

Esthec® Terrace

COMMERCIAL GRADE COMPOSITE DECKING

This comfortable and contemporary terrace / deck system embellishes and enhances any space with its functional properties and sense of luxury, “ESTHEC*” Terrace 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 – SHORT FORM

Supply & install ESTHEC TERRACE - Commercial Grade Composite Decking, as per the drawings & manufacturers installation guide.

Material Description: Composite Plank consisting of a Fiber Reinforced Glass Member structural base, with Composite Top Coat and proprietary fixing clips, extruded into sizes and shapes indicated with the following physical properties, Color & Certification:

ESTHEC TERRACE DECKING PLANKS:

- 3000mm(L) x 20mm(H) x 75/100/175mm(W) with a system height of 23mm including clips.
- Slip Rating Certifications - R11 (Ramp Angle Wet) , P4 (Wet Pendulum) & C (Wet Bare Foot)
- 5kpa Load Rating @ 500mm centre's
- Fire Certification ASISO 9239 - 6.3 Fire Rating / Smoke < 197% min
- Min Clearance Height = 0mm (Covered under warranty)
- Color – Mood / Mystery / Emotion / Delicate / Aroma

END OF SECTION

HOW TO SPECIFY – LONG FORM

Supply & install ESTHEC TERRACE - Commercial Grade Composite Decking, as per the drawings & manufacturers installation guide.

Material Description: Composite Plank consisting of a Fiber Reinforced Glass Member structural base, with Composite Top Coat and proprietary fixing clips, extruded into sizes and shapes indicated with the following physical properties, Color & Certifications:

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Composite decking.

1.2 RELATED SECTIONS

- A. Section 06-1100 - Wood Framing.

1.3 REFERENCES

A.	DIN 51 961 Action on cigarette heat typical result	0	mm
B.	Fire Test ASISO 9239 Critical Heat Flux	6.3	kW/m2
	Fire Test ASISO 9239 Smoke Value	197	%. Min
	Fire Test AS/NZS 1530.3	Yes	Pass / Certified
	Fire Test AS/NZS 3837	Yes	Pass / Certified
C.	AS 4586-2013 Pendulum Wet		P4
	AS 4586-2013 Pendulum Dry		D1
	AS 4586-2013 Oil Wet Ramp		R11
	AS 4586-2013 Wet Bare Foot		C
	DIN 51097 Anti slip properties	R13 -30 degrees	unit angle.
	DIN EN 13451	Pass -30 degrees	unit angle
D.	NTA 7909, 2003NL Coefficient of friction (Dry2003NL)		Pass.0,7
E.	Bolidt Test 2012 Freeze , thaw stability		Pass.
F.	NEM-EN-ISO 2813	Gloss<5	GU-60 Degrees.
G.	DIN 53 505 Hardness of Surface	40 – 5	Shore D.
H.	DIN 52 612-1 Heat Conductivity	0.2	W/mk
I.	DIN 53 752 Linear Coefficient of thermal expansion.	12-16* 10 ⁶	mm/K
J.	Bolidt Test 2012 Operational temperatures	-30 / + 70	degrees C
K.	ASTM D-4060-2010 Resistance to surface wear	<130	mm ³ .

L.	BS EN 13036 Skid Resistance	>115	
M.	DIN 50 988-2 Standard length	3000	mm +/- 1mm
N.	DIN 50 988-2 Standard height	20	mm +/- 0.1mm
O.	DIN 50 988-2 Standard width	100	mm +/- 0.1mm
P.	NEN-EN 13717 Strength Flexural Axial	4800	N
	Static load span 500 mm at break	20	mm +/-1 mm
Q.	NEN-EN 13718 Strength flexural transversal	1250	N
	Static load span 100mm at break	4	mm +/- 1mm
R.	Bolidt Test 3110 Strength compression axial	6000	N
S.	DIN 50 988-2 System Height	23mm	mm +/-0.1m
T.	NEN-EN 13706 Water absorption ,	<0.2	% weight
U.	DIN 50 988-2 Weight system	1.65 KG	+/- 0.25kg/m1

1.4 SUBMITTALS

- A. Product Data: Indicate sizes, profiles, surface style, and performance characteristics.
- B. Samples: For each product specified, one sample, minimum size 6 inches 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 rot / decay, twisting / warping, splintering, fading or termite damage for a period of 25 years (Residential) 15 years (Commercial) beginning from date of purchase under normal conditions of use and exposure (refer to full warranty document)

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on products by: ESTHEC – a division of BOLIDT KUNSTOF TOEPASSINGEN BV
- B. Substitutions: Not permitted under Division 01.

2.2 APPLICATIONS/SCOPE

- A. Supply & install ESTHEC TERRACE - Fiber reinforced glass member with Composite

Top coat as per the drawings & manufacturers installation guide:

Material Description: Composite plank consisting of FRP extruded into sizes and shapes indicated with the following physical properties:

- a. ESTHEC TERRACE DECKING PLANKS: 3000mm(L) x 20mm(H) x 100mm(W)
- b. Color:
 - 1) ESTHEC TERRACE – **“MOOD”** blend of 3 slightly different shades
 - a) Edges are Smooth for blind fastening with concealed ESTHEC CLIP A, B, C or Hurricane Clip H for Cyclonic Areas & Cladding Applications
 - b) Surface texture-Brushed
 - 2) ESTHEC TERRACE – **“MYSTERY”** blend of 3 slightly different shades
 - a) Edges are Smooth for blind fastening with concealed ESTHEC CLIP A, B, C or Hurricane Clip H for Cyclonic Areas & Cladding Applications
 - b) Surface texture-Brushed
 - 3) ESTHEC TERRACE – **“DELICATE”** blend of 3 slightly different shades
 - a) Edges are Smooth for blind fastening with concealed ESTHEC CLIP A, B, C or Hurricane Clip H for Cyclonic Areas & Cladding Applications
 - a) Surface texture-Brushed
 - 4) ESTHEC TERRACE – **“AROMA”** blend of 3 slightly different shades
 - a) Edges are Smooth for blind fastening with concealed ESTHEC CLIP A, B, C or Hurricane Clip H for Cyclonic Areas & Cladding Applications
 - c) Surface texture-Brushed
 - 5) ESTHEC TERRACE – **“EMOTION”** blend of 3 slightly different shades
 - a) Edges are Smooth for blind fastening with concealed ESTHEC CLIP A, B, C or Hurricane Clip H for Cyclonic Areas & Cladding Applications
 - d) Surface texture-Brushed

2.3 ACCESSORIES

A. Fasteners:

- a. Concealed Fasteners: hidden fasteners A, B, C or H
- b. Screws: No. 8, 50mm stainless steel or high quality coated composite deck screws.
- c. 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, drill, and rout using carbide tipped blades.
- C. Pre-drill holes located no closer than 40mm from ends of plank.
- D. Cut ends square.
- E. Do not use composite 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
- B. OPTIONAL – For ease of cleaning, apply Esthec® Nano Sealer to a clean and dry surface as per the manufacturers installation guide

END OF SECTION