

duo
fuse[®]
the natural look



WOOD COMPOSITE & ALUMINIUM
GARDEN RANGE



WHAT IS DUOFUSE®

The extensive garden range includes decking boards in different sizes, colours and designs to give your terrace floor a beautiful appearance and pleasant comfort.

To fence off your garden or terrace, you can choose from different fences, all modular and combinable. The tongue and groove system gives your garden an austere, even look. The slatted fence, on the other hand, is a more modern fence with a pleasant play of lines. The open fence allows you to be closed off and still keep the open feeling. The privacy slats are the aesthetic solution for enjoying your garden in all privacy.

All articles can be combined perfectly as they are produced from the same raw materials and in the same colours.

WOOD COMPOSITE

Duofuse® wood composite is a mix of wood flour and PVC. Mixing wood flour and PVC gives rise to an extremely strong combination, which reinforces the advantages of both materials while removing their disadvantages.

This durable material is ecological and maintenance friendly. It is available in a traditional wood colour and in modern shades of grey.

ALUMINIUM

The garden fences are also available in aluminium. They are the best investment for finishing off your garden to perfection. The combination of timelessness and ease of maintenance are ideal for decades of carefree enjoyment of your garden.

ADVANTAGES

- Easy to install
- Easy to maintain, no more oiling or painting

WOOD COMPOSITE

- Will not rot or splinter
- Ecological and recyclable
- Slip resistant, brushed surface
- Minimal discolouration, maintains original look

ALUMINIUM

- Modern and sleek look
- Light and strong
- Does not rust
- Long service life

RANGE DUOFUSE®

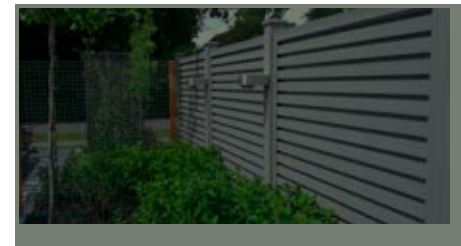
TONGUE & GROOVE BOARDS SYSTEM 10



Wood composite 12

Aluminium 14

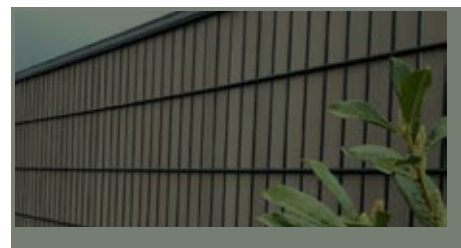
SLAT WALL SYSTEM 18



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TONGUE & GROOVE BOARDS SYSTEM

VERSIONS



DF1B150
Tongue and groove board
wood composite
15 x 2,7 x 180/200 cm
(reinforced with steel)



TROPICAL
BROWN



WENGE
BROWN



STONE
GREY



GRAPHITE
BLACK



DF5BA200
Tongue and groove board aluminium
20 x 2,8 x 200 cm



GREY
RAL 7030



BLACK
RAL 7021

ADVANTAGES

STRONGER AND MORE DURABLE THAN WOODEN FENCES

VERSATILE AND MODULAR

Heights possible for wood composite from 15 cm to 195 cm & for aluminium 20 cm to 200 cm. Wood composite boards can be fixed to the composite posts in 4 directions thanks to the U-profiles. Standard length for wood composite is 180/200 cm & for aluminium 200 cm, can be shortened.

APPLICATIONS

Can be used for garden fences, raised beds, building material for sheds, carports, cabins, storeroom, gates,...



GRAPHITE BLACK

TONGUE AND GROOVE BOARD IN ALUMINIUM

PARTS ALUMINIUM POSTS



TONGUE AND GROOVE BOARD SYSTEM

Garden fences in wood composite/aluminium tongue and groove boards are the durable and modular alternative to hardwood garden fences. They fit every architectural style thanks to their timeless plank structure.

The Duofuse® tongue and groove boards are part of a complete system with all necessary fittings and accessories. Besides the planks and posts, Duofuse® also offers cover caps, small and large U-profiles, internal post holders and gate posts.

The posts are available in wood composite and also in aluminium for customers who want a more modern look.

The handy tongue and groove boards also allows for garden gates, as well as the construction of flowerbeds and containers, a terrace fence or the construction of a wood composite garden house, carport,... Convenient, lasting and worry-free.

TIMELESS
AND
ATTRACTIVE



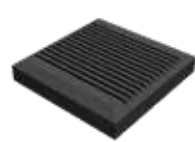
GATE IN WOOD COMPOSITE



DF1G2-1.00
Gate in wood composite
100 x 2,7 x 180 cm
100 x 2,7 x 200 cm
(including door hardware)



DF1PG2-90
Composite gate post
H 3 m
W 90 mm
(reinforced with steel profile)



DF1C11
Composite cover cap
CLASSIC
L 110 mm
W 110 mm



DF1C09
Composite cover cap
DESIGN
L 90 mm
W 90 mm



DF1PAG2-82
Aluminium gate post
H 3 m
W 82 mm



DF1CAG2-8.2
Cover cap DF1PAG2-82
L 148 mm
W 82 mm
(synthetic black)

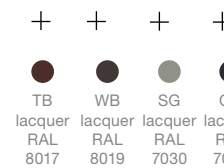
1 kit includes:

- Integrated cylinder lock in stainless steel including 2 keys
- Gate catcher in stainless steel including:
material for installation on WPC gate post
material for installation on aluminium gate post
- Hinges in stainless steel including:
material for installation on WPC gate post
material for installation on aluminium gate post
- Modern door handle in aluminium
- Lock plates in stainless steel

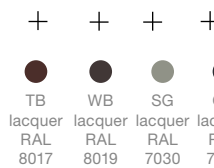
OPTIONAL: DECOPANEL



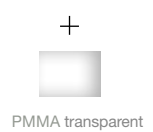
DF1AS
Kit deco square in lacquered
aluminium
30 x 0,6 x 200 cm



DF1AB
Kit deco bubbles lacquered
aluminium
30 x 0,6 x 200 cm



DF1PT
Kit deco transparent PMMA
30 x 0,6 x 200 cm



DF1PO
Kit deco matt PMMA
30 x 0,6 x 200 cm



1 kit includes

tongue profile - 1x 2m (upper finish)
groove profile - 1x 2m (bottom finish)
groove profile - 1x 0,60m (side finish)

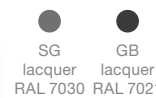
rubber profile - 2x 2m
rubber profile - 1x 0,6m
1 deco panel

Installation guide

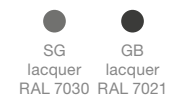
GATE IN ALUMINIUM



DF5GA1.00
Gate in aluminium
100 x 2,8 x 180 cm
100 x 2,8 x 200 cm
(including door hardware)



DF1PAG2-82
Aluminium gate post
H 3 m
W 82 mm



DF1CAG2-8.2
Cover cap DF1PAG2-82
L 148 mm
W 82 mm
(synthetic black)

1 kit includes:

- Integrated cylinder lock in stainless steel including 2 keys
- Gate catcher in stainless steel including:
material for installation on aluminium gate post
- Hinges in black lacquered aluminium including:
material for mounting on aluminium gate post
- Modern door handle in black lacquered aluminium
- Lock plates in black pvc

The Duofuse® tongue and groove plank system also includes gates and gate posts in the same design. Very practical and perfectly integrated in the wood composite and aluminium fence. Unlike wooden gates, they require almost no maintenance.



STONE GREY



STONE GREY



SLAT WALL SYSTEM

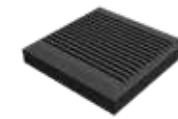
PARTS WOODCOMPOSITE POSTS



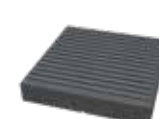
DF4B200
Board
20 x 4 x 200 cm
(reinforced with steel)



DF1P90
Post 9 x 9 x 270/300 cm
(reinforced with an aluminium core)



DF1C11
Cover cap CLASSIC
11 x 11 x 1,7 cm
(to avoid water infiltration in the post)



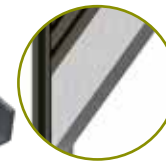
DF1C09
Cover cap DESIGN
9 x 9 x 1,7 cm
(to avoid water infiltration in the post)



DF4U40
U-profile for slat wall system
4 x 5,5 x 202 cm
(fitting system for the boards and to use as finishing profile above the upper board)



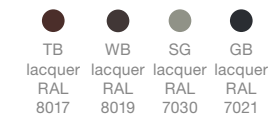
DF1U42
Large U-profile
4,2 x 3,5 x 182 cm
(optional - only needed if a concrete gravel board is used at the base)



DFPH60
Internal post holder tube
6 x 6 x 60 cm
on plate 15 x 15 cm
(optional - only needed when fixing the posts on a terrace, concrete floor or wall)



DF4UBA40
Aluminium bottom profile
4 x 200 cm



DF1SUPA
Aluminium support
(to be used in combination with aluminium profile DF4UBA40 as underprofile)



DF1G2-1.00
Gate
100 x 2,7 x 180 cm
100 x 2,7 x 200 cm
(including door hardware)



DF1PG2-90
Gate post
9 x 9 x 300 cm
(optional - to attach the Duofuse gate to, reinforced with steel core)



ADVANTAGES

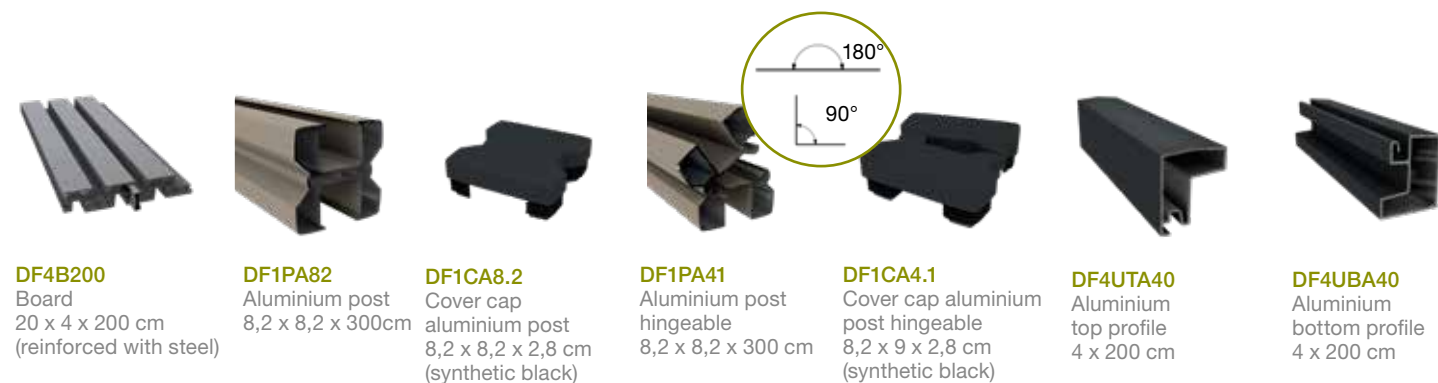
A UNIQUE FENCING SYSTEM THAT COMBINES DESIGN WITH DURABILITY

The distinct perspective and lined structure of the slats also make your garden seem bigger than it actually is.

VERSATILE AND MODULAR

- Heights between 12 cm and 200 cm
- By using the corresponding U-profiles, the boards can be attached to the post in 4 directions
- Standard width of the boards is 200cm but boards can be cut to length.

PARTS ALUMINIUM POSTS



SLAT WALL SYSTEM

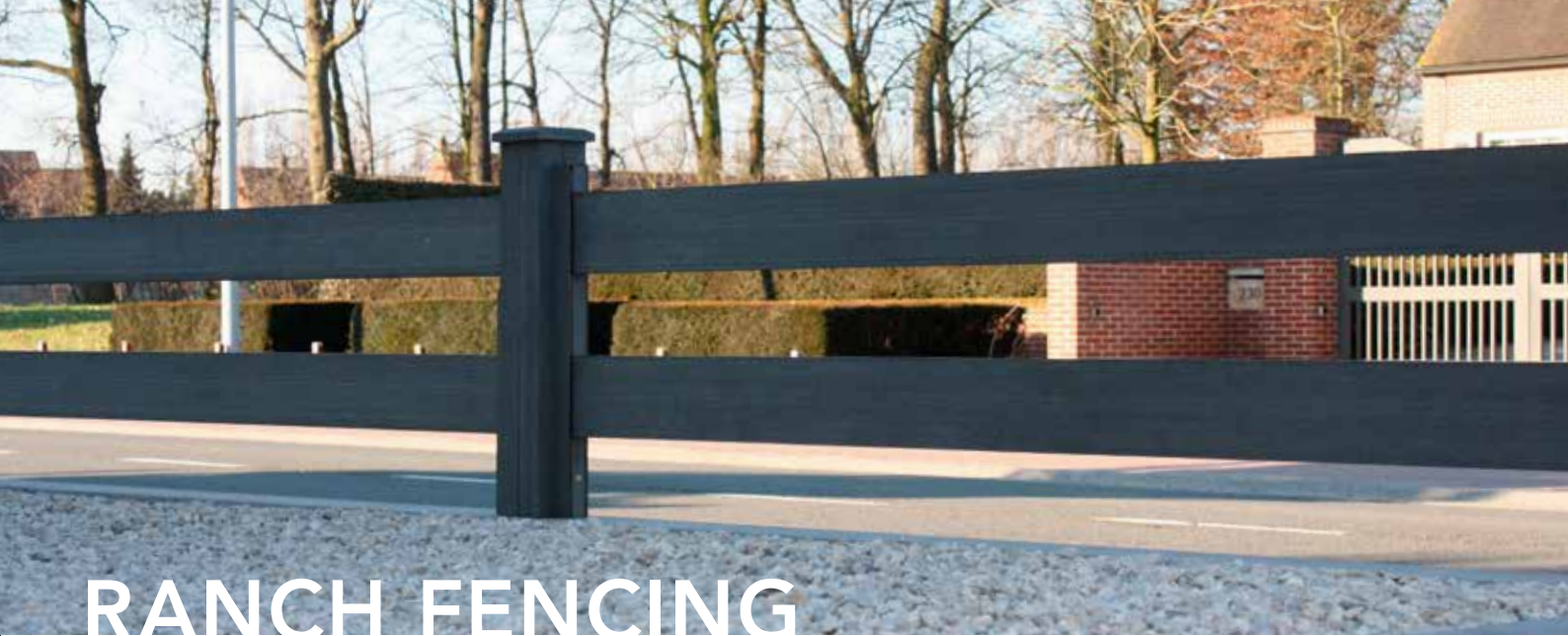
The Duofuse® slat wall system is a unique composite fence that combines design & durability.

A sleek slatted lamellae garden fence is a fixed added value for every house and every garden. They look equally beautiful and exclusive in all circumstances and cannot be distinguished at all from solid wood. The pronounced perspective and lines of the slats also make your garden look larger than it really is.

One of the big advantages of a composite fence is the fact that it never has to be oiled or stained again!

RECYCLABLE
AND
SUSTAINABLE





RANCH FENCING

ADVANTAGES

STRONGER AND MORE DURABLE THAN WOODEN RANCH FENCING, MORE BEAUTIFUL THAN CONCRETE FENCING

VERSATILE AND MODULAR

Heights between 12cm and 200cm are possible.
The number of boards and the space between the boards is free to choose.

APPLICATIONS

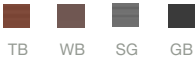
Can be used for fencing for ranches, stables, gardens,... Ranch fencing can also be used in combination with tongue en groove system:

- Lower part can be a closed fencing and upper part open fencing.
- A number of closed fencing and then a number of ranch fencing.
- By using the corresponding U-profiles the boards can be attached to the post in 4 directions.
- Standard width 180 cm (can be shortened)

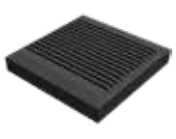
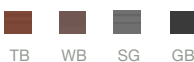
PARTS



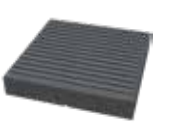
DF3B120
Board
12 x 2,7 x 180 cm
(reinforced with steel)



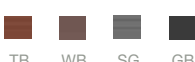
DF1P90
Post
9 x 9 x 270/300 cm
(reinforced with an aluminium core)



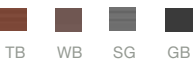
DF1C11
Cover cap CLASSIC
11 x 11 x 1,7 cm
(to avoid water infiltration in the post)



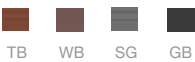
DF1C09
Cover cap DESIGN
9 x 9 x 1,7 cm
(to avoid water infiltration in the post)



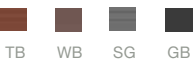
DF1U27
Small U-profile
2,7 x 3,5 x 182/202 cm
(fitting system for the boards)



DF3P27
Opvulprofiel
2,7 x 3,5 x 180 cm
(to create distance between the boards)



DFPH60
Internal post holder tube 6 x 6 x 60 cm on plate 15 x 15 cm (optional - only needed when fixing the post on a terrace, concrete floor or wall)



RANCH FENCING













The durable and modular alternative for wooden or concrete fences. Duofuse offers you the perfect solution to fence off your garden in style or to keep horses, sheep and other animals in their pasture in true country style. Duofuse wood composite enclosures are in any event stronger and more durable than wooden fences, particularly because they do not rot, even in the dampest conditions.

They are also much more attractive and more timeless than concrete fences. The plank posts can be sunk into the ground or mounted on top of a low wall. Duofuse pasture fencing requires no maintenance, so you can spend more time on your animals.



PRIVACY SLATS

PARTS

				
	DFPR30	DFPR35	DFPR43	DFPR47
Width	30 mm	35 mm	43 mm	47 mm
Length	103 - 123 - 153 - 163 - 173 - 183 - 193 - 203 cm	103 - 123 - 153 - 163 - 173 - 183 - 193 - 203 cm	103 - 123 - 153 - 163 - 173 - 183 - 193 - 203 cm	103 - 123 - 153 - 163 - 173 - 183 - 193 - 203 cm
Thickness	3 mm	3 mm	3 mm	3 mm
Colour	  WB GB	  WB GB	  WB GB	  WB GB



DFPR36
Clamping V profile
small PVC
3,6 x 2 x 247 cm

 
WB GB



DFPR44
Clamping V profile
large PVC
4,4 x 2,6 x 247 cm

 
WB GB



DFPRB
Clip
synthetic
12 x 12 x 14 mm


GB



DFPR49
Top profile
PVC small
4,9 x 1,8 x 247 cm

 
WB GB



DFPR49L
Top profile
PVC large
4,9 x 2,3 x 247 cm

 
WB GB



DFPR22
Bottom profile
PVC small
2,2 x 1,8 x 247 cm

 
WB GB



DFPR22L
Bottom profile
PVC large
2,2 x 2,3 x 247 cm

 
WB GB



PRIVACY SLATS

These wood composite slats are the aesthetic solution to enjoy your garden in privacy. They are easy to maintain and easy to install yourself.

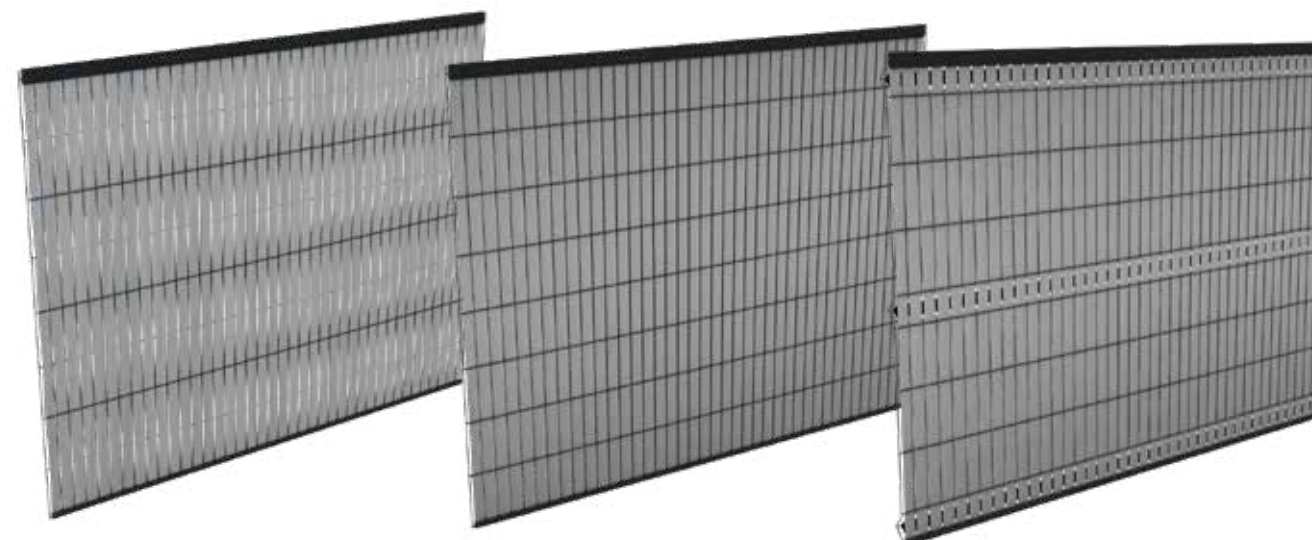
They not only guarantee the necessary privacy, but also provide protection against the wind and can reduce street noise.

The slats are available in different widths and lengths so that they fit into the current systems of wire panels.

The available finishing profiles ensure a perfect result.



3 DIFFERENT INSTALLATION METHODES



WIRE PANEL
To weave

DOUBLE WIRE PANEL (2D)
To insert

WIRE PANEL BARBS (3D)
To insert with clamp profile

ADVANTAGES

QUALITY & AESTHETICAL

OPTIMAL PRIVACY

WIND PROTECTION

SOUNDPROOFING

DIFFERENT WIDTHS AND LENGTHS

The slats are available in 4 different widths: 30 mm, 35 mm, 43 mm, 47 mm.

The standard lengths are: 1030 mm, 1230 mm, 1530 mm, 1630 mm, 1730 mm, 1830 mm, 1930 mm & 2030 mm.

**PRIVACY
MEETS
COMFORT**



COLOUR CHANGING

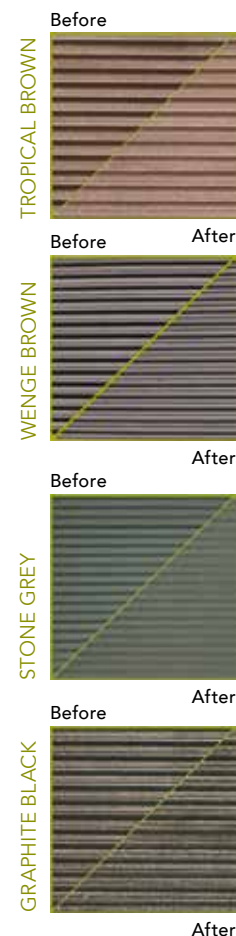
After several days, the product will begin to fade slightly. This is a temporary and a natural process due to the leaking of the lignin. Afterwards the original colour will return.

The reason is that the wood composite material contains 50% PVC and 50% wood flour. Wood flour contains lignin in the cell wall and together with cellulose it determines the strength of wood. By sanding the surface during the manufacturing process, the wood fibres release the lignin and following exposure to UV light a slight discolouration occurs. In this early stage, Stone Grey and Graphite Black get a yellow/green tint. The sun and rain loosen the lignin on the surface and a brown/yellow substance emerges. This substance is completely harmless and is responsible for the colour change. This may cause water circles or drip edges on the wood composite profiles. The more irrigated the boards, the faster the lignin disappears from the wall and after a few weeks/months, the original colour of the panels will be regained. If you wish to speed up this process you can rinse the product regularly with water.

Boards that have started to fade can be perfectly positioned with boards that have not been subject to this discolouration process. Over time, all the boards will have the same even colour. Below is the original colour with adjacent the final colour.

There can be slight colour differences between different production series as 50% of the material is made of wood.

Regarding the decking with a wood grain structure, you should take into account that the contrast of the wood grain will fade after a certain time.



AVAILABLE COLOURS

TROPICAL BROWN



WENGE BROWN



STONE GREY



GRAPHITE BLACK



Decking, Tongue and groove boards system, Slat wall system, Ranch fencing, Privacy slats

The colours and brushing may differ from one production to another and are not contractually binding. It is not recommended to mix boards from different production batches. The date of production can be found on every board. Make sure that all boards are placed in the same direction (inside each board, a mark is provided for this).

MAINTENANCE

WOOD COMPOSITE

Duofuse® wood composite is virtually maintenance free meaning that preservative products are completely superfluous. For normal maintenance, you can use a brush or high pressure washer (max. 80 bar). Feel free to use a mild cleaning agent, but it is not advisable to use a dirt killer.

Any grease and oil stains can be removed with a household degreaser. The best way to deal with persistent dirt such as organic stains, mould and slime build-up or moss is to use a diluted bleach solution (25% bleach at 10° with 75% water). Solvents must NOT be used. Always make sure that the joints are open for good drainage.

In case of staining:

- 1 Any stains are best removed straight away so that they cannot penetrate the material or dry up on it. Rinsing with water and a mild soap solution is recommended in this case.
- 2 If a stain is not removed immediately, it may dry up and penetrate the plank. If this is the case, thorough cleaning with a pressure washer and/or brushing in the direction of the grooves is best. The discolouration will stabilize after 6 to 10 weeks.

ALUMINIUM

Duofuse® aluminium garden fences guarantee optimum ease of maintenance so that you can enjoy years of privacy in your garden without extra care. The aluminium panels are largely dirt-repellent so they only need to be cleaned sporadically to remove surface dirt.

Over time, however, some staining may occur as dirt and dust dries, but this can be easily cleaned. Use a soft sponge or lint-free cloth and a solution of lukewarm water with mild soap. In any case, avoid abrasive tools such as a scrubbing brush.

Afterwards, simply rinse with clean water and let it dry.

TIP: If there is bird droppings on the panels, it is best to remove them as soon as possible to avoid damage to the material.





WE
LOVE
NATURE

PEFC CERTIFIED

In Belgium, Plastivan is recognised as a PEFC-certified company. Our concern for the environment and the development of sustainable products has ensured that from today we are in a position to present this certificate. Duofuse wood composite consists of 50% wood flour. This wood comes from sustainably managed forests.

The wood flour is mixed with PVC in our own granulation plant to form WPC granules. These are then used in the production of wood composite decking boards and fencing. This production is fully integrated from raw material to finished product. Thanks to this investment, Plastivan now has full control over the entire production process.

WARRANTY

Plastivan nv offers a 10 year warranty for all mechanical properties of the Duofuse® decking, tongue and groove boards system, slat wall system and ranch fencing and against all ant and insect attacks. The warranty conditions are based on current knowledge and correct use 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.

The warranty means damaged products will be replaced or refunded, taking into account a depreciation in relation to the already elapsed time and warranty period. Costs for replacement and removal, labour or other costs (e.g. transportation) are not covered by this warranty.



TECHNICAL INFO

CHARACTERISTICS AND TESTS ON DUOFUSE® WOOD COMPOSITE (GENERAL)

Description test	Conducted test	Value	Unit
Density at 20°C	EN ISO 1183-1 Method A	1.40	g/cm³
Vicat softening temperature	NBN EN ISO 306 Method B	86.2	°C
Traction characteristics			
Traction at 23°C Yield stress	NBN ISO 527-2	35.8	N/mm²
Modulus of elasticity at 23°C	NBN ISO 527-2	6990	N/mm²
Bending characteristics			
Flexural strength σ_b	ISO 178	67.5	Mpa
Modulus of elasticity (Flexural test) E_b	ISO 178	6460	Mpa
Brinell Hardness H_b	EN 1534	111	-
Linear modulus of elongation	ASTM D696	0.018	mm/m.°C
Stress grading	EN 350	1	-
Verification of dimensional stability after immersion			
Max swelling in water after 28 days	EN 317	2.66	%
Max elongation in water after 28 days	EN 317	0.31	%
Rapid aging, discolouration	EN 513	≤ 2	grey scale
Verification of dimensional changes under changes of humidity			
from 65 % to 85 %	EN 1604	0.093	%
from 65 % to 30 %	EN 1604	0.135	%

CHARACTERISTICS AND TESTS ON DUOFUSE® (DECKING)

Description test	Conducted test	Value	Unit	
Changes in length caused by internal tension	NBN EN 479	0,1	%	
Changes in length caused by humidity	NBN EN 1087-1	< 0.75	%	
Coefficient of kinetic friction				
dry samples	BN 86/6781-02	≥ 0.24	-	
damped samples	BN 86/6781-02	≥ 0.12	-	
oiled samples	BN 86/6781-02	≥ 0.08	-	
Anti-slip characteristics	DIN 51130 PB-LF 40	R10	class	
Abrasion resistance	EN ISO 5470-1	≤ 1000	mg	
Fire reaction when using aluminum substructure	EN 13501-1	(see below)	-	
	Graphite black	Stone grey	Tropical brown	Wenge brown
DFD140	B _{FL} - s1	B _{FL} - s1	B _{FL} - s1	B _{FL} - s1
DFD162	D _{FL} - s2	D _{FL} - s2	C _{FL} - s1	C _{FL} - s1
DFDE162	D _{FL} - s2	D _{FL} - s2	C _{FL} - s1	C _{FL} - s1
DFDS162	D _{FL} - s2	D _{FL} - s2	B _{FL} - s1	B _{FL} - s1
Water absorption				
after 24h at 23°C	EN 317	< 2	%	
after 28 days at 23°C	EN 317	< 3.5	%	
Resistance to impact				
DFD162 / DFDE162 at a temperature of 23°C	EN 477	5	J	
DFD140 / DFDS162 at a temperature of 23°C	EN 477	15	J	
DFD162 / DFDE162 at a temperature of 23°C	EN 477	4	J	
Bending properties				
DFD162 - E modulus	EN 310	± 4100	N/mm²	
DFDE162 - E modulus	EN 310	± 4100	N/mm²	
DFDS162 - E modulus	EN 310	± 3500	N/mm²	
DFD140 - E modulus	EN 310	± 7200	N/mm²	
Deflection under load of 1 kN span 400 mm	EN 1533	1.41	mm	
Deflection under load of 1 kN span 500 mm	EN 1533	2.31	mm	
Verification of resistance to permissible concentrated load	EN 12871	≤ 1000	N	
Load in case of a crack	EN 310	≤ 315	kg	

CHARACTERISTICS AND TESTS ON DUOFUSE® (TONGUE AND GROOVE BOARDS SYSTEM)

Description test	Conducted test	Value	Unit
Wind load (wind resistance)	NBN EN 12210	class 4	-

*For more detail : info@duofuse.com



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