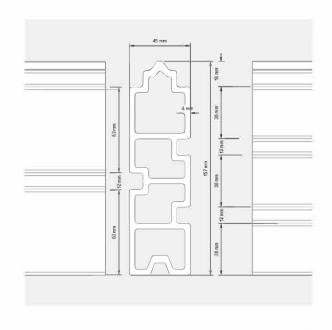


An innovative WPC profile which is a long-lasting, low maintenance alternative to timber. This new material can either be retro-fit between existing concrete fence posts or can be utilised in the fully composite system, meaning upgrading your outdoor space could not be easier. The fence board is dual-sided showing a 63mm batten on one side and a 38mm batten on the other, with a 12mm shadow line. The fence boards can be stacked on top of one another in various ways to achieve a design desired by the client. Our goal was to create a fencing range that was durable, beautiful and simple to install.



Clarity Fence Board Length (mm) 1830 Width (mm) 45 Height (mm) 150 Weight 5.81kg Material Wood Plastic Composite Finishes 3 x 38mm Batten / 2 x 63mm Batten



Charcoal



Graphite



Walnut

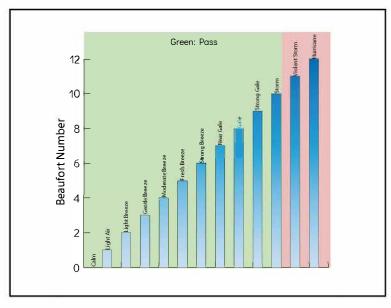




Decking Benefits

BM Steel Fencing has all the benefits of our decking, including low maintenance, and our 20 year warranty. Our unique system can be fitted with our composite posts, or simply be slotted between existing fence posts. With our extensive testing, including wind force test up to 63mph - you can be sure your fence will be an investment for years to come.





Sustainable Choice

BM Steel Wood Plastic Composite products are made from recycled plastic and wood fibre. Choosing Ecoscape UK ensures this waste material is diverted from landfill, and given a second life.

Great Benefits

As with all our composites, our fence comes with a 20 year warranty, is low maintenance - requiring nothing more than regular washing to maintain look and performance. Our fence system has been independently tested against wind force, and for acoustic performance - providing a weighted sound reduction index of -28dB

Wind Force Test

The chart above shows the Beaufort Wind Scale. our fencing has tested to force equivalent to a 10 on the Beaufort Scale - which would indicate a storm with winds of 55-63mph. The test showed the fence system remained fully intact, with no failure, evidence of disengagement of any component, nor visible cracks formed.

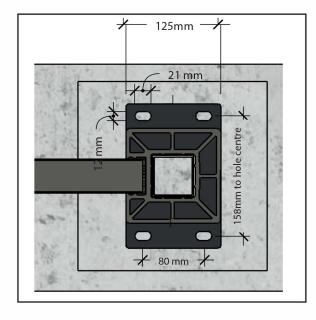
Working Specification

- Fencing Systems

Our fencing system includes all the components you will need to create a beautiful, long lasting fence for almost any situation.

Drawings below show some typical installation details for BM Steel fencing system, which can be installed onto hard standing using our fence base plates, or into soft ground, using steel inserts.





BM Steel Composite fence boards are 1830mm long, allowing maximum post centres of 1905mm, though the boards can be cut where smaller centres are required.

For further information, please see installation guides available on our website: www.bmsteel.co.uk

- 1: Fence Post Steel Insert
- 2: Aluminium Bottom Rail
- 3: Fence Board
- 4: Fence End Post
- 5: Fence Top Board
- 6: Fence Full Top Cap/Fence Post Capping Board
- 7: Fence Inter Post
- 8: Concrete Footing

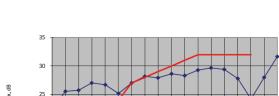
Fence Posts can also be bolted onto hard standing, such as brick or concrete using our fence base plate (as shown above). For full product detail drawings, please visit www.bmsteel.co.uk



Specification Table

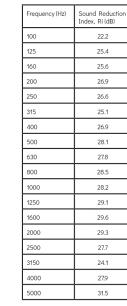
Property	Test Method	Test Result				Notes
Thickness, Width and Length	EN15534-1:2014, 6.6.2	Item	Length (mm)	Width (mm)	Thickness (mm)	
		Fence Board	1000	157.81	44.76	
		Inter Post	1000	123.82	125.09	
		Corner Post	1000	124.55	125.31	
		End Post	1000	124.35	125.07	
		Top Rail	1000	45.23	44.64	
		Top Capping Rail	1000	139.6	24.83	
		Тор Сар	140.2	140.1	24.62	
	EN15534-1:2014, 6.6.2	Item	Linear Mass (g	/m)		
		Fence Board	3081			
		Inter Post	3052			
		Corner Post	6271			
Linear Mass		End Post	6110			
		Top Raol	1309			
		Top Capping Rail	4232			
		Тор Сар	556g/pcs			
	Test Method	Condition	Test Result			
Flexural		Test Span: 600mm	Galvanised Steel Insert & Fence Post Base		Max. Pressure(N): >20000	(out of test range
		Test Span: 500mm	Aluminium bottom rail		Max. Pressure(N): >6752 Displacement(mm): 17.2	
	EN15534-1:2014, 7.3.2	Test Span 400mm	Fence Board		Max. Pressure(N): >8395 Displacement(mm): 10.77 Bending Modulus (MPa): 1237 Bending Strength(M- Pa): 15.8	
			Charcoal	Graphite	Walnut	
Resistance to Artifical Weathering	EN 15534	ΔE *=1	0.92	Not tested	1.3	
		ΔL*:	0.1	Not tested	1.15	
			-0.05			
		Δα*	-0.05	Not tested	0.34	
		Δb*:	-0.92	Not tested	.51	
Moisture Under Cyclic Test Conditions	EN15534	Max. Pressure(N): >6395; Displacement (mm) 11.13; Bending modulus (MPa): 13.1; Decrease of bending modulus: 8.2%; Decrease of bending strength: 6.3%; Water absorption: 0.48%; Length Change: 0.08%; Width change: 0.18%; Thickness change: 0.2%				

Property	Test Method	Test Result	Notes	
Reaction ro Fire	EN13501-1:2018	D-S ₃ -d0		
Wind Resistance Test	N/A The fencing system shall resist a maximum wind pressure of 520 Pa (as 10 Beaufort scale or 10 wind level)	There was no faillure, nor any evidence of disengagement of any component, nor visible cracks in any component	Pass	



Acoustic Performance ISO: 10140-2:2010 Weight Sound Reduction index Rw(C;Ctr)=

Rating according to ISO 717-1:2013



See Graph Below

30											
	/										
25											
25 Zonut reduction index, dB											
15											
10											
5											
100 200 400 , 800 1600 3150											
100 200 400 800 1600 3150 Frequency, Hz											
Reduction index Sound contour											