



TECHNICAL CATALOGUE

Important information on GCC terrace boards















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Valid as of: April 2018

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GCC Terrace System

GCC Terrace System					
Profil	Article name	EAN Code	Colour	Length	HxWmm
	Combiboard 19 x 130 mm	4048533035416	terra brown	300 cm	19 x 130
	Combiboard 19 x 130 mm	4048533035430	graphite	300 cm	19 x 130
	Combiboard 19 x 130 mm	4048533035850	terra brown	400 cm	19 x 130
	Combiboard 19 x 130 mm	4048533035874	graphite	400 cm	19 x 130
	Combiboard 16 x 163 mm	4048533035690	terra brown	300 cm	16 x 163
	Combiboard 16 x 163 mm	4048533035720	graphite	300 cm	16 x 163
	Combiboard 16 x 163 mm	4048533035706	terra brown	400 cm	16 x 163
	Combiboard 16 x 163 mm	4048533035737	graphite	400 cm	16 x 163
	Terrace board 25 x 138 mm	EDDE025138UM300	umbra	300 cm	25 x 138
	Terrace board 25 x 138 mm	EDDE025138TI300	titan	300 cm	25 x 138
	Terrace board 25 x 138 mm	EDDE025138UM400	umbra	400 cm	25 x 138
	Terrace board 25 x 138 mm	EDDE025138TI400	titan	400 cm	25 x 138
	Terrace board 16 x 193 mm	4048533035751	brown	300 cm	16 x 193
	Terrace board 16 x 193 mm	4048533035782	grey	300 cm	16 x 193
	Terrace board 16 x 193 mm	4048533035768	brown	400 cm	16 x 193
	Terrace board 16 x 193 mm	4048533035799	grey	400 cm	16 x 193
	Combiboard 16 x 193 mm	4048533035454	terra brown	300 cm	16 x 193
	Combiboard 16 x 193 mm	4048533035478	graphite	300 cm	16 x 193
	Combiboard 16 x 193 mm	4048533035898	terra brown	400 cm	16 x 193
	Combiboard 16 x 193 mm	4048533035904	graphite	400 cm	16 x 193
	Terrassendiele 19 x 145 mm	4048533575646	fokus grey	300 cm	19 x 145
	Terrassendiele 19 x 145 mm	4048533575622	fokus brown	300 cm	19 x 145
	Terrassendiele 19 x 145 mm	4048533575653	fokus grey	400 cm	19 x 145
	Terrassendiele 19 x 145 mm	4048533575639	fokus brown	400 cm	19 x 145
	Powolit decking board 19 x 245 mm	EDFP019245JA200	ecru	199,5 cm	19 x 245
	Powolit decking board 19 x 245 mm	EDFP019245EC200	jade	199,5 cm	19 x 245
	Powolit decking board 19 x 245 mm	EDFP019245PL200	platin	199,5 cm	19 x 245
	Powolit decking board 19 x 245 mm	EDFP019245EC250	ecru	250 cm	19 x 245
	Powolit decking board 19 x 245 mm	EDFP019245JA250	jade	250 cm	19 x 245
	Powolit decking board 19 x 245 mm	EDFP019245PL250	platin	250 cm	19 x 245
	Construction beam solid, 40 x 40 mm	4048533035485	anthracite	300 cm	40 x 40
	Smooth edge board, smooth	4048533035652	terra brown	300 cm	17 x 60
	Smooth edge board, smooth	4048533035676	graphite	300 cm	17 x 60
	Smooth edge board, structured/polished	4048533035812	brown	300 cm	17 x 60
	Smooth edge board, structured/polished	4048533035836	grey	300 cm	17 x 60
	Smooth edge board	EDLE017060UM300	umbra	300 cm	17 x 60
	Smooth edge board	EDLE017060TI300	titan	300 cm	17 x 60
	Smooth edge board	4048533575684	fokus grey	300 cm	17 x 60
	Smooth edge board	4048533575677	fokus brown	300 cm	17 x 60
	Smooth edge board POWOLIT	EDLE017072EC240	ecru	239,5 cm	17 x 72
	Smooth edge board POWOLIT	EDLE017072JA240	jade	239,5 cm	17 x 72
	Smooth edge board POWOLIT	EDLE017072PL240	platin	239,5 cm	17 x 72

LIST OF ARTICLES

GCC Terrace System









GCC Terrace system accessories				
	Article name	EAN Code	Colour	L x W x H mm
	ConStep mounting plate for construction beam 40 x 40 mm	4048533021402	black	245 x 136 x 79
	ConStep single mount for construction beam 40 x 40 mm	4048533021419	black	96 x 60 x 55
	ConStep double mount for construction beam 40 x 40 mm	4048533021440	black	214 x 60 x 55
	Mounting shoe incl. screw M6 x 16 mm, washer, nut, 10 units, wood screw 4 x 30mm, adapter	4048533021495	V2A	78 x 40 x 22
	Locking clamp, black one-piece, 50 units/pack	4048533021617	V2A	66 x 24 x 27
	Edge locking clamp, black 2-pce., 25 units/pack	4048533021624	V2A	66 x 18 x 27
	Clip black incl. screws 50 units/pack	4048533021563	V2A	35 x 24 x 7,7
	Edge clip, black, incl. screws 25 units/pack	4048533021570	V2A	35 x 24 x 7,7
	Distanz Fix, 10 units Spacers for heading joints	EDDHUK000006SW	black	162 x 54 x 20
	Arretier Fix for a height locking of the butt joints	EDBFFP000010SW	black	70 x 25 x 5
	Screw for smooth edge board, 10 units/pack M8x 80mm + washer + nut	4048533021471		M8 x 80
	Screw metric M6 x 40, 10 units/pack	EDBFFP000011ED		M6 x 40
	Slot bridge, 20 units/pack for construction beam 40 x 40 mm	4048533021464	V2A	55 x 10 x 8
	Connecting shoe for construction beam 40 x 40 mm	4048533021433	grey	2.050 x 60 x 28
	Spiked band 10 m (on a roll)	4048533021501	black	10.000 x 14 x 2
	Safety tape, self-adhesive 10 m (on a roll)	4048533021532	black	10.000 x 10 x 1,2
	Rubber pad 3 mm	4048533021600	black	100 x 60 x 3
	Rubber pad 10 mm	4048533021594	black	100 x 60 x 10
	Rubber pad 20 mm	4048533021587	black	100 x 60 x 20
	Lower edge fixing screws 92 mm, TX 30, for lower edge 40 x 40 mm	4048533021655	galvanized	92 x 7,5
	ConStep rubber pad 3 mm	4048533021686	black	300 x 300 x 3
	ConStep rubber pad 5 mm	4048533021679	black	300 x 300 x 10
	ConStep rubber pad 10 mm	4048533021662	black	300 x 300 x 20

LIST OF ARTICLES

GCC Fence system

GCC Fence system					
Profil	Article name	EAN Code	Colour	Length	HxWmm
	EYE-CATCHER panel, 1.602 mm	EDPK270035EC160	ecru	160,2 cm	35 x 270
	EYE-CATCHER panel, 1.602 mm	EDPK270035PL160	platin	160,2 cm	35 x 270
	EYE-CATCHER panel, 1.602 mm	EDPK270035JA160	jade	160,2 cm	35 x 270
	EYE-CATCHER panel, 2.100 mm	EDPK270035EC210	ecru	210 cm	35 x 270
	EYE-CATCHER panel, 2.100 mm	EDPK270035PL210	platin	210 cm	35 x 270
	EYE-CATCHER panel, 2.100 mm	EDPK270035JA210	jade	210 cm	35 x 270
	EYE-CATCHER posts oval, 60 x 90 mm	EDPF060090TE220	terra brown	220 cm	60 x 90
	EYE-CATCHER posts oval, 60 x 90 mm	EDPF060090GP220	graphite	220 cm	60 x 90
	EYE-CATCHER posts oval, 60 x 90 mm	EDPF060090TE270	terra brown	270 cm	60 x 90
	EYE-CATCHER posts oval, 60 x 90 mm	EDPF060090GP270	graphite	270 cm	60 x 90
	EYE-CATCHER bar, 40 x 112 mm	EDKB040112TE179	terra brown	178,6 cm	40 x 112
	EYE-CATCHER bar, 40 x 112 mm	EDKB040112GP179	graphite	178,6 cm	40 x 112

GCC Fencing system accessories				
	Article name	EAN Code	Colour	L x W x H mm
	EYE-CATCHER panel holder 16 units	EDBFPA000002ED	stainless steel	245 x 136 x 79
	EYE-CATCHER bar connectors 4 units incl. 16 screws M6 x 30 mm	EDBFKB000001SW	black	96 x 60 x 55
	EYE-CATCHER base plate incl. 4 screws M8 x 80 mm	EDBFPF000003ED	stainless steel	120 x 120 x 55
	EYE-CATCHER stainless steel bar 42 x 60 mm	EDRI042060ED177	stainless steel	1.773 x 42 x 60
	Insert bar for stainless steel bar 19 x 23 mm	EDEL019023GR177	grey	1.770 x 19 x 23
	EYE-CATCHER accessories set for stainless steel bar incl. post fastening (4 rotary flange + accessories)	EDBFRI000012ED	stainless steel	95 x 45 x 50



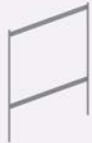
GCC Fencing system with stainless steel bar				
	Article name	EAN Code	Colour	L x W x H mm
	EYE-CATCHER fence set with stainless steel bar Comprising of:			
	7 Panels 1805 mm			
	2 stainless steel bars incl. post fastening 1773 mm	EDEK035177EC185	ecru	1.789 x 40 x 1.854
	1 insert bar for stainless steel bar 1770 mm	EDEK035177PL185	platin	1.789 x 40 x 1.854
	1 accessories set for stainless steel bar	EDEK035177JA185	jade	1.789 x 40 x 1.854

LIST OF ARTICLES

GCC Construction wood



GCC Construction wood					
Profil	Article name	EAN Code	Colour	Length	HxB mm
	Construction wood oval, 60 x 90 mm	EDK0060090TE360	terra brown	360 cm	60 x 90
	Construction wood oval, 60 x 90 mm	EDK0060090GP360	graphite	360 cm	60 x 90
	Construction wood, 40 x 112 mm	EDKB040112TE360	terra brown	360 cm	40 x 112
	Construction wood, 40 x 112 mm	EDKB040112GP360	graphite	360 cm	40 x 112
	EYE-CATCHER door no filling, incl. fittings 1,020 x 1,850 mm, Mortice lock with pre-aligned profile cylinder, Individual design. on request	EDTR040102TE185 EDTR040102GP185	terra brown graphite		1,850 x 1,020 1,850 x 1,020
	EYE-CATCHER frame Comprising of: 2 units 40x145mm const. planks. each measuring 2.700mm 1 unit 40x145mm construction plank. measuring 1.172mm	EDZR040112TE200 EDZR040112GP200	terra brown graphite		1.120 x 2.000 1.120 x 2.000

GCC EYE-CATCHER assembly					
Profil	Article name	EAN Code	Colour	Length	HxB mm
	EYE-CATCHER standard section assembly Consists of: Assembly of the bar connectors Drilling of the holes for the panel holders	EDKONF0001	Individual design. on request		
	EYE-CATCHER adapted section assembly Consists of: Reduction in the width / height of the elements and assembly of the bar connectors Drilling of the holes for the panel holders	EDKONF0002	Individual design. on request		
	EYE-CATCHER diagonal section assembly Consists of: Diagonal sections and assembly of the bar connectors Drilling of the holes for the panel holders	EDKONF0003	Individual design. on request		

GCC terrace boards

Material description

German Compact Composite (GCC) is a polymer-bound wooden material and comprises to 75 % natural fibres, high quality polymers, suitable additives and dyes.

Characteristic properties and advantages

- high resistance to external environmental influences
- can be processed as easily as normal wood
- laying with a clamp system
- high surface hardness, anti-slip
- wood entirely from sustainable forestry
- imbued and ready-to-use surface
- resistant to mould infestation in accordance with IHD-Standard 20-25 (2006)

Technical data			
Property		Unit	GCC ₁
Thickness		g/cm ³	>1.2
Breaking force*		N	≥3.200
Swelling after coldwater storage (28 days)	Mass	Weight %	≤4.0
	Length	%	≤0.3
	Width	%	≤0.6
	Thickness	%	≤4.0
Slip resistance	Friction coefficient		≥0.43
Behaviour when subjected to stress variations		%	≤20
Thermal expansion coefficient		10 ⁻⁶ / K	15.6

The values were calculated using test specimens and can fluctuate for production reasons. They are therefore to be seen as being guideline values.

*) The value is valid for each of the boards with a support clearance (centre support) of 40 cm, except for the bottom plate, as a pad spacing (middle edition) of 50 cm!

1.) Threshold values for GCC Terrace Boards.

Production-related dimensional tolerances for GCC terrace boards (130 mm)		
	Stipulation	Tolerance range
Length	300 cm, 400 cm	±0.0 / + 10.0 mm
Width	130 mm	-2.0 / + 1.0 mm
Thickness	19 mm	-1.0 / + 1.0 mm

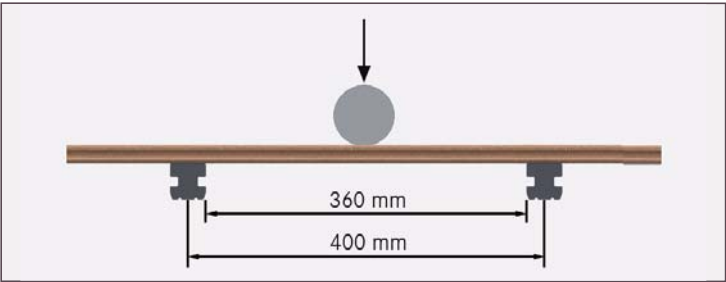
Production-related dimensional tolerances for GCC terrace boards (163/193 mm)		
	Stipulation	Tolerance range
Length	300 cm, 400 cm	±0.0 / + 10.0 mm
Width	163, 193 mm	-2.0 / + 1.0 mm
Thickness	16 mm	1.0 / + 1.0 mm

Production-related dimensional tolerances for GCC terrace boards/decking board (145/245 mm)		
	Stipulation	Tolerance range
Length	199.5 cm, 250 cm, 300 cm, 400 cm	±0.0 / + 2.0 mm
Width	145, 245 mm	-2.0 / + 1.0 mm
Thickness	19 mm	-1.0 / + 1.0 mm

1. Mechanical proper ties of the GCC terrac e boards

Three point bending:
Clear span of the support: 360 mm
Testing speed: 20 mm/min
Breaking force: min. 3,200 N*

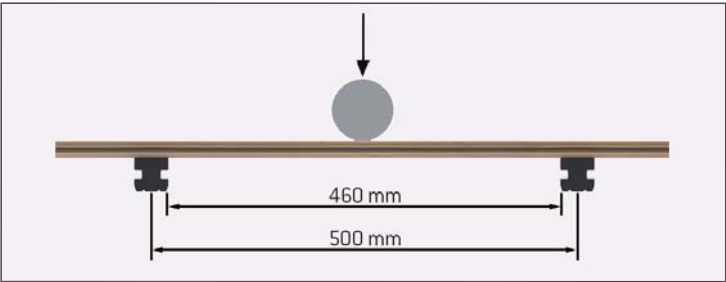
* 3.200 N corresponds to ≈ 320 kg/board with a 40 cm support clearance (centre support) of the subconstruction beam.



2. Mechanical proper ties of the GCC decking board

Three point bending:
Clear span of the support: 460 mm
Testing speed: 20 mm/min
Breaking force: min. 3,200 N*

* 3.200 N corresponds to ≈ 320 kg/board with a 50 cm support clearance (centre support) of the subconstruction beam.



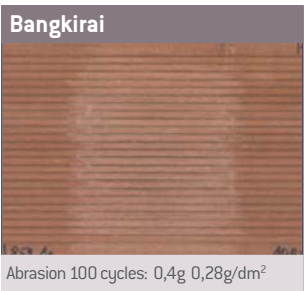
3. Permissible dimensional changes after water absorption

Permissible dimensional changes after water absorption* GCC terrace boards			
Dimension	Measuring Point	Permissible Dimensional Changes Warranted Values	Remarks
Length	Maximum value	Board length 300 cm	≤ 9.0 mm
		Board length 400 cm	≤ 12.0 mm
			≤ { 3 mm/m }
Width (max. 245 mm)	Centre board		max.≤ 1.2 mm
Thickness (max. 19 mm)	Centre board		≤ 0.5 mm

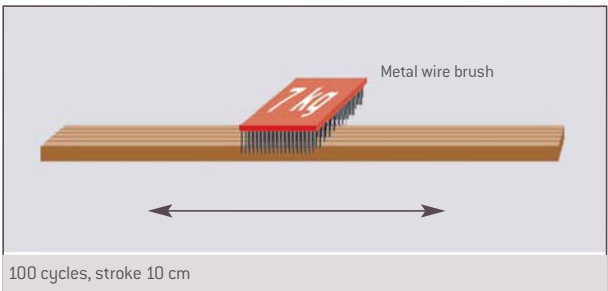
* with outdoor weather exposure and construction with adherence to the construction instructions

GCC Terrace boards and Bangkirai

Comparative abrasion test


































Abrasion test conditions



COLOUR MATURATION

The high dosing accuracy results in a very good product homogeneity. Our products are not manufactured using an intermittent process, but in a continuous one. The mix is pressed through the the shaping tool under high pressure after passing through a discharge extruder. After production, rotating steel brushes are used to remove the polymer surface, the result being an optically haptic wood surface. The material wood makes its mark on our innovative product with its natural characteristics. The visible colour fluctuations can be the result of the the lignin.

At the start of its life, the product has a bright and glossy colour. It should be taken into account that it is a natural product that is subject to a colour maturation as a result of being subjected to weathering. The processed chipboard darkens during the first weeks, from a slight yellow shimmer to a rich and fine colour. It is important that the board is laid in the brushing direction (laying arrow), as the surface effect (lawnmower effect) could otherwise differ due to the fibre orientation.

	Brown	Grey	Terra brown	Graphite	Umbra	Titan	Fokus brown	Fokus grey	Ecru	Platin	Jade
After laying											
After 1 – 2 months*											
After 6 – 8 months*											

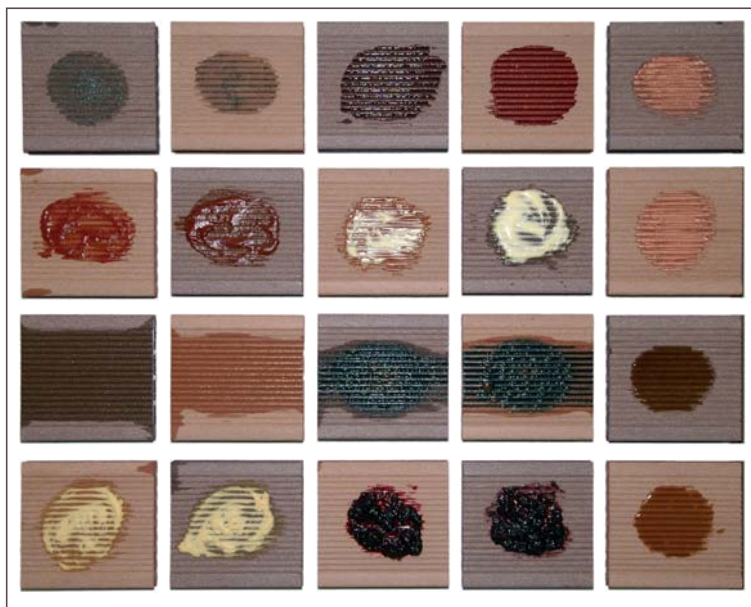
* Exemplary illustrations of natural color maturation

The natural colour maturation is tested in the accelerated weathering tester. Hereby, the solar radiation and humidity are simulated in periodic changes, 1000 hours of weathering correspond to around one year of outdoor weathering.



The quality of our products is inspected on a daily basis. The product is only shipped after the quality inspection has been completed.

How can stains be removed?



Extensive tests in our laboratory have produced the following results:

We have subjected our terrace boards to the best known soiling. The results have shown us that normal soiling can be removed best with clear water, conventional cleaning appliances and some patience. After cleaning with tap water and a couple of days of being subjected to light, the majority of the stains were no longer visible. Fine dust stains (such as soot and metallic dust) are to be avoided under all circumstances. This can cause permanent optical impairments.



Natural fibre encasement before treatment



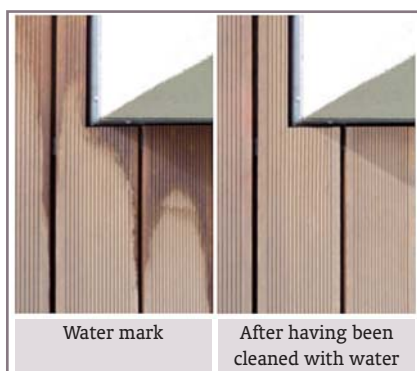
Natural fibre encasement after mechanical treatment
(e.g. brass brush, chisel or natural weathering)

Natural fibre encasement (Bast)

GCC consists of up to 75 % natural fibres. They are specially treated, dried and supplied to production in a closed system. Due to the raw material, other natural fibres, such as bast (transitional layer between bark and wood) could become encased. These particles could reach the surface following weathering.

Only 0.03 % of the surface should be affected by this. The particle size must not exceed 0.5 cm². These particles will mostly disappear in time through use (abrasion) of the terrace. They can also be removed mechanically

This does not damage the product. In accordance with EPLF (European Laminate Floor Association), the particles that are visible at head height when light is shining on them vertically are used for evaluation purposes.



Water mark

After having been
cleaned with water

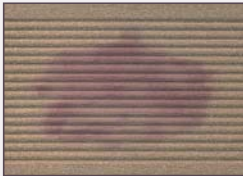












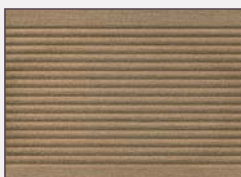
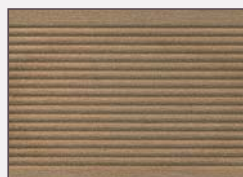


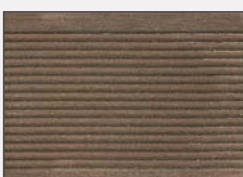
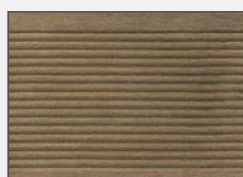



Water marks

Water marks could form on partially covered terraces at the transitional roofed/uncovered area. Rainwater is washed over the surface to the roof and later dry dust particles are briefly moistened, then dry and remain on the surface. This effect does not have an effect on the quality of the boards and is not a ground for complaint. The water marks can normally be removed using tap water and conventional cleaning appliances.

This effect weakens with time, but it cannot be completely prevented.

/// CARE TIPS

Timeline

	Begin washed	7 days	14 days
Blackberries			
Coffee			
Mustard			
Ketchup			
Cream dressing			
Red wine			
Copper paste			
Soot, oil			

1. Test of the resistance to mould

1.1 Test information

Test principle:

Shaped test specimens were subjected to mould formation by them being vaccinated with a defined mixture of spores. As the test specimen is intended for outdoor use, some of the test specimens were subjected to a washing out prior to the biological test being conducted. In order to simulate a nutrient intake by soiling in the practice, testing was carried out under intensified conditions, i.e. with addition of a nutrient solution.

The test batches were incubated for a period of four weeks in conditions that support the growing and germination of mould. The evaluation of the mould growth as a test criteria was carried out after 7, 14 and 28 days on the basis of a specified classification.

Test variants:

- Standard test without nutrient solution and without aging
- Standard test without nutrient solution and after subjection to washing out
- Intensified test with nutrient solution and without aging
- Intensified test with nutrient solution and after subjection to washing out

Underlying test procedure:

The test was on the basis of IHD Standard 20-25 (2006): "Test of the Resistance of Construction and Wood Materials to Mould", based on EN 60068-2-10:2005 "Environmental Influences - Parts 2-10: Test procedures – Test J and Guideline: Mould Growth" (IEC 60068-2-10:2005).

Tested mould:

Aspergillus niger, Paecilomyces variotii, Penicillium funiculosum, Trichoderma viride, Chaetomium globosum

Cultivation conditions:

28-days incubation in an incubator at 29°C and 95% rel. air humidity

Sterilisation procedure:

Pressure cooker (100°C, 2 x)

Aging prior to test:

Saturation without a vacuum for 7 days with 6 times water exchange (based on DIN EN 84)

Test specimen dimensions:

Test material: 50 x 20 x 5 mm³

Reference material: 50 x 25 x 15 mm³ (pine splint), 60 x 60 x 20 mm³ (MDF)

Date of test specimen installation/removal:

26 January 2006 / 23 February 2006

1.2 Results

Table 3: Test **without prior subsection to washing out**:

Vegetation on top surface of specimen after 28 days (average values from 6 individual values)

No.	Material	Average Rating Number			
		External infection		Self-inspection	
		Standard test	Intensified test	Standard test	Intensified test
1)	WPC H40-05, grey	1	1	1	1
2)	WPC H41-05, brown	1	1	1	1
3)	Bangkirai	1	3	1	3

Table 4: Test **after prior subsection to washing out**:

Vegetation on top surface of specimen after 28 days (average values from 6 individual values)

No.	Material	Average Rating Number			
		External infection		Self-inspection	
		Standard test	Intensified test	Standard test	Intensified test
1)	WPC H40-05, grey	1	1	1	1
2)	WPC H41-05, brown	1	1	1	1
3)	Bangkirai	1	3	1	3

Evaluation scheme:

0 No mould growth on the test specimen surface when observed under a reflected light microscope and a 50-fold enlargement.

1 Mould growth not or barely detectable with the naked eye but clearly detectable with a 50-fold enlargement.

2 Mould growth clearly detectable with the naked eye and considerably weaker than on the comparison test specimens.

3 Mould growth clearly detectable with the naked eye and equal to or stronger than on the comparison test specimens.

Table 5: Wood humidity after test without prior **washing out**

(Average values from 6 individual values)

No.	Material	Average Rating Number			
		External infection		Self-inspection	
		Standard test	Intensified test with nutrient solution	Standard test	Intensified test with nutrient solution
1)	WPC H40-05, grey	13.7	13.3	12.0	13.1
2)	WPC H41-05, brown	12.0	11.7	11.4	12.1
3)	Bangkirai	21.6	21.3	19.3	20.2
4)	Ref. pine splint	26.9	27.4	26.8	27.0
5)	Ref. light MDF	26.4	26.2	29.2	25.1

1.4 Photos



Fig. 3: Selected test specimens after the mould test: no vegetation macroscopically detectable.

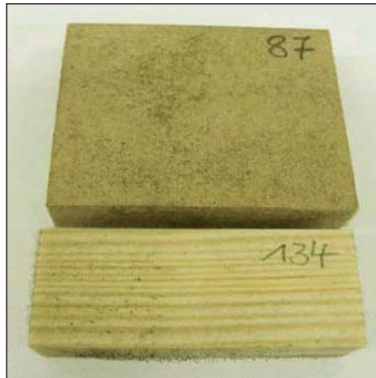


Fig. 4: Reference test specimen after mould test: vegetation clearly detectable (top: MDF, bottom: pine splint).

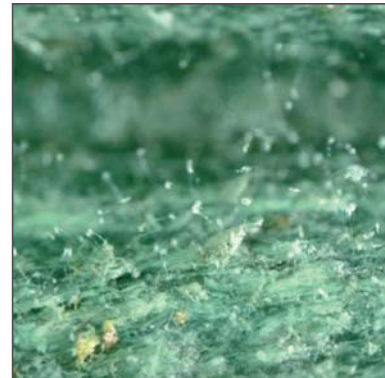


Fig. 5: Mould on test specimen 10 (H40), 40-fold enlargement.

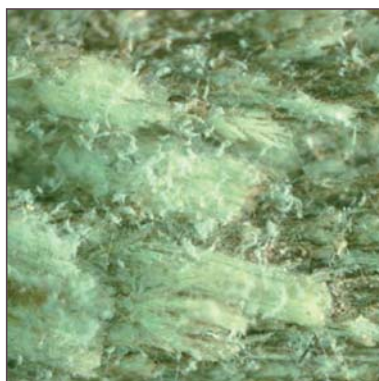


Fig. 6: Mould on test specimen 22 (H41), 40-fold enlargement.



Fig. 7: Mould on test specimen 59 (H40), 40-fold enlargement.

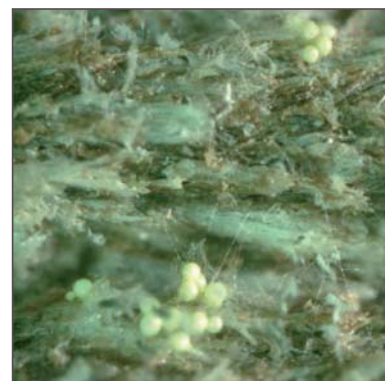


Fig. 8: Mould on test specimen 72 (H41), 70-fold enlargement.

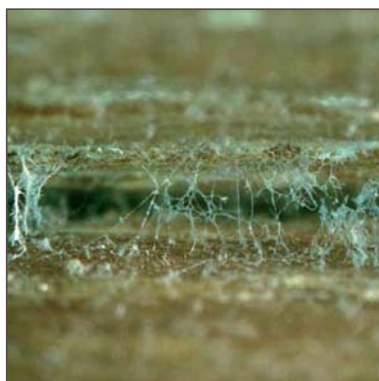


Fig. 9: Mould on test specimen 77 (Bangkirai), 50-fold enlargement.

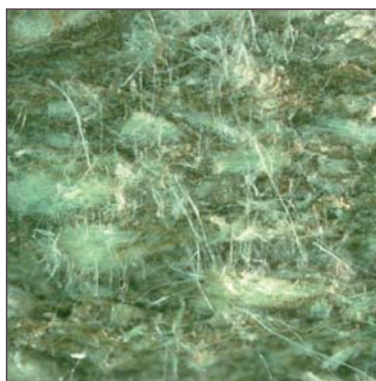


Fig. 10: Mould on test specimen 122 (H41), 40-fold enlargement.

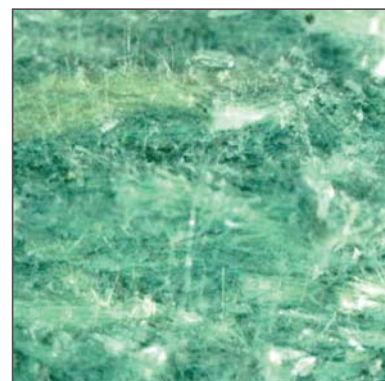


Fig. 11: Mould on test specimen 161 (H40), 40-fold enlargement.

Table 6: Wood moisture after testing **with prior subsection to washing out**
(Average values from 6 individual values)

No.	Material	Average Rating Number			
		External infection		Self-inspection	
		Standard test	Intensified test with nutrient solution	Standard test	Intensified test with nutrient solution
1)	WPC H40-05, grey	13.7	14.9	13.5	12.6
2)	WPC H41-05, brown	13.1	12.7	12.1	12.3
3)	Bangkirai	21.7	20.9	20.4	21.6
4)	Ref. pine splint	27.2	27.6	27.1	27.4
5)	Ref. light-MDF	25.3	26.3	26.9	27.6

1.5 Evaluation/Summary

Due to the structure and colour of the WPC material, the mould vegetation was not detectable with the naked eye (Fig. 3). When observed under a reflected-light microscope however, it was clear that mould was growing on the tested variants "H40-05" and "H41-05" (Figs. 5 to 11), but at a clearly lower level than on the comparison MDF and pine split test specimens. The vegetation on Bangkirai was low when applying the standards tests and high when applying the intensified test after additional nutrients had been added. The subsection of WPC and Bangkirai to washing out did not have a significant influence on the mould resistance.

The evaluation of the resistance to mould is based on the following scheme

(IHD works standard VA20-25):

Bonitation level	Field of application	
	Indoor area ¹⁾	Outdoor area ²⁾
0	Resistant	Resistant
1	Moderately resistant	Resistant
2	Not resistant	Moderately resistant
3	Not resistant	Not resistant

¹⁾ All areas, where the material comes into contact with room air of common rooms.

²⁾ All areas that are not covered by the definition of indoor areas.

As the tested materials were terrace decks for outdoor areas, the final evaluation is based on the result of the test variant "intensified test condition with subsection to washing out": The laboratory tests showed that the WPC variants "H40-05" and "H41-05" are resistant to mould when used outdoors, whereby this is not the case with regard to Bangkirai.



Dipl.-Biol. Katharina Plaschkies
Responsible Clerk

Dresden, 28 February 2006

1.) Material and Manufacturer Designation

Product designation:

Material/substance type:

Use:

Manufacturer:

German Compact Composite

Polymer bonded wood material

Production of extruded profiles and injection moulded elements

NOVO-TECH GmbH & Co. KG

Siemensstraße 31 • D-06449 Aschersleben, Germany

Tel.: +49 (0) 3473 / 22503 - 0

Fax: +49 (0) 3473 / 22503 - 15

2.) Chemical Composition / Components Information

Composition:

Cellulose

CAS-Nr.: 9004-34-6 30 – 40 %

Hemicellulose

CAS-Nr.: 9025-53-2 18 – 24 %

Lignin

CAS-Nr.: 9005-53-2 12 – 16 %

HDPE

CAS-Nr.: 9002-88-4 0 – 40 %

3.) Possible risks

No health or environmental risks if used and handled correctly.

4.) First Aid Measures

No special measures required

5.) Firefighting measures

Suitable extinguishing agents:

water jet spray, foam, CO₂, extinguishing powder

6.) Measures in Case of Unintentional Release:

Person-related measures:

no special measures required.

Cleaning:

absorb mechanically (e.g. vacuuming)

7.) Handling and Storage

Storage:

smoking prohibited in the storage area.

Fire prevention measures:

open flame prohibited.

Handling:

to avoid electrostatic discharges, the production and handling equipment should be made of electrically conductive material and be well earthed.

With thermal processing:

extract vapours and/or ensure working areas are sufficiently ventilated.

8.) Exposure limit and personal protective equipment

Work hygiene:

comply with general protective and hygiene measures:

Always wash hands before eating, drinking, smoking or using the lavatory.

General protective measures:

ensure sufficient aeration and ventilation during processing.

Skin protection:

not required

Eye protection:

not required

9.) Physical and Chemical Properties

Form:

granulate

Colours:

brown, black, multicoloured

Odour:

wood

pH-value (with 100g/l H₂O and 20°C):

4,5 – 6,5

Melting point:

not applicable

Fire protection classification:

Flame retardant material according to DIN EN 13501-1:2010,

Classification normal: D_n-s1 (old B2)

Classification difficult: C_n-s1

Boiling point (1013 hPa):

not applicable

Flashpoint:

not applicable

SAFETY INSTRUCTIONS

Ignition point:	Approx. 420°C (DIN 51 795)
Explosion limits:	not applicable
Migration:	Toy suitability according to DIN EN 71-3
Vapour pressure (20°C):	not applicable
Density (20°C):	>1,2 kg/m ³
Solubility in water (20°C):	insoluble
Product designation:	polymer bonded wood materialf

10.) Stability and Reactivity

Stability:	product is stable under normal conditions. Thermal decomposition starts at approx. 180°C.
Dangerous reactions:	none known
Hazardous decomposition products:	incomplete combustion releases carbon monoxide and possibly other hazardous substances such as soot, for example.

11.) Allergens

The product does not contain any of the 14 allergen materials that are subject to mandatory declaration in accordance with the EU Food Information Regulation 1169/2011.

12.) Toxicological Information

No hazardous effects known when handled correctly.

13.) Ecological Information

The product is a wood polymer mixture that is insoluble in water and does not have any negative environmental impacts in environmental conditions. Up to 75% of the product is made from renewable raw materials.

14.) Disposal Notes

According to the European Waste Catalogue (EWC), wood PE belongs to the group of wastes from wood processing and the manufacturing of boards and furniture and to the waste type of sawdust, chips, cut waste, wood, chipboard and veneers without toxic substances, Code 03 01 05. The product can be recycled 100 % using suitable process technology. The product must be disposed of in accordance with disposal and treatment rules and regulations of the local authorities (e.g. waste incineration, waste dumps).

15.) Transport Information

Not subject to mandatory labelling/markings acc. to Directive 67/548/EEC, the Hazardous Substances Ordinance (GefStoffV) and other rules and regulations. Not a hazard acc. to applicable transport rules and regulations.

16.) Wind load strain of terrace surfaces

Lifting loads caused by wind suction must be taken into consideration when dealing with terrace floorboards that are laid parallel to the supporting construction. Dead weight in combination with the respectively designed sub-construction must compensate for these lifting loads. Depending on the plank thickness and the associated sub-construction, no lifting of the planks is expected in normal areas. Prevention against lifting must be planned on the basis of the guidelines and standards in exposed terrace areas, in the event of special boundary conditions as well as in particularly high locations.

17.) Rules and Regulations

EEC-labelling:	not subjected to mandatory labelling accord. to EEC rules and regulations.
Risk symbols, R-phrases and S-phrases:	not required.
Water pollution class:	WPC 0 (not hazardous to water)

18.) Additional Information

The information provided here mirrors the current state of knowledge and experience and serves to describe the safety-related aspects of the product. This information is not deemed to be a warranty or guarantee of product properties, however.

This product safety sheet was prepared in accordance with the second revision of directive 91/155/EEC on the basis of directive 2001/58/EC of the Commission from 27 July 2001.

This safety data sheet is valid for the following:	GCC Polymer bonded wood material
Valid as of:	05.01.2018

DELIVERY FORMS AND PACKAGING UNITS



GCC Terrace System

GCC Combiboard (19 x 130 mm)				Package contents 108 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
300	324.00	7.71*	42.12	832.70*
400	432.00	10.28*	56.16	1,110.20*

GCC Combiboard (16 x 163 mm)				Package contents 84 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
300	252.00	8.85*	42.12	743.60*
400	336.00	11.80*	56.16	991.40*

GCC Terrace board (25 x 138 mm)				Package contents 98 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
300	294.00	6.32*	40.57	619.16*
400	392.00	8.42*	54.10	825.55*

GCC Terrace board (16 x 193 mm)				Package contents 70 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
300	210.00	10.94*	42.12	765.50*
400	280.00	14.58*	56.16	1,020.60*

GCC Combiboard (16 x 193 mm)				Package contents 60 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
300	210.00	10.59*	42.12	741.30*
400	280.00	14.12*	56.16	988.40*

GCC Terrace board (19 x 145 mm)				Package contents 98 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
300	294.00	9.99*	42.63	979.02*
400	392.00	13.32*	56.84	1,305.36*

GCC decking board (19 x 245 mm)				Package contents 80 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
199,5	159.6	12.17*	39.10	973.56*

GCC decking board (19 x 245 mm) special length				Package contents 1 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
250	245.0	15.25*	60.02	1,494.5*

GCC Construction beam (40 x 40 mm)				Package contents 50 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
300	900.00	4.95*	42.12	1,485.00*

GCC Smooth edge board (17 x 60 mm)				Package contents 64 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
300	192.00	3.96*	24.96	253.25*

GCC Smooth edge board (17 x 60 mm) for 19 x 145 mm board				Package contents 64 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
300	192.00	3.96*	11.52	253.44*

DELIVERY FORMS AND PACKAGING UNITS

GCC Terrace System

GCC Smooth edge board, structured/polished (17 x 60 mm)				Package contents 64 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
300	192.00	3.81*	24.96	243.84*

GCC Smooth edge board, smooth (17 x 60 mm)				Package contents 64 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
300	192.00	3.96*	24.96	253.25*

GCC Smooth edge board, smooth (17 x 72 mm)				Package contents 112 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
239,5	268.24	4.26*	19.31	477.47*

GCC Connecting shoe (28 x 60 mm)				Package contents 12 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
205	24.60	1.86*	17.06	22.31*

GCC Terrace System Accessories	Package contents in PU
ConStep mounting plate	288 units
ConStep single mount	120 units
ConStep double mount	30 units
Mounting shoe, 10 units incl. screws	10 units
Locking clamp, black, incl. screws, 50 units/pack	48 packs
Edge locking clamp, black, incl. screws, 25 units/pack	24 packs
Clip black, incl. screws, 50 units/pack	50 packs
Edge clip, black, incl. screws, 25 units/pack	25 packs
Distanz Fix, Spacers for heading joints, 10 units	12 packs
Arretier Fix, for a height locking of the butt joints, 20 units	12 packs
Screw for smooth edge board, M8 x 80 mm + washer + nut, 10 units/pack	10 packs
Wood screw 4 x 30 mm, adapter	
Screw metric M6 x 40 mm, 20 units/pack	10 packs
Slot bridge, 20 units/pack	10 packs
Spiked band, 10 m/roll	1 roll
Safety tape, self-adhesive 10 mm, 10 m/roll	1 roll
Rubber pad 60 x 100 x 20 mm	100 units
Rubber pad 60 x 100 x 10 mm	100 units
Rubber pad 60 x 100 x 3 mm	100 units
Lower edge fixing screws 7.5 x 92 mm incl. bit and drill, TX 30	50 packs
ConStep rubber pad 300 x 300 x 3 mm	80 units
ConStep rubber pad 300 x 300 x 5 mm	80 units
ConStep rubber pad 300 x 300 x 10 mm	40 units

* These weights are approximate. Production processes may vary these weights up to 5 % of the guideline.

DELIVERY FORMS AND PACKAGING UNITS

GCC Terrace System

	Package contents	Package dimensions	Unit	Delivery form
Combiboard 19 x 130 mm	108 units of 6 each next to each other and 18 each on top of each other	780 x 450 mm Lengths 300 cm and 400 cm	2 units each in full foil	In packages on untreated squared timber supports; packaging tape and edge protection
Combiboard 16 x 163 mm	84 units of 6 each next to each other and 14 each on top of each other	980 x 330 mm Lengths 300 cm and 400 cm	2 units each in full foil	In packages on untreated squared timber supports; packaging tape and edge protection
Terrace board 25 x 138 mm	98 units of 7 each next to each other and 7 each on top of each other	970 x 450 mm Lengths 300 cm and 400 cm	2 units each in full foil	In packages on untreated squared timber supports; packaging tape and edge protection
Terrace board 16 x 193 mm	70 units of 5 each next to each other and 14 each on top of each other	970 x 330 mm Lengths 300 cm and 400 cm	2 units each in full foil	In packages on untreated squared timber supports; packaging tape and edge protection
Combiboard 16 x 193 mm	70 units of 5 each next to each other and 14 each on top of each other	970 x 330 mm Lengths 300 cm and 400 cm	2 units each in full foil	In packages on untreated squared timber supports; packaging tape and edge protection
Terrace board 19 x 145 mm	98 units of 7 each next to each other and 7 each on top of each other	1.020 x 370 mm Lengths 300 cm and 400 cm	2 units each in full foil	In packages on untreated squared timber supports; packaging tape and edge protection
Decking board 19 x 245 mm	80 units of 4 each next to each other and 10 each on top of each other	980 x 500 mm Length 199,5 cm	2 units each in full foil	In packages on untreated squared timber supports; packaging tape and edge protection
Decking board 19 x 245 mm	1 unit	980 x 500 mm Length 250 cm	1 unit each in full foil	
Construction beam 40 x 40 mm	50 units of 10 each next to each other and 5 each on top of each other	400 x 305 mm Length 300 cm	not wrapped in foil	In packages on untreated squared timber supports; packaging tape and edge protection
Smooth edge board smooth 17 x 60 mm	64 units of 8 each next to each other and 8 each on top of each other	480 x 240 mm Length 300 cm	4 units each in full foil	In packages on cardboard, untreated squared timber supports; packaging tape and edge protection
Smooth edge board structured/polished 17 x 60 mm	64 units of 8 each next to each other and 8 each on top of each other	480 x 240 mm Length 300 cm	4 units each in full foil	In packages on cardboard, untreated squared timber supports; packaging tape and edge protection
Smooth edge board for board 19 x 145 mm 17 x 60 mm	64 units of 8 each next to each other and 8 each on top of each other	480 x 240 mm Length 300 cm	4 units each in full foil	In packages on cardboard, untreated squared timber supports; packaging tape and edge protection
Smooth edge board smooth 17 x 72 mm	112 units of 14 each next to each other and 8 each on top of each other	1,000 x 240 mm Length 239,5 cm	4 units each in full foil	In packages on cardboard, untreated squared timber supports; packaging tape and edge protection
Connecting shoe 28 x 55 mm	12 units of 3 each next to each other and 4 each on top of each other	167 x 110 mm Length 205 cm	not wrapped in foil	In packages on cardboard, untreated squared timber supports; packaging tape and edge protection

DELIVERY FORMS AND PACKAGING UNITS

GCC Fence system

GCC Eye-catcher panel (35x270 mm)				Package contents 84 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
160.2	134.57	4.53*	36.20	380.83*
180.5	151.62	5.11*	40.79	429.08*
210	176.40	5.94*	47.45	499.21*

GCC Eye-catcher posts oval (60x90 mm)				Package contents 44 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
220	96.80	12.98*	8.91	571.12*
270	118.80	15.93*	10.93	700.92*

GCC Eye-catcher bar (40x112 mm)				Package contents 56 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
178.6	100.02	9.37*	11.20	524.68*

GCC Fencing system accessories

GCC Fencing system accessories	Package contents in PU
EYE-CATCHER panel holder, 16 units/pack	12 units
EYE-CATCHER bar connectors, 4 units incl. M6 x 30 mm screws	28 units
EYE-CATCHER base plate 120 x 120 mm, incl. 4 M8 x 80 mm screws	44 units
EYE-CATCHER stainless steel bar 42 x 60 mm	1 unit
Insert bar for stainless steel bar	1 unit
EYE-CATCHER accessories set for stainless steel bar incl. post fastening, 4 rotary flange + accessories	1 unit

GCC Fence system

	Package contents	Package dimensions	Unit	Delivery form
EYE-CATCHER panel 35x270 mm	84 units of 3 each next to each other and 4 each on top of each other	780 x 450 mm Lengths 160,2 cm, 180,5 cm and 210 cm	7 units each in full foil	In packages on untreated squared timber supports; packaging tape and edge protection
EYE-CATCHER posts 60x90 mm	44 units of 11 each next to each other and 4 each on top of each other	1,110 x 350 mm Lengths 220 cm and 270 cm	1 unit each in full foil	In packages on untreated squared timber supports; packaging tape and edge protection
EYE-CATCHER bar 40x112 mm	56 units of 8 each next to each other and 7 each on top of each other	900 x 360 mm Length 178,6 cm	2 units each in full foil	In packages on untreated squared timber supports; packaging tape and edge protection
EYE-CATCHER fence set with stainless steel bar 1,789 x 1,854 mm	1 unit	350 x 160 mm Length 195 cm	not wrapped in foil	Inca pallet; carton; packaging tape and edge protection

DELIVERY FORMS AND PACKAGING UNITS



GCC Construction wood

GCC Construction wood oval (60 x 90 mm)				Package contents 44 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
360	158.40	21.24*	14.57	934.56*

GCC Construction wood (40 x 112 mm)				Package contents 56 units
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
360	201.60	18.89*	22.58	1,057.59*

GCC Door (1.020 x 1.850 mm)				Package contents 1 unit
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
185	-	43.50*	-	0.00*

GCC Frame (1.120 x 2.000 mm)				Package contents 1 unit
Length in cm	running meter	kg/unit	sqm/pack	kg/pack
200	-	44.68*	-	0.00*

	Package contents	Package dimensions	Unit	Delivery form
Construction wood oval 60 x 90 mm	44 units of 11 each next to each other and 4 each on top of each other	990 x 325 mm Length 360 cm	1 unit each in full foil	In packages on untreated squared timber supports; packaging tape and edge protection
Construction wood 40 x 112 mm	56 units of 8 each next to each other and 7 each on top of each other	900 x 360 mm Length 360 cm	1 unit each in full foil	In packages on untreated squared timber supports; packaging tape and edge protection
Door 1,020 x 1,850 mm	1 unit	200 x 1,020 mm Length 185 cm	not wrapped in foil	In packages on untreated squared timber supports; packaging tape and edge protection
Frame 1,120 x 2,000 mm	1 unit	400 x 1,120 mm Length 200 cm	not wrapped in foil	In packages on untreated squared timber supports; packaging tape and edge protection

* These weights are approximate. Production processes may vary these weights up to 5 % of the guideline.



Die HW-Zert GmbH, von PEFC Deutschland e. V. anerkannt und notifiziert, bestätigt hiermit, dass das Unternehmen

NOVO-TECH GmbH & Co. KG

Siemensstraße 31
06449 Aschersleben

mit den auf Seite 2 genannten Standorten

ein betriebliches Kontrollsystem unterhält, das mit den



Chain-of-Custody-Anforderungen von PEFC

Programme for the Endorsement of Forest Certification
gemäß des deutschen Standards PEFC D 1003:2013
"Produktkettennachweis für Holzprodukte - Anforderungen" Deutsche Übersetzung des Internationalen
PEFC- Standards PEFC ST 2002:2013 in der aktuell
gültigen Fassung (siehe hierzu auch www.pefc.org)
übereinstimmt.

Es wurde nachgewiesen, dass die Anforderungen bezüglich der

Methode der physischen Trennung

erfüllt sind und angewendet werden. Das Unternehmen hat mit der
HW-Zert GmbH einen Begutachtungsvertrag abgeschlossen und wird
jedes Jahr auditiert. Dieses Zertifikat berechtigt dazu, die im Geltungs-
bereich benannten Produkte/Produktgruppen nach der o. g. Methode
als **PEFC-zertifiziert** zu verkaufen.

Art des Zertifikates:

Einzelzertifikat

PEFC-Scope:

Other primery forest industries

Geltungsbereich:

**Produkte aus
Holz-Polymer-Werkstoffen**

Registriernummer HW-Zert GmbH:


HW-CoC-0354-14

Datum der Ausstellung:

09.02.2015

Dieses Zertifikat ist gültig bis:

31.05.2019


Horst Gleißner
Geschäftsführer


Wilfried Stech
Geschäftsführer

HW-Zert GmbH, Gallersberg 10, 85395 Attenkirchen
Telefon 08168 9979915, Fax 08168 9979916
www.hw-zert.de, E-Mail: info@hw-zert.de



Die HW-Zert ist notifiziert in Belgien, Dänemark, Deutschland, Finnland, Frankreich, Großbritannien, Irland, Italien, Kanada, Malaysia, Niederlande, Österreich, Polen, Portugal, Schweden, Schweiz, Slowakei, Slowenien sowie über PEFC international in allen Ländern ohne eigenes PEFC-System.

ZERTIFIKAT CERTIFICATE



ANLAGE zum PEFC-CoC-Zertifikat der HW-Zert GmbH
Nummer HW-CoC-0354-14 vom 09.02.2015

bezüglich der Chain-of-Custody-Anforderungen von PEFC
für das Unternehmen

NOVO-TECH GmbH & Co. KG

Siemensstraße 31
06449 Aschersleben

Das Zertifikat umfasst neben der o. g. Zentrale folgende Standorte:

ERFURT.SASSE Industry Holding GmbH & Co. KG
Siemensstraße 29
06449 Aschersleben

NOVO-TECH Trading GmbH & Co. KG
Siemensstraße 31
06449 Aschersleben

Dieses Zertifikat ist gültig bis:

31.05.2019


Horst Gleißner
Geschäftsführer


Wilfried Stech
Geschäftsführer



Deutsche
Akkreditierungsstelle
D-ZE-18039-01-00

HW-Zert GmbH, Gellersberg 10, 85395 Attenkirchen
Telefon 08168 9979915, Fax 08168 9979916
www.hw-zert.de, E-Mail: info@hw-zert.de



Summary of the anti-slip properties

	Anti-slip pursuant to standard DIN 51130 (R classes)
Combiboard 19 x 130 mm	conforms with R 12
Combiboard 16 x 163 mm	conforms with R 12
Terrace board 25 x 138 mm	conforms with R 12
Terrace board 16 x 193mm	conforms with R 10
Combiboard 16 x 193 mm	conforms with R 10
Terrace board 19 x 145 mm	conforms with R 11
Powolit decking board 19 x 245 mm	conforms with R 10

BAUSTOFFPRÜFSTELLE Wismar GmbH

PROFEN - GEBÄUDEPROFEN - ZERTIFIZIERUNG

NOVO-TECH Trading GmbH & Co. KG

Siemensstraße 31
06449 Aschenleben

BAUSTOFFPRÜFSTELLE Wismar GmbH
Lübcke Straße 109, 23960 Wismar
Tel.: 0 38 41 / 79 23 06, FAX: 0 38 41 / 79 30 75

Prüfbericht - Nr. 0953/17-V

Antragsteller: NOVO-TECH Trading GmbH & Co. KG

Antragessache: Prüfung von Bar-
- Bestimmung r/
- Naßbelastete
- Bestimmung
- Arbeitsbreite
- Begehr
nach D

Antragstag: 30.05.17

Einlieferungsdatum: 31.7.17

Prüfungstag: 0

Bezeichnung des Erzeugnisses:

Anzahl:

Hersteller bzw. Herkunft:

Ursprungsnachweise:

Der Prüfbericht umfasst
Zusatz Prüfbericht Nr. 10
Dieser Prüfbericht Nr. 10
Beinhaltet weitere Nachweise

Beschreibung der Probe:

Farbe/Gestaltung: beige/farben bis hellbraun

Oberfläche: fein geriffelt

Vorbereitung des Prüfbelages:

Es wurde ein Prüfbelag von 100 x 50 cm durch Verlegen auf einer selbsttragenden, verzugsfreien Platte hergestellt. Die Fugenbreite betrug dabei 5 mm. Vor Beginn der Prüfung erfolgte die Reinigung des Belages mit einem trockenen Tuch. Die Prüfung erfolgte parallel zur Längsstruktur.

Mittlerer Neigungswinkel:

Versuch-Nr.	korrigierter Akzeptanzwinkel DIN 51 130 Schiefe Ebene [°]	Neigungswinkel DIN 51097 naßbelastete Barfußbereiche [°]
1	11,5	26,4
2	11,1	28,1
3	10,8	28,3
4	12,1	27,3
5	11,4	25,1
6	10,7	24,3
7	-	25,7
8	-	25,4
Mittelwert	11,3	26
korrigierter mittlerer Neigungswinkel α_{90} für u.a. Bewertungsgruppe	> 10 - 19	-
mittlerer Neigungswinkel für u.a. Bewertungsgruppe	-	≥ 24

Bewertungsgruppe:

Die Barfußweise ist gemäß der ermittelten Prüfergebnisse nach den Richtlinien der
- DIN 51130 in die Klasse der Rutschhemmung R 10 und nach einzuordnen.
- DIN 51097 in die Bewertungsgruppe C

Dipl.-Ing. (FH) Ch. Schürmann
Prüfingenieur

Dipl.-Ing. E. Stöck
Leiterin der Prüfstelle

[illegible]

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www.novo-tech.de • info@novo-tech.de

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**Information:**

All of the information is valid if the product is assembled in accordance with the construction instructions and the intended use with outdoor weathering. This brochure can be adapted to technical progress without prior announcement. The colours in photos and graphic depictions can deviate for printing reasons.

