TERAFEST® FACADES

PORTFOLIO
2025

TERAFEST

PROFILES

150 PANEL

45 MINISTAR 90 STAR

90 RHOMBA

50 BONE
50 MINIBONE

SURFACES

FOREST

SMOOTH unbrushed

SMOOTH brushed

RUSTIC

SMOOTH unbrushed

SMOOTH brushed

RUSTIC

SMOOTH unbrushed

SMOOTH brushed

COLOURS

Cedar

Teak

Palisander

Mahagon

Inox

Eben

Cedar

Teak

Palisander

Mahagon

Inox

Cedar

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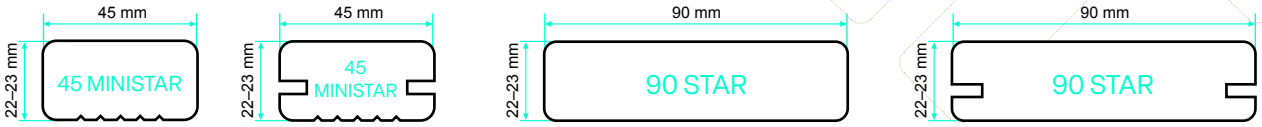
Eben

TERAFEST

TERAFEST® FACADE
45 MINISTAR, 90 STAR

PROFILE

Facade profiles 90 STAR and 45 MINISTAR are flat full cladding products made of TERAFEST® material. Its can be used vertically or horizontally and combined with each other. Its minimalist design allows you to create smooth and elegant facades with a variable gap between the individual profiles, which can achieve an interesting visual effect. The products are supplied in a variant with a straight edge or with a groove for a clip. This groove is fully compatible with the grooves on TERAFEST® decking boards.



PROPERTIES

profile	dimension	length	weight
90 STAR	90 × 23* mm	2 – 4 m	2,5 kg/lm
90 STAR (with groove)	90 × 23* mm	2 – 4 m	2,4 kg/lm
45 MINISTAR	45 × 23* mm	2 – 4 m	1,25 kg/lm
45 MINISTAR (with groove)	45 × 23* mm	2 – 4 m	1,15 kg/lm

*Variant with surface RUSTIC 22 mm, variant with surface SMOOTH 23 mm

SURFACES & COLOURS

Both profiles are available in 3 variants of surfaces. The basic variant is the brushed RUSTIC surface. This surface and its colour match the TERAFEST® decking boards. The second option is brushed SMOOTH surface. The third option is the unbrushed SMOOTH surface, in which the full shades of TERAFEST® colours stand out.

The underside of the 45 MINISTAR has unbrushed fine grooves.

The 90 STAR and 45 MINISTAR façade profiles are available in the following colours.

TERAFEST

45 MINISTAR, 90 STAR

TECHNICAL PROPERTIES

Application and certified properties

The use of 90 STAR and 45 MINISTAR products and their certification is set up as façade cladding elements of the perimeter walls. They fully comply with the European standard for cladding WPC elements ČSN EN 15534-5 and its can also be used abroad in projects in the EU. The test procedures are based on the ČSN EN 15534-1+A1 standard and related standards.

CONSTRUCTION TECHNICAL APPROVAL

Properties	Standard	Value	
Shrinkage after thermal stress	ČSN EN 479	0 %	
Impact resistance from falling weights / Impact strength	ČSN EN 477	Intact	
Reaction to fire	EN 13501-1 EN 11925-2	E	
Swelling	ČSN EN 317	Average values: ⩽ 10% in thickness ⩽ 1.5% in wide ⩽ 0.6 % in length	Individual values: ⩽ 12% in thickness ⩽ 2.0% in width ⩽ 1.2 % in length
Water absorption	ČSN EN 317	Average ⩽ 8.0% by weight Individual Values ⩽ 10.0% by weight	
Bending properties – deflection at 250 N	ČSN EN 321	⩽ 5 mm	
Bending properties – deflection at 250 N after cyclic load	ČSN EN 321	⩽ 6 mm	
Cadmium content	Expert test method	< 1 mg / 1 kg	
UV resistance (before/after aging)		2,58 kJ/m²/2,61 kJ/m²	

Test results from the Construction Technical Certificate in accordance with the Declaration of Conformity according to §7 Government Order 163/2002 Coll.

Other features

Properties	Standard	Value
Density	EN ISO 1183-1	1,21-1,24 g/cm³
STAR/MINISTAR resistance to screw pullout Fmax (FASADO screw 4.2 × 28 mm TEX)	ČSN EN 1382	1,266 KN

Extended fire properties

Parameter	Standard	Value
Gross calorific value	ČSN EN ISO 1716	27,094 MJ/kg

Calculated values of the heat released in a fire

Gap between profiles	Heat released in a fire		Fire openness of the area
	90 Star	45 Ministar	
6 mm	706 MJ.m²	664 MJ.m²	Completely fire-open
13 mm	658 MJ.m²	584 MJ.m²	
17 mm	608 MJ.m²	503 MJ.m²	
30 mm	542 MJ.m²	415 MJ.m²	

Furthermore, an extended static calculation of the variable wind load according to Eurocode 1 with adaptation for the Czech Republic (ČSN EN 1991-1-4) was performed. This calculation and application manual is available on request for the project preparation of larger buildings.

TERAFEST

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Company is registered in the Commercial Register administered by the City Court in Prague, File Nr. B 25100.

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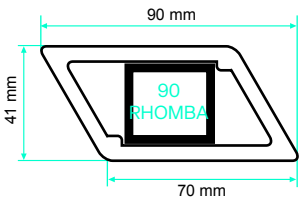
TERAFEST

TERAFEST® FACADE
90 RHOMBA

PROFILE

The 90 RHOMBA product is a lightweight, thin-walled profile made of TERAFEST® composite material. It has many uses. It can be used as a cladding profile for building facades, but also as an element of partial shading of the façade and terrace. It has also been certified as a balcony infills.



PROPERTIES

profile	dimension	length	weight
90 RHOMBA	90(70) × 41 mm	1 – 3 m	1,9 kg/lm

SURFACES & COLOURS

The profile is available in 3 variants of surfaces. The basic variant is the brushed RUSTIC surface. Its surface and colour match the TERAFEST® decking boards. The second option is brushed SMOOTH surface. The third option is the unbrushed SMOOTH surface, in which the full shades of TERAFEST® colours stand out.

The underside and sides of 90 RHOMBA are always in SMOOTH unbrushed finish.

RUSTIC

SMOOTH BRUSHED

SMOOTH UNBRUSHED

90 RHOMBA façade profiles are available in the following colours.

CEDAR

TEAK

PALISANDER

MAHAGON

INOX

90 RHOMBA

TECHNICAL PROPERTIES

Application and certified properties

The product 90 RHOMBA is used as a façade cladding element, as a sunshade and as a balcony filling. The certified properties are based on ČSN EN 15534-5 and the STO was issued according to the Czech national standard ČSN 74 3305 as a balcony railing infill (in accordance with the Prague Building Regulations 2024).

CONSTRUCTION TECHNICAL APPROVAL

Properties	Standard	Value	
Shrinkage after thermal stress	ČSN EN 479	0 %	
Impact resistance from falling weights / Impact strength	ČSN EN 477	Intact	
Reaction to fire	EN 13501-1 EN 11925-2	E	
Swelling	ČSN EN 317	Average values: ⩽ 10% in thickness ⩽ 1.5% in wide ⩽ 0.6 % in length	Individual values: ⩽ 12% in thickness ⩽ 2.0% in width ⩽ 1.2 % in length
Water absorption	ČSN EN 317	Average ⩽ 8.0% by weight Individual Values ⩽ 10.0% by weight	
Cadmium content	Expert test method	< 1 mg / 1 kg	
UV resistance (before/after aging)		2,58 kJ/m²/2,61 kJ/m²	
Impact resistance (railing infill with a gap of 80 mm, railing height 1100 mm, used for railings protecting against falling to a depth of 30 m)	ČSN 74 3305	without puncture	

Test results from the Construction Technical Certificate in accordance with the Declaration of Conformity according to §7 Government Order 163/2002 Coll.

Extended fire properties

Parameter	Standard	Value
Gross calorific value	ČSN EN ISO 1716	27,094 MJ/kg

Calculated values of the heat released in a fire

Gap between profiles	Heat released in a fire	Fire openness of the area
30 mm	379 MJ.m²	Fully open
50 mm	316 MJ.m²	Partially open
50 mm (vertically installation)	391 MJ.m²	Fully open

Furthermore, an extended static calculation of the variable wind load according to Eurocode 1 with adaptation for the Czech Republic (ČSN EN 1991-1-4) was performed. This calculation and application manual is available on request for the project preparation of larger buildings.

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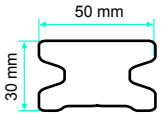
TERAFEST

TERAFEST® FACADE
50 BONE, 50 MINIBONE

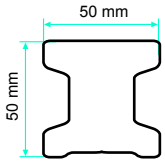
PROFILE

The 50 BONE and 50 MINIBONE products are universal decorative products, usable e.g. as sunshades and balcony panels. They are fully coloured and their composition fully corresponds to TERAFEST® products.

50 MINIBONE



50 BONE



PROPERTIES

profile	dimension	length	weight
50 BONE	50 × 50 mm	2 – 4 m	2,3 kg/lm
50 MINIBONE	50 × 30 mm	2 – 4 m	1,4 kg/lm

SURFACES & COLOURS

Profiles are supplied only with smooth surface, without emboss, i.e. in the SMOOTH surface finish. All sides of the product are SMOOTH unbrushed. Only brushing of the upper side of the profiles (SMOOTH brushed) is possible. The underside of the profile has a shallow „cutout“. However, this part is also fully colored.

SMOOTH BRUSHED

SMOOTH UNBRUSHED

The 50 BONE and 50 MINIBONE profiles are available in the following colours.

TERAFEST

50 BONE, 50 MINIBONE

TECHNICAL PROPERTIES

Application and certified properties

The profiles are used as sunshades and balcony panels infills or decoration element. The basic technical properties are certified according to the general standard for WPC products ČSN EN 15534-1+A1. Use as balcony fillings is tested according to the national standard ČSN 74 3305 (in accordance with Prague Building Regulations 2024).

TECHNICAL parameters

Properties	Standard	Value	
Shrinkage after thermal stress	ČSN EN 479	0 %	
Reaction to fire	EN 13501-1 EN 11925-2	E	
Swelling	ČSN EN 15534-1+A1, čl.8.3.1.	Average values: ≤ 10% in thickness ≤ 1.5% in wide ≤ 0.6 % in length	Individual values: ≤ 12% in thickness ≤ 2.0% in width ≤ 1.2 % in length
Water absorption	ČSN EN 15534-1+A1, čl.8.3.1.	Average ≤ 8.0% by weight Individual Values ≤ 10.0% by weight	
Density	EN ISO 1183-1	1,21-1,24 g/cm^3	
Cadmium content	Expert test method	< 1 mg / 1 kg	
UV resistance (before/after aging)		2,58 kJ/m^2/2,61 kJ/m^2	
Impact resistance (railing infill with 80 mm gap, railing height 1100 mm, use for railings protecting against falling to a depth of 30 m) - only for profile 50 BONE	ČSN 74 3305	without puncture	

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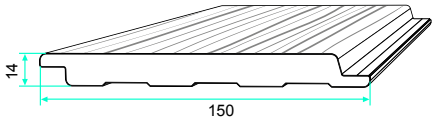
TERAFEST

TERAFEST® FACADE
150 PANEL

PROFILE



PROPERTIES

profile	surface	dimension	standard length	weight
PROFIL 150 PANEL	FOREST	150 × 14 mm	3,3 m	2,1 kg/lm

Dimensional tolerances: length +/- 10 mm, width +/- 2 mm, thickness +/- 1 mm.

COLOURS

TERAFEST

150 PANEL

TECHNICAL PROPERTIES

Application and certified properties

The products have been certified as wall cladding profiles, according to ČSN EN 15534-5 and can be used in the Czech Republic and throughout the EU.

CONSTRUCTION TECHNICAL APROVAL

Parameter	Standard	Value
Maximum support spacing under load 250 N		500 mm
Reaction to fire	ČSN EN ISO 11925-2	E, E_{fl}
Swelling	ČSN EN 317	2,6 %
Water absorption	ČSN EN 317	3,1 %
Shrinkage after thermal stress	ČSN EN 479-2018	0%
Impact resistance 23 °C a -10 °C	ČSN EN 477	10 J – pass
Deflection under load 250N	ČSN EN 15534-1	4,33 mm
Deflection under load of 250N after cyclic moisture stress	ČSN EN 15534-1	5,02 mm
Cadmium content		>1 mg/kg

Other Properties

Parameter	Standard	Hodnota
Thermal expansion +30 až +80 °C		$2,57*10^{-5}$ K^{-1}
Surface hardness		91 N/mm^2
Density	EN ISO 1183-1	1,21-1,24 g/cm^3
Thermal conductivity	EN ISO 22007-2	0,072 W/(m*K)

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