

Specifications



Esthec®

Esthec Terrace

ARCHITECTURAL COMPOSITE DECKING

This comfortable and contemporary terrace /deck system embellishes and enhances any space with its functional properties and sense of luxury, Esthec® Terrace (hereinafter "Esthec") offers unprecedented freedom in color and texture, which allows the terrace to be integrated into an overall design scheme Esthec is supplied in a standard plank size. Esthec offers the owner and architect technical and aesthetic advantages. Esthec supports the trend to limit the use of scarce natural resources.

HOW TO SPECIFY

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Glass fiber reinforced composite decking.

1.2 RELATED SECTIONS

- A. Framing.

1.3 REFERENCES

	METHOD	RESULT	UNITS
A.	Din 51 961 Action on cigarette heat typical result	0	mm
B.	DIN 51097 Anti slip properties	Pass -30 degrees	degree angle
	DIN EN 13451	Pass -30 degrees	degree angle
C.	NTA 7909, 2003NL Coefficient of friction (dry)	Pass >0,7	
D.	NTA 7909, 2003NL Coefficient of friction (wet)	Pass >0,8	
E.	Bolidt Test 2012 Freeze/thaw stability	Pass	
F.	DIN 53 505 Hardness of Surface	40-50	Shore D
G.	DIN 52 612-1 Heat Conductivity	0.2	W/mK
H.	DIN 53 752 Linear Coefficient of thermal expansion.	12-16* 10(-6power)	mm/K
I.	Bolidt Test 2012 Operational temperatures	-30 / + 70	degrees C
J.	ASTM D-4060-2010 Resistance to surface wear	<130	mm ³
K.	BS EN 13036 Skid Resistance	>115	
L.	DIN 50 988-2 Standard length	3000	mm +/- 1 mm
M.	DIN 50 988-2 Standard height	20	mm +/- 0,1 mm
N.	DIN 50 988-2 Standard width	100	mm +/- 0,1 mm
O.	NEN-EN 13717 Strength Flexural Axial	4.800	N
	Static load span 500 mm at break	20	mm +/- 1 mm
P.	NEN-EN 13718 Strength flexural transversal	1.250	N
	Static load span 100mm at break	4	mm +/- 1 mm
Q.	Bolidt Test 3110 Strength compression axial	6.000	N
R.	DIN 50 988-2 System Height	23mm	mm +/- 0,1 mm
S.	NEN-EN 13706 Water absorption	<0.2	% weight
T.	DIN 50 988-2 Weight system	1,65	kg +/- 0,25kg/m ¹

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1.4 SUBMITTALS

- A. Product Data: Indicate sizes, profiles, surface style, and performance characteristics.
- B. Samples: For each product specified, one sample, minimum size 152 mm long, representing actual product, color, and finish.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Storage and Handling:
 - 1. Never drop ESTHEC materials when unloading.
 - 2. Store on a flat surface and cover with non-translucent material.
 - 3. When carrying ESTHEC planks, carry on edge for better support.
 - 4. Refer to installation instructions for additional guidelines on each product.

1.6 WARRANTY

- A. Warranty: Limited Warranty against warping, splintering, swelling, cracking, fading in sunlight or be susceptible to termites or other insects for a period of 10 years for residential applications and 5 years for commercial applications, beginning from date of purchase based on the terms of the Warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on products by: BOLIDT KUNSTOFTOEPASSING BV.
- B. Substitutions: Not permitted.

2.2 APPLICATIONS/SCOPE

- A. Supply & install ESTHEC TERRACE - Fiber reinforced glass fiber member with Composite Top coat as per the manufacturers details.
- B. Material Description: Composite plank consisting of FRP extruded into sizes and shapes indicated with the following physical properties:
 - 1. ESTHEC TERRACE DECKING PLANKS: 3000mm(L) x 20mm(H) x 100mm(W).
 - 2. Color:
 - a. ESTHEC TERRACE – “MOOD” blend of 3 slightly different shades.
 - 1. Edges are Smooth for blind fastening with concealed ESTHEC CLIP A, C or Hurricane Clip D or E for Cyclonic Areas
 - 2. Surface texture - Brushed
 - b. ESTHEC TERRACE – “MYSTERY” blend of 3 slightly different shades.
 - 1. Edges are Smooth for blind fastening with concealed ESTHEC CLIP A, C or Hurricane Clip D or E for Cyclonic Areas
 - 2. Surface texture - Brushed
 - c. ESTHEC TERRACE – “DELICATE” blend of 3 slightly different shades.
 - 1. Edges are Smooth for blind fastening with concealed ESTHEC CLIP A, C or Hurricane Clip D or E for Cyclonic Areas
 - 2. Surface texture - Brushed

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- d. ESTHEC TERRACE – “AROMA” blend of 3 slightly different shades.
 - 1. Edges are Smooth for blind fastening with concealed ESTHEC CLIP A, C or Hurricane Clip D or E for Cyclonic Areas
 - 2. Surface texture - Brushed
- e. ESTHEC TERRACE – “EMOTION” blend of 3 slightly different shades.
 - 1. Edges are Smooth for blind fastening with concealed ESTHEC CLIP A, C or Hurricane Clip D or E for Cyclonic Areas
 - 2. Surface texture - Brushed
- f. ESTHEC TERRACE – “ESSENCE” blend of 3 slightly different shades.
 - 1. Edges are Smooth for blind fastening with concealed ESTHEC CLIP A, C or Hurricane Clip D or E for Cyclonic Areas
 - 2. Surface texture - Brushed
- g. ESTHEC TERRACE – “BLANC DE BLANCS” in 1 solid color.
 - 1. Edges are Smooth for blind fastening with concealed ESTHEC CLIP A, C or Hurricane Clip D or E for Cyclonic Areas
 - 2. Surface texture - Brushed

2.3 ACCESSORIES

- A. Fasteners:
 - 1. Concealed Fasteners: hidden fasteners A, C, D or E.
 - 2. Screws: No.8, 50 mm stainless steel or high quality coated composite deck screws.
 - 3. Direct Screw Withdrawal Force when tested in accordance with ASTM D-1761:787 lbs/in.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Install according to manufactures instructions.
- B. Cut using a high performance diamond blade, drill, and rout using carbide tipped blades.
- C. Pre-drill holes located no closer than 40 mm from ends of plank.
- D. Cut ends square.
- E. Do not use Esthec Terrace material for structural applications.
- F. Use a dust mask and protective eye wear.

3.2 FINISHING & CLEANING

- A. Clean surfaces regularly with a composite cleaner such as ESTHEC GREEN CLEANER and ESTHEC ECO CLEANER.
- B. Apply Esthec® Nano Sealer to a clean and dry surface as per the manufacturers’ installation guide.

END OF SECTION