THE STANDARD IN CONCRETE CONSTRUCTION

The supersize formwork panel programme

WESTAG & GETALIT AG

CONTENTS

1 Westag formwork panels are used to produce matt, jointless concrete surfaces.

Westag supersize formwork panels are optimally suited for all construction work, above and below ground, for concrete surfaces with medium to high requirements in accordance with DIN 18202, part 3, lines 5 to 7.

The mainly light-coloured and matt panel surfaces ensure that pencil marks can be seen clearly.

Westag supersize formwork panels are suitable for effective use on any building site, and the diverse range is available in many cost-effective dimensions.

- Large product range for all concrete surfaces and formwork systems
- Panel structures in chipboard, blockboard, laminboard, and veneered plywood
- Diverse range of film coatings and reuse rates
- Light-coloured panel surfaces reduce heating through solar radiation
- Standardised formwork surfaces even after multiple reuse

1 Multiple dimensions up to 6000 × 2500 mm save joints, labour costs and material when cutting.

Westag supersize formwork panels are particularly well-suited to precast concrete plants due to the extensive choice of types and panel quality levels available.

For various application purposes, film coatings of 260 to 680 g/m^2 are available, depending on the number of reuses.

The **Betoplan Top MF** is particularly well-suited to use on formwork tables.

Its design and high quality film coating guarantee concrete surfaces that meet high requirements even after multiple reuse.

Westag & Getalit AG offers a perfect made-to-measure range for system formwork with customised film coatings and company or product logos, a range of plywood constructions, cut-to-size, drilling and recesses.

We are flexible and can cater to any requirements in system formwork construction at short notice.

1 We supply replacement panels for frame formwork at short notice, with film coatings of 450 g/m^2.

Westag & Getalit AG manufactures a diverse range of concrete formwork panels tailored to different applications. These are made of special weather-resistant, glued wood materials (veneered plywood, blockboard and chipboard) with extra-low moisture absorption and high quality surface coatings – both melamine and phenolic resin film coatings and polypropylene coatings (PP). Many of the formwork edges are factory-treated with a special acrylic water-based paint.

In 1955, Westag & Getalit AG received patent protection for the Betoplan Top panel from the German Patent Office. The panel design, which has proven effective over many decades and is subject to continuous improvement, is used primarily in precast concrete plants and on building sites for exposed concrete surfaces with cost-effective, multiple reuse rates. To achieve the desired results, the following information should be taken into account when using our concrete formwork panels:

1. Storage: The formwork panels should be stored in a dry location on level, squared timber. For prolonged storage outdoors, protective sheets should be ventilated in order to prevent trapped moisture and condensation. Ideally, the protective sheets should be made of breathable materials. Westag formwork panels are made of wood composites. The natural swelling and shrinkage deformations of the materials in length, width and thickness should be noted for all applications.

2. Cutting should be carried out using carbide-tipped tools in accordance with the cutting conditions for coated, wood-based materials. The use of blunt tools can result in damaged edges. Fine-toothed saw blades should be used. The peripheral rim speed of the saw blade should be at least approx. 50 m/s, i.e. the minimum rotational speed for a saw blade diameter of 30 cm should be over 3000 revolutions per minute.

3. Careful treatment of the film coating is the most important requirement for fault-free concrete surfaces and long life of the formwork facing. The most common causes of damage to film are:

- Missed hammer blows when driving nails
- Scratching, e.g. due to reinforcement installation or material and equipment storage on the formwork, especially with floor formwork
- Abrasion during transport
- Vibrator contact during compacting
- Hard rubber caps can reduce damage to film
- Slipping with drilling machines and screwdrivers
- Do not sink screw heads below the panel surface

Mechanical damage to the surface can be repaired using Westag filler, but will remain visible.

4. Carefully grind or sand the area to be filled without damaging the original film. Dents to panels should be sealed with Westafill joint tape. To reduce water absorption, the edges of cuttings, anchor drill holes, etc. should be sealed with a protective coating in the formwork yard or on the building site. In general, we recommend resealing the factory edge sealing.

5. Prior to concreting, the surfaces should be cleaned, concrete residue removed, and a wafer-thin film of release agent (colourless if possible) should be applied. The release agent should be tested for compatibility with the edge protector colour before use in order to avoid dissolution, which can lead to staining of the concrete surface. In the period between the application of the formwork oil and concreting, the formwork elements should be protected from contamination.

Phenolic resins can emit yellow substances when exposed to intense UV radiation. In exceptional cases, concrete discolouration has been reported as a result of this. The work procedure on the building site (protection of the formwork facing, form stripping times) must be adapted accordingly. In general, we recommend performing a test pour for high-quality exposed concrete SB3 and SB4 in order to test the compatibility of the concrete, form oil and formwork panel.

6. When preparing exposed concrete surfaces, please note the following:

- Protect the formwork facing from moisture absorption and from drying out
- The panels must be kept out of direct sunlight
- Ideally, the formwork should be stored upright (in the shade during the summer), two elements with the formwork facing sides together. If the formwork is stored horizontally, the stacking blocks may leave imprints on it.

7. The absorbent formwork facing should be adequately moistened with water or concrete slurry before installation (e.g. RS Special and Betoplan S). (Note changes to dimensions!) These Westag formwork panels are manufactured intentionally with a matt surface in order to create a smooth, non-gloss concrete surface and avoid different levels of gloss from forming over long periods of use. On contact with alkaline concrete, phenol-coated formwork panels with light-coloured coatings tend to take on a reddish-brown hue. This colour change is an unalterable characteristic of phenolic resin, and is not the cause of surface discolouration in the concrete.

This information is provided in good faith in accordance with the latest technological advancements, but is not a guarantee for fault-free processing of the panels.

Disposal. The remains of formwork panels can be incinerated safely in industrial incineration plants or communal waste incinerators.
Waste code (EWC): 170201 (Wood).
(European Waste Catalogue/EWC Group: Wood, glass and plastic). Waste wood category A II

Name	Thick-ness mm	Dimensions mm	Description Core/Substrate	Use
Westaspan uncoated	20	4340/5240/5540 × 2040 (pre-edged)	High-quality wood-based substrate	Absorbent formwork for a limited number of reuses
RS Special	10 21 27	2710/5430 × 2050 (pre-edged)	Special wooden composite, pre-treated with environmentally compatible release agent to WGK 1	Absorbent formwork for low-pore concrete surfaces, particularly in water projects
RS Special oiled				
Westaspan 300	18 21	5500 × 2000 5500 × 2000/2500 × 1250	Special wooden composite	For concrete surfaces with normal requirements, suitable for up to approx. 30 reuses
Westaspan MF	21	4300/5500 × 2000 5500 × 2500		
Westaspan super 400	21	5500 × 2000		
Phenox MF	10	5400 × 2000		
Phenox Special 200	19/21	5400 × 2000		
Phenox Special 360	21	5400 × 2000		
Phenox NFO 500	21/27	5430 × 2050 (pre-edged)		
Magnoply MF	21	2000 × 5200	Special wooden composite with veneer facing	For concrete surfaces with normal requirements, suitable for up to approx. 20 reuses
Bonaboard 260 BE	21	2000 × 5200	3-ply blockboard	
Westaboard 360 BE	21	2000 × 5200		
Magnoplan S 550	21	2000 × 5200		
Magnoplan DUO 500 ST	21 27	2000 × 5200	Blockboard 5-ply	For concrete surfaces with higher requirements, suitable for up to approx. 30 reuses
Magnoplan 450 BE	21	2000 × 5200	Laminboard 3-ply	
Magnoplan Universal 550	21	2000 × 5200		
Magnoplan MF	21	2000 × 5200		
Magnoplan Special 680	27	2000 × 5200		
Magnoplan DUO 360/550 BE	21	2000 × 5200	Laminboard 5-ply	
Betoplan Top	21 21 27	2500 × 1250 3000/4000/5200 × 2000 5200 × 2000	Veneer plywood	For concrete surfaces with high requirements, suitable for up to approx. 60 reuses
Betoplan Top MF	21	4000/5200 × 2000		
Westag concrete formwork	4-21	2500 × 1250	Veneer plywood	For concrete surfaces without specific requirements
Betoplan Special	6.5 12*	3000 × 2000	Veneer plywood	For straight and curved concrete surfaces with higher requirements, suitable for up to approx. 30 reuses
Struktoplan Special	5.5	3000 × 1200	Veneer plywood	For textured concrete surfaces in 10 cm wide board-like texture, suitable for up to approx. 20 reuses
Struktospan Special	10 21	5000 × 1800 5000 × 1800	Special wooden composite	
Betosieb with wire-mesh texture/smooth back	21	5200 × 2000	Veneered plywood with anti-slip Westag lattice texture	For anti-slip concrete surfaces, e.g. stadium stands, suitable for up to approx. 10 reuses
Betosieb HWS	21	5200 × 2000	Wood-based substrate with anti-slip Westag lattice texture	
Rundform	5,5	1700 × 2500	Bending plywood	For round formwork and mould making

our MF concept

*on request

The number of reuses of the formwork panels depends on a number of factors, including the use, storage and handling (form oil, edge sealing, surface cleaning) of the formwork panels.

Date: February 2019 Order No. 078768

RS Special, oiled for low-pore concrete surfaces with increased rim strength. Suitable for use in sewage treatment plants, water containers, and bridge building.

The 10 mm thick panel is suitable for round formwork with a radius of more than 1.5 m.

DESCRIPTION

RS Special is a low-cost supersize formwork panel made of a highly compacted wooden composite substrate with a sanded and absorbent surface.

It should not be used without a release agent.

On request: Factory pre-treated with environmentally compatible release agent to WGK 1 (permit W-178539)

Without edge sealing

TECHNICAL DATA

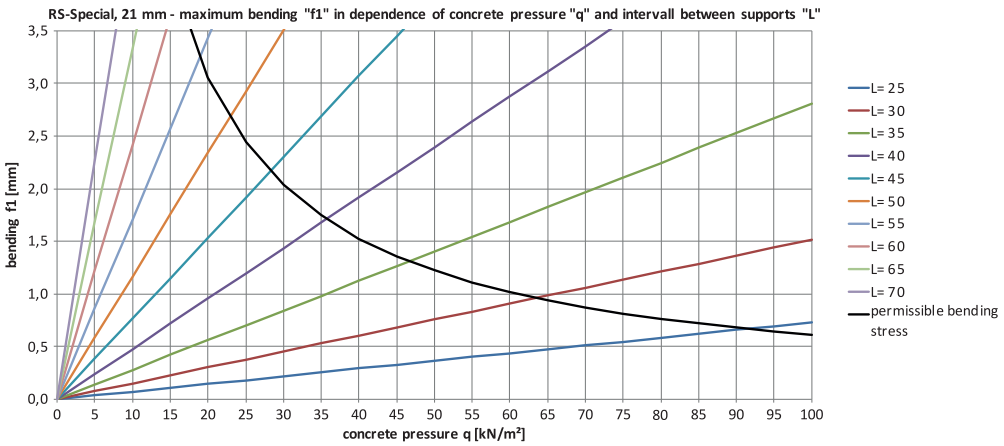
Technical data	Dimensions mm	Thickness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
RS Special oiled	5430/2710 × 2050	10 21 27	7.8 16.5 21.5	4000 4500 4000	4000 4500 4000	27 30 26	27 30 26

Dimensions pre-edged (approx. specification)

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending



Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

PEFC™
PEFC/04-31-1162
Förderung nachhaltiger Waldwirtschaft
www.pefc.de

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Westaspan 300 is suitable for all smooth, jointless concrete surfaces in accordance with DIN 18020/3, line 4/5.

Limited number of reuses.

Westaspan 300

- Low-cost supersize formwork panel
- Highly compacted wooden composite substrate P5
- Melamine resin film coating 300g/m² on each side
- Sealed edges

TECHNICAL DATA

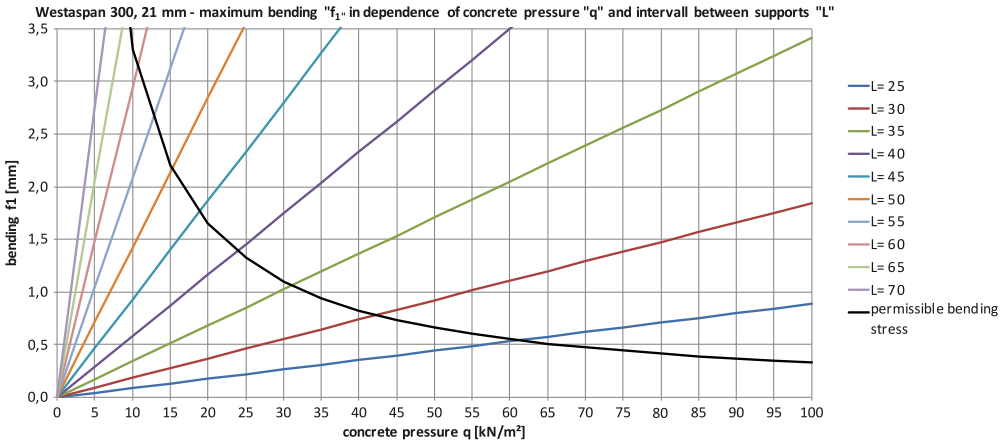
Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Westaspan 300	5500 × 2000 5500 × 2000 2500 × 1250	18 21 20	13 14.5 14	3700	3700	17	17

Dimensions pre-edged (approx. specification)

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending



Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

PEFC™
PEFC/04-31-1162
Förderung nachhaltiger Waldwirtschaft
www.pefc.de

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Westaspan MF (melamine face) is suitable for all smooth, jointless concrete surfaces in accordance with DIN 18020/3, line 4/5.

High number of reuses

Westaspan MF

- Low-cost supersize formwork panel
- Highly compacted wooden composite substrate P5
- Melamine resin film coating 450g/m² on each side
- Sealed edges

TECHNICAL DATA

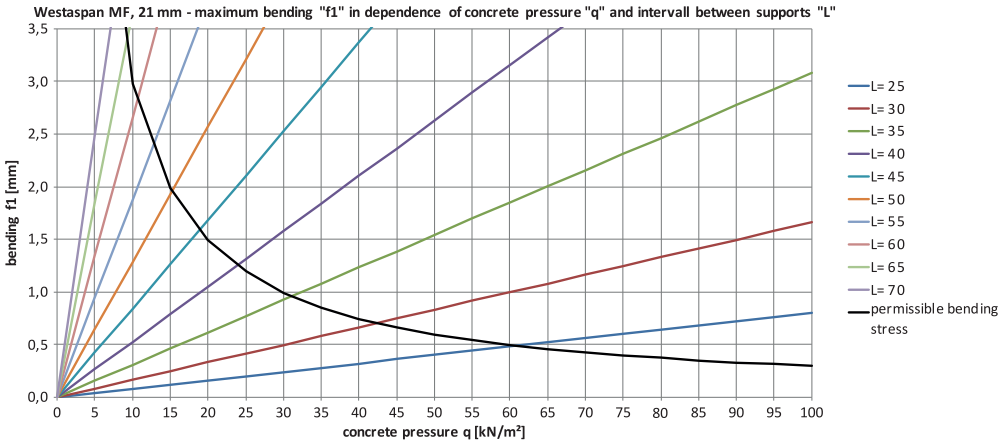
Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Westaspan MF	4300 × 2000 5200 × 2000 5500 × 2000 5500 × 2500	21	15.5	4100	4100	25	25

Other thicknesses/coatings on request

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending



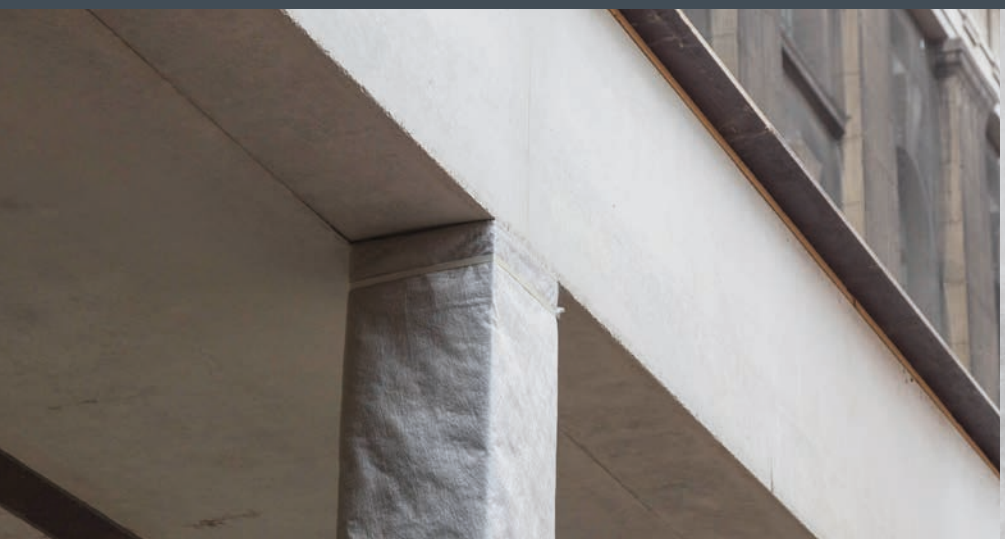
Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

PEFC™
PEFC/04-31-1162
Förderung nachhaltiger Waldwirtschaft
www.pefc.de

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG



Westaspan Super 400 is suitable for all smooth, jointless concrete surfaces in accordance with DIN 18202/3, line 5/6.

Use with exposed concrete requirement SB3 and multiple reuse.

Westaspan super 400

- Supersize formwork panel made of special 3-ply wooden composite substrate for exposed concrete requirements up to SB 3
- Melamine resin film coating 400g/m² on each side
- Sealed edges

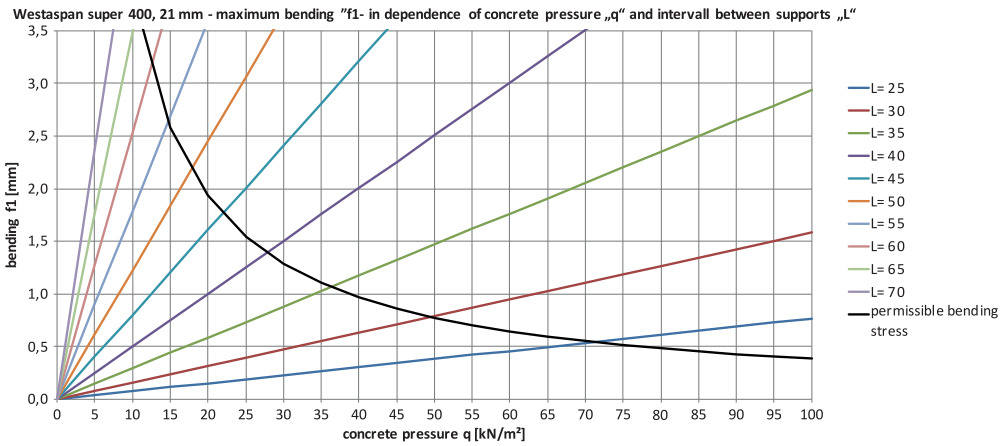
TECHNICAL DATA

Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Westaspan super 400	5500 × 2000	21	15	4300	4300	31	31

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending



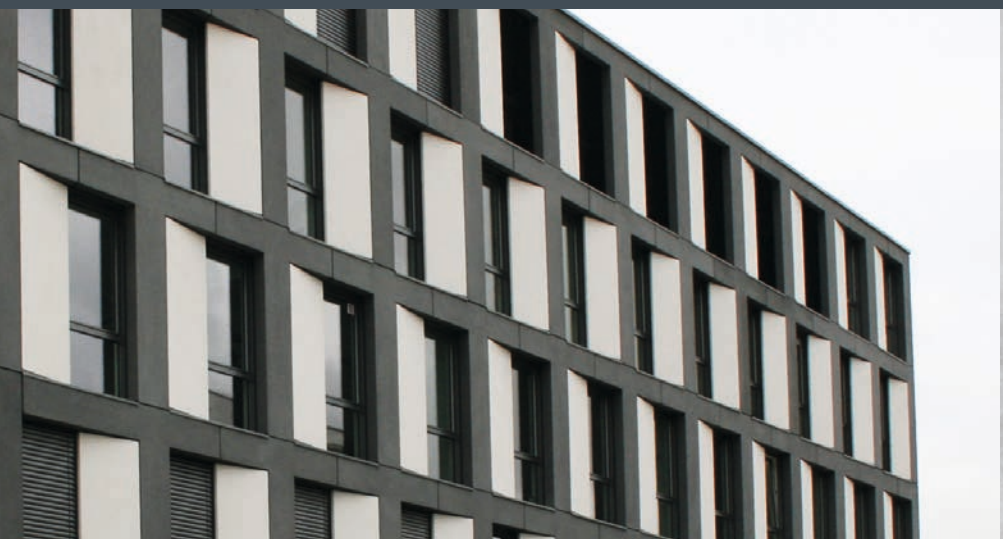
Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

PEFC™
PEFC/04-31-1162
Förderung nachhaltiger Waldwirtschaft
www.pefc.de

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

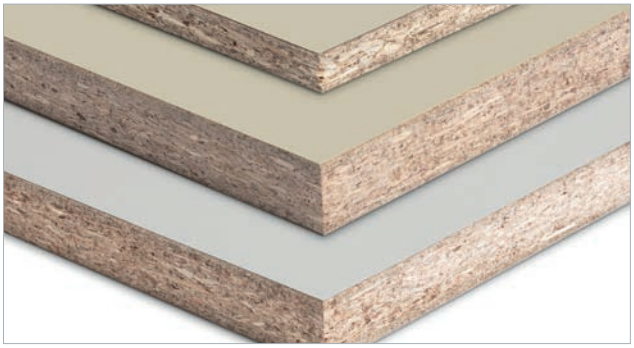
WESTAG & GETALIT AG



Phenox Special is suitable for all smooth, jointless concrete surfaces in accordance with DIN 18202/3 line 5/6 with higher requirements.

Phenox Special

- Supersize formwork panel made of highly compacted, wooden composite substrate
- Melamine resin film coating 200 g/m² (beige), 360 g/m² (grey) or 450 g/m² (MF) on each side
- Sealed edges



TECHNICAL DATA

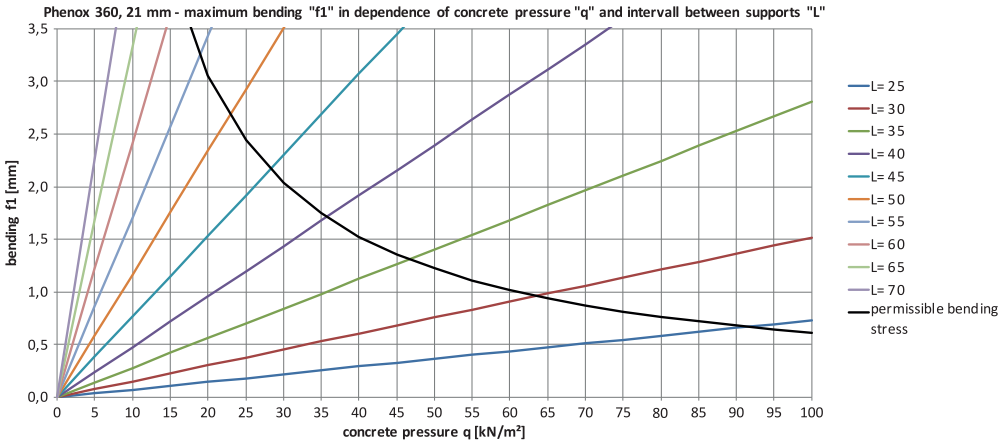
Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Phenox MF	5400 × 2000	10**	7,8	4000	4000	27	27
Phenox Special 200	5400 × 2000	19 21	14.9 16.5	4000 4500	4000 4500	27 30	27 30
Phenox Special 360	5400 × 2000 5400 × 2000	21 27*	16.5 21.5	4500 4000	4500 4000	30 26	30 26

Subject to design modifications

Attention Reference values – these properties are not guaranteed

*on request / **coating comes up to Westaspan MF (450 g/m²)

Diagram for estimating the bending



Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

PEFC™
PEFC/04-31-1162
Förderung nachhaltiger Waldwirtschaft
www.pefc.de

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

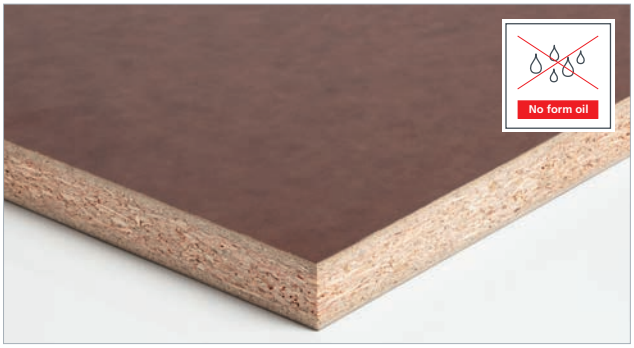
Phenox NFO 500 is suitable for all smooth, jointless concrete surfaces in accordance with DIN 18202/3, line 5/6 with higher requirements.

Stains and residues can easily be removed after concreting.

Can be used without a release agent.

Phenox NFO 500

- Supersize formwork panel made of very highly compacted, wooden composite substrate
- Special film coating NFO (no form oil) 500 g/m² on each side
- Edges not sealed



TECHNICAL DATA

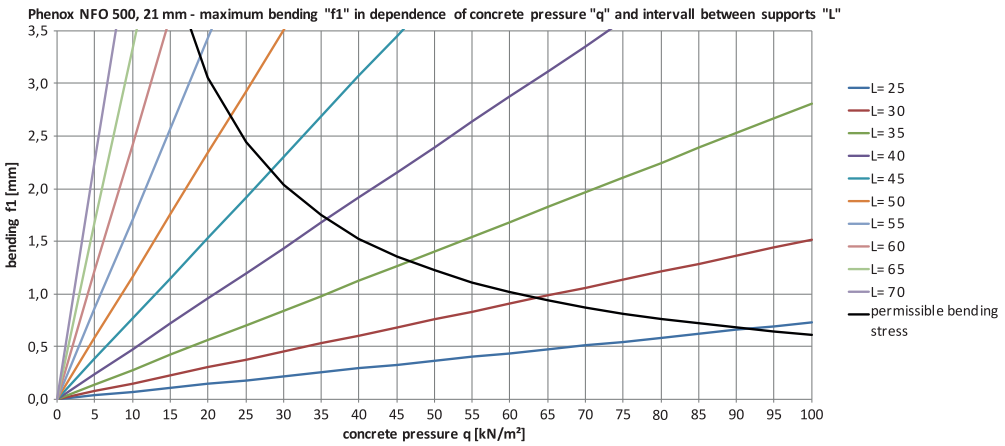
Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Phenox NFO 500	5430 × 2050 5430 × 2050	21 27	16.5 21.5	4500 4000	4500 4000	30 26	30 26

Other thicknesses on request, dimension pre-edged, approx. specification

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending



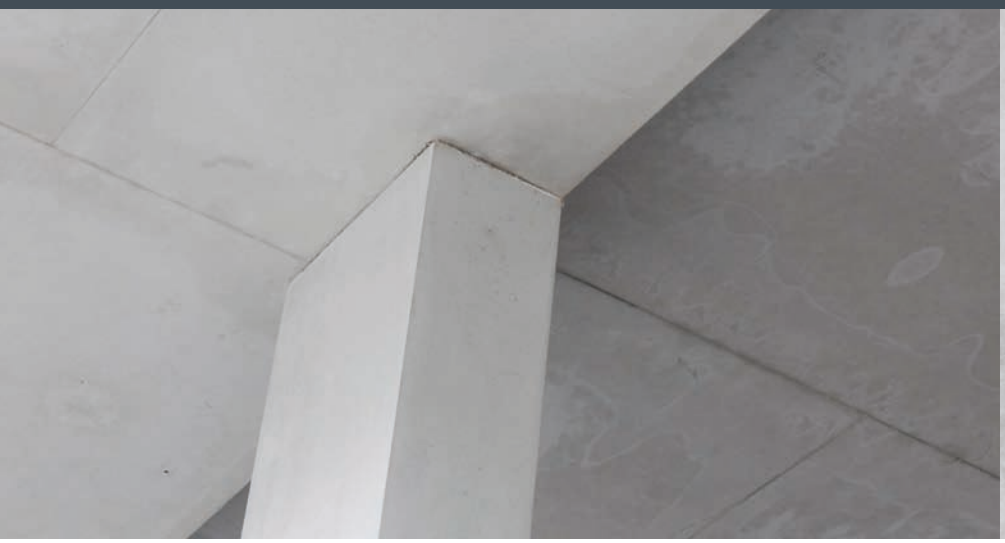
Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

PEFC™
PEFC/04-31-1162
Förderung nachhaltiger Waldwirtschaft
www.pefc.de

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG



Magnoply MF (melamine face) is suitable for smooth, jointless concrete surfaces in accordance with DIN 18202/3, line 5/6. It can be used to produce matt, even surfaces.

The special alkali-resistant, melamine surface coating features reduced water permeability, increased light resistance and improved robustness.

Magnoply MF

- 3-ply supersize formwork panel made of a wooden composite substrate and a 2 mm thick veneer facing on each side
- Melamine resin film coating 550 g/m² on each side
- Sealed edges

IMPORTANT PRODUCT PROPERTIES

- Alkali-resistant surface
- Significantly reduced water permeability
- Increased light resistance

TECHNICAL DATA

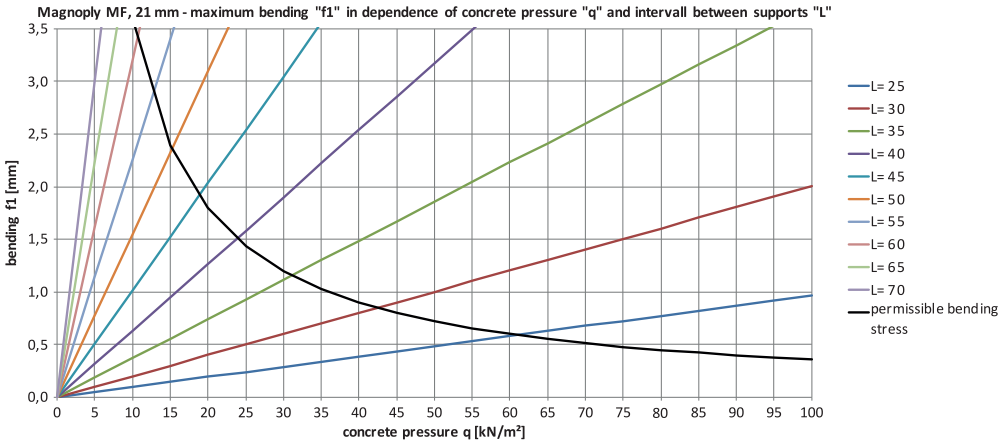
Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Magnoply MF	2000 × 5200	21	14.3	4700	3400	38	25

Tolerances in accordance with DIN 68791

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending

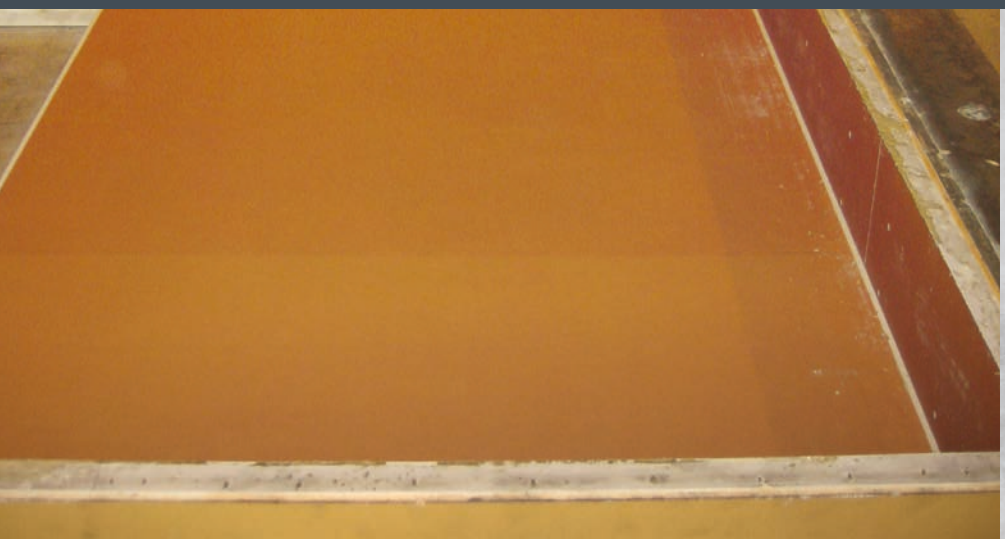


Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG



Bonaboard 260 BE is suitable for smooth, jointless concrete surfaces in accordance with DIN 18202/3, line 5. It will produce matt surfaces with a limited number of reuses.

Bonaboard 260 BE

- Lowest-cost supersize formwork panel made of 3-ply blockboard based on DIN 68791
- Block markings possible following moisture absorption
- Phenolic resin film coating 260 g/m²
- Sealed edges

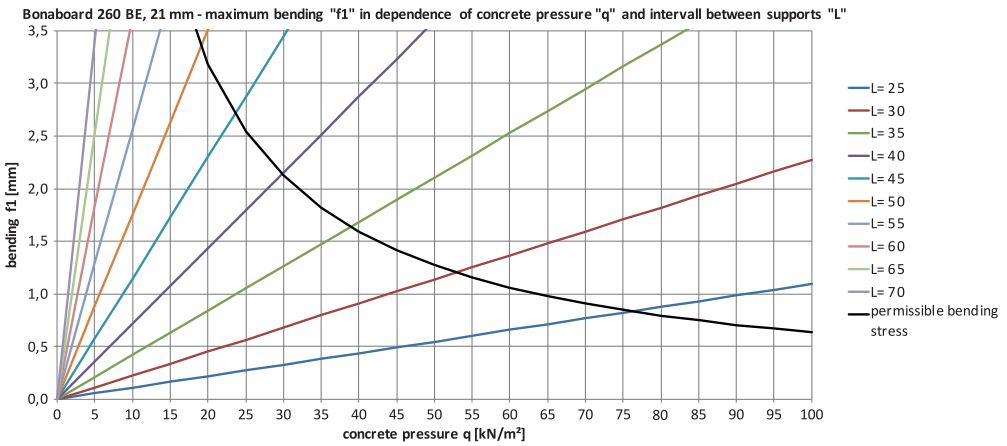
TECHNICAL DATA

Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Bonaboard 260 BE	2000 × 5200	21	10	3000	6200	24	41

Test according to EN310

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending



Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Westaboard 360 BE is suitable for smooth, jointless concrete surfaces in accordance with DIN 18202/3, line 5. It will produce matt surfaces with a slightly higher number of reuses.

Westaboard 360 BE

- Low-cost supersize formwork panel made of 3-ply blockboard based on DIN 68791
- Block markings possible following moisture absorption
- Phenolic resin film coating 360 g/m² on each side
- Sealed edges

TECHNICAL DATA

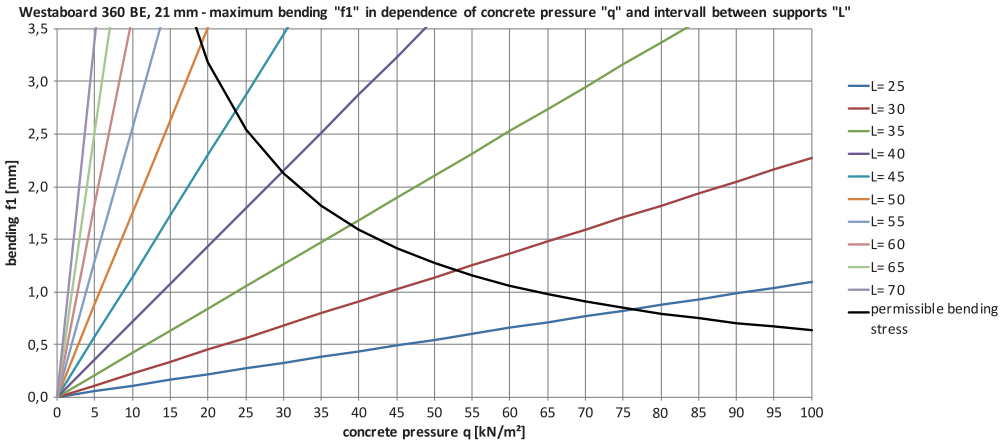
Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Westaboard 360 BE	2000 × 5200	21	10.4	3000	6200	24	41

Test according to EN310

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending



Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Magnoplan S 550 is suitable for smooth, jointless concrete surfaces in accordance with DIN 18202/3, line 5–6. It will produce matt concrete surfaces with a medium number of reuses.

Magnoplan S 550

- Supersize formwork panel made of blockboard based on DIN 68791
- Minor block markings possible
- Phenolic resin film coating
- 550 g/m² on each side
- Sealed edges

TECHNICAL DATA

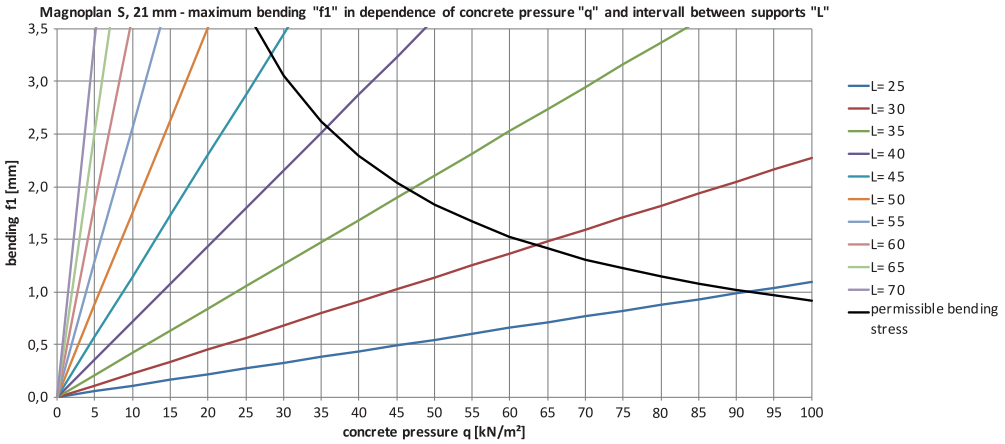
Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Magnoplan S 550	2000 × 5200	21	10.6	3000	6200	24	41

Test according to EN310

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending



Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Magnoplan DUO 500 ST is suitable for all smooth, jointless concrete surfaces in accordance with DIN 18202/3, line 6. It will produce matt, even concrete surfaces with a medium to high number of reuses. Used predominantly in precast concrete plants. Can be subjected to both longitudinal and transverse loads.

Magnoplan DUO 500 ST

- Supersize formwork panel made of 5-ply block-board based on DIN 68791
- 2 parallel face veneers on each side
- Abrasion-resistant, phenolic resin film coating
- 500 g/m² on each side
- Sealed edges

TECHNICAL DATA

Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Magnoplan DUO 500 ST	2000 × 5200	21	10.0	3500	3800	33	32

Test according to EN310

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Date: February 2019 Order No. 078768

Magnoplan 450 BE is suitable for smooth, jointless concrete surfaces in accordance with DIN 18202/3, line 6. It results in matt concrete surfaces with a medium number of reuses. The panel can be subjected to both longitudinal and transverse loads.

Magnoplan 450 BE

- Supersize formwork panel made of 3-ply laminboard based on DIN 68791
- Phenolic resin film coating 450 g/m² on each side
- Sealed edges

TECHNICAL DATA

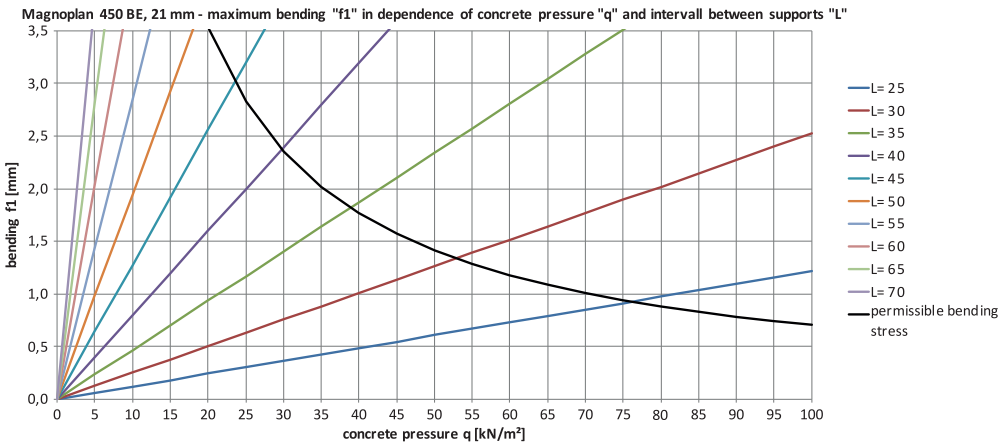
Technical data	Dimensions mm	Thickness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Magnoplan 450 BE	2000 × 5200	21	11	2700	6500	26	46

Test according to EN310

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending

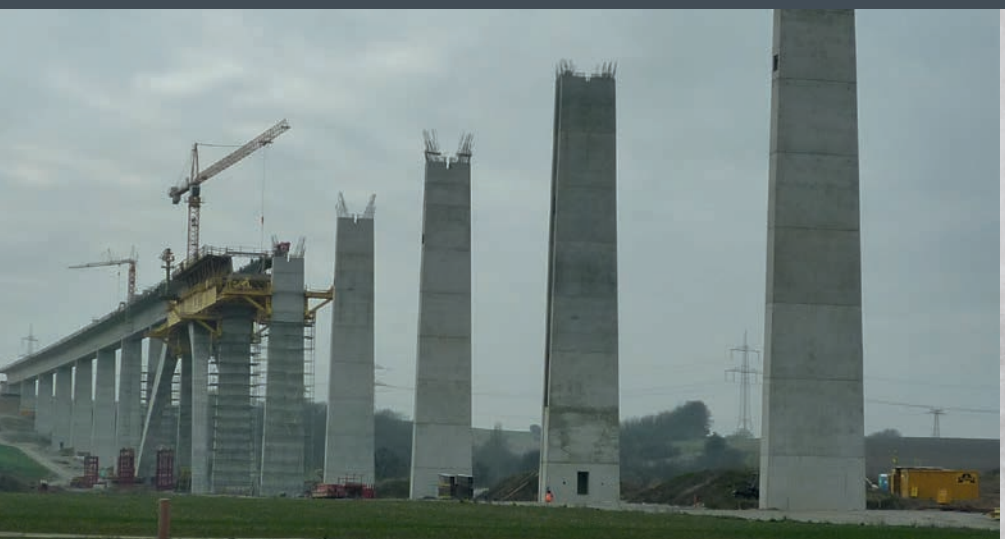


Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG



Magnoplan Universal is suitable for smooth, jointless concrete surfaces with advanced requirements in accordance with DIN 18202/3, line 7. It will produce incredibly even matt concrete surfaces. The number of reuses makes this a popular choice on building sites and in precast concrete plants. The panel can also be subjected to both longitudinal and transverse loads.

Magnoplan Universal

- Supersize formwork panel made of 3-ply laminboard based on DIN 68791
- Phenolic resin film coating 550 g/m² on each side
- Sealed edges

TECHNICAL DATA

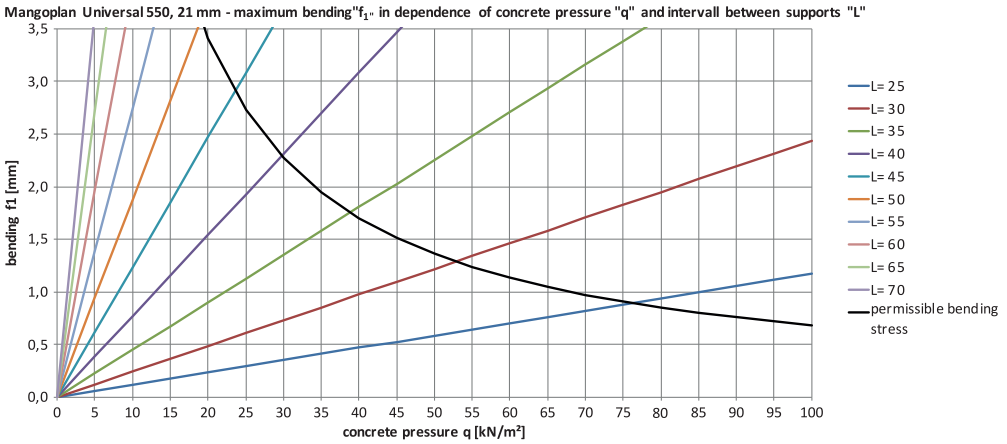
Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Magnoplan Universal	2000 × 5200	21	11.4	2800	6600	26	48

Test according to EN310

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending



Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Magnoplan MF (melamine face) is suitable for smooth, jointless concrete surfaces with advanced requirements in accordance with DIN 18202/3, line 7. It will produce incredibly even matt concrete surfaces. With its high number of reuses, this panel is a popular choice on building sites and in precast concrete plants. The panel can be subjected to both longitudinal and transverse loads.

Magnoplan MF

- Supersize formwork panel made of 3-ply laminboard based on DIN 68791
- Melamine resin film coating 550 g/m² on each side
- Sealed edges

IMPORTANT PRODUCT PROPERTIES

- Alkali-resistant surface
- Significantly reduced water permeability
- Increased light resistance

TECHNICAL DATA

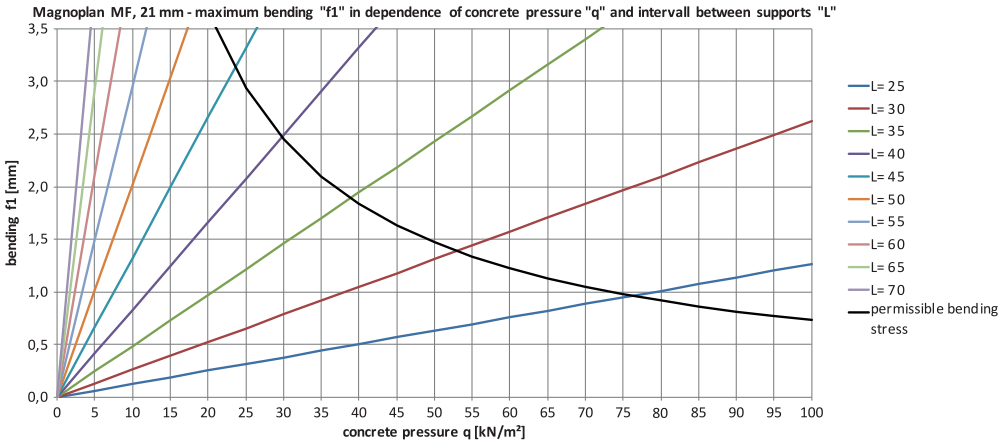
Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Magnoplan MF	2000 × 5200 2000 × 5200	21 27	11.4 14.2	2600 1900	6800 7300	22 16	47 51

Test according to EN310

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending



Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Magnoplan Special 680 is suitable for smooth, jointless concrete surfaces in accordance with DIN 18202/3, line 6. It will produce matt, even concrete surfaces with a medium to high number of reuses, primarily in precast concrete plants.

Magnoplan Special 680

- Supersize formwork panel made of 3-ply laminboard based on DIN 68791
- Highly abrasion-resistant, phenolic resin film coating 680 g/m² on each side
- Sealed edges

TECHNICAL DATA

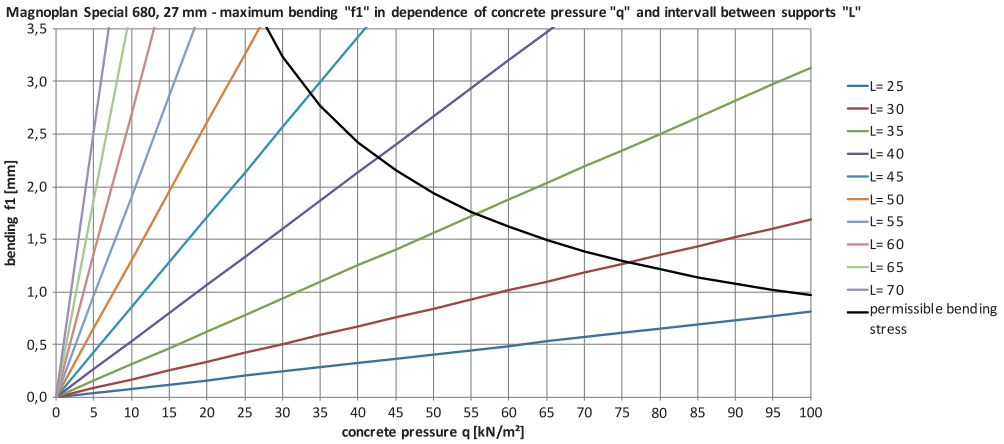
Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Magnoplan Special 680	2000 × 5200	27	14.2	1900	7300	16	51

Test according to EN310

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending



Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

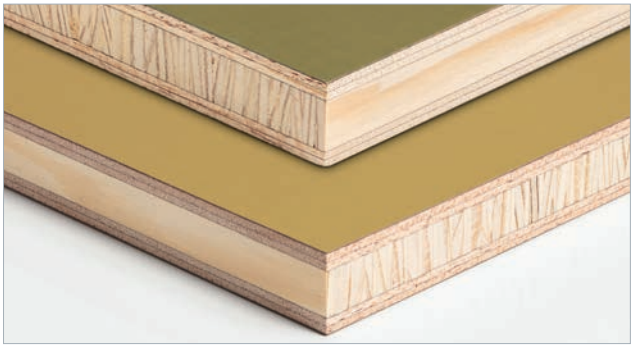
Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Magnoplan DUO 360/550 BE
is suitable for smooth, jointless concrete surfaces in accordance with DIN 18202/3, line 6. It will produce matt, even concrete surfaces with medium to high frequency of reuse, primarily in precast concrete plants but also on building sites. The panel can be subjected to both longitudinal and transverse loads.

Magnoplan DUO 360/550 BE

- Supersize formwork panel made of 5-ply laminboard based on DIN 68791
- With two parallel face veneers on each side
- Abrasion-resistant, phenolic resin film coating 360 g/m² on each side (yellow) or 550 g/m² on each side (green)
- Sealed edges



TECHNICAL DATA

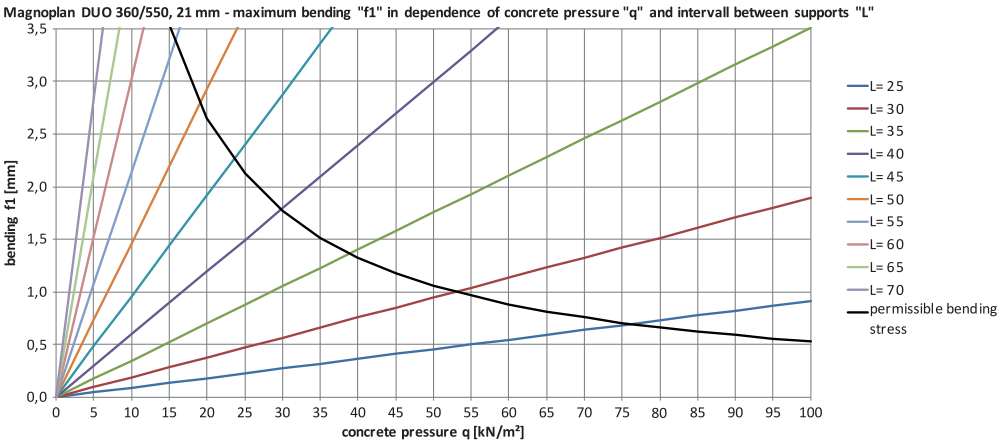
Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Magnoplan DUO 360/550 BE	2000 × 5200	21	11.2	3600	3900	34	33

Test according to EN310

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending



Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

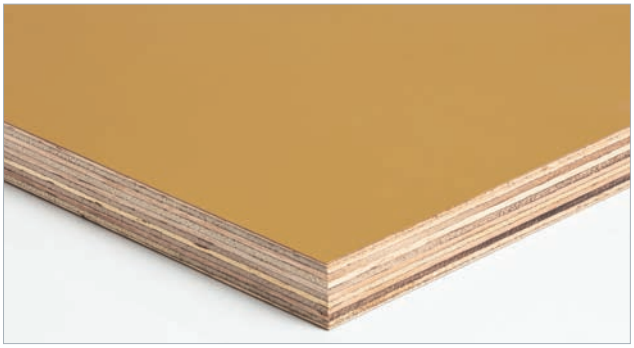
Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Betoplan Top is very suitable for all smooth, jointless concrete surfaces with advanced requirements in accordance with DIN 18202/3, line 7 (SB4). With a high number of reuses, this panel is used to produce incredibly even matt concrete surfaces on building sites and in precast concrete plants. The panel can be subjected to both longitudinal and transverse loads.

Betoplan Top

- Supersize formwork panel made of veneered plywood based on DIN 68792
- Dimensions up to 6000 × 2500 mm
- Extensive range of stock
- Phenolic resin film coating 550 g/m² on each side
- Sealed edges
- To achieve SB 3/4, test pouring of the concrete is required



TECHNICAL DATA

Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Betoplan Top	2500 × 1250	21	13.5	7500	6500	56	46
	3000 × 2000	21	13.5	7500	6500	56	46
	4000 × 2000	21	13.5	7500	6500	56	46
	5200 × 2000	21	13.5	7500	6500	56	46
	5200 × 2000	27	16.8	7000	6400	54	48

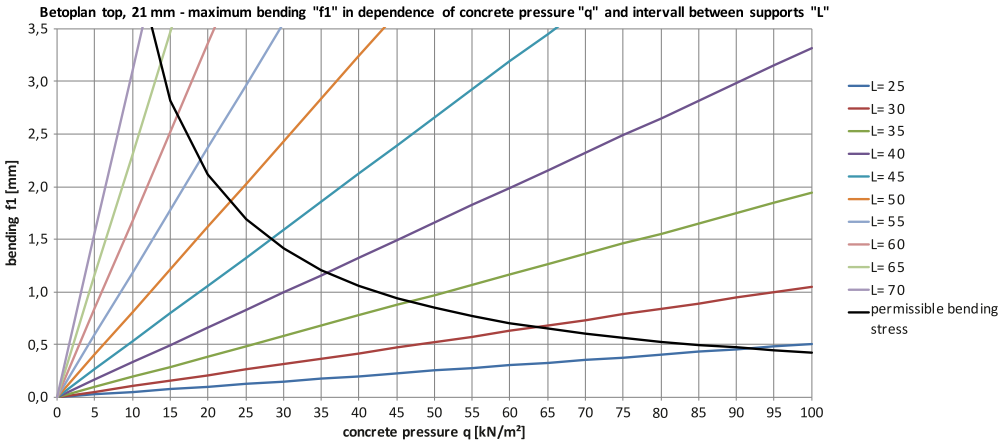
Other thicknesses, dimensions and cuts on request

Test according to EN310

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending

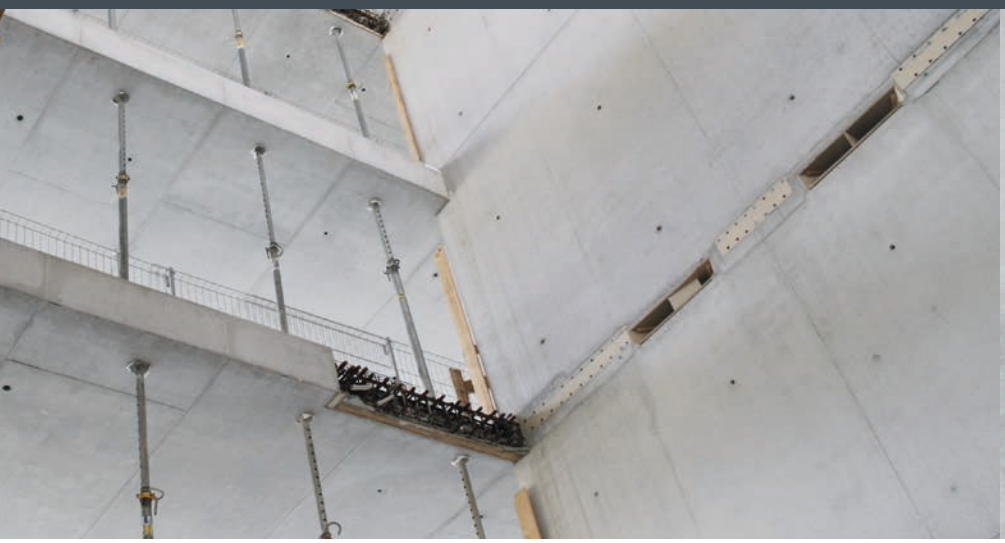


Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG



Betoplan Top MF (melamine face) is very suitable for all smooth, jointless concrete surfaces with higher requirements in accordance with DIN 18202/3, line 7 (SB4). With a high number of reuses, this panel is used to produce incredibly even matt concrete surfaces on building sites and in precast concrete plants. The panel can be subjected to both longitudinal and transverse loads.

Betoplan Top MF

- Supersize formwork panel made of veneered plywood based on DIN 68792
- Melamine resin film coating 550 g/m² on each side
- Sealed edges
- To achieve SB 3/4, test pouring of the concrete is required

IMPORTANT PRODUCT PROPERTIES

- Alkali-resistant surface
- Significantly reduced water permeability
- Increased light resistance

TECHNICAL DATA

Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Betoplan Top MF	4000 × 2000	21	13,5	7500	6500	56	46
	5200 × 2000	21	13,5	7500	6500	56	46
	5500 × 2500	21	13,5	7500	6500	56	46

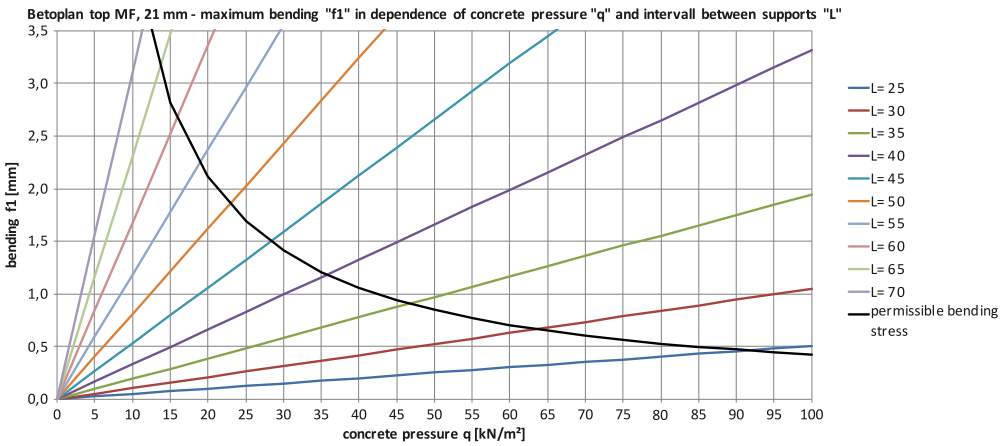
Other thicknesses, dimensions and cuts on request

Test according to EN310

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending



Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

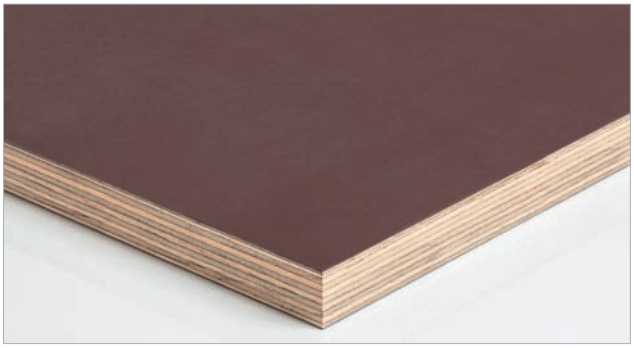
Date: February 2019 Order No. 078768

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Westag & Getalit AG offers a high-quality range of panels for various frame formwork systems. These include a variety of plywood constructions, cut-to-size, drilling, recesses for anchors, and film coatings of 450 g/m².

Custom-cut panels can also be supplied.



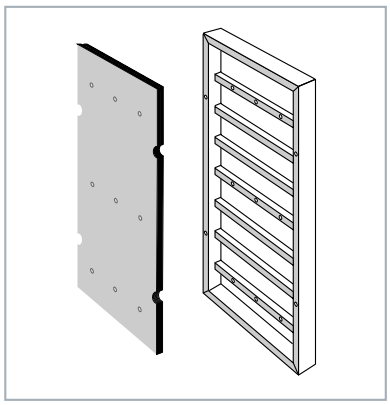
TECHNICAL DATA

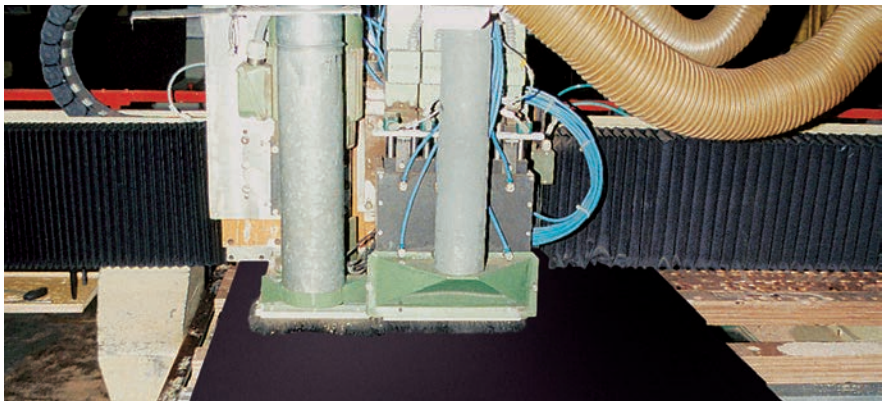
Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Betoplan Special	Fixed dimensions available on request	15 18 21	9.4 11.2 13.1	9300 7400 7500	7600 7200 6500	84 61 56	67 55 46

Test according to EN310

Subject to design modifications

Attention Reference values – these properties are not guaranteed



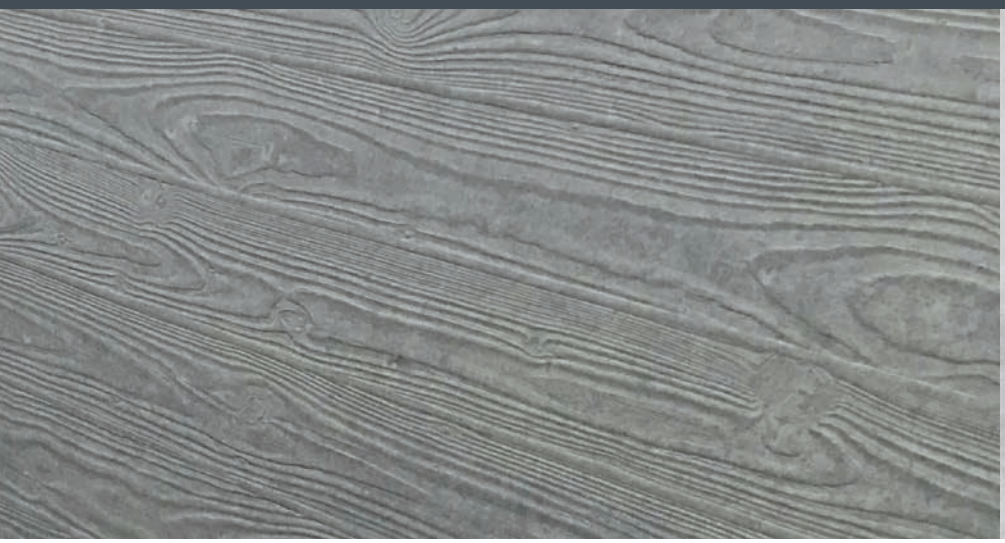


Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768



Struktoplan Special is suitable for textured concrete surfaces with a 10 cm wide, board-like texture and uniformly coloured, sand-free concrete finish. A high number of reuses can be achieved with a consistent board-like texture.

Struktoplan Special

- Veneered plywood panel based on DIN 68792
- Wear-resistant wood-plastic composite with board-like texture
- Phenolic resin film coating 470 g/m² on each side

TECHNICAL DATA

Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Struktoplan Special	3000* × 1200	5.5	4.0	10000	5200	107	59

*Direction of grain

Test according to EN310

Subject to design modifications

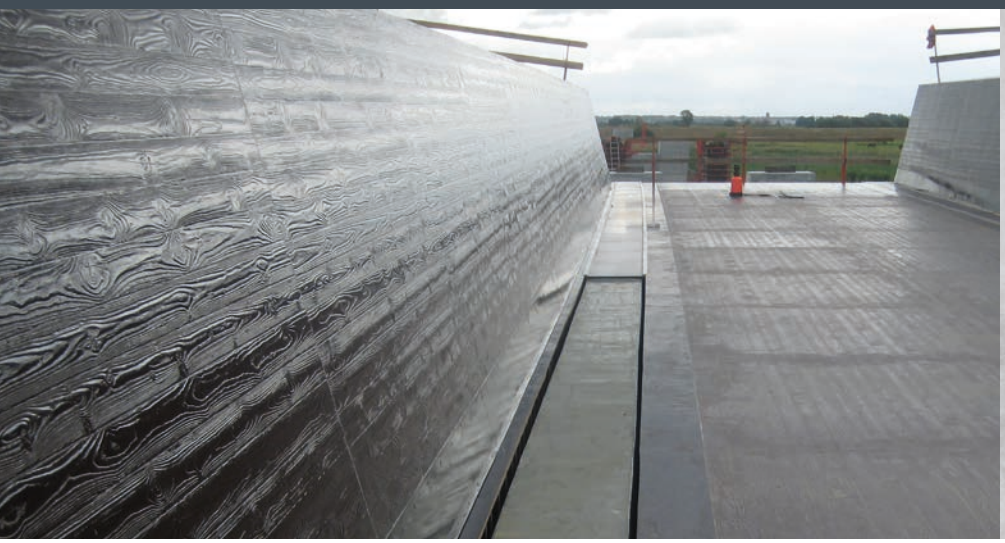
Attention Reference values – these properties are not guaranteed

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768



Struktospan Special is suitable for textured concrete surfaces with a board-like texture (10 cm wide). With a high number of reuses, a consistent, uniformly coloured, sand-free concrete finish can be achieved.

Struktospan Special

- Supersize formwork panel made of highly compacted wooden composite substrate
- Wear-resistant, phenolic resin film coating 1300 g/m² on each side
- With a distinctive board-like texture

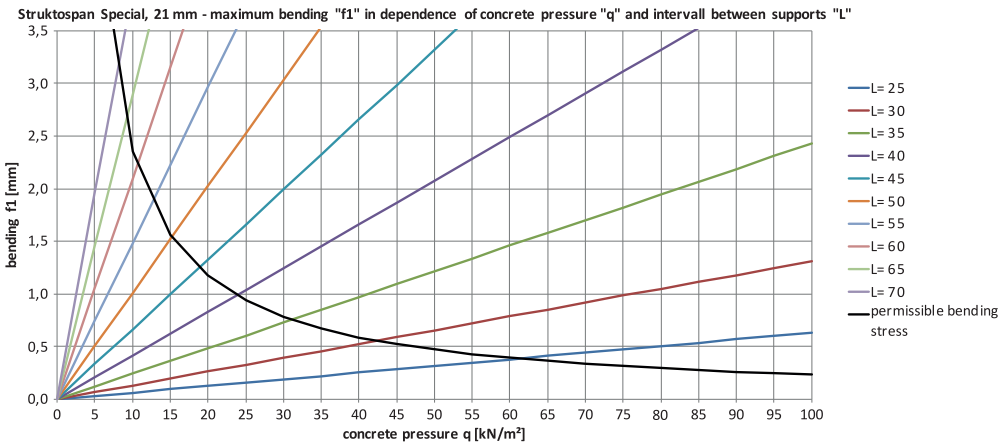
TECHNICAL DATA

Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Struktospan Special	5000* × 1800	10 21	8.0 16.8	4000 6500	4000 5200	27 54	27 43

*Direction of grain

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending



Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

PEFC™
PEFC/04-31-1162
Förderung nachhaltiger Waldwirtschaft
www.pefc.de

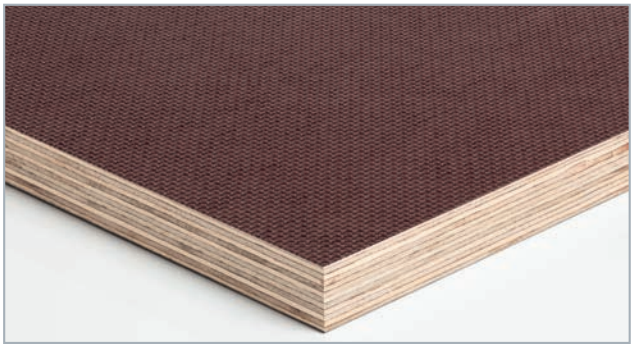
Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Betosieb is suitable for all concrete surfaces where an anti-slip surface is required, such as on stadium steps, platforms, or concrete surfaces with increased adhesion for subsequent sealing. Can be subjected to both longitudinal and transverse loads.

Betosieb

- Supersize formwork panel made of veneered plywood based on DIN 68792
- Phenolic resin film coating 300 g/m² on each side
- Front: Westag lattice texture
- Back: smooth
- Anti-slip concrete surface R13
- Sealed edges



TECHNICAL DATA

Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Betosieb	5200 × 2000	21	13.5	7500	6500	56	46

* Other thicknesses and dimensions on request

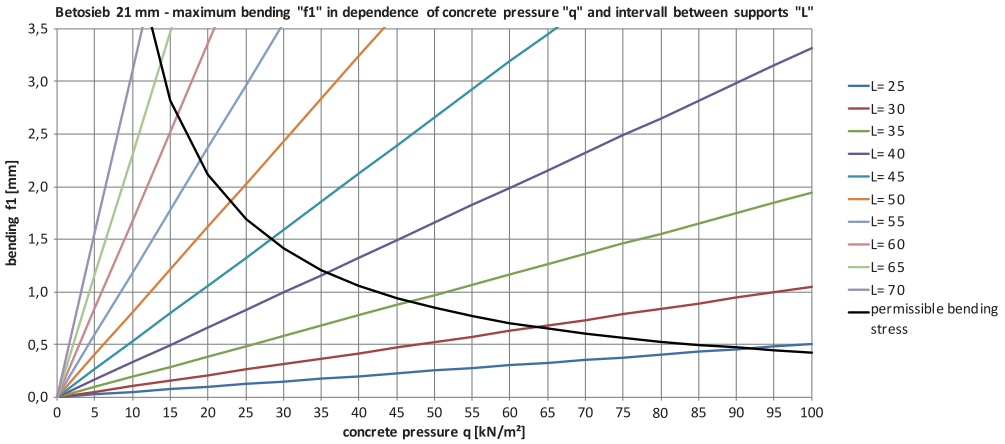
**For production-related reasons, the surfaces may have slight optical differences

Test according to EN310

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Diagram for estimating the bending

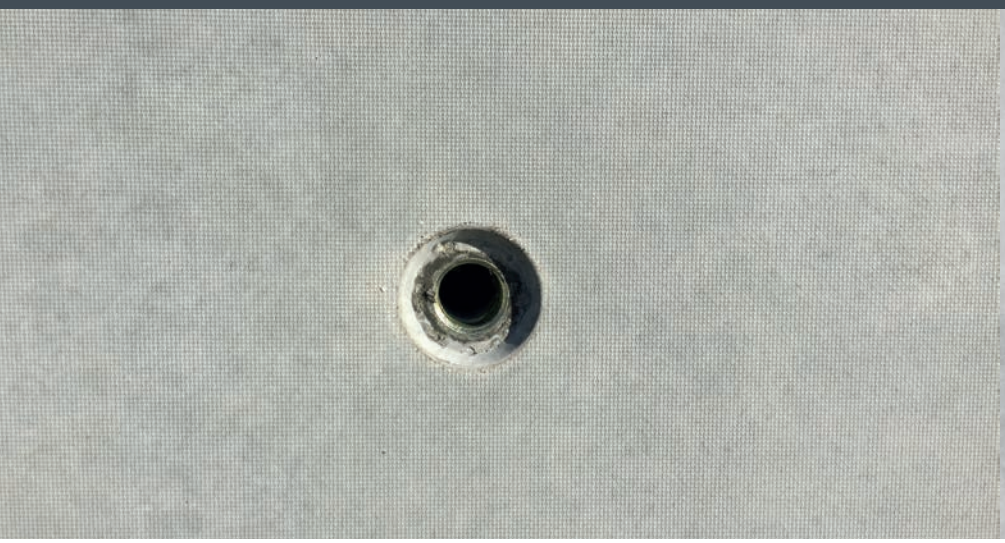


Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

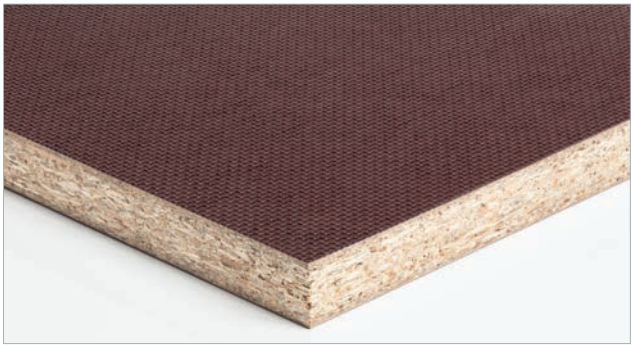
WESTAG & GETALIT AG



Betosieb HWS is suitable for all concrete surfaces where an anti-slip surface is required, such as on stadium steps, platforms, or concrete surfaces with increased adhesion for subsequent sealing. Can be subjected to both longitudinal and transverse loads.

Betosieb HWS

- Supersize formwork panel
- Special wooden composite substrate
- Phenolic resin film coating 300 g/m² on each side
- Front: Westag lattice texture
- Back: smooth
- Anti-slip concrete surface R13
- Sealed edges



TECHNICAL DATA

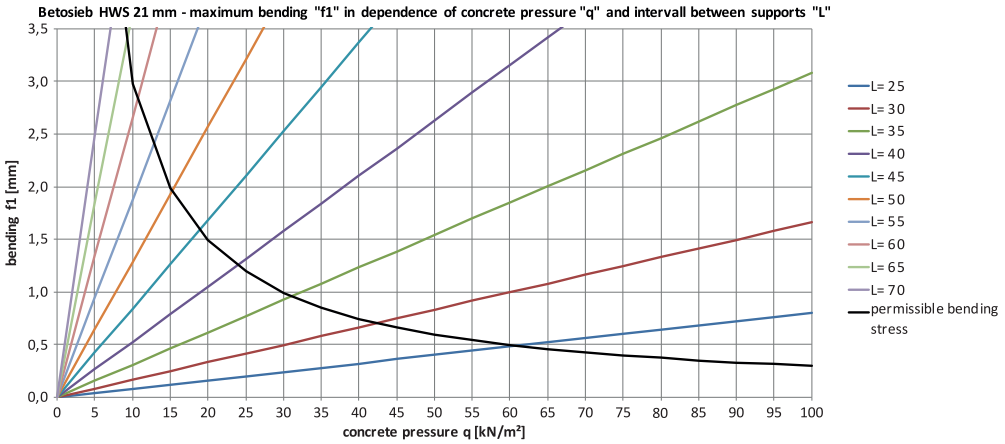
Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Modulus of elasticity (N/mm²)		Bending strength (N/mm²)	
				Along	Across	Along	Across
Betosieb HWS	5200 × 2000	21	15.5	4100	4100	25	25

Subject to design modifications

Attention Reference values – these properties are not guaranteed

**For production-related reasons, the surfaces may have slight optical differences

Diagram for estimating the bending



Technical advice: Area load calculated from pure concrete pressure without safety coefficients. Diagram applies to a 4-field beam, deflection in the outfield. Permissible bending stress = calculated with load safety factor 1.5 / load duration 0.9 / material safety 1.3. The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

PEFC™
PEFC/04-31-1162
Förderung nachhaltiger Waldwirtschaft
www.pefc.de

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

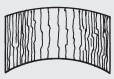
WESTAG & GETALIT AG

Rundform Bending plywood for circular formwork and mould construction.

Rundform

- Veneered plywood/bending plywood based on DIN 68705
- Rotary cut and sliced veneer at manufacturer's discretion
- Sanded on both sides
- Glue: AW EN314 class 2

TECHNICAL DATA

Technical data	Dimensions mm	Thick-ness mm	Weight kg/m²	Bend parallel to the fibre direction
Rundform	1700 × 2500	5.5	2.3	 approx. 80 mm

Subject to design modifications

Attention Reference values – these properties are not guaranteed

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

The technical data are mean values which may vary due to the natural fluctuations of the raw material wood.

Date: February 2019 Order No. 078768

DESCRIPTION

Westafill joint tape is a self-adhesive (one side) polyethylene joint tape, approx. 19 mm wide and 3 mm thick. The length of the roll is 20 metres.

APPLICATION

Westafill joint tape is used to seal the joints between formwork panels. Make sure the edge of the panel is clean and free of grease, apply the tape to it and press the formwork panels together. A gap of approx. 1 mm remains to compensate for swelling and vibration, thus largely preventing concrete slurry leakage.

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Date: February 2019 Order No. 078768

DESCRIPTION

Westafill Special resin filler
is a high quality two-component, epoxy resin filler. It is suitable for formwork construction, in particular, for all film-coated Westag plywood formwork panels.

USE

Westafill Special resin filler
for filling in holes, cracks, depressions and butt joints in the formwork facing.

APPLICATION

Westafill Special resin filler is supplied in sets of two cans containing 1/2 kg of resin (component A) and hardener (component B). These are mixed 1:1 and stirred thoroughly until light brown. Depending on the temperature, the mixture is ready for use after approx. 4–7 minutes, and can be sanded after approx. 1 hour.

Can be stored for approx. 6 months.

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Date: February 2019 Order No. 078768

DESCRIPTION

Westafill Special lacquer is a ready-to-use, weather-resistant, single-component polyurethane lacquer. The cured lacquer is highly abrasion resistant, impact resistant, and chemical resistant.

USE

Westafill Special lacquer is used ashigh-quality edge protection for all Westag and other formwork panels made of wooden composites.

APPLICATION

The prerequisite for good adhesion is a dry, absorbent, oil- and grease-free substrate. During application, the temperature must be at least +5°C. Depending on the temperature, the drying time is approx. 30 to 60 minutes. The panels can be used after approx. 6 hours.

Can be stored for approx. 6 months.

Observe the user instructions. Concrete compatibility has do be checked previously.

Tel. +49 5242 17-1000
Fax +49 5242 17-71000
www.westag-getalit.com
sp.vertrieb@westag-getalit.com

WESTAG & GETALIT AG

Date: February 2019 Order No. 078768

Surfaces/Elements

Doors/Frames

Westag & Getalit AG

Hellweg 15 | 33378 Rheda-Wiedenbrück | Germany

Tel. +49 5242 17-0 | Fax +49 5242 17-71000

www.westag-getalit.com | sp.vertrieb@westag-getalit.com