

Duofuse® wood composite ranch fencing

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Characteristics and tests on Duofuse® wood composite

RPLASTIVAN

Description test	Conducted test	Value	Unit
Density at 20°C	EN ISO 1183-1:2006 Method A	1,39	g/cm ³
Vicat softening temperature	NBN EN ISO 306:2002 Method B	86,2	°C
Traction characteristics			
Traction at 23°C Yield stress	NBN ISO 527-2	35,8	N/mm²
Modulus of elasticity	NBN ISO 527-2	6990	N/mm²
Bending characteristics			
Flexural strength σ_b	ISO 178:2006	67,5	Mpa
Modulus of elasticity (Flexural test) E _b	ISO 178:2006	6460	Mpa
Brinell hardness	EN 1534:2002	111	НВ
Linear modulus of elongation	ASTM D696	1,8 E-05	mm/m/°C
Stress grading	EN 350	1	
Verification of dimensional stability after immersion in water for 28 days	PN-EN317:1999 +Ap1:2002		
	Maximum swelling in thickness	2,66	%
	Maximum elongation in length	0,31	%
Resistance to artificial weathering Xenon Alpha+	EN 513:2002 cycles with rain 18/102 PN-EN 20105-A02:1996	Colour change ≤ 2 on the grey scale	
Verification of dimensional changes under changes of humidity			
from 65% to 85%	PN-EN 1604:1999+A1:2006	0,093	%
from 65% to 30%	PN-EN 1604:1999+A1:2006	0,135	%



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Maintenance



The Duofuse® ranch fencing is easy to clean and special cleaning products are not necessary. For normal maintenance a high pressure cleaner can be used (max. 80 bar). A mild cleaning product can be used. A rotating head is dissuaded. Grease stain and oil can be cleaned with a domestic degreasing agent. For persistent dirt, use a diluted bleach solution (25% bleach 10° and 75% water). Then rinse with large quantities of water. Do not use solvent base materials.

In case of stains:

- 1 Removing the stain immediately: this is the best situation, the stain does not dry and penetrate the material. Clean with water and a mild soap solution.
- 2 The stain isn't removed immediately: this is the worst situation, the stain can dry and penetrate the material. Thoroughly clean with high pressure cleaner.

Scour in the direction of the grooves, the slight decolouration will even out in 6 to 10 weeks.

When the fences have been exposed to some showers, water circles and drips may occur. This is a temporary process which is caused by the release of lignin out of the wood. By rinsing the fences with a garden hose the water circles disappear temporarily. After some time this process stops and the water circles disappear completely.

Colour saturation

The colour saturation occurs with the first exposure to humidity and stabilises after 6 to 8 weeks. Minor colour differences may occur between different production batches due to the fact that 50% of the material is wood.



Warranty

Plastivan NV offers a 10 years warranty for all mechanical properties of the Duofuse® ranch fencing and it is resistant against all ant and insect attacks. The warranty conditions are based on current knowledge and on a correct application of the product.

Plastivan disclaims responsibility for damage caused by, or failure of, the product as a result of faulty installation caused by failure to follow the installation instructions that were available on the Plastivan website at the time of installation. Failure to follow these instructions will void Plastivan warranty. This warranty means we will replace damaged products. All works, withdrawing and replacing boards and related costs (e.g. transport costs) are excluded from warranty.