is no longer accurate.

 © Christian Vorhofer

Example chest of drawers

Width: 1,050 mm
Height: 1,085 mm
Depth: 400 mm

Eurolight version
Eurolight decor, 19 mm with 4 mm wood-based material top layer on both sides, Back wall 8 mm Eurodekor melamine-resin-coated chipboard
Weight: 44.2 kg

Version with Eurodekor melamine-resin-coated chipboard
19 and 8 mm
Weight: 66 kg

Weight reduction: 33 %

Example room divider without back panel

Width: 1,820 mm
Height: 1,820 mm
Depth: 330 mm

Eurolight version
Eurolight decor, Partitions: 19 mm on both sides 4 mm wood-based material top layer, Frame: 38 mm on both sides 8 mm wood-based material top layer
Weight: 71.3 kg

Version with Eurodekor melamine-resin-coated chipboard
19 and 38 mm
Weight: 114.3 kg

Weight reduction: 38 %

Contemporary resource-saving

For us, wood is a working material and a recyclable material: We manufacture a wide range of products for furniture and interior design, flooring and wood construction from nature's renewable resources. True to our mission "More from wood", it is important for us to act sustainably, conserve resources and promote climate protection.

Innovations are needed to conserve the valuable raw material wood: The Eurolight Lightweight Board is one of them.

One cubic metre of wood can be used to produce 47 m² of chipboards in 19 mm or 87 m² of Eurolight boards in 19 mm with 4 mm top layer. At a thickness of 38 mm, this means 25 m² of chipboards or 51 m² of Eurolight boards with 8 mm top layer.

In addition to lower raw material consumption, the use of Eurolight Lightweight Boards also reduces logistics costs thanks to up to 35 % better use of transport capacities. Lower fuel consumption when transporting lightweight boards, elements and furniture also benefits the environment through reduced CO_2 emissions. This added value in turn has a positive effect on your company, because the topics of environment and sustainability are important to many end customers.

At the end of their product life, Eurolight Lightweight Boards can be recycled and reused as part of our production process.

Lightweight Boards thus make an active contribution to environmental protection and resource conservation in several ways.

Product Eurolight decor

–7.86 kg CO_2 / m²

82 % materials from renewable resources
18 % materials from fossil resources

10 % recycled material
42 % by-products from the sawing industry
48 % fresh resources

More information on our sustainability indicators at: www.egger.com/ecofacts

Carbon footprint*
Carbon footprint can be used to measure the size of the impact a product has on the climate. With coated Eurolight Lightweight Boards it is small, even below zero. Why? When growing, the wood has absorbed more CO2 than is emitted during transport and production processes.

Contribution to the bioeconomy**
Resources need different amounts of time to regenerate. Wood grows in a few decades, while fossil fuels need millions of years to form. Within this indicator, the product components are compared with: How much material was obtained from renewable raw materials and, how much from fossil fuels?

Contribution to the recycling economy**
In order to conserve natural resources, we need to make the best use of existing materials. This indicator shows how well this can be done in practice.

Full transparency from us and no paperwork for you
Save time and effort on publicly tendered or sustainably certified projects when it comes to submitting the right documents. Information on environmental and health aspects is already available – thanks to “fully declared” EGGER products.

Find out more at
www.egger.com/environment

* externally verified calculation according to EN 15804, see EPD

** unverified calculation according to own method, proportion by dry weight. The values are based on the average product structure and may vary slightly depending on the thickness and the chosen coating

Product variants

Eurolight® raw

Eurolight Lightweight Boards are composite boards made of wood-based material top layers enclosing a lightweight cardboard honeycomb core. Due to their low weight and high flexural rigidity, they offer many design and construction possibilities in furniture and interior design.

Gluing of honeycomb and top layer by means of PUR adhesive.

Available from stock

Design	Thicknesses	Cover layers	Size
uncoated	38, 50 mm	8 mm chipboard	2,800 × 2,070 mm

Variants for customised order-related production:

Sizes	Thicknesses	Cover layers *
5,610/2,800 × 2,070 mm	15, 16, 17, 18, 20, 22, 23, 25, 26, 28, 30, 34, 36, 38, 40, 46, 48, 50, 70, 86 mm	3 mm thin chipboard
	17, 18, 19, 20, 22, 24, 25, 27, 28, 30, 32, 36, 38, 40, 42, 48, 50, 52, 72, 88 mm	4 mm thin chipboard
	25, 26, 27, 28, 30, 32, 33, 35, 36, 38, 40, 44, 46, 48, 50, 56, 58, 60, 80, 96 mm	8 mm chipboard

Honeycomb variants	
Standard	Hexagon honeycomb
Special honeycomb	Different honeycomb types available on request

* other thicknesses available on request

Eurolight® decor

The Eurolight decor melamine-resin-coated lightweight board is a decorative composite board consisting of decorative wood-based material top layers enclosing a lightweight cardboard honeycomb core.

The Eurolight decor is available in the decors of the EGGER collections.

Variants for customised order-related production:

Design	Thicknesses	Cover layers	Sizes
In decor match with the decors from the EGGER collections in single- or multi-layer construction	25, 26, 27, 28, 30, 32, 33, 35, 36, 38, 40, 44, 46, 48, 50, 56, 58, 60, 80, 96 mm	8 mm chipboard	5,610/2,800 × 2,070 mm
Decors on request	15, 16, 17, 18, 20, 22, 23, 25, 26, 28, 30, 34, 36, 38, 40, 46, 48, 50, 70, 86 mm	3 mm thin chipboard	
	17, 18, 19, 20, 22, 24, 25, 27, 28, 30, 32, 36, 38, 40, 42, 48, 50, 52, 72, 88 mm	4 mm thin chipboard	

Eurolight® cut with frame

» For Eurolight Lightweight Boards with top layers of up to 4 mm, we recommend pre-framed cuts that can be processed like classic wood-based materials and in which load-bearing fittings also find optimal support.

Different sized frames provide a variety of different solutions:

10 mm frames can be brought in as an underlay for attaching edging under 2 mm thick. For edging with edges from 2 mm thickness, no frame is required.

- Standard machine edging possible
- Homogeneous surface on the gable-end for optimum edging quality
- Higher impact resistance at the edging

38 mm frames are perfect for postforming, inserting grooves and attaching load bearing fittings.

- Can be directly profiled or postformed
- Installation of concealed fittings
- Increased screw strength
- Additional strength for large-area application

65 mm frames ensure that every possible type of fitting, including door fittings (handles, locks and door hinges), finds a secure hold.

- Standard fitting attachment for thin top layers
- Increased screw pull-out strength
- Additional strength for large-area application

Frame material: Eurospan raw chipboard, MDF boards on request

Right-angled elements	Length [mm]	Width [mm]	Thickness [mm]
2-sided frame	max. 5.610 min. 310	max. 1,500 min. 310	max. 100 min. 15
4-sided frame	max. 3,300 min. 310	max. 1,500 min. 310	max. 100 min. 15

Eurolight® cut with support edging

As an alternative to a 10 mm frame, support edging can be used.

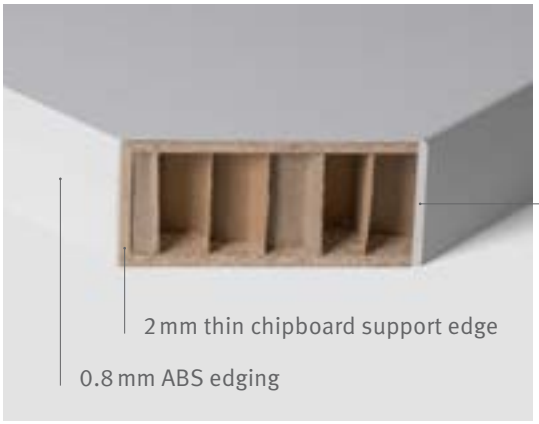
The 2 mm thin chipboard support edging serves as a technical edge for problem-free decorative edging, especially for thin top layers.

It forms a similarly stable edging base on the cutting edge as conventional wood-based materials, creates a homogeneous surface at the face for optimum edging quality and ensures smooth machine processing.

This detailed solution creates a significant difference in edge quality for thick boards in combination with thin face sheets and thus allows the use of lighter and by extension raw-material-saving base materials.

For lightweight boards, the support edging strengthens both surface layers at the edges.

- Beautiful, uniform edge surface even with thin edge thicknesses
- Higher impact resistance at the edging
- More cost-effective than using a frame



Right-angled elements	Length [mm]	Width [mm]	Thickness [mm]
2-sided support edging longitudinal	max. 2,800 min. 266	max. 1,300 min. 236	max. 60 min. 18
2-sided support edging transversal	max. 2,300 min. 266	max. 1,300 min. 236	max. 60 min. 18

Eurolight® furniture components

» Customised batch sizes, individual production of fronts, bodies or free-form parts and many years of experience for maximum time savings.

Eurolight edged, milled and drilled

Eurolight edged and drilled

Eurolight CNC machined

Milling, grooving, folding and edging

Right-angled elements	Length [mm]	Width [mm]	Thickness [mm]
Frameless lightweight boards	max. 2,800 min. 266	max. 1,300 min. 236	max. 60 min. 15
Lightweight boards with support edging (long side)	max. 2,800 min. 266	max. 1,300 min. 236	max. 60 min. 18
Lightweight boards with support edging (short side)	max. 2,300 min. 266	max. 1,300 min. 236	max. 60 min. 18
Lightweight board with frame	max. 3,000 min. 150*	max. 1,300 min. 65**	max. 60 min. 8

Grooves in the surfaces and all face sides, folds on all face sides are possible.
Edging materials: ABS, PP, PMMA in the thicknesses 0.3 to 3 mm; edging possible with PUR gluing or zero-joint technology1.
* smallest workpiece 150 × 150 or 65 × 300 mm
** at 65 - 75 mm width max. board thickness 25 mm

Drilling and dowelling

Right-angled elements	Drilling	Dowelling	Length [mm]	Width [mm]	Thickness [mm]
Frameless lightweight boards	×		max. 3,000 min. 250	max. 1,300 min. 120	max. 60 min. 15
Lightweight boards with frame	×	×	max. 3,000 min. 305	max. 1,300 min. 305	max. 60 min. 15

Dowelling possible on all gable end faces in grid 32.

CNC processing

Right-angled elements and free-form parts	Length [mm]	Width [mm]	Thickness [mm]
Lightweight boards	max. 5,600 min. 300	max. 1,675 min. 300	max. 60 min. 8

Milling, grooving, folding, drilling and edging via PUR or zero-joint technology[1]. Edging from 12 mm thickness. 12-16 mm only possible with R2 or with bevel

[1] due to patent legislation, only possible with additionally purchased edging material.

Eurolight® furniture components with Clic technology

» Thanks to the form-fitting and continuous tongue and groove connection, furniture components made of Eurolight Lightweight Boards can be joined at right angles without the use of screws, dowels or glue.

Furniture components with Clic technology are offered for a large number of body variants, taking into account the following framework conditions.

Therefore, the body parts can be assembled quickly and easily and dismantled again with little effort.

Your advantages with Clic technology in furniture construction:

- You free up space on your body press and can therefore work on other projects.
- The body is assembled on site (on the construction site). Specialists only need to be involved to a limited extent for installation. This creates resources for you to process other orders.
- If required, a quick dismantling of the unglued joint is possible (trade fair construction, events).
- No transport of pre-assembled, bulky body elements means less transport effort for you, which in turn has a positive effect on the CO_2 balance and saves costs.
- Through additional purchasing and rapid on-site assembly, you are faster and safer in time-critical projects.
- No visible connecting fittings in the furniture body for a visual upgrade of furniture without fronts such as shelves.

Right-angled elements	Length [mm]	Width [mm]	Thickness [mm]
Lightweight boards	max. 2,300 min. 266	max. 1,300 min. 236	max. 38 min. 16

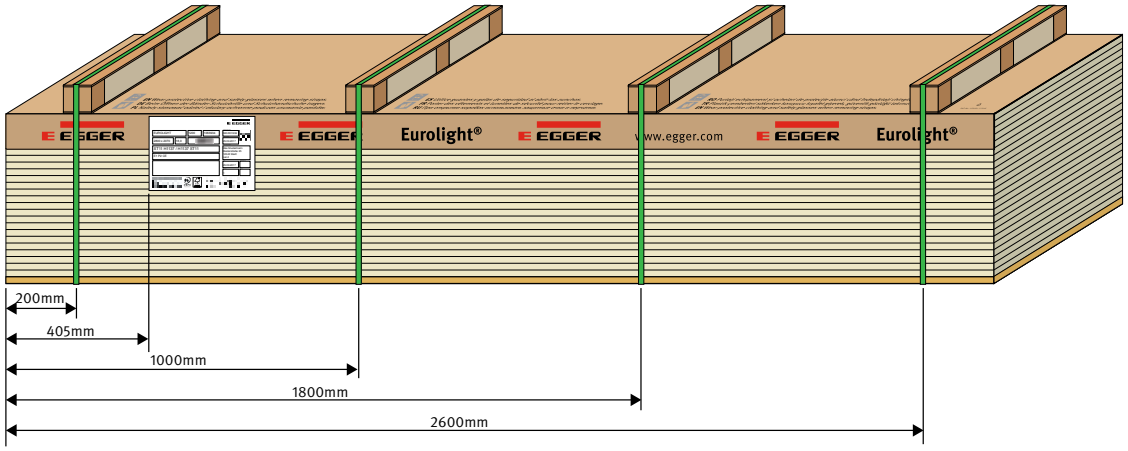
Transport- and storage instructions

» Due to the construction of Eurolight lightweight boards special features arise during transport, storage and packaging of this product, which must be taken into account.

Packaging

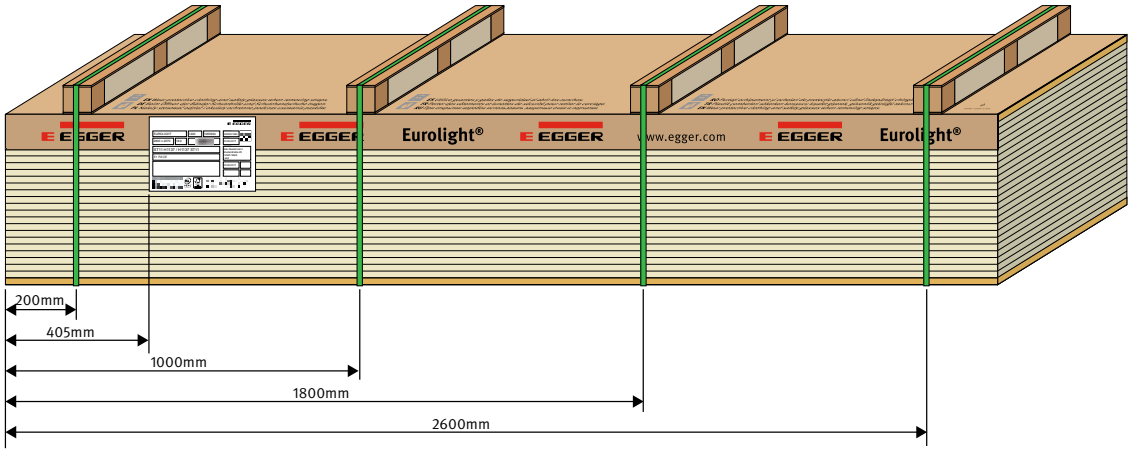
Packaging Eurolight raw boards

- **Pallet label:** production order number, material number, weight of package, number of boards.
- **4 Eurolight blocks:** 80 × 80 mm, see drawing for positioning. Tied with PET straps.
- **Package protection top:** cardboard
- **Package protection bottom:** protection board 16 to 22 mm



Packaging Eurolight Decor, melamine faced lightweight boards

- **Pallet label:** production order number, material number, weight of package, number of boards.
- **4 Eurolight blocks:** 80 × 80 mm, see drawing for positioning. Tied with PET straps.
- **Package protection top:** cardboard and additional protection board 16 to 22 mm
- **Package protection bottom:** protection board 16 to 22 mm



Transport

» When loading Eurolight lightweight boards, the lorry must be able to be loaded from the side and has sufficient securing straps for securing the boards.

When loading full packs we recommend placing 650 × 2070 mm additional protection boards on top of the packs to provide necessary support for strapping.

We also recommend the additional use of a metal corner protection bracket to help to protect the top board in the pack.

Additional intermediate binding supports safe transport as well as handling with loading and unloading. For mixed loads generally it is recommended to transport the emphasis of the load on the bottom. Depending on the loading situation it could be an advantage to load Eurolight on the bottom and chipboards or MDF packs on top, since the distribution of pressure is evenly and damage because of belts is prevented.

Delivery

Careful inspection of incoming goods is an essential part of order processing and is included in the EGGER Group's payment and delivery terms.

EGGER recommends that this inspection is carried out using statistical stock control methods.

Unloading and storage

A suitable unloading facility must be provided (e.g. fork lift truck). Unloading is to be accomplished with care. Ensure that the packs are placed down evenly or if necessary with the forks tilted forward slightly. This will prevent the top board of the pack below being crushed. Eurolight lightweight boards should be stored or processed in a closed storage/ workshop space with stable climate (T≥10°C at approx. 50-60% relative humidity). Do not use open-air storage, storage under lean-to roofs or wherever the product can be exposed to the weather. Storage and processing conditions should correspond to the climate of later use.

Block storage

Stacking should take place horizontal on a straight, flat and dry ground in a closed room. The distance between the pack piles should be at least 400 mm. 80 mm blocks ensure the packs to be easy to access. Blocks (4 for 2800 × 20700 mm and 8 for 5610 × 2070 mm) of the same height need to be placed below the bottom pack in line with those above.

Racing storage

Eurolight packs should not be stacked underneath other wood-based material packs.

Handling loose boards

Do not lift the board only on the top surface layer.

The entire board has to be lifted (both top layers).

Securing with PVC straps

Damage while using PVC straps without protection board.

Always secure with two PVC straps and ensure that 15 – 18 mm chipboard top and bottom protection boards are used for each pack.

Disposal of Eurolight® lightweight boards

Middle layer/cardboard honeycomb core

The 100 % chlorine-free recyclable cardboard honeycomb core has to be disposed of through cardboard recycling.

Top layers/wood-based materials

Disposal of top layers whether raw, melamine faced or coated, is possible via the usual channels for wood-based materials:

- Recycling
- Industrial thermal utilization
  Thermal utilization, if burned off well, causes only a low impact on the environment due to pollutant emissions (not suitable for thermal utilization in household fireplaces).

Applications engineering

» Innovative products are associated with questions in regards to processing. For this reason, we have compiled some processing instructions here.

Processing possibilities

Cutting to size

When producing-to-size Eurolight boards on horizontal cutting machines with pressure beam and feeders with chucks, the chuck pressure has to be reduced. Alternatively, blocks should be used to distribute pressure more evenly in the area of the chucks. The maximum compressive rigidity of Eurolight is 0.15 N/mm² (1.5 kg/cm²). Chips occasionally fall into the honeycomb core during cutting. These should be removed before edging the boards.

Drilling and milling

Eurolight can be drilled and milled like conventional wood-based panels.

In addition to this basic information, you will find detailed processing instructions and technical data sheets on our website at www.egger.com/eurolight.

Edging

The majority of Eurolight Lightweight Boards can be edged without an additional base. This means that boards with 3 and 4 mm top layers up to approx. 25 mm thickness can be edged directly. For boards with an 8 mm top layer, this is still possible with a board thickness of 50 mm. ABS edges with a thickness of 2 mm or more are suitable for edging without a base.

All conventional edging machines are suitable for edging. The contact pressure of the mould milling unit must be reduced from 2 kg/cm² to 1.5 kg/cm² for this purpose.

In order to meet the high demands of processing lightweight boards of any kind, especially frameless lightweight boards, the support edge Thin MDF HD was developed in a standard thickness of 2 mm.

It forms the basis for the problem-free application of decor edging and supports the outer layers of the lightweight boards against each other along the edge. In this way, smooth machine processing can also be guaranteed for frameless lightweight boards with top layers of less than 8 mm and a board thickness of more than 25 mm.

Cover

Eurolight raw is ideal as a coreboard for EGGER laminates and also for veneers.

Eurolight Lightweight Boards	Frameless	Framed
Veneering	Max. pressing temperature: 90 °C Max. pressing duration: 3 min Max. specific pressing pressure: 1.5 kg/cm²	Max. pressing temperature: 80 °C Max. pressing duration: 3 min Max. specific pressing pressure: 3-5 kg/cm²
Cover with laminate	Max. pressing temperature: 70 °C Max. pressing duration: 3 min Max. specific pressing pressure: 1.5 kg/cm²	Max. pressing temperature: 70 °C Max. pressing duration: 3 min Max. specific pressing pressure: 3-5 kg/cm²

Cut-to-size applications with frames

» Eurolight cuts with pre-set raw chipboard or MDF (two- or four-sided) in 10, 38 or 65 mm widths can be directly profiled, postformed or edged.

Eurolight with frame

Inserting frames and blocks along the edges of the board provides benefits:

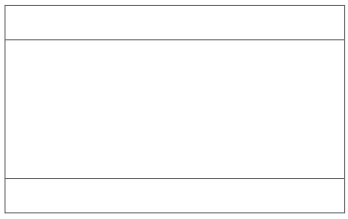
- additional screw strength
- improved flexural rigidity
- Use of concealed fittings such as shaped springs, dowels or connecting fittings

Installation of frames

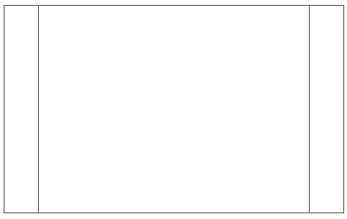
Depending on the application, wooden blocks or 2- or 4-sided frames can be inserted. We recommend milling out 1.5 mm of the 8 mm thick top layers on the 38 mm board to remove the honeycomb core and any glue residue from the top layers. This provides a smooth clean surface for gluing the frame in place and ensures that the frame fits securely against the 1.5 mm recess.

Suitable materials are wood based materials such as chipboard and MDF, or knot-free, dried solid wood.

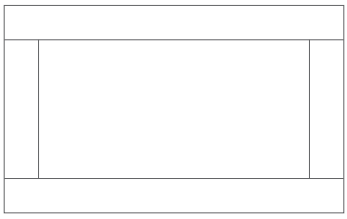
Possible structures with frames



Frame on 2 sides, lengthwise



Frame on 2 sides, crosswise



4-sided frames

Fittings when using 8 mm top layers

Internal fittings

Due to the 8 mm thick chipboard top layers, no special fittings are required. Conventional hinges, drawer runners and cabinet rails can be used.

To ensure the best screw holding possible, we recommend the use of Euroscrews, such as Häfele's Varianta screw or Hettich's direct fixing screw.

Fittings when using 4 mm top layers

» Simple, fast and robust, Würth's KALTSCHMELZ® technology connects the KALTSCHMELZ® dowels to the two top layers. The dowels melted in this way are now used to screw in chipboard screws, Euroscrews or eccentric connectors and system bolts.

The drill hole is created with a special drill that can be adjusted to the respective board thickness. After inserting the dowel, the KALTSCHMELZ® device is used. The KALTSCHMELZ® dowels are set in motion by the impact and melt at the points of contact with the wood due to the resulting frictional heat and bond with the porous structure of the wood material.

The reliable and highly stable connection is created in just a few seconds. You can immediately attach handles, pot hinges, corner joints, cross boards, etc.

If you have any questions, please contact your Würth sales representative or the technical application department:
Daniel.Beck@wuerth.com

In addition to the KALTSCHMELZ® device, Würth also offers a perfectly coordinated range of products for connecting the Eurolight Lightweight Boards.

In addition to Würth's KALTSCHMELZ® technology, all standard hardware fasteners can be used for 8 mm top layers.

Special drill and countersink for KALTSCHMELZ® dowels

KALTSCHMELZ® dowel screw fixing

KALTSCHMELZ® dowel eccentric

Screw pull-out values:

- Eurospan E1 P2 CE 800-900 N
- KALTSCHMELZ® dowel 650-700 N (EGGER Eurolight, 4 mm top layer)

The Würth KALTSCHMELZ® technology is based on the proprietary WoodWelding® technology and is licensed from WW WoodWelding GmbH, Switzerland.

Virtually unlimited possibilities

» With professional processing, the interior applications for Eurolight are virtually unlimited. The following applications for the private and public sectors show how versatile this innovative material can be in use.

Kitchen / dining room

- Counters
- Tables
- Flanks
- Studs
- Framing

Living room

- Tables
- Sideboards / chests of drawers
- Room dividers / partition walls
- Pegboard / wall shelf

Bedroom, children's and young person's room

- Bedside tables
- Headboard
- Chests of drawers
- Pegboard/wall shelf
- Framing
- Partition


© Wylde Interior Architecture Ltd.

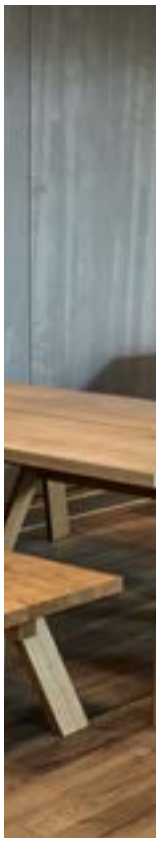
Bathroom furniture

All our shown and mentioned decors are reproductions.

Sliding / interior doors

Office and gastronomy

- Partition
- Shelving
- Tables
- Counters
- Frames



 All our shown and mentioned decors are reproductions.

© Christian Vorhofer

Trade fair construction and shopfitting

- Trade fair stand walls
- Shelving
- Partition
- Tables
- Counters

Virtually unlimited possibilities

Take-away furniture for self-assembly (flat-pack furniture)

Eurolight® lightweight block – easy and safe stacking.

More information on Eurolight lightweight blocks at:
www.egger.com/lightweightblocks

Technical data

Mechanical properties			Unit	Values**						
Board thickness			[mm]	19	25		38		50	
Outer layer thickness			[mm]	4	3	4	4	8	4	8
Density*			[kg/m³]	346	214	270	184	325	146	238
Weight / board (2,800 × 2,070 mm)			[kg] approx.	38	39		72		69	
Pack weight			[to]	1.0	0.8		0.9		0.9	
Boards per package			[pcs.]	25	19		12		12	
Internal bond	Top layer to honeycomb	EN 319	[N/mm²]	≥ 0.15	≥ 0.15	≥ 0.15	≥ 0.15	≥ 0.10	≥ 0.15	≥ 0.10
	Top layer to frame 10 mm			≥ 0.8						
	Top layer to frame 38 mm			≥ 0.8						
	Top layer to frame 65 mm			≥ 0.3						
Screw pull-out	3 mm with 38 mm frame	EN 320	[N]	› 580	› 580	› 580	› 580	› 570	› 580	› 570
	4 mm with 38 mm frame									
	8 mm without frame									
Deflection	Test load: 150 kg/m²	DIN 68874-1	[mm]	-	≤ 14.0	≤ 12.0	≤ 9.0	≤ 4.0	≤ 3.0	≤ 3.0
	Axis distance: 1,000 mm									
	Test period: 28 days									
	Without frame / without edging									
Compression strength			[kg/cm²]	≥ 1.5						
Fire class		EN 13501-1	Euroclass	-	-	-	-	D-s2, d0	-	D-s2, d0
Sound insulation	R'w		[dB]	-	-	-	-	28.0	-	26.5
Formaldehyde	Emission – rawboard	EN 717-1	Class	E1E05						
Temperature resistance	Top layer to honeycomb		[°C]	≤ 80 °C						
	Top layer to frame									

* Density values are subject to production-related fluctuations and are to be understood as specifications with a tolerance of ± 10 %.

** The values given correspond to board averages.

Raw density table

The behaviour of the raw density with different top layer thicknesses of unsealed Eurolight Lightweight Boards

Board thickness Eurolight	Cover layers			EGGER Eurospan raw chipboard
Thickness	3 mm	4 mm	8 mm	–
Board type	E1E05 TSCA P2 CE	E1E05 TSCA P2 CE	E1E05 TSCA P2 CE	E1E05 TSCA P2 CE
Raw density (kg/m³)*				
15 mm	338	-	-	663
16 mm	317	-	-	674
17 mm	303	382	-	-
18 mm	288	361	-	661
19 mm	-	346	-	651
20 mm	262	330	-	-
22 mm	240	303	-	634
23 mm	230	-	-	-
24 mm	-	280	-	-
25 mm	214	270	450	634
26 mm	206	-	433	-
27 mm	-	251	420	-
28 mm	193	242	406	597
30 mm	182	227	-	615
32 mm	-	215	358	609
33 mm	-	-	348	-
34 mm	163	-	-	-
35 mm	-	-	329	-
36 mm	155	194	321	-
38 mm	146	184	325	581
40 mm	143	174	305	-
42 mm	-	170	-	-
44 mm	-	-	267	-
46 mm	-	-	256	614** (4+38+4)
46 mm	124	-	-	-
48 mm	122	149	244	-
50 mm	119	146	238	634** (25+25)
52 mm	-	142	-	-
56 mm	-	-	212	597** (28+28)
58 mm	-	-	208	-
60 mm	-	-	202	615** (30+30)
70 mm	92	-	-	593** (16+38+16)
72 mm	-	109	-	-
80 mm	-	-	158	-
86 mm	94	-	-	-
88 mm	-	108	-	-
96 mm	-	-	149	-

* the raw density is subject to fluctuations due to production. For this reason, the values given can only be seen as indicative values.

** theoretical values

Eurolight® raw

Top layer thin chipboard raw 3 mm					
Size	2800 × 2070 mm*				
Board thickness	Weight in kg/m³	Weight in kg/board	Boards per package	Pack height in mm	Pack weight in kg
18 mm	288	30	25	550	831
25 mm	214	31	18	550	638
28 mm	193	31	16	548	581
30 mm	182	32	15	550	555
38 mm	146	32	13	594	498
40 mm	143	33	11	540	445
48 mm	122	34	9	532	386
50 mm	119	34	9	550	391

Top layer thin chipboard raw 4 mm					
Size	2800 × 2070 mm*				
Board thickness	Weight in kg/m³	Weight in kg/board	Boards per package	Pack height in mm	Pack weight in kg
18 mm	361	38	25	550	1022
19 mm	346	38	25	575	1033
25 mm	270	39	18	550	784
28 mm	242	39	16	548	709
30 mm	227	39	15	550	672
32 mm	215	40	14	548	638
38 mm	184	41	13	594	607
40 mm	174	40	11	540	524
48 mm	149	41	9	532	453
50 mm	146	42	9	550	461
98 mm	108	61	4	492	326

Top layer chipboard raw 8 mm					
Size	2800 × 2070 mm*				
Board thickness	Weight in kg/m³	Weight in kg/board	Boards per package	Pack height in mm	Pack weight in kg
25 mm	450	65	18	550	1254
28 mm	406	66	16	548	1134
32 mm	358	66	14	548	1010
38 mm	325	72	13	594	1011
40 mm	305	71	11	540	858
44 mm	267	68	10	540	761
48 mm	244	68	9	532	691
50 mm	238	69	9	550	701
96 mm	149	83	4	484	412

* On request available in size 5610 × 2070 mm

Eurolight® Decor

Top layer melamine faced thin chipboard 3 mm					
Size	2800 × 2070 mm*				
Board thickness	Weight in kg/m³	Weight in kg/board	Boards per package	Pack height in mm	Pack weight in kg
18 mm	288	32	25	550	961
25 mm	214	33	18	550	755
28 mm	193	33	16	548	694
30 mm	182	34	15	550	666
38 mm	146	34	13	594	606
40 mm	143	35	11	540	549
48 mm	122	36	9	532	486
50 mm	119	36	9	550	491

Top layer melamine faced thin chipboard 4 mm					
Size	2800 × 2070 mm*				
Board thickness	Weight in kg/m³	Weight in kg/board	Boards per package	Pack height in mm	Pack weight in kg
18 mm	361	38	25	550	1022
19 mm	346	38	25	575	1033
25 mm	270	39	18	550	784
28 mm	242	39	16	548	709
30 mm	227	39	15	550	672
32 mm	215	40	14	548	638
38 mm	184	41	13	594	607
40 mm	174	40	11	540	524
48 mm	149	41	9	532	453
50 mm	146	42	9	550	461
98 mm	108	61	4	492	326

Top layer melamine faced chipboard 8 mm					
Size	2800 × 2070 mm*				
Board thickness	Weight in kg/m³	Weight in kg/board	Boards per package	Pack height in mm	Pack weight in kg
18 mm	361	40	25	570	1152
19 mm	346	40	25	595	1163
25 mm	270	41	18	570	901
28 mm	242	41	16	568	822
30 mm	227	41	15	570	784
32 mm	215	42	14	568	748
38 mm	184	42	13	614	715
40 mm	174	42	11	560	628
48 mm	149	43	9	552	553
50 mm	146	44	9	570	561
98 mm	108	63	4	512	416

* On request available in size 5610 × 2070 mm

Safe in every situation

Antibacterial surface property

Did you know that our products have an antibacterial surface property?

Bacteria and germs are reduced by 99.9 % (ISO 22196) within 24 hours on the hygienically sealed and closed surfaces of our melamine-resin-coated boards such as Eurolight decor, PerfectSense Lacquered Boards, compact laminates and laminates, or on bases covered with laminates such as Eurolight Lightweight Boards. This characteristic also prevents the bacteria from breeding. This makes the material particularly suitable for areas that are subject to certain hygiene requirements.

Example:
Certificate for Eurodekor

Our products are produced without the addition of antibacterial additives and are tested according to the most important, internationally recognised test method (ISO 22196 = JIS Z 2801) for the evaluation of antibacterial activity. In addition, our products are certified by the independent, external Hohenstein Institute.

The reduction value is decisive for evaluating antibacterial activity: How many germs still exist after 24 hours compared with the start of the test? In the tests carried out, Eurolight decor has achieved the effectiveness “strong”, value of antibacterial effect A ≥ 3.

Effectiveness of antibacterial properties	Value of the antibacterial effect A [$\log_{10}$KBE]
none	$A < 2$
significant	$2 \leq A < 3$
strong	$A \geq 3$

The environmental cycle –

or why sustainability is more than just a word for us.

Planning and application
We create full transparency with the help of environmental product declarations (EPDs). They provide professionals with important information on environmental and health aspects, and are also available to interested end-users – for each of our base products.

Recycling
We recycle waste wood in our production of wood-based materials. It comes from disposed goods such as furniture, pallets or packaging material. In this way we conserve fresh resources and extend the effect of CO_2 storage.

Wood-based materials production and further processing
To continually improve our environmental performance in the production process, we are opting for internationally certified energy and environmental management systems in accordance with ISO 50001, ISO 14001 and EMAS.

Use of sawmill by-products
We prefer to buy by-products from regional and certified sawmills. By using by-products, we save natural resources.

Renewable energy
We convert the biomass and wood residues from production that can no longer be used as materials into heat and green electricity in our own biomass power plants.

Sustainable forestry
We support the sustainable development goals of the UN. With SDG 15, we are committed to the protection and restoration of terrestrial ecosystems and to promoting the sustainable management of forests. Our wood comes from 100 % verified legal and controlled sources according to ISO 38200. We buy roundwood preferably FSC®, PEFC or SFI certified forests in the purchasing region.

FSC www.fsc.org FSC® C017963 The mark of responsible forestry

PEFC Promoting Sustainable Forest Management PEFC/06-38-171

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