

iDecking DURO BLADES

sunscreen & pergolas profile

TECHNICAL DATASHEET

▣ *Description*

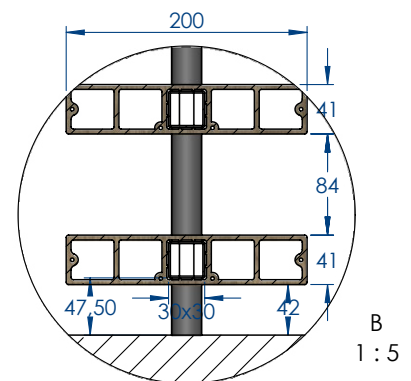
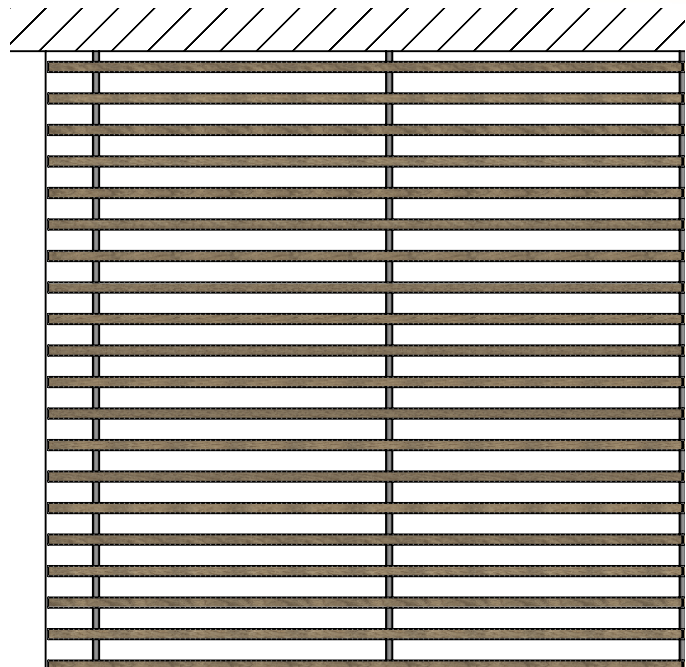
Working with some of the best architects in the world has led us to develop a unique product in our composite range. iDecking Revolution Blades have been developed to satisfy requests for pergolas, fences, gates, blades, fins etc. The Blades measures 41x200 mm and available in the same finishes as our unique DURO and DURO Excellence Composite Material.

▣ *Material*

DURO is a brand new material developed by iDecking Revolution. The main ingredient is rice husks combined with virgin polymers. A secret formula and production process makes the material more versatile, resistant and durable. DURO looks and feels extremely natural. It can be stained or treated for an extra level of protection, just like wood, by using any colour available from iDecking Revolution. DURO is 100% recyclable - the Eco-Friendly composite material Mother Nature herself would have created.

▣ *Use*

iDecking Blades are to be considered as standard profiles. The size 41x200mm is versatile. Its inner structure is engineered in order to give possibility of metal/profile reinforcements. The best use is meant for pergolas, sunscreens, fences, gates etc.etc.



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DURO: Tech Datas & Tests

MATERIAL CHARACTERISTICS

Tensile strenght at break	35.1 N/mm ²	
Elongation at break	3%	
Thermal conductivity	015 W / (mk)	
Density	ca 1280Kg/mt	
Nail withdrawal test	ASTMD 6117	105 N
Screw withdrawal test	ASTMD 6117	312 N
Humidity behaviour	very low humidity absorption no dimensional change	
Water absorption	very low humidity absorption no dimensional change	0,26% ASTM D570
Linear expansion at 40°C Temperature		0,13%

EMISSION TEST

(TUV SINGAPORE, SEPTEMBER 2010)

Formaldehyde emission	<0,01mg per m ³ per hour
PHTALATE EMISSION	
DEHP (Di-ethylhexylphtalate)	<0,003mg per m ³ per hour
DBP (di-n-butylphtalate)	<0,003mg per m ³ per hour
BBP (Benzybutylphtalate)	<0,003mg per m ³ per hour
Fire Behaviour	B1

RAW MATERIAL

rice husks, virgin pvc

HAMBURG UNIVERSITY TESTS

Slipperiness	CEN/TS 15676	pass
Falling mass impact resistance	EN 477	pass
Flexural properties	EN 310	pass
Creep behaviour	EN 15534	pass
Moisture resistance under cyclic test conditions	EN 321	pass
Swelling and water absorption	EN 317	pass
Linear thermal expansion	ISO 11359-2	pass