STORAGE TECHNOLOGY

PRODUCTS AND TECHNICAL INFORMATION

MADE IN GERMANY

MAKE YOUR VISIONS WORK.

DUROPAL | thermopal

PFLEIDERER

MAKE YOUR VISIONS WORK.

WOOD-BASED PANELS THAT OPEN UP NEW PERSPECTIVES.

From design to completed project, every step counts. After all, designs are only really appealing if they can also be realised. By choosing Pfleiderer, you're off to the right start. Aesthetic, functional and by design. In the 2021–2024 brochure, we introduce you to our extensive product range designed to make you more successful. Stylish, expressive and modern decors, innovative surface textures and core panels all come together perfectly to meet your technical, cost and user requirements. From high quality individual items to sector spanning concepts – you can turn your vision into reality with practical, high quality solutions from Pfleiderer.

WORK APP Decor Scanner
workapp.pfleiderer.com

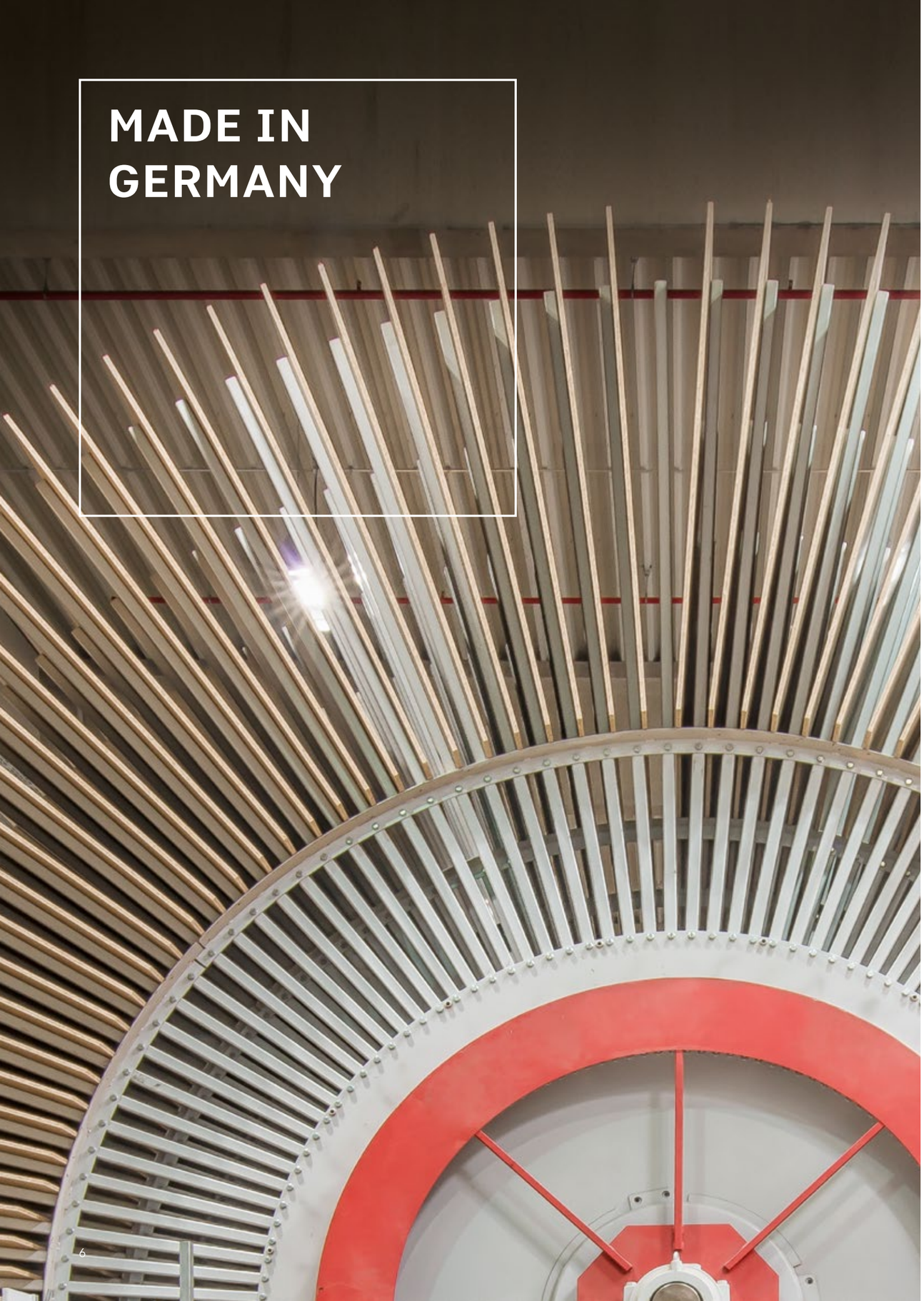
Make work easier – with the Pfleiderer WorkApp! Simply scan decors with your smartphone, receive combination recommendations and request samples.

The new Pfleiderer WorkApp works on any smartphone. Just go to workapp.pfleiderer.com and start the Decor Scanner. If you use it regularly, simply add the app to your home screen!

Our tip:
scan the QR code and get started straight away.

HIGH-PERFORMANCE TO WITHSTAND THE TOUGH EVERYDAY CHALLENGES IN THE LOGISTICS AREA.

So that valuable items are reliably protected.
Solid, durable high bay racking with a high load-bearing capacity is an important factor for successful and productive warehouse management. Pfleiderer offers exceptionally robust wood-based materials that are easy to work with and allow their efficient construction in the required quality. Shelves, platforms, staircases and raised floors have to withstand a lot in everyday logistics. Pfleiderer ensures, with the right wood-based panels, that storage technology can be implemented quickly, economically and in accordance with all valid stipulations and regulations.



UNCOMPROMISINGLY GOOD: AT PFLEIDERER QUALITY HAS A SYSTEM

You can rely on security and transparency.
Producing wood-based materials sustainably and in the highest quality is a challenge. As a leading company in the wood industry, Pfleiderer faces up to this challenge at all levels – and with traditional entrepreneurial diligence. With modern production sites, an integrated management system for quality, environment, energy and safety, and a corporate culture that continuously develops these values. Because for us, the compatibility of quality and sustainability is a matter of course!

In concrete terms, this means that we certify our processes throughout the entire value chain – often far beyond what is legally required. We attach great importance to being as transparent as possible for our customers and partners. Our environmental management systems at our locations are certified according to DIN ISO EN 14001 and ISO 50001. Also we belong to the Quality Association for Wood-based Panels and have certifications according to FSC® (License Code: FSC® C011773) and PEFC (License Code: PEFC/04-32-0828). And if you want to know more, just contact us. We will be happy to give you detailed information!

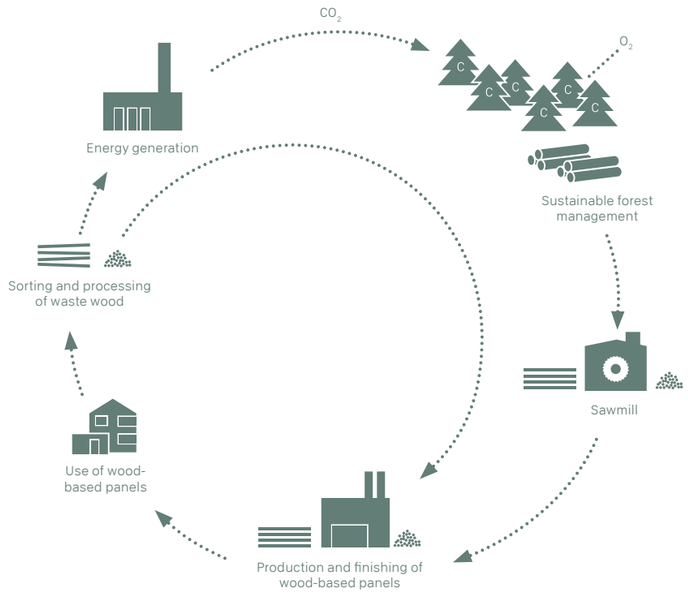
MADE IN GERMANY

SUSTAIN-ABILITY

DESIGNED FOR A FUTURE WORTH LIVING: SUSTAINABILITY AT PFLEIDERER

Responsibility for tomorrow starts today.
Those who rely on wood as a raw material rightly expect an environmentally conscious "green" material. We at Pfleiderer want to do full justice to this and have therefore been offering an extensive range of low-emission and environmentally friendly products for many years. Sustainability – in addition to ecological, social and economic aspects – as well as careful use of natural resources are permanent pillars of our corporate philosophy. Consistent recycling management and wood recycling ensure that no trees are felled for our products. Through regular independent evaluation of our procurement and production processes, we are able to ensure that we are able to offer our customers the best possible service, manufacturing and logistics processes as well as a corporate culture of accountability. We ensure that you can use our products with a clear conscience and recommend them to your customers.

A healthy full range of products.
Pfleiderer focuses on low-emission materials, e.g. F**** glued panels for interior design or LivingBoard with formaldehyde-free gluing. Many of our board materials have been awarded the Blue Angel for a healthy indoor climate for many years. At the beginning of 2020, we succeeded in obtaining this award – in addition to raw boards and directly coated products – also for large parts of the HPL range.
This means that you can also fall back on a consistently sustainable full product range for demanding projects – and fulfil customer wishes without compromising on ecology and sustainability.



Through multi-stage wood utilisation (so-called cascade utilisation), wood recycling, and the use of forestry wood and industrial waste wood for high quality materials with a long service life, Pfleiderer conserves valuable resources and actively contributes to reducing carbon emissions, air, water and soil pollution and energy consumption. We control the wood mix individually, depending on the product, to achieve a perfect balance between quality requirements and resource conservation.

PEFC PEFC/04-32-0828 Förderung nachhaltiger Waldwirtschaft www.pefc.de
FSC www.fsc.org FSC® C011773 Das Zeichen für verantwortungsvolle Waldwirtschaft
CERTIFIED cradle to cradle PRODUCTS PROGRAM
BLUE ANGEL THE GERMAN ECOLABEL www.blauer-engel.de/uz76

PREMIUM-BOARD

High load carrying capacity and above-average durability.

Areas of application
- Platforms, shelving, raised access floors and stairs with high loading requirements

Properties
- Particularly high bending strength, resistance and load carrying capacity
- Above-average durability
- Isotropic strengths in longitudinal and transverse direction
- Technical approval in accordance with CE EN 13986 – P4 / P6

Advantages
- Isotropic strength properties in all panel directions ensure optimised cut-to-size
- Low VOC emissions due to the use of low-resin wood
- The smooth and sanded surface is optimally suitable for the coating

Materials used
- Fresh forest wood and sawmill wood, recycled material
- Amino resin

PremiumBoard P4

Wood particleboard type P4 in accordance with EN 312, for structural purposes for use in dry conditions.

AREAS OF APPLICATION

Storage technology

Raised floor

PremiumBoard P4 is a urea resin bonded wood-based panel for load-bearing use, especially in dry conditions. Due to the bonding with amino resins, PremiumBoard P4 is a particularly light-coloured wood-based panel, which not only has a high load-bearing capacity, but also has above-average durability. With these properties, PremiumBoard P4 is the ideal material for modern shelves and racking, platforms and raised access floors.

PRODUCT FEATURES

Sanded

Load-bearing

Direction-free application

EC scope	EN 13986:2004 +A1:2015 Load-bearing boards for use in dry conditions.
Reaction to fire	D-s2,d0 according to EN 13986 dependent on end use (Thickness: ≥ 9 mm / Gross density: ≥ 600 kg/m³)
Formaldehyde emission class	E1 E05
Note	FSC certification or PEFC certification available on request.

MECHANICAL AND PHYSICAL PROPERTIES

Property	Test method	Unit	Requirement Thickness/Range of thickness (mm, nominal dimension)	
Thickness in mm		mm	> 25 to ≤ 32	> 32 to ≤ 40
Mean density	EN 323	kg/m³	640–620	620–600
Bending strength	EN 310	N/mm²	11	9
Bending modulus of elasticity	EN 310	N/mm²	1,850	1,500
Internal bond	EN 319	N/mm²	0.25	0.2
Swelling in thickness, 24 h	EN 317	%	15	14

FORMAT IN MM

Length	Width	Thickness
5,310	2,100	30 | 38
5,600	2,100	30 | 38

From a minimum order quantity of 100 m³. Other formats and thicknesses available on request.

PremiumBoard P5

Wood particleboard type P5 in accordance with EN 312, for structural purposes for use in humid conditions.

AREAS OF APPLICATION

Storage technology

Raised floor

Due to the bonding with melamine-reinforced urea resin, PremiumBoard P5 is resistant to high humidity and temporarily higher moisture exposure. In addition to its structural function, PremiumBoard P5 also has above-average durability. With these properties, PremiumBoard P5 is the ideal material for modern shelving, platforms and raised access floors.

PRODUCT FEATURES

Sanded

Low swelling / moisture resistant

Load-bearing

Direction-free application

EC scope	EN 13986:2004 +A1:2015 Load-bearing boards for use in humid conditions
Reaction to fire	E, D-s2,d0 according to EN 13986 dependent on end use (Thickness: ≥ 9 mm / Gross density: ≥ 600 kg/m³)
Formaldehyde emission class	E1 E05
Note	FSC certification or PEFC certification available on request.

MECHANICAL AND PHYSICAL PROPERTIES

Property	Test method	Unit	Requirement Thickness/Range of thickness (mm, nominal dimension)	
Thickness in mm		mm	> 25 to ≤ 32	> 32 to ≤ 40
Mean density	EN 323	kg/m³	660–640	640–620
Bending strength	EN 310	N/mm²	12	10
Bending modulus of elasticity	EN 310	N/mm²	1,900	1,700
Internal bond	EN 319	N/mm²	0.35	0.3
Swelling in thickness, 24 h	EN 317	%	10	9
Internal bond after boil test	EN 1087-1	N/mm²	0.11	0.1

FORMAT IN MM

Length	Width	Thickness
5,310	2,100	30 | 38

From a minimum order quantity of 100 m³. Other formats and thicknesses available on request.

PremiumBoard P6

Wood particleboard type P6 in accordance with EN 312, heavy-duty, for structural purposes for use in dry conditions.

AREAS OF APPLICATION

Storage technology

PremiumBoard P6 is a urea resin bonded wood-based panel for load-bearing use, especially in dry conditions. Due to the bonding with amino resins, PremiumBoard P6 is a particularly light-coloured wood-based panel, which not only has a high load-bearing capacity, but also has above-average durability. With these properties, PremiumBoard P6 is the ideal material for modern shelves and racking, platforms and raised access floors.

PRODUCT FEATURES

Sanded

Load bearing – particularly high bending strength

Direction-free application

EC scope	EN 13986:2004 +A1:2015 Heavy duty load-bearing boards for use in dry conditions.
Reaction to fire	D-s2,d0 according to EN 13986 dependent on end use (Thickness: ≥ 9 mm / Gross density: ≥ 600 kg/m³)
Formaldehyde emission class	E1 E05
Note	FSC certification or PEFC certification available on request.

MECHANICAL AND PHYSICAL PROPERTIES

Property	Test method	Unit	Requirement Thickness/Range of thickness (mm, nominal dimension)	
Thickness in mm		mm	> 25 to ≤ 32	> 32 to ≤ 40
Mean density	EN 323	kg/m³	710–690	690–670
Bending strength	EN 310	N/mm²	15	14
Bending modulus of elasticity	EN 310	N/mm²	2,400	2,200
Internal bond	EN 319	N/mm²	0.35	0.3
Swelling in thickness, 24 h	EN 317	%	15	14

FORMAT IN MM

Length	Width	Thickness
5,310	2,100	30 | 38
5,600	2,100	30 | 38

From a minimum order quantity of 100 m³. Other formats and thicknesses available on request.

PremiumBoard P6 Plus

Wood particleboard type P6 in accordance with EN 312, heavy-duty, for structural purposes for use in dry conditions.

AREAS OF APPLICATION

Storage technology

Raised floor

PremiumBoard P6 Plus is a urea resin-bonded wood-based panel for structural use, especially in dry conditions. Due to the bonding with amino resins, high compaction and increased glue fraction, PremiumBoard P6 Plus has high bending strengths, load carrying capacity and an above-average durability. With these properties, PremiumBoard P6 Plus is the ideal material for shelving, platforms and raised access floors, for which high strength values are required.

PRODUCT FEATURES

Sanded

Load bearing – particularly high bending strength

Direction-free application

EC scope	EN 13986:2004 +A1:2015 Heavy duty load-bearing boards for use in dry conditions.
Reaction to fire	D-s2,d0 according to EN 13986 dependent on end use (Thickness: ≥ 9 mm / Gross density: ≥ 600 kg/m³)
Formaldehyde emission class	E1 E05
Note	FSC certification or PEFC certification available on request.

MECHANICAL AND PHYSICAL PROPERTIES

Property	Test method	Unit	Requirement Thickness/Range of thickness (mm, nominal dimension)
Thickness in mm		mm	> 32 to ≤ 40
Mean density	EN 323	kg/m³	720–700
Bending strength		N/mm²	16
Bending modulus of elasticity		N/mm²	2,400
Internal bond	EN 319	N/mm²	0.4
Swelling in thickness, 24 h	EN 317	%	14

FORMAT IN MM

Length	Width	Thickness
5,310	2,100	38
5,600	2,100	38

From a minimum order quantity of 100 m³. Other formats and thicknesses available on request.

PremiumBoard P7

Wood particleboard type P7 in accordance with EN 312, heavy-duty for structural purposes for use in humid conditions.

AREAS OF APPLICATION

Storage technology

Due to the bonding with melamine-reinforced urea resin, PremiumBoard P7 is resistant to high humidity and temporarily higher moisture exposure. In addition to its high load carrying capacity, PremiumBoard P7 also has above-average durability. With these properties, PremiumBoard P7 is the ideal material for modern shelving, platforms and raised access floors.

PRODUCT FEATURES

Sanded

Low swelling / moisture resistant

Load bearing – particularly high bending strength

Direction-free application

EC scope	EN 13986:2004 +A1:2015 Heavy duty load-bearing boards for use in humid conditions.
Reaction to fire	D-s2,d0 according to EN 13986 dependent on end use (Thickness: ≥ 9 mm / Gross density: ≥ 600 kg/m³)
Formaldehyde emission class	E1 E05
Note	FSC certification or PEFC certification available on request.

MECHANICAL AND PHYSICAL PROPERTIES

Property	Test method	Unit	Requirement Thickness/Range of thickness (mm, nominal dimension)	
Thickness in mm		mm	> 25 to ≤ 32	> 32 to ≤ 40
Mean density	EN 323	kg/m³	680–660	660–640
Bending strength	EN 310	N/mm²	17	16
Bending modulus of elasticity	EN 310	N/mm²	2,800	2,600
Internal bond	EN 319	N/mm²	0.6	0.55
Swelling in thickness, 24 h	EN 317	%	10	9
Internal bond after boil test	EN 1087-1	N/mm²	0.18	0.17

FORMAT IN MM

Length	Width	Thickness
5,310	2,100	30 | 38

From a minimum order quantity of 100 m³. Other formats and thicknesses available on request.

PremiumBoard Pyroex P4

Wood particleboard type P4 in accordance with EN 312, for structural purposes for use in dry conditions, flame resistant.

AREAS OF APPLICATION

Storage technology

PremiumBoard Pyroex P4 is a flame resistant wood-based panel (construction class B1 to DIN 4102) with classification B- s2,d0 in accordance with EN 13501-1. PremiumBoard Pyroex P4 combines all the advantages of a structural particleboard with additional safety in case of fire. By adding flame retardants, the burn-through rate of the raw particleboards is reduced, as a result of which, the full development of the fire is delayed and in certain circumstances a fire is even prevented.

PRODUCT FEATURES

Sanded · Flame retardant · Load-bearing · Direction-free application

EC scope	EN 13986:2004 +A1:2015 Load-bearing boards for use in dry conditions.
Reaction to fire	B-s2,d0 (EN 13501-1)
Formaldehyde emission class	E1 E05
Note	FSC certification or PEFC certification available on request.

MECHANICAL AND PHYSICAL PROPERTIES

Property	Test method	Unit	Requirement Thickness/Range of thickness (mm, nominal dimension)			
Thickness in mm		mm	> 13 to ≤ 20	> 20 to ≤ 25	> 25 to ≤ 32	> 32 to ≤ 40
Mean density	EN 323	kg/m³	680–650	650–630	640–620	620–600
Bending strength	EN 310	N/mm²	15	13	11	9
Bending modulus of elasticity	EN 310	N/mm²	2,300	2,050	1,850	1,500
Internal bond	EN 319	N/mm²	0.35	0.3	0.25	0.2
Swelling in thickness, 24 h	EN 317	%	15	15	15	14

FORMAT IN MM

Length	Width	Thickness
5,310	2,100	38
5,600	2,100	38

From a minimum order quantity of 100 m³. Other formats and thicknesses available on request.

PremiumBoard Pyroex P6

Wood particleboard type P6 in accordance with EN 312, heavy-duty, for structural purposes for use in dry conditions, flame resistant.

AREAS OF APPLICATION

Fire protection · Storage technology

PremiumBoard Pyroex P6 is a flame resistant wood-based panel with B- s2,d0 classification to EN 13501-1. PremiumBoard Pyroex P6 combines all the advantages of a heavy-duty, structural particleboard with additional safety in case of fire. By adding flame retardants, the burn-through rate of the raw particleboards is reduced, as a result of which, the full development of the fire is delayed and in certain circumstances a fire is even prevented.

PRODUCT FEATURES

Sanded · Flame retardant · Load bearing – particularly high bending strength · Direction-free application

EC scope	EN 13986:2004 +A1:2015 Heavy duty load-bearing boards for use in dry conditions.
Reaction to fire	B-s2,d0 (EN 13501-1)
Formaldehyde emission class	E1 E05
Note	FSC certification or PEFC certification available on request.

MECHANICAL AND PHYSICAL PROPERTIES

Property	Test method	Unit	Requirement Thickness/Range of thickness (mm, nominal dimension)
Thickness in mm		mm	38
Mean density	EN 323	kg/m³	680
Bending strength	EN 310	N/mm²	14
Bending modulus of elasticity	EN 310	N/mm²	2,200
Internal bond	EN 319	N/mm²	0.3
Swelling in thickness, 24 h	EN 317	%	14

FORMAT IN MM

Length	Width	Thickness
5,310	2,100	38
5,600	2,100	38

From a minimum order quantity of 100 m³. Other formats and thicknesses available on request.

DECOBOARD

Melamine faced boards

Areas of application

- Platforms
- Shelving

Properties

- Technical overlay with special impregnation
- In combination with the skidproof texture and particular product lay-up, fulfils the slip resistance rating R10 and abrasion resistance class AC4
- Particularly high bending strength, resistance and load carrying capacity
- The surface is suitable for contact with food

Advantages

- Isotropic strength properties in all panel directions ensure optimised cut-to-size
- Rear white coated, to improve light conditions
- Above average stability
- Good workability

Materials used

- Fresh forest wood and sawmill wood, recycled material
- Amino resin
- Faced with melamine resin impregnated paper

DecoBoard P4

Wood particleboard type P4 in accordance with EN 312, for structural purposes, for use in dry conditions, melamine faced on both sides.

AREAS OF APPLICATION

Storage technology

DecoBoard P4 is a urea resin-bonded wood-based panel, faced on both sides, for structural use, especially in dry conditions. It combines high load-carrying capacity and above-average durability with the advantages of an optimised facing. Ideally suitable for shelving and racking, in combination with the skidproof texture and particular product lay-up, DecoBoard P4 achieves slip resistance rating R10 and abrasion resistance class AC4 on its top face. The white coated back also improves light conditions significantly.

PRODUCT FEATURES

Antimicrobial · Food harmless · Anti-slip surface · Load-bearing

Product standard	EN 14322
Core material	PremiumBoard P4 Wood particleboard type P4 in accordance with EN 312, for structural purposes for use in dry conditions.
Reaction to fire	D-s2,d0 according to EN 13986 dependent on end use (Thickness: ≥ 9 mm / Gross density: ≥ 600 kg/m³)
Formaldehyde emission class	E1 E05
Antimicrobial effect	Surface with antimicrobial effect in 24h for interior fit-out and finishes – Test Methodology JIS Z 2801 / ISO 22196
Note	FSC certification or PEFC certification available on request.

MECHANICAL AND PHYSICAL PROPERTIES

Property	Test method	Unit	Requirement Thickness/Range of thickness (mm, nominal dimension)	
Thickness in mm		mm	> 25 to ≤ 32	> 32 to ≤ 40
Mean density	EN 323	kg/m³	640–620	620–600
Bending strength	EN 310	N/mm²	11	9
Bending modulus of elasticity	EN 310	N/mm²	1,850	1,500
Internal bond	EN 319	N/mm²	0.25	0.2
Swelling in thickness, 24 h	EN 317	%	15	14

FORMAT IN MM

Length	Width	Thickness
5,310 | 5,600	2,100	30 | 38

From a minimum order quantity of 100 m³. Other formats and thicknesses available on request.

DecoBoard P6

Wood particleboard type P6 in accordance with EN 312, heavy-duty, for structural purposes for use in dry conditions, melamine faced on both sides.

AREAS OF APPLICATION

Storage technology

DecoBoard P6 is a urea resin-bonded wood-based panel, faced on both sides, for structural use, especially in dry conditions. It combines high load-carrying capacity and above-average durability with the advantages of an optimised facing. Ideally suitable for shelving and racking, in combination with the skidproof texture and particular product lay-up, DecoBoard P6 achieves slip resistance rating R10 and abrasion resistance class AC4 on its top face. The white coated back also improves light conditions significantly.

PRODUCT FEATURES

Antimicrobial | Food harmless | Anti-slip surface | Load bearing – particularly high bending strength

Product standard	EN 14322
Core material	PremiumBoard P6 Wood particleboard type P6 in accordance with EN 312, heavy-duty, for structural purposes for use in dry conditions.
Reaction to fire	D-s2,d0 according to EN 13986 dependent on end use (Thickness: ≥ 9 mm / Gross density: ≥ 600 kg/m³)
Formaldehyde emission class	E1 E05
Antimicrobial effect	Surface with antimicrobial effect in 24h for interior fit-out and finishes – Test Methodology JIS Z 2801 / ISO 22196
Note	FSC certification or PEFC certification available on request.

MECHANICAL AND PHYSICAL PROPERTIES

Property	Test method	Unit	Requirement Thickness/Range of thickness (mm, nominal dimension)	
Thickness in mm		mm	> 25 to ≤ 32	> 32 to ≤ 40
Mean density	EN 323	kg/m³	710–690	690–670
Bending strength	EN 310	N/mm²	15	14
Bending modulus of elasticity	EN 310	N/mm²	2,400	2,200
Internal bond	EN 319	N/mm²	0.35	0.3
Swelling in thickness, 24 h	EN 317	%	15	14

FORMAT IN MM

Length	Width	Thickness
5,310 | 5,600	2,100	30 | 38

From a minimum order quantity of 100 m³. Other formats and thicknesses available on request.

DecoBoard P6 Plus

Wood particleboard type P6 in accordance with EN 312, heavy-duty, for structural purposes for use in dry conditions, melamine faced on both sides.

AREAS OF APPLICATION

Storage technology

DecoBoard P6 Plus is a urea resin-bonded wood-based panel, faced on both sides, for structural use, especially in dry conditions. Due to the high compaction and increased glue fraction, DecoBoard P6 Plus combines particularly high load-carrying capacity and above-average durability with the advantages of an optimised facing. Ideally suitable for shelving and racking, in combination with the skidproof texture and particular product lay-up, DecoBoard P6 Plus achieves slip resistance rating R10 and abrasion resistance class AC4 on its top face. The white coated back also improves light conditions significantly.

PRODUCT FEATURES

Antimicrobial | Food harmless | Anti-slip surface | Load bearing – particularly high bending strength

Product standard	EN 14322
Core material	PremiumBoard P6 Plus Wood particleboard type P6 in accordance with EN 312, heavy-duty, for structural purposes for use in dry conditions.
Reaction to fire	D-s2,d0 according to EN 13986 dependent on end use (Thickness: ≥ 9 mm / Gross density: ≥ 600 kg/m³)
Formaldehyde emission class	E1 E05
Antimicrobial effect	Surface with antimicrobial effect in 24h for interior fit-out and finishes – Test Methodology JIS Z 2801 / ISO 22196
Note	FSC certification or PEFC certification available on request.

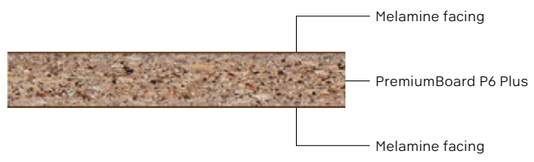
MECHANICAL AND PHYSICAL PROPERTIES

Property	Test method	Unit	Requirement Thickness/Range of thickness (mm, nominal dimension)
Thickness in mm		mm	> 32 to ≤ 40
Mean density	EN 323	kg/m³	720–700
Bending strength		N/mm²	16
Bending modulus of elasticity		N/mm²	2,400
Internal bond	EN 319	N/mm²	0.4
Swelling in thickness, 24 h	EN 317	%	14

FORMAT IN MM

Length	Width	Thickness
5,310 | 5,600	2,100	38

From a minimum order quantity of 100 m³. Other formats and thicknesses available on request.



DecoBoard Pyroex P4

Wood particleboard type P4 in accordance with EN 312, for structural purposes for use in dry conditions, melamine faced on both sides, flame resistant.

AREAS OF APPLICATION

Fire protection

Storage technology

DecoBoard Pyroex P4 combines all the advantages of a structural particleboard with additional safety in case of fire. By adding flame retardants, the burn-through rate of the raw particleboards is reduced, as a result of which, the full development of the fire is delayed and in certain circumstances a fire is even prevented. Ideally suitable for shelving and racking, in combination with the skidproof texture and particular product lay-up, DecoBoard Pyroex P4 achieves slip resistance rating R10 and abrasion resistance class AC4 on its top face.

PRODUCT FEATURES

Antimicrobial

Food harmless

Anti-slip surface

Flame retardant

Load-bearing

Product standard	EN 14322
Core material	PremiumBoard Pyroex P4 Wood particleboard type P4 in accordance with EN 312, for structural purposes for use in dry conditions, flame resistant.
Reaction to fire	Flame retardant Bfl-s1, B-s1,d0 (EN 13501-1)
Formaldehyde emission class	E1 E05
Antimicrobial effect	Surface with antimicrobial effect in 24h for interior fit-out and finishes – Test Methodology JIS Z 2801 / ISO 22196
Note	FSC certification or PEFC certification available on request.

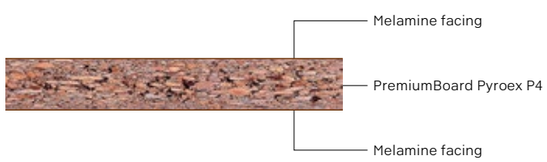
MECHANICAL AND PHYSICAL PROPERTIES

Property	Test method	Unit	Requirement Thickness/Range of thickness (mm, nominal dimension)
Thickness in mm		mm	> 32 to ≤ 40
Mean density	EN 323	kg/m³	620–600
Bending strength	EN 310	N/mm²	9
Bending modulus of elasticity	EN 310	N/mm²	1,500
Internal bond	EN 319	N/mm²	0.2
Swelling in thickness, 24 h	EN 317	%	14

FORMAT IN MM

Length	Width	Thickness
5,310 | 5,600	2,100	38

From a minimum order quantity of 100 m³. Other formats and thicknesses available on request.



DecoBoard Pyroex P6

Wood particleboard type P6 in accordance with EN 312, heavy-duty, for structural purposes for use in dry conditions, melamine faced on both sides, flame resistant.

AREAS OF APPLICATION

Fire protection

Storage technology

DecoBoard Pyroex P6 combines all the advantages of a structural particleboard with additional safety in case of fire. By adding flame retardants, the burn-through rate of the raw particleboards is reduced, as a result of which, the full development of the fire is delayed and in certain circumstances a fire is even prevented. Ideally suitable for shelving and racking, in combination with the skidproof texture and particular product lay-up, DecoBoard Pyroex P6 achieves slip resistance rating R10 and abrasion resistance class AC4 on its top face.

PRODUCT FEATURES

Antimicrobial

Food harmless

Anti-slip surface

Flame retardant

Load bearing – particularly high bending strength

Product standard	EN 14322
Core material	PremiumBoard Pyroex P6 Wood particleboard type P6 in accordance with EN 312, heavy-duty, for structural purposes for use in dry conditions, flame resistant.
Reaction to fire	Flame retardant Bfl-s1, B-s1,d0 (EN 13501-1)
Formaldehyde emission class	E1 E05
Antimicrobial effect	Surface with antimicrobial effect in 24h for interior fit-out and finishes – Test Methodology JIS Z 2801 / ISO 22196
Note	FSC certification or PEFC certification available on request.

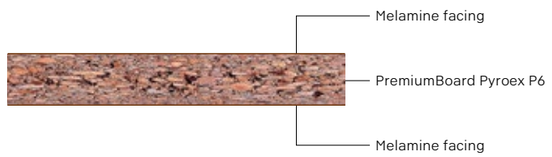
MECHANICAL AND PHYSICAL PROPERTIES

Property	Test method	Unit	Requirement Thickness/Range of thickness (mm, nominal dimension)
Thickness in mm		mm	38
Mean density	EN 323	kg/m³	680
Bending strength	EN 310	N/mm²	14
Bending modulus of elasticity	EN 310	N/mm²	2,200
Internal bond	EN 319	N/mm²	0.3
Swelling in thickness, 24 h	EN 317	%	14

FORMAT IN MM

Length	Width	Thickness
5,310 | 5,600	2,100	38

From a minimum order quantity of 100 m³. Other formats and thicknesses available on request.



STRUCTURAL CALCULATIONS

The CE-marked products of Pfleiderer have a national technical approval in accordance with the relevant Construction Products Regulation and EN 13986. The characteristic values for the design of timber structures for Pfleiderer wood-based panels are given in EN 12369-1.

Wood-based construction materials made by Pfleiderer – approvals	
PremiumBoard P4	approved to CE EN 13986 – P4 / EN 312
PremiumBoard P6	approved to CE EN 13986 – P6 / EN 312
PremiumBoard P6 Plus	approved to CE EN 13986 – P6 / EN 312

Wood based panels from Pfleiderer are structurally non-dierctional in length and width so these directions do not need to be taken into account in production (waste optimisation).

CHARACTERISTIC VALUES

For structural design.

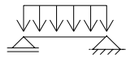
	Strength values in N/mm²					**Stiffness values in N/mm²**		
Thickness t_{nom}	**Bending** f_m	**Tension** f_t	**Pressure** f_c	**Shear across the board plane** f_v	**Shear in the board pane** f_r	**Bending** E_m	**Tension and compression** E_t; E_c	**Transverse shear** G_v
PremiumBoard P4								
> 13–20 mm	12.5	7.9	11.1	6.1	1.6	2,900	1,700	830
> 20–25 mm	10.8	6.9	9.6	5.5	1.4	2,700	1,600	770
> 25–32 mm	9.2	6.1	9.0	4.8	1.2	2,400	1,400	680
> 32–40 mm	7.5	5.0	7.6	4.4	1.1	2,100	1,200	600
PremiumBoard P6								
> 13–20 mm	15.0	9.5	13.3	7.3	1.7	4,100	2,400	1,150
> 20–25 mm	13.3	8.5	12.8	6.8	1.7	3,500	2,100	1,050
> 25–32 mm	12.5	8.3	12.2	6.5	1.7	3,300	1,900	950
> 32–40 mm	11.7	7.8	11.9	6.0		3,100	1,800	900
PremiumBoard P6 Plus								
38 mm	16.0	7.8	11.9	6.0	1.7	4,300	1,800	900

The characteristic values are given in EN 12369-1 and apply to load-bearing structural use under service class 2 conditions.

LOAD TABLES
P4-BOARDS

Support spacing (centre distance) [cm], maximum permissible surface load with various thicknesses [mm], spans and bending criteria [kN/m²] – usage class 1 – LDC: moderate

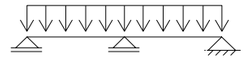
Static system: single span beams with surface load
Calculated values according to DIN EN 12369-1:2001-04 / calculation according to DIN EN 1995-1-1: 2010-12



Thickness in mm	Support distance (centre distance) in cm																										Deflection criteria
	30	35	40	45	50	55	60	62,5	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	
16	15.8	11.6	7.8	5.4	3.9	2.9	2.2	2.0	1.7	1.4	1.1	0.9	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	L/150
	13.8	8.7	5.8	4.1	2.9	2.2	1.7	1.5	1.3	1.0	0.8	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	L/200
	9.2	5.8	3.8	2.7	1.9	1.4	1.1	0.9	0.8	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	L/300
	47.3	34.7	26.6	21.0	17.0	14.0	11.8	10.8	10.0	8.6	7.5	6.6	5.8	5.2	4.6	4.2	3.8	3.4	3.1	2.9	2.6	2.4	2.2	2.1	1.9	1.8	Break
18	20.0	14.7	11.1	7.8	5.6	4.2	3.2	2.8	2.5	2.0	1.6	1.3	1.1	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	L/150
	19.7	12.4	8.3	5.8	4.2	3.1	2.4	2.1	1.9	1.5	1.2	0.9	0.8	0.6	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	L/200
	13.1	8.2	5.5	3.8	2.8	2.1	1.6	1.4	1.2	0.9	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	L/300
	59.9	44.0	33.6	26.6	21.5	17.7	14.9	13.7	12.7	10.9	9.5	8.3	7.4	6.6	5.9	5.3	4.8	4.4	4.0	3.6	3.3	3.1	2.9	2.6	2.5	2.3	Break
19	22.2	16.3	12.5	9.1	6.6	5.0	3.8	3.4	3.0	2.4	1.9	1.5	1.3	1.0	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	L/150
	22.2	14.6	9.8	6.8	5.0	3.7	2.8	2.5	2.2	1.7	1.4	1.1	0.9	0.8	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	L/200
	15.4	9.7	6.5	4.5	3.3	2.4	1.8	1.6	1.4	1.1	0.9	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	L/300
	66.7	49.0	37.5	29.6	24.0	19.8	16.6	15.3	14.1	12.2	10.6	9.3	8.2	7.3	6.6	5.9	5.3	4.9	4.4	4.1	3.7	3.4	3.2	3.0	2.7	2.6	Break
22	25.8	18.9	14.5	11.4	9.3	7.2	5.5	4.9	4.3	3.4	2.8	2.3	1.9	1.5	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	L/150
	25.8	18.9	14.1	9.9	7.2	5.4	4.1	3.6	3.2	2.5	2.0	1.7	1.4	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	L/200
	22.2	14.0	9.4	6.5	4.7	3.5	2.7	2.4	2.1	1.7	1.3	1.1	0.9	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	L/300
	77.3	56.8	43.4	34.3	27.7	22.9	19.2	17.7	16.4	14.1	12.3	10.8	9.5	8.5	7.6	6.8	6.2	5.6	5.1	4.7	4.3	4.0	3.7	3.4	3.2	3.0	Break
25	33.3	24.4	18.7	14.8	12.0	9.9	8.1	7.2	6.4	5.1	4.1	3.4	2.8	2.3	1.9	1.6	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	L/150
	33.3	24.4	18.7	14.5	10.6	7.9	6.1	5.3	4.7	3.8	3.0	2.5	2.0	1.7	1.4	1.2	1.0	0.9	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.2	L/200
	32.4	20.5	13.7	9.6	7.0	5.2	4.0	3.5	3.1	2.5	2.0	1.6	1.3	1.1	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1	L/300
	99.9	73.3	56.1	44.3	35.9	29.6	24.9	22.9	21.2	18.2	15.9	13.9	12.3	11.0	9.8	8.9	8.0	7.3	6.7	6.1	5.6	5.2	4.8	4.4	4.1	3.9	Break
28	35.6	26.1	20.0	15.8	12.8	10.5	8.9	8.2	7.5	6.4	5.1	4.2	3.5	2.9	2.4	2.1	1.8	1.5	1.3	1.1	1.0	0.9	0.7	0.7	0.6	0.5	L/150
	35.6	26.1	20.0	15.8	12.8	9.9	7.6	6.7	5.9	4.7	3.8	3.1	2.6	2.1	1.8	1.5	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	L/200
	35.6	25.5	17.1	12.0	8.7	6.5	5.0	4.4	3.9	3.1	2.5	2.0	1.7	1.4	1.1	1.0	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2	L/300
	106.7	78.3	59.9	47.3	38.3	31.6	26.5	24.5	22.6	19.5	16.9	14.9	13.1	11.7	10.5	9.4	8.6	7.8	7.1	6.5	6.0	5.5	5.1	4.7	4.4	4.1	Break
30	40.8	30.0	22.9	18.1	14.7	12.1	10.2	9.4	8.7	7.5	6.3	5.2	4.3	3.6	3.0	2.6	2.2	1.9	1.6	1.4	1.2	1.1	0.9	0.8	0.7	0.6	L/150
	40.8	30.0	22.9	18.1	14.7	12.1	9.3	8.2	7.3	5.8	4.7	3.9	3.2	2.7	2.2	1.9	1.6	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.4	L/200
	40.8	30.0	21.0	14.8	10.7	8.0	6.2	5.4	4.8	3.8	3.1	2.5	2.1	1.7	1.4	1.2	1.0	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	L/300
	122.5	89.9	68.8	54.3	44.0	36.3	30.5	28.1	26.0	22.4	19.4	17.1	15.1	13.4	12.1	10.9	9.8	8.9	8.2	7.5	6.9	6.4	5.9	5.5	5.1	4.7	Break
32	46.5	34.1	26.1	20.6	16.7	13.8	11.6	10.7	9.9	8.5	7.4	6.3	5.2	4.4	3.7	3.2	2.7	2.3	2.0	1.7	1.5	1.3	1.2	1.0	0.9	0.8	L/150
	46.5	34.1	26.1	20.6	16.7	13.8	11.3	10.0	8.9	7.1	5.7	4.7	3.9	3.2	2.7	2.3	2.0	1.7	1.5	1.3	1.1	1.0	0.8	0.7	0.6	0.6	L/200
	46.5	34.1	25.5	17.9	13.0	9.8	7.5	6.6	5.9	4.7	3.8	3.1	2.5	2.1	1.8	1.5	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	L/300
	139.4	102.3	78.3	61.8	50.1	41.3	34.7	32.0	29.5	25.4	22.1	19.4	17.2	15.3	13.7	12.4	11.2	10.2	9.3	8.5	7.8	7.2	6.7	6.2	5.8	5.4	Break
38	53.4	39.2	30.0	23.7	19.2	15.8	13.3	12.3	11.3	9.8	8.5	7.5	6.6	5.9	5.3	4.7	4.0	3.5	3.0	2.6	2.3	2.0	1.8	1.6	1.4	1.2	L/150
	53.4	39.2	30.0	23.7	19.2	15.8	13.3	12.3	11.3	9.8	8.4	6.9	5.7	4.8	4.0	3.4	2.9	2.5	2.2	1.9	1.7	1.4	1.3	1.1	1.0	0.9	L/200
	53.4	39.2	30.0	23.7	19.1	14.3	11.0	9.7	8.6	6.9	5.5	4.5	3.7	3.1	2.6	2.2	1.9	1.6	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	L/300
	160.2	117.6	90.0	71.1	57.5	47.5	39.9	36.7	33.9	29.2	25.4	22.3	19.8	17.6	15.8	14.2	12.9	11.7	10.7	9.8	9.0	8.3	7.7	7.1	6.6	6.2	Break

The tables serve for pre-dimensioning and do not replace the structural analysis in individual cases.

Static system: double span beams with surface load, which affects both areas simultaneously
Calculated values according to DIN EN 12369-1:2001-04 / calculation according to DIN EN 1995-1-1: 2010-12



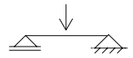
Thickness in mm	Support distance (centre distance) in cm																										Deflection criteria
	30	35	40	45	50	55	60	62,5	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	
16	15.8	11.6	8.9	7.0	5.7	4.7	3.9	3.6	3.3	2.9	2.5	2.2	1.9	1.6	1.3	1.1	1.0	0.8	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.3	L/150
	15.8	11.6	8.9	7.0	5.7	4.7	3.9	3.6	3.2	2.6	2.1	1.7	1.4	1.2	1.0	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	L/200
	15.8	11.6	8.9	6.5	4.7	3.5	2.7	2.4	2.1	1.7	1.3	1.1	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	L/300
	47.3	34.7	26.6	21.0	17.0	14.0	11.8	10.8	10.0	8.6	7.5	6.6	5.8	5.2	4.6	4.2	3.8	3.4	3.1	2.9	2.6	2.4	2.2	2.1	1.9	1.8	Break
18	20.0	14.7	11.2	8.9	7.2	5.9	5.0	4.6	4.2	3.6	3.2	2.8	2.5	2.2	1.9	1.6	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	L/150
	20.0	14.7	11.2	8.9	7.2	5.9	5.0	4.6	4.2	3.6	3.0	2.4	2.0	1.7	1.4	1.2	1.0	0.9	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.3	L/200
	20.0	14.7	11.2	8.9	6.8	5.1	3.9	3.4	3.0	2.4	1.9	1.6	1.3	1.1	0.9	0.8	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	L/300
	59.9	44.0	33.6	26.6	21.5	17.7	14.9	13.7	12.7	10.9	9.5	8.3	7.4	6.6	5.9	5.3	4.8	4.4	4.0	3.6	3.3	3.1	2.9	2.6	2.5	2.3	Break
19	22.2	16.3	12.5	9.9	8.0	6.6	5.5	5.1	4.7	4.1	3.5	3.1	2.7	2.4	2.2	1.9	1.6	1.4	1.2	1.1	0.9	0.8	0.7	0.6	0.6	0.5	L/150
	22.2	16.3	12.5	9.9	8.0	6.6	5.5	5.1	4.7	4.1	3.5	2.9	2.4	2.0	1.7	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	L/200
	22.2	16.3	12.5	9.9	8.0	6.0	4.6	4.0	3.6	2.8	2.3	1.9	1.5	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.3	0.2	0.2	L/300
	66.7	49.0	37.5	29.6	24.0	19.8	16.6	15.3	14.1	12.2	10.6	9.3	8.2	7.3	6.6	5.9	5.3	4.9	4.4	4.1	3.7	3.4	3.2	3.0	2.7	2.6	Break
22	25.8	18.9	14.5	11.4	9.3	7.6	6.4	5.9	5.5	4.7	4.1	3.6	3.2	2.8	2.5	2.3	2.1	1.9	1.7	1.6	1.4	1.2	1.1	0.9	0.8	0.7	L/150
	25.8	18.9	14.5	11.4	9.3	7.6	6.4	5.9	5.5	4.7	4.1	3.6	3.2	2.8	2.4	2.1	1.8	1.5	1.3	1.1	1.0	0.9	0.8	0.7	0.6	0.5	L/200
	25.8	18.9	14.5	11.4	9.3	7.6	6.4	5.8	5.2	4.1	3.3	2.7	2.3	1.9	1.6	1.3	1.1	1.0	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	L/300
	77.3	56.8	43.4	34.3	27.7	22.9	19.2	17.7	16.4	14.1	12.3	10.8	9.5	8.5	7.6	6.8	6.2	5.6	5.1	4.7	4.3	4.0	3.7	3.4	3.2	3.0	Break
25	33.3	24.4	18.7	14.8	12.0	9.9	8.3	7.6	7.1	6.1	5.3	4.6	4.1	3.7	3.3	3.0	2.7	2.4	2.2	2.0	1.9	1.7	1.6	1.4	1.3	1.1	L/150
	33.3	24.4	18.7	14.8	12.0	9.9	8.3	7.6	7.1	6.1	5.3	4.6	4.1	3.7	3.3	3.0	2.6	2.3	2.0	1.7	1.5	1.3	1.2	1.0	0.9	0.8	L/200
	33.3	24.4	18.7	14.8	12.0	9.9	8.3	7.6	7.1	6.1	4.9	4.0	3.3	2.8	2.4	2.0	1.7	1.5	1.3	1.1	1.0	0.8	0.7	0.6	0.6	0.5	L/300
	99.9	73.3	56.1	44.3	35.9	29.6	24.9	22.9	21.2	18.2	15.9	13.9	12.3	11.0	9.8	8.9	8.0	7.3	6.7	6.1	5.6	5.2	4.8	4.4	4.1	3.9	Break
28	35.6	26.1	20.0	15.8	12.8	10.5	8.9	8.2	7.5	6.5	5.6	5.0	4.4	3.9	3.5	3.2	2.9	2.6	2.4	2.2	2.0	1.8	1.7	1.6	1.5	1.4	L/150
	35.6	26.1	20.0	15.8	12.8	10.5	8.9	8.2	7.5	6.5	5.6	5.0	4.4	3.9	3.5	3.2	2.9	2.6	2.4	2.2	1.9	1.7	1.5	1.3	1.2	1.0	L/200
	35.6	26.1	20.0	15.8	12.8	10.5	8.9	8.2	7.5	6.5	5.6	5.0	4.2	3.5	3.0	2.5	2.2	1.9	1.6	1.4	1.2	1.1	0.9	0.8	0.7	0.6	L/300
	106.7	78.3	59.9	47.3	38.3	31.6	26.5	24.5	22.6	19.5	16.9	14.9	13.1	11.7	10.5	9.4	8.6	7.8	7.1	6.5	6.0	5.5	5.1	4.7	4.4	4.1	Break
30	40.8	30.0	22.9	18.1	14.7	12.1	10.2	9.4	8.7	7.5	6.5	5.7	5.0	4.5	4.0	3.6	3.3	3.0	2.7	2.5	2.3	2.1	2.0	1.8	1.7	1.6	L/150
	40.8	30.0	22.9	18.1	14.7	12.1	10.2	9.4	8.7	7.5	6.5	5.7	5.0	4.5	4.0	3.6	3.3	3.0	2.7	2.5	2.3	2.1	1.8	1.6	1.4	1.3	L/200
	40.8	30.0	22.9	18.1	14.7	12.1	10.2	9.4	8.7	7.5	6.5	5.7	5.0	4.3	3.7	3.1	2.7	2.3	2.0	1.7	1.5	1.3	1.2	1.0	0.9	0.8	L/300
	122.5	89.9	68.8	54.3	44.0	36.3	30.5	28.1	26.0	22.4	19.4	17.1	15.1	13.4	12.1	10.9	9.8	8.9	8.2	7.5	6.9	6.4	5.9	5.5	5.1	4.7	Break
32	45.5	34.1	26.1	20.6	16.7	13.8	11.6	10.7	9.9	8.5	7.4	6.5	5.7	5.1	4.6	4.1	3.7	3.4	3.1	2.9	2.6	2.4	2.2	2.1	1.9	1.8	L/150
	45.5	34.1	26.1	20.6	16.7	13.8	11.6	10.7	9.9	8.5	7.4	6.5	5.7	5.1	4.6	4.1	3.7	3.4	3.1	2.9	2.6	2.4	2.2	2.0	1.8	1.6	L/200
	45.5	34.1	26.1	20.6	16.7	13.8	11.6	10.7	9.9	8.5	7.4	6.5	5.7	5.1	4.5	3.8	3.3	2.8	2.4	2.1	1.9	1.6	1.4	1.3	1.1	1.0	L/300
	136.3	102.3	78.3	61.8	50.1	41.3	34.7	32.0	29.5	25.4	22.1	19.4	17.2	15.3	13.7	12.4	11.2	10.2	9.3	8.5	7.8	7.2	6.7	6.2	5.8	5.4	Break
38	49.5	39.2	30.0	23.7	19.2	15.8	13.3	12.3	11.3	9.8	8.5	7.5	6.6	5.9	5.3	4.7	4.3	3.9	3.6	3.3	3.0	2.8	2.6	2.4	2.2	2.1	L/150
	49.5	39.2	30.0	23.7	19.2	15.8	13.3	12.3	11.3	9.8	8.5	7.5	6.6	5.9	5.3	4.7	4.3	3.9	3.6	3.3	3.0	2.8	2.6	2.4	2.2	2.1	L/200
	49.5	39.2	30.0	23.7	19.2	15.8	13.3	12.3	11.3	9.8	8.5	7.5	6.6	5.9	5.3	4.7	4.3	3.9	3.6	3.2	2.8	2.4	2.2	1.9	1.7	1.5	L/300
	148.4	117.6	90.0	71.1	57.5	47.5	39.9	36.7	33.9	29.2	25.4	22.3	19.8	17.6	15.8	14.2	12.9	11.7	10.7	9.8	9.0	8.3	7.7	7.1	6.6	6.2	Break

The tables serve for pre-dimensioning and do not replace the structural analysis in individual cases.

LOAD TABLES
P4-BOARDS

Support spacing (centre distance) [cm], maximum permissible surface load with various thicknesses [mm], spans and bending criteria [kN/m] per meter of panel width – usage class 1 – LDC: moderate

Static system: single-span girder with point load.
Calculated values according to DIN EN 12369-1: 2001-04 / calculation according to DIN EN 1995-1-1: 2010-12



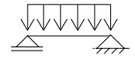
Thickness in mm	Support distance (centre distance) in cm																										Deflection criteria
	30	35	40	45	50	55	60	62,5	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	
16	2.4	2.0	1.8	1.5	1.2	1.0	0.8	0.7	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	L/150
	2.4	1.9	1.4	1.1	0.9	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	L/200
	1.7	1.2	0.9	0.7	0.6	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	L/300
	7.1	6.1	5.3	4.7	4.2	3.8	3.5	3.4	3.2	3.0	2.8	2.6	2.4	2.3	2.2	2.0	1.9	1.8	1.7	1.7	1.6	1.5	1.5	1.4	1.3	1.3	Break
18	3.0	2.6	2.2	2.0	1.7	1.4	1.2	1.1	1.0	0.8	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	L/150
	3.0	2.6	2.1	1.6	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	L/200
	2.4	1.8	1.4	1.1	0.8	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	L/300
	9.0	7.7	6.7	6.0	5.3	4.8	4.4	4.3	4.1	3.8	3.5	3.3	3.1	2.9	2.7	2.6	2.5	2.3	2.2	2.1	2.0	1.9	1.9	1.8	1.7	1.6	Break
19	3.3	2.9	2.5	2.2	2.0	1.7	1.4	1.3	1.2	1.0	0.9	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	L/150
	3.3	2.9	2.4	1.9	1.5	1.2	1.0	0.9	0.9	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	L/200
	2.9	2.1	1.6	1.2	1.0	0.8	0.7	0.6	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	L/300
	10.0	8.6	7.5	6.6	6.0	5.4	4.9	4.7	4.6	4.2	3.9	3.7	3.4	3.2	3.1	2.9	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	Break
22	3.9	3.3	2.9	2.6	2.3	2.1	1.9	1.8	1.7	1.5	1.3	1.1	0.9	0.8	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	L/150
	3.9	3.3	2.9	2.6	2.2	1.8	1.5	1.4	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	L/200
	3.9	3.0	2.3	1.8	1.5	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	L/300
	11.6	9.9	8.7	7.7	6.9	6.3	5.7	5.5	5.3	4.9	4.5	4.3	4.0	3.8	3.5	3.4	3.2	3.0	2.9	2.7	2.6	2.5	2.4	2.3	2.2	2.1	Break
25	5.0	4.3	3.7	3.3	3.0	2.7	2.5	2.4	2.3	2.1	1.9	1.6	1.4	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	L/150
	5.0	4.3	3.7	3.3	3.0	2.7	2.2	2.1	1.9	1.6	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.1	L/200
	5.0	4.3	3.4	2.7	2.2	1.8	1.5	1.3	1.2	1.0	0.9	0.8	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	L/300
	15.0	12.8	11.2	9.9	8.9	8.1	7.4	7.1	6.8	6.3	5.9	5.5	5.2	4.9	4.6	4.4	4.1	3.9	3.7	3.6	3.4	3.3	3.1	3.0	2.9	2.8	Break
28	5.3	4.6	4.0	3.5	3.2	2.9	2.6	2.5	2.4	2.3	2.1	2.0	1.8	1.6	1.4	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	L/150
	5.3	4.6	4.0	3.5	3.2	2.9	2.6	2.5	2.4	2.0	1.7	1.5	1.3	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	L/200
	5.3	4.6	4.0	3.3	2.7	2.2	1.8	1.7	1.5	1.3	1.1	1.0	0.8	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	L/300
	16.0	13.7	12.0	10.6	9.5	8.7	7.9	7.6	7.3	6.8	6.3	5.9	5.5	5.2	4.9	4.6	4.4	4.2	4.0	3.8	3.6	3.5	3.3	3.2	3.1	3.0	Break
30	6.1	5.2	4.6	4.1	3.7	3.3	3.0	2.9	2.8	2.6	2.4	2.3	2.1	2.0	1.7	1.5	1.4	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.6	0.5	L/150
	6.1	5.2	4.6	4.1	3.7	3.3	3.0	2.9	2.8	2.5	2.2	1.9	1.6	1.4	1.3	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	L/200
	6.1	5.2	4.6	4.1	3.3	2.7	2.3	2.1	1.9	1.6	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1	L/300
	18.3	15.7	13.7	12.2	11.0	9.9	9.1	8.7	8.4	7.8	7.2	6.8	6.3	6.0	5.6	5.3	5.1	4.8	4.6	4.4	4.2	4.0	3.8	3.7	3.5	3.4	Break
32	7.0	6.0	5.2	4.6	4.2	3.8	3.5	3.3	3.2	3.0	2.7	2.6	2.4	2.3	2.1	1.9	1.7	1.5	1.4	1.2	1.1	1.0	0.9	0.8	0.7	0.6	L/150
	7.0	6.0	5.2	4.6	4.2	3.8	3.5	3.3	3.2	3.0	2.6	2.3	2.0	1.8	1.6	1.4	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	L/200
	7.0	6.0	5.2	4.6	4.0	3.3	2.8	2.5	2.3	2.0	1.7	1.5	1.3	1.1	1.0	0.9	0.7	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	L/300
	20.9	17.9	15.6	13.9	12.5	11.3	10.4	9.9	9.5	8.8	8.2	7.7	7.2	6.8	6.4	6.1	5.8	5.5	5.2	5.0	4.8	4.6	4.4	4.2	4.1	3.9	Break
38	8.0	6.9	6.0	5.3	4.8	4.3	4.0	3.8	3.7	3.4	3.2	3.0	2.8	2.6	2.5	2.3	2.2	2.1	2.0	1.9	1.7	1.5	1.4	1.2	1.1	1.0	L/150
	8.0	6.9	6.0	5.3	4.8	4.3	4.0	3.8	3.7	3.4	3.2	3.0	2.8	2.6	2.3	2.1	1.8	1.6	1.5	1.3	1.2	1.1	1.0	0.9	0.8	0.7	L/200
	8.0	6.9	6.0	5.3	4.8	4.3	4.0	3.7	3.4	2.9	2.5	2.2	1.9	1.7	1.5	1.3	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.3	L/300
	24.0	20.5	18.0	15.9	14.3	13.0	11.9	11.4	11.0	10.2	9.5	8.8	8.3	7.8	7.4	7.0	6.6	6.3	6.0	5.7	5.5	5.3	5.0	4.8	4.6	4.5	Break

The tables serve for pre-dimensioning and do not replace the structural analysis in individual cases.

LOAD TABLES
P6-BOARDS

Support spacing (centre distance) [cm], maximum permissible surface load with various thicknesses [mm], spans and bending criteria [kN/m²] – usage class 1 – LDC: moderate

Static system: single-span girder with area load.
Calculated values according to DIN EN 12369-1: a2001-04 / calculation according to DIN EN 1995-1-1: 2010-12



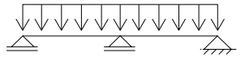
Thickness in mm	Support distance (centre distance) in cm																										Deflection criteria
	30	35	40	45	50	55	60	62.5	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	
16	20.4	15.0	11.0	7.7	5.6	4.2	3.2	2.8	2.5	2.0	1.6	1.3	1.1	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	L/150
	19.6	12.3	8.3	5.8	4.2	3.1	2.4	2.1	1.9	1.5	1.2	1.0	0.8	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	L/200
	13.0	8.2	5.5	3.8	2.8	2.1	1.6	1.4	1.2	0.9	0.8	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	L/300
	56.8	41.7	31.9	25.2	20.4	16.8	14.1	13.0	12.0	10.4	9.0	7.9	7.0	6.2	5.6	5.0	4.5	4.1	3.8	3.5	3.2	2.9	2.7	2.5	2.3	2.2	Break
18	25.8	19.0	14.5	11.0	8.0	6.0	4.6	4.1	3.6	2.9	2.3	1.9	1.6	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	L/150
	25.8	17.6	11.8	8.2	6.0	4.5	3.4	3.0	2.7	2.1	1.7	1.4	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	L/200
	18.6	11.7	7.8	5.5	4.0	2.9	2.2	2.0	1.7	1.4	1.1	0.9	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	L/300
	71.9	52.8	40.4	31.9	25.8	21.3	17.9	16.5	15.2	13.1	11.4	10.0	8.9	7.9	7.1	6.4	5.8	5.2	4.8	4.4	4.0	3.7	3.4	3.2	3.0	2.8	Break
19	28.8	21.1	16.2	12.8	9.4	7.1	5.4	4.8	4.2	3.4	2.7	2.2	1.8	1.5	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	L/150
	28.8	20.7	13.8	9.7	7.0	5.3	4.0	3.6	3.2	2.5	2.0	1.6	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	L/200
	21.8	13.7	9.2	6.4	4.7	3.5	2.7	2.3	2.1	1.6	1.3	1.1	0.9	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	L/300
	80.1	58.8	45.0	35.5	28.8	23.8	19.9	18.4	17.0	14.6	12.7	11.2	9.9	8.8	7.9	7.1	6.4	5.9	5.3	4.9	4.5	4.2	3.8	3.6	3.3	3.1	Break
22	34.2	25.1	19.2	15.2	12.3	9.4	7.2	6.4	5.6	4.5	3.6	3.0	2.5	2.0	1.7	1.5	1.2	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	L/150
	34.2	25.1	18.3	12.9	9.3	7.0	5.4	4.7	4.2	3.3	2.7	2.2	1.8	1.5	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	L/200
	28.8	18.2	12.2	8.5	6.2	4.6	3.5	3.1	2.8	2.2	1.7	1.4	1.2	1.0	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	L/300
	95.2	69.9	53.5	42.3	34.2	28.2	23.7	21.8	20.2	17.4	15.1	13.3	11.7	10.5	9.4	8.5	7.7	7.0	6.4	5.8	5.4	4.9	4.6	4.2	4.0	3.7	Break
25	44.2	32.4	24.8	19.6	15.9	13.1	10.6	9.4	8.3	6.6	5.4	4.4	3.6	3.0	2.6	2.2	1.9	1.6	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	L/150
	44.2	32.4	24.8	18.9	13.7	10.3	7.9	7.0	6.2	4.9	4.0	3.3	2.7	2.2	1.9	1.6	1.4	1.2	1.0	0.9	0.7	0.6	0.6	0.5	0.4	0.4	L/200
	42.1	26.6	17.9	12.5	9.1	6.8	5.2	4.6	4.1	3.2	2.6	2.1	1.7	1.4	1.2	1.0	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	L/300
	123.0	90.3	69.1	54.6	44.2	36.5	30.6	28.2	26.1	22.5	19.6	17.2	15.2	13.5	12.1	10.9	9.9	9.0	8.2	7.5	6.9	6.4	5.9	5.5	5.1	4.8	Break
28	52.1	38.2	29.3	23.1	18.7	15.5	13.0	12.0	11.0	8.8	7.1	5.8	4.8	4.1	3.4	2.9	2.5	2.1	1.9	1.6	1.4	1.2	1.1	1.0	0.8	0.7	L/150
	52.1	38.2	29.3	23.1	18.2	13.6	10.5	9.3	8.2	6.6	5.3	4.3	3.6	3.0	2.5	2.1	1.8	1.6	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	L/200
	52.1	35.1	23.6	16.6	12.1	9.0	6.9	6.1	5.4	4.3	3.5	2.8	2.3	1.9	1.6	1.4	1.2	1.0	0.8	0.7	0.6	0.5	0.5	0.4	0.3	0.3	L/300
	145.0	106.5	81.5	64.4	52.1	43.0	36.1	33.3	30.8	26.5	23.1	20.2	17.9	16.0	14.3	12.9	11.7	10.6	9.7	8.9	8.2	7.6	7.0	6.5	6.0	5.6	Break
30	59.8	43.9	33.6	26.5	21.5	17.7	14.9	13.7	12.7	10.8	8.8	7.2	6.0	5.0	4.2	3.6	3.1	2.7	2.3	2.0	1.8	1.5	1.4	1.2	1.1	0.9	L/150
	59.8	43.9	33.6	26.5	21.5	16.8	12.9	11.4	10.1	8.1	6.5	5.4	4.4	3.7	3.1	2.7	2.3	2.0	1.7	1.5	1.3	1.1	1.0	0.9	0.8	0.7	L/200
	59.8	43.1	29.0	20.4	14.8	11.1	8.5	7.5	6.7	5.3	4.3	3.5	2.9	2.4	2.0	1.7	1.5	1.2	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	L/300
	166.5	122.3	93.6	73.9	59.8	49.4	41.5	38.2	35.3	30.4	26.5	23.3	20.6	18.3	16.4	14.8	13.4	12.2	11.2	10.2	9.4	8.7	8.1	7.5	7.0	6.5	Break
32	68.0	50.0	38.2	30.2	24.4	20.2	17.0	15.6	14.4	12.4	10.7	8.8	7.3	6.1	5.2	4.4	3.8	3.3	2.8	2.5	2.2	1.9	1.7	1.5	1.3	1.2	L/150
	68.0	50.0	38.2	30.2	24.4	20.2	15.7	13.9	12.3	9.8	8.0	6.5	5.4	4.5	3.8	3.3	2.8	2.4	2.1	1.8	1.6	1.4	1.2	1.1	0.9	0.8	L/200
	68.0	50.0	35.1	24.7	18.0	13.5	10.4	9.2	8.1	6.5	5.2	4.3	3.5	3.0	2.5	2.1	1.8	1.5	1.3	1.1	1.0	0.9	0.7	0.6	0.6	0.5	L/300
	189.4	139.1	106.5	84.1	68.1	56.2	47.2	43.5	40.2	34.6	30.1	26.5	23.4	20.9	18.7	16.9	15.3	13.9	12.7	11.7	10.7	9.9	9.2	8.5	7.9	7.4	Break
38	89.8	65.9	50.5	39.9	32.3	26.7	22.4	20.6	19.1	16.4	14.3	12.6	11.1	9.7	8.2	7.0	6.0	5.2	4.5	4.0	3.5	3.1	2.7	2.4	2.1	1.9	L/150
	89.8	65.9	50.5	39.9	32.3	26.7	22.4	20.6	19.1	15.5	12.6	10.3	8.6	7.2	6.1	5.2	4.5	3.8	3.3	2.9	2.6	2.2	2.0	1.8	1.6	1.4	L/200
	89.8	65.9	50.5	38.7	28.3	21.2	16.4	14.5	12.8	10.2	8.3	6.8	5.6	4.7	4.0	3.4	2.9	2.5	2.1	1.9	1.6	1.4	1.2	1.1	1.0	0.8	L/300
	250.1	183.7	140.6	111.0	89.9	74.2	62.3	57.4	53.1	45.7	39.8	35.0	31.0	27.6	24.7	22.3	20.2	18.4	16.8	15.4	14.2	13.1	12.1	11.3	10.5	9.8	Break

The tables serve for pre-dimensioning and do not replace the structural analysis in individual cases.

LOAD TABLES
P6-BOARDS

Support spacing (center distance) [cm], maximum permissible surface load with different thicknesses [mm], spans and bending criteria [kN/m²] – usage class 1 – LDC: moderate

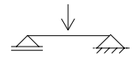
Static system: double span beams with surface load, which affects both areas simultaneously
Calculated values according to DIN EN 12369-1:2001-04 / calculation according to DIN EN 1995-1-1: 2010-12



Thickness in mm	Support distance (centre distance) in cm																										Deflection criteria
	30	35	40	45	50	55	60	62.5	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	
16	20.4	15.0	11.5	9.0	7.3	6.0	5.1	4.7	4.3	3.7	3.2	2.8	2.5	2.2	1.9	1.6	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	L/150
	20.4	15.0	11.5	9.0	7.3	6.0	5.1	4.7	4.3	3.7	3.0	2.4	2.0	1.7	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	L/200
	20.4	15.0	11.5	9.0	6.7	5.0	3.9	3.4	3.0	2.4	1.9	1.6	1.3	1.1	0.9	0.8	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	L/300
	56.8	41.7	31.9	25.2	20.4	16.8	14.1	13.0	12.0	10.4	9.0	7.9	7.0	6.2	5.6	5.0	4.5	4.1	3.8	3.5	3.2	2.9	2.7	2.5	2.3	2.2	Break
18	25.8	19.0	14.5	11.5	9.3	7.7	6.4	5.9	5.5	4.7	4.1	3.6	3.2	2.8	2.5	2.3	2.0	1.7	1.5	1.3	1.1	1.0	0.9	0.8	0.7	0.6	L/150
	25.8	19.0	14.5	11.5	9.3	7.7	6.4	5.9	5.5	4.7	4.1	3.5	2.9	2.4	2.0	1.7	1.5	1.3	1.1	1.0	0.8	0.7	0.6	0.6	0.5	0.4	L/200
	25.8	19.0	14.5	11.5	9.3	7.2	5.5	4.9	4.3	3.4	2.8	2.3	1.9	1.6	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	L/300
	71.9	52.8	40.4	31.9	25.8	21.3	17.9	16.5	15.2	13.1	11.4	10.0	8.9	7.9	7.1	6.4	5.8	5.2	4.8	4.4	4.0	3.7	3.4	3.2	3.0	2.8	Break
19	28.8	21.1	16.2	12.8	10.3	8.5	7.2	6.6	6.1	5.3	4.6	4.0	3.6	3.2	2.8	2.6	2.3	2.0	1.8	1.6	1.4	1.2	1.1	0.9	0.8	0.7	L/150
	28.8	21.1	16.2	12.8	10.3	8.5	7.2	6.6	6.1	5.3	4.6	4.0	3.4	2.8	2.4	2.0	1.7	1.5	1.3	1.1	1.0	0.9	0.8	0.7	0.6	0.5	L/200
	28.8	21.1	16.2	12.8	10.3	8.5	6.5	5.7	5.1	4.1	3.3	2.7	2.2	1.9	1.6	1.3	1.1	1.0	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	L/300
	80.1	58.8	45.0	35.5	28.8	23.8	19.9	18.4	17.0	14.6	12.7	11.2	9.9	8.8	7.9	7.1	6.4	5.9	5.3	4.9	4.5	4.2	3.8	3.6	3.3	3.1	Break
22	34.2	25.1	19.2	15.2	12.3	10.1	8.5	7.8	7.3	6.2	5.4	4.8	4.2	3.8	3.4	3.0	2.8	2.5	2.3	2.1	1.8	1.6	1.4	1.3	1.1	1.0	L/150
	34.2	25.1	19.2	15.2	12.3	10.1	8.5	7.8	7.3	6.2	5.4	4.8	4.2	3.8	3.2	2.7	2.3	2.0	1.7	1.5	1.3	1.2	1.0	0.9	0.8	0.7	L/200
	34.2	25.1	19.2	15.2	12.3	10.1	8.5	7.6	6.8	5.4	4.4	3.6	3.0	2.5	2.1	1.8	1.5	1.3	1.1	1.0	0.8	0.7	0.6	0.6	0.5	0.4	L/300
	95.2	69.9	53.5	42.3	34.2	28.2	23.7	21.8	20.2	17.4	15.1	13.3	11.7	10.5	9.4	8.5	7.7	7.0	6.4	5.8	5.4	4.9	4.6	4.2	4.0	3.7	Break
25	44.2	32.4	24.8	19.6	15.9	13.1	11.0	10.1	9.4	8.1	7.0	6.2	5.5	4.9	4.4	3.9	3.6	3.2	3.0	2.7	2.5	2.3	2.1	1.9	1.7	1.5	L/150
	44.2	32.4	24.8	19.6	15.9	13.1	11.0	10.1	9.4	8.1	7.0	6.2	5.5	4.9	4.4	3.9	3.5	3.0	2.6	2.3	2.0	1.8	1.6	1.4	1.2	1.1	L/200
	44.2	32.4	24.8	19.6	15.9	13.1	11.0	10.1	9.4	7.9	6.4	5.3	4.4	3.7	3.1	2.6	2.3	1.9	1.7	1.5	1.3	1.1	1.0	0.9	0.8	0.7	L/300
	123.0	90.3	69.1	54.6	44.2	36.5	30.6	28.2	26.1	22.5	19.6	17.2	15.2	13.5	12.1	10.9	9.9	9.0	8.2	7.5	6.9	6.4	5.9	5.5	5.1	4.8	Break
28	52.1	38.2	29.3	23.1	18.7	15.5	13.0	12.0	11.1	9.5	8.3	7.3	6.4	5.7	5.1	4.6	4.2	3.8	3.5	3.2	3.0	2.7	2.5	2.3	2.2	2.0	L/150
	52.1	38.2	29.3	23.1	18.7	15.5	13.0	12.0	11.1	9.5	8.3	7.3	6.4	5.7	5.1	4.6	4.2	3.8	3.5	3.0	2.7	2.4	2.1	1.9	1.7	1.5	L/200
	52.1	38.2	29.3	23.1	18.7	15.5	13.0	12.0	11.1	9.5	8.3	7.0	5.8	4.9	4.1	3.5	3.0	2.6	2.3	2.0	1.7	1.5	1.3	1.2	1.0	0.9	L/300
	145.0	106.5	81.5	64.4	52.1	43.0	36.1	33.3	30.8	26.5	23.1	20.2	17.9	16.0	14.3	12.9	11.7	10.6	9.7	8.9	8.2	7.6	7.0	6.5	6.0	5.6	Break
30	59.8	43.9	33.6	26.5	21.5	17.7	14.9	13.7	12.7	10.9	9.5	8.4	7.4	6.6	5.9	5.3	4.8	4.4	4.0	3.7	3.4	3.1	2.9	2.7	2.5	2.3	L/150
	59.8	43.9	33.6	26.5	21.5	17.7	14.9	13.7	12.7	10.9	9.5	8.4	7.4	6.6	5.9	5.3	4.8	4.4	4.0	3.7	3.3	2.9	2.6	2.3	2.1	1.8	L/200
	59.8	43.9	33.6	26.5	21.5	17.7	14.9	13.7	12.7	10.9	9.5	8.4	7.2	6.0	5.1	4.4	3.7	3.2	2.8	2.5	2.1	1.9	1.7	1.5	1.3	1.2	L/300
	166.5	122.3	93.6	73.9	59.8	49.4	41.5	38.2	35.3	30.4	26.5	23.3	20.6	18.3	16.4	14.8	13.4	12.2	11.2	10.2	9.4	8.7	8.1	7.5	7.0	6.5	Break
32	68.0	50.0	38.2	30.2	24.4	20.2	17.0	15.6	14.4	12.4	10.8	9.5	8.4	7.5	6.7	6.1	5.5	5.0	4.6	4.2	3.9	3.6	3.3	3.1	2.9	2.7	L/150
	68.0	50.0	38.2	30.2	24.4	20.2	17.0	15.6	14.4	12.4	10.8	9.5	8.4	7.5	6.7	6.1	5.5	5.0	4.6	4.2	3.9	3.6	3.2	2.8	2.5	2.3	L/200
	68.0	50.0	38.2	30.2	24.4	20.2	17.0	15.6	14.4	12.4	10.8	9.5	8.4	7.3	6.2	5.3	4.6	3.9	3.4	3.0	2.6	2.3	2.1	1.8	1.6	1.4	L/300
	189.4	139.1	106.5	84.1	68.1	56.2	47.2	43.5	40.2	34.6	30.1	26.5	23.4	20.9	18.7	16.9	15.3	13.9	12.7	11.7	10.7	9.9	9.2	8.5	7.9	7.4	Break
38	82.4	65.9	50.5	39.9	32.3	26.7	22.4	20.6	19.1	16.4	14.3	12.6	11.1	9.9	8.9	8.0	7.3	6.6	6.0	5.5	5.1	4.7	4.4	4.1	3.8	3.5	L/150
	82.4	65.9	50.5	39.9	32.3	26.7	22.4	20.6	19.1	16.4	14.3	12.6	11.1	9.9	8.9	8.0	7.3	6.6	6.0	5.5	5.1	4.7	4.4	4.1	3.8	3.5	L/200
	82.4	65.9	50.5	39.9	32.3	26.7	22.4	20.6	19.1	16.4	14.3	12.6	11.1	9.9	8.9	8.0	7.2	6.3	5.5	4.8	4.2	3.7	3.3	2.9	2.6	2.3	L/300
	229.5	183.7	140.6	111.0	89.9	74.2	62.3	57.4	53.1	45.7	39.8	35.0	31.0	27.6	24.7	22.3	20.2	18.4	16.8	15.4	14.2	13.1	12.1	11.3	10.5	9.8	Break

The tables serve for pre-dimensioning and do not replace the structural analysis in individual cases.

Static system: single-span girder with point load.
Calculated values according to DIN EN 12369-1: 2001-04 / calculation according to DIN EN 1995-1-1: 2010-12



Thickness in mm	Support distance (centre distance) in cm																										Deflection criteria
	30	35	40	45	50	55	60	62,5	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	
16	3.1	2.6	2.3	2.0	1.7	1.4	1.2	1.1	1.0	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	L/150
	3.1	2.6	2.0	1.6	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	L/200
	2.4	1.8	1.4	1.1	0.8	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	L/300
	8.5	7.3	6.4	5.6	5.1	4.6	4.2	4.0	3.9	3.6	3.3	3.1	2.9	2.8	2.6	2.5	2.3	2.2	2.1	2.0	1.9	1.8	1.8	1.7	1.6	1.6	Break
18	3.9	3.3	2.9	2.6	2.3	2.0	1.7	1.6	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	L/150
	3.9	3.3	2.9	2.3	1.8	1.5	1.3	1.2	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	L/200
	3.5	2.5	1.9	1.5	1.2	1.0	0.8	0.7	0.7	0.6	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	L/300
	10.8	9.2	8.1	7.2	6.4	5.8	5.3	5.1	4.9	4.6	4.2	4.0	3.7	3.5	3.3	3.1	3.0	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	Break
19	4.3	3.7	3.2	2.9	2.6	2.3	2.0	1.8	1.7	1.4	1.2	1.1	0.9	0.8	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	L/150
	4.3	3.7	3.2	2.7	2.2	1.8	1.5	1.4	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	L/200
	4.1	3.0	2.3	1.8	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	L/300
	12.0	10.3	9.0	8.0	7.2	6.5	5.9	5.7	5.5	5.1	4.7	4.4	4.2	3.9	3.7	3.5	3.3	3.2	3.0	2.9	2.7	2.6	2.5	2.4	2.3	2.2	Break
22	5.1	4.4	3.8	3.4	3.1	2.8	2.5	2.4	2.3	1.9	1.7	1.4	1.3	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	L/150
	5.1	4.4	3.8	3.4	2.9	2.4	2.0	1.8	1.7	1.4	1.2	1.1	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	L/200
	5.1	3.9	3.0	2.4	1.9	1.6	1.3	1.2	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	L/300
	14.3	12.2	10.7	9.5	8.5	7.7	7.1	6.8	6.5	6.0	5.6	5.3	4.9	4.6	4.4	4.2	3.9	3.8	3.6	3.4	3.3	3.1	3.0	2.9	2.8	2.7	Break
25	6.6	5.7	5.0	4.4	4.0	3.6	3.3	3.2	3.0	2.8	2.5	2.1	1.9	1.7	1.5	1.3	1.2	1.0	0.9	0.8	0.7	0.7	0.6	0.5	0.5	0.4	L/150
	6.6	5.7	5.0	4.4	4.0	3.5	2.9	2.7	2.5	2.1	1.8	1.6	1.4	1.2	1.1	0.9	0.8	0.7	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.3	L/200
	6.6	5.7	4.4	3.5	2.8	2.3	1.9	1.8	1.6	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	L/300
	18.4	15.8	13.8	12.2	11.0	10.0	9.1	8.8	8.4	7.8	7.3	6.8	6.4	6.0	5.7	5.4	5.1	4.9	4.6	4.4	4.2	4.1	3.9	3.7	3.6	3.5	Break
28	7.8	6.7	5.8	5.2	4.7	4.2	3.9	3.7	3.6	3.3	3.1	2.9	2.5	2.2	2.0	1.8	1.6	1.4	1.3	1.1	1.0	0.9	0.8	0.7	0.7	0.6	L/150
	7.8	6.7	5.8	5.2	4.7	4.2	3.9	3.6	3.3	2.8	2.4	2.1	1.9	1.6	1.4	1.3	1.1	1.0	0.9	0.8	0.7	0.6	0.6	0.5	0.4	0.4	L/200
	7.8	6.7	5.8	4.6	3.7	3.1	2.6	2.3	2.2	1.8	1.6	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	L/300
	21.7	18.6	16.3	14.4	13.0	11.8	10.8	10.3	9.9	9.2	8.6	8.0	7.5	7.1	6.7	6.4	6.0	5.8	5.5	5.2	5.0	4.8	4.6	4.4	4.3	4.1	Break
30	9.0	7.7	6.7	6.0	5.4	4.9	4.5	4.3	4.1	3.8	3.5	3.3	3.1	2.8	2.5	2.2	2.0	1.8	1.6	1.4	1.3	1.2	1.1	1.0	0.9	0.8	L/150
	9.0	7.7	6.7	6.0	5.4	4.9	4.5	4.3	4.1	3.5	3.0	2.6	2.3	2.0	1.8	1.6	1.4	1.3	1.1	1.0	0.9	0.8	0.7	0.7	0.6	0.5	L/200
	9.0	7.7	6.7	5.7	4.6	3.8	3.2	2.9	2.7	2.3	2.0	1.7	1.5	1.3	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	L/300
	24.9	21.4	18.7	16.6	14.9	13.5	12.4	11.9	11.4	10.6	9.9	9.2	8.7	8.2	7.7	7.3	7.0	6.6	6.3	6.0	5.8	5.5	5.3	5.1	4.9	4.7	Break
32	10.2	8.7	7.6	6.8	6.1	5.5	5.1	4.9	4.7	4.3	4.0	3.8	3.6	3.4	3.0	2.7	2.4	2.2	2.0	1.8	1.6	1.5	1.3	1.2	1.1	1.0	L/150
	10.2	8.7	7.6	6.8	6.1	5.5	5.1	4.9	4.7	4.2	3.7	3.2	2.8	2.5	2.2	2.0	1.8	1.6	1.4	1.3	1.1	1.0	0.9	0.8	0.7	0.7	L/200
	10.2	8.7	7.6	6.8	5.6	4.6	3.8	3.5	3.3	2.8	2.4	2.1	1.8	1.6	1.4	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	L/300
	28.4	24.3	21.3	18.9	17.0	15.4	14.1	13.5	13.0	12.1	11.2	10.5	9.9	9.3	8.8	8.3	7.9	7.5	7.2	6.9	6.6	6.3	6.1	5.8	5.6	5.4	Break
38	13.5	11.5	10.1	9.0	8.1	7.3	6.7	6.4	6.2	5.7	5.3	5.0	4.7	4.4	4.2	4.0	3.8	3.5	3.2	2.9	2.6	2.4	2.2	2.0	1.8	1.7	L/150
	13.5	11.5	10.1	9.0	8.1	7.3	6.7	6.4	6.2	5.7	5.3	5.0	4.5	4.0	3.5	3.2	2.8	2.5	2.3	2.1	1.9	1.7	1.6	1.4	1.3	1.2	L/200
	13.5	11.5	10.1	9.0	8.1	7.2	6.1	5.6	5.1	4.4	3.8	3.3	2.9	2.6	2.3	2.0	1.8	1.6	1.4	1.3	1.2	1.0	0.9	0.8	0.7	0.7	L/300
	37.5	32.1	28.1	24.9	22.4	20.4	18.6	17.9	17.2	15.9	14.8	13.9	13.1	12.3	11.6	11.0	10.5	10.0	9.5	9.1	8.7	8.4	8.0	7.7	7.4	7.2	Break

The tables serve for pre-dimensioning and do not replace the structural analysis in individual cases.

GLOSSARY

Surface soundness

The surface soundness describes the force required to separate the top layer of a chipboard. In the test, a steel pad is bonded with adhesive on the board, into which a circular groove has been cut. The steel pad is then drawn upwards with increasing force until the surface tears. The boards must achieve a value of at least 0.8 N/mm². This applies to all thicknesses.

Bending strength

The bending strength describes the bending behaviour of a chipboard under loading and is measured in N/mm². During the test a defined weight presses vertically in the middle of a chipboard, which is supported on the left and right only. The load is increased during the test, whereby the respective board deflection is measured and recorded. The value given in the technical tables indicates the minimum load a board can be exposed to without breaking. The bending strength depends on the board thickness; the thinner the board, the higher the bending strength. This apparent contradiction is related to the applied point load or greater stiffness of the thicker boards.

CE marking

The CE marking (CE stands for Communauté Européenne = French for European Community) is a marking under EU law related to product safety. Since 01/04/2004, CE marking has been mandatory for chipboards that are a construction product. With the CE marking, the manufacturer confirms the conformity of the product with the relevant EC directives and compliance with the "essential requirements" defined in them.

DIN

DIN stands for "Deutsches Institut für Normung e. V." and is the German national standards organisation based in Berlin. Standards are used to rationalise, inform, for fitness for use, quality assurance, compatibility, replaceability, health and safety and environmental protection. Examples for standards in wood-based panel production:

a. DIN EN 312 (particleboards)
b. DIN EN 622 (MDF)
c. DIN EN 14322 (melamine faced boards)

E1

All wood-based panels produced or sold in Germany must comply with class E1 emission limits. E1 means that the maximum emission of formaldehyde is 0.1 ppm (parts per million). Measured according to DIN EN 16516. No other wood-based panels are permitted in Germany.

Modulus of elasticity

The modulus of elasticity in bending (flexural modulus) gives the ratio of stress and strain within the elastic range of a material and its units are N/mm². The value describes the maximum force with which a board can be extended and, after the force has been removed, returns to its original shape.

ISO

The "International Organization for Standardization" – or ISO for short – is the international association of standardisation organisations and draws up international standards in all areas except electrics and electronics.

ISO 9001

Quality Management defines minimum requirements for the quality management system, which a company has to meet to achieve certification.

ISO 14001

Defines minimum requirements for an environmental management system. The objective is to minimise environmental impacts in line with economic, social and political requirements.

Kelvin

The unit for the thermodynamic temperature T is the Kelvin K. The gradation of the Kelvin scale is the same as that of the Celsius scale. These scales are only shifted by the constant value 273.15, where the Celsius scale has its zero point at the freezing point of water (ice point) and the Kelvin scale has its zero point at the absolute temperature zero point (–273.15 °C).

LDC – load duration class

The load duration class describes the period during which the load-bearing system is exposed to a defined load and is divided into the following classes:

Continuous: longer than 10 years
Long: 6 months to 10 years
Moderate: 1 week to 6 months
Short: less than 1 week

Melamine faced board

Melamine resin overlay facing, DecoBoard: Paper impregnated with resin is pressed directly onto a raw board.

Service class

Service class 1: Dry conditions
Service class 2: Humid conditions
Service class 3: Exterior conditions

ppm

Parts per million (ppm) stands for the number 10^{-6} and is used in science to denote one millionth, in the same ways as percent (%) for the number 10^{-2} and for one hundredth. In the case of wood-based panels, the term is related to formaldehyde measurement and definition of emission classes. In Germany, only wood-based panels with at least emission class 1 (E1) may be produced and distributed. The formaldehyde content may not exceed 0.1 ppm maximum in the test chamber.

Transverse tensile strength

The transverse tensile strength indicates the force the board can withstand perpendicular to the board plane before it fails (tensile force). It is measured in N/mm². The transverse tensile strength is also dependent on the thickness of a board. This value indicates the load a board can be exposed to before it cracks. The thinner a board, the higher the value of its transverse tensile strength. The reason for this is the higher density and thus the higher compaction in thin boards.

RAL UZ 76 – "Blauer Engel" (Blue Angel)

In the wood-based panel segment it is also possible to have particularly environmentally friendly products marked with the "Blauer Engel" ("blue angel"). Formaldehyde emissions are an important criterion for the award of the "Blue Angel" for chipboards. Boards with around 50 % lower emissions than standard boards due to the use of so-called formaldehyde scavengers are issued the environmental symbol RAL UZ 76 – the Blue Angel, because they are low-emission products. To receive this environmental symbol, the boards are certified by the RAL Institute.

Density

Density (aka apparent density, bulk density, dry density) is the mass (weight) per unit volume of a board. The weight is given in kg/m³.
The density fluctuates depending on board thickness; the thicker a board is the lighter its weight.

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