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Pfleiderer employs wood from certified sustainable forest management using the PEFC system.

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Our General Terms and Conditions can be found on our Internet website: www.pfleiderer.com

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DUROPAL

wodego

thermopal

 PFLEIDERER

Lightweight construction

Products – Processing – Application



Pfleiderer – the best of all worlds.





Pfleiderer unites three strong brands to create a new image with the greatest market penetration in the wood based panels sector. All the products, services and benefits currently offered by our specialists Duropal, wodego and Thermopal are now united in one company:

Duropal – the HPL and element specialist

wodego – the engineered wood partner with boards for all applications

Thermopal – the system partner for sophisticated interior design

You benefit from this new united strength with combined experience, increased know-how and simplified processes.

Pfleiderer – one brand, many benefits.

Pfleiderer is the number one partner for trade, industry, DIY, specifiers and architects – with an industry-leading range of products and individual services:

- Raw particleboard and fibreboard in different qualities and forms, decorative panels, laminates, compact HPL, HPL elements and worktops
- A new, industry-leading complete programme for core materials, decors and surfaces
- The unique DST system (design – surface – core technology)
- Special product ranges for doors, fire protection, lightweight construction, shipbuilding and green building applications
- Individual services in supply chain and marketing

Together we can develop tailor-made solutions for your ideas.
Take advantage of Pfleiderer's combined strengths for your success!



Lightweight construction

Lightweight is important not only in the design, but also – depending on the requirements – in the choice of material. In such cases it is important that the material used has a low weight, but also a high compressive strength that satisfies the highest design demands.

At Pfleiderer you will find the right lightweight construction panel to meet every requirement:

Raw core materials

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Melamine faced decorative panel

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- Lightweight construction panels which impress during processing
- Dimensions to minimise cutting waste
- Available as DecoBoard or with robust HPL surface
- Panels can be used without bars



BalanceBoard – naturally light, naturally sustainable.

The way to combine ecology and economy: Thanks to a high percentage of rapid-growing raw materials, BalanceBoard offers a weight reduction up to 30 % – with the same safety stability and ease of processing as our other raw materials. Available as PEFC or FSC-certified, on request, the panel also satisfies the highest demands on sustainability.

BalanceBoard has been commended with:

- Innovation Prize of the architecture magazines AIT and xia (“Special Sustainability Prize”)
- Interzum Award 2011: High product quality
- DesignPlus 2011 materialvision
- iF award product design 2012
- Woody Award from the Gesamtverband Deutscher Holzhandel (GD Holz): Innovative Product 2011

BalanceBoard has been nominated for:

- Innovation Prize Innovative Biomaterials 2011
- German Design Award 2012 and 2013

BalanceBoard

Sustainable, ecological material of wood and light biomass pellets based on rapid-growing annually harvested plants. Technical properties in line with EN 312.

Areas of application: BalanceBoard is a sustainable, ecological, lightweight yet durable material. Wood is used very sparingly and responsibly; a large proportion has been replaced by rapid-growing plants. This panel is just as durable and easy to process as comparable conventional chipboards.

Format in mm

Length	Width	Thickness
2,655	2,100	16 / 18 / 19 / 22 / 25 / 28 / 38
5,310	2,100	16 / 18 / 19 / 22 / 25 / 28 / 38

Product properties

Board type	in line with P2
Fire behaviour	Normally flammable B2
Formaldehyde emission class	E1



DecoBoard Balance

Weight-reduced chipboard core and resource-conserving annually growing plants for the highest demands on ecology and sustainability, with decorative melamine resin direct lamination on both sides.

Areas of application: In interior design for furniture and installations, shop fitting and trade fair construction. In hotel and ship interior fitting, especially where ecologically sustainable and weight-reduced materials are required.

Format in mm			Textures
Length	Width	Thickness	
2,655	2,100	16 / 18 / 19 / 22 / 25 / 28 / 38	ML* / MO* / MP / RU / SM* / VV
5,310	2,100	16 / 18 / 19 / 22 / 25 / 28 / 38	ML* / MO* / MP / RU / SM* / VV

* Only available on request.

Product properties

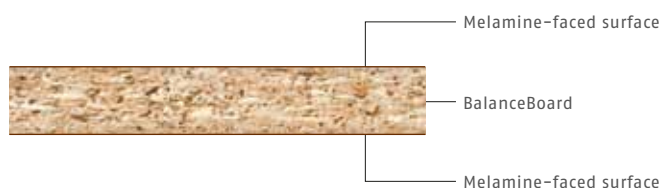
Core material	BalanceBoard Sustainable, ecological material of wood and light biomass pellets based on rapid-growing annually harvested plants. Technical properties in line with EN 312.
Raw density	500 kg/m ³ ± 10%
Fire behaviour	Normally flammable B2
Formaldehyde emission class	E1

BalanceBoard was commended with:

- Innovation Prize of the architecture magazines AIT and xia ("Special Sustainability Prize")
- Interzum Award 2011: High product quality
- DesignPlus 2011 materialvision
- iF award product design 2012
- Woody Award from the Gesamtverband Deutscher Holzhandel (GD Holz): Innovative Product 2011

BalanceBoard was nominated for:

- Innovation Prize Innovative Biomaterials 2011
- German Design Award 2012 and 2013



Duropal-Element Balance

Weight-reduced chipboard core and resource-conserving annually growing plants for the highest demands on ecology and sustainability, faced on both sides with Duropal-HPL or Duropal-HPL Metallic.

Areas of application: For interior fitting and furniture in both private and public premises, such as in hotels, schools, administration buildings or in shop fitting, particularly where ecologically sustainable and weight-reduced solutions with the highest surface properties are demanded.

Format in mm		HPL thickness	Overall thickness	Textures
Length	Width	in mm	in mm	
2,650	2,070	0.8	20.6	AH / LI / MO / MP / NH / RU / TC / VV
5,310	2,070	0.8	20.6	AH / LI / MO / MP / NH / RU / TC / VV

Product properties

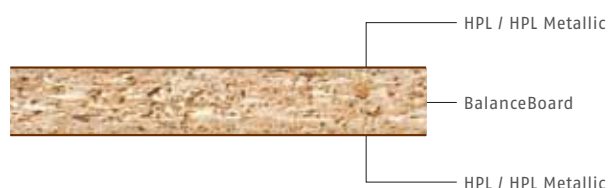
Core material	BalanceBoard Sustainable, ecological material of wood and light biomass pellets based on rapid-growing annually harvested plants. Technical properties in line with EN 312.
Raw density	500 kg/m ³ ± 10%
Fire behaviour	Normally flammable B2
Formaldehyde emission class	E1

BalanceBoard was commended with:

- Innovation Prize of the architecture magazines AIT and xia ("Special Sustainability Prize")
- Interzum Award 2011: High product quality
- DesignPlus 2011 materialvision
- iF award product design 2012
- Woody Award from the Gesamtverband Deutscher Holzhandel (GD Holz): Innovative Product 2011

BalanceBoard was nominated for:

- Innovation Prize Innovative Biomaterials 2011
- German Design Award 2012 and 2013



Duropal-Element Poplar Veneer

Poplar veneer panel, glued AW 100 moisture-resistant, faced on both sides with Duropal-HPL or Duropal-HPL Metallic. For the highest demands on moisture resistance and durability with low weight properties.

Areas of application: In damp areas and for high static demands on the panel material and with a durable surface: In shop and general interior fitting, for bathroom furniture and thanks to the low weight also in ship interior fitting, in motor vehicle construction and for trade fair and exhibition systems.

Format in mm		HPL thickness	Overall thickness	Textures
Length	Width	in mm	in mm	
2,800	2,070	0.8	16.6 / 19.6	AH / LI / MO / MP / NH / RU / TC / VV

Product properties

Core material	Poplar veneer panel Veneer panel made from poplar plywood, AW 100 glued for a particularly high resistance to humidity. Technical values to DIN EN 636.
Raw density	approx. 450 kg/m ³
Fire behaviour	Normally flammable B2
Formaldehyde emission class	E1



Duropal-Element Veneer Blockboard SL

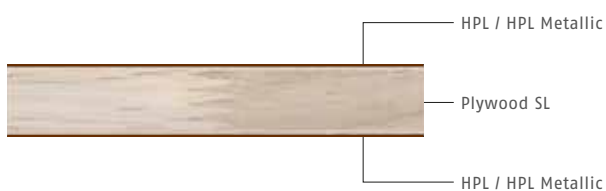
Extra lightweight veneer blockboard with albasia middle layer, faced on both sides with Duropal-HPL or Duropal-HPL Metallic, for the highest demands on stability, durability and weight savings.

Areas of application: For very high demands on the board material, particularly with respect to bending and lightweight requirements in conjunction with an extremely durable surface quality: In motor vehicle and trade fair construction, in exclusive interior and ship interior fitting, in library, shop and chemist fitting, for the office furniture sector, especially suitable for filing cabinets, shelving, showcases, etc.

Format in mm		HPL thickness	Overall thickness	Textures
Length	Width	in mm	in mm	
2,600	2,070	0.8	17.6 / 20.6	AH / LI / MO / MP / NH / RU / TC / VV
5,200	2,070	0.8	17.6 / 20.6	AH / LI / MO / MP / NH / RU / TC / VV

Product properties

Core material	Veneer blockboard SL Extra-light laminboard of albasia with finger-jointed middle layer, suitable for durable and flexible indoor lightweight construction elements.
Raw density	approx. 300 – 320 kg/m ³ .
Formaldehyde emission class	E1



DecoBoard Paper Honeycomb

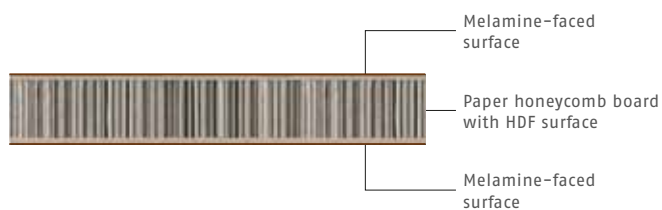
Decorative, frameless lightweight construction panel with SWAP paper honeycomb core, faced on both sides with a 3.2 mm HDF deck and melamine resin laminated two-sheet construction.

Areas of application: Decorative and general furniture production and for furnishing and interior fittings in shipbuilding, motor vehicle construction and caravan production. In trade fair construction and shop fitting e. g. for displays, partition walls and mobile elements. The material is not suitable for the production of worktops.

Format in mm			Textures
Length	Width	Thickness	
2,800	2,100	25.4 / 40.4 / 50.4	AH / HG / LI / ML / MO / MP / NH / RU / SM / VV

Product properties

Core material	Paper honeycomb core board with HDF surface Frameless paper honeycomb core board of sturdy corrugated core construction (SWAP), faced on both sides with an HDF surface.
Raw density	approx. 230 – 440 kg/m ³



Duropal-Element Paper Honeycomb

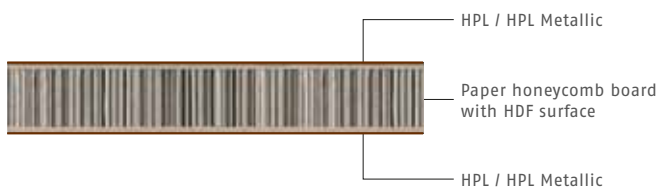
Frameless lightweight construction panel made from a particularly sturdy SWAP paper honeycomb core, faced on both sides with Duropal-HPL or Duropal-HPL Metallic. Thanks to the HDF intermediate layer, classic fittings, connectors and the conventional edge forming technologies can be employed.

Areas of application: Lightweight construction solutions in decorative and general furniture production and interior fitting in the private and public sector, in shipbuilding, motor vehicle construction and caravan production. As tabletops and worktops in offices and conference rooms. In trade fair construction and shop fitting e.g. for displays, partition walls and mobile elements.

Format in mm		HPL thickness	Overall thickness	Textures
Length	Width	in mm	in mm	
2,800	2,070	0.8	27 / 42 / 52	AH / HG / LI / ML / MO / MP / NH / RU / SM / TC / VV

Product properties

Core material	Paper honeycomb core board with HDF surface Frameless paper honeycomb core board of sturdy corrugated core construction (SWAP), faced on both sides with an HDF surface.
Raw density	approx. 230 – 440 kg/m ³



Processing of honeycomb panels

General information and processing recommendations

Machines and Tools¹⁾	Processing can be carried out on all conventional processing lines and processing centres. Conventional carbide-tipped tools are suitable for cutting and processing.
Edge solution¹⁾	The use of thick edges is recommended. Thin edges are suitable only when using a supporting edge at the same time. EVA and PUR hotmelts are recommended for edge bonding. The glue should be applied opposite the workpiece grain.
Fitting and joining solutions¹⁾	Please pay attention to proper processing and installation requirements.
Installation and conditioning	Adequate conditioning is necessary before installation. The premises must be correctly climatized.
Occupational health and safety	Please wear personal protective equipment (PPE) appropriate to the work being carried out.
Storage	On flat bearers with full-surface contact (e. g. pallets), in dry, well-ventilated rooms. Please note that improper storage, irrespective of the duration, can cause irreversible distortion. Foreign matter and abrasive impurities in the pack can cause impressions and damage to the surface. Use sufficiently large, sturdy supports, e. g. pallets, when transporting packs. The panels in the pack must be secured to prevent slipping. The panels must not be pushed against one another or slid over one another; they should be lifted off individually by hand or using suction lifters. Protect from high humidity and wetness.
Cleaning and care	The surface can be cleaned using water and a mild detergent. Cleaning agents, cloths and sponges with abrasive constituents must not be used. Commercially available cleaning agents suitable for plastic surfaces can be used to remove stubborn soiling. A test on an inconspicuous point is recommended before using for the first time.
Product safety	This product is an article in the sense of the REACH Directive 1907/2006/EC and in accordance with Article 7.
Disposal	Disposal as material or energy in installations approved in accordance with the Federal Immission Control Act is recommended. Wastes must not be dumped due to their high organic content.

¹⁾ We recommend that you always carry out your own tests.



Cut to size using a two-sided saw blade with alternating bevel-ground tip (trapezoidal flat tooth).



Dowel bore with conventional HSS drills on machining centres, automatic drilling machines or hand drills.



Drill cup hinge bores using a carbide wood drill with centering tip; Edge view with wood dowel bore.



Eccentric connecting fittings with screw-in dowel.



Edging with thick edge on a standard edging machine.



Product cross-section with thick edge, the use of a supporting edge or bar is not necessary.