

Meshmen HD Double Cover Spacers

Description

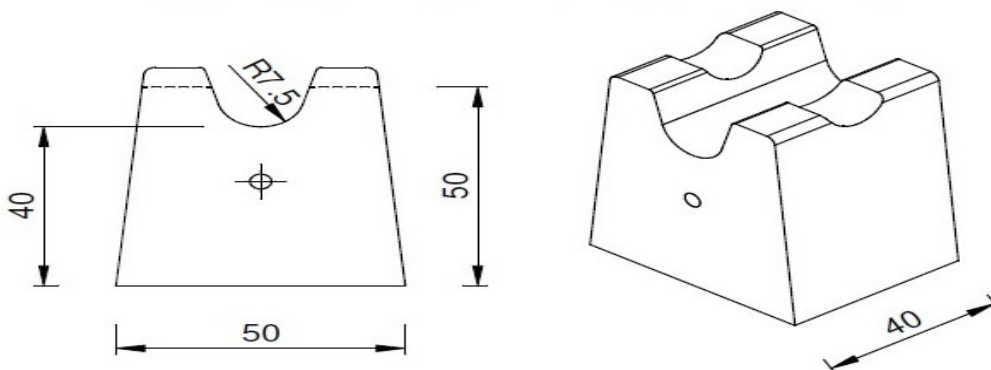
Bluebay Concrete Meshmen Spacers are manufactured from extruded fibrous concrete with a minimum concrete Strength of 50N/mm². Manufactured in accordance with BS 7973-1 clause 5.0, table 1. The spacers have a high tensile strength and stability when they are installed to the reinforcement.

Bluebay Concrete Meshmen Spacers ensure that the specified concrete cover to the reinforcement for structures and structural elements is achieved, both before and during concreting. These spacers help to guarantee the durability of all structures. Spacers made of fibre concrete have an optimum material compatibility with in-situ concrete. Bluebay spacers are produced with strength and durability properties to match most site and precast concrete applications.



Technical

Code	CC1 concrete cover	CC2 concrete cover	L length	W width	Ø hole	Weight x pc +/-5%
MSH4050	40 mm	50 mm	50 mm	40 mm	6 mm	200 g



Compression Strength	> 50 N/mm ²
BS7973	Satisfied
DBV-Merkblatt	Satisfied
EN 206	Satisfied
Water penetration	< 3 mm
Dimension accuracy	+/- 1 mm
Raw materials	CEM I 52.5 N Calcium carbonate Silica sand
Reinforcing	Polypropylene fibres
Slump	S1 0-3 cm
Pcs x bag	100
Pcs x pallet	5000
Weight x pallet	1000 kg

Note: In the absence of a specific harmonised European standard (hEN) or European Technical Approval (ETA), a CE Mark is not required.



DECLARATION OF PERFORMANCE:
EXTRUDED FIBRE-REINFORCED CONCRETE SPACERS

Bluebay Building Products declares that the product, Fibre Concrete Spacers with minimum compression strength of 50N/mm², conforms to recognized standards and relevant National standards where possible. The product is a Fibre concrete bar spacer intended to provide cover and support cage of steel reinforcement or loose reinforcement in the correct position within the formwork or mould while the concreting takes place. The Fibre concrete block spacer then becomes an integral part of the member, providing suitable properties of the design life of the building.

EB BS 1992-1-1:2004 (Eurocode 2), in the line with BS 7973 part 1 and 2, the concrete Society Best Practice Guide (2001), EN 1350-1:2002, BS 8500-1:2006 and BS EN 206-1:2001.

In the absence of a specific harmonized European standard (hEN) or European Technical Approval (ETA), a CE Mark is not required by law.

REGULATED CHARACTERISTICS

CHARACTERISTICS	Standard / Euro Norm	VALUE (TOLERANCE)	UNITS
COVER	In line with BS 7973-1 clause 7.2	15 – 75 (±1)	mm
	In line with BS 7973-1 clause 7.2	>75 – 100 (±2)	mm
LENGTH		180, 330 & 1000 (±5%)	mm
	Best practice Guide 2.1.1, table 4	≤350	mm
CATEGORY	In line with BS 7973-1 clause 5.0, table 1	Heavy (H)	
DENSITY		2.0 – 2.1	kN/mm ³
TARGET COMPRESSIVE STRENGTH		50N/mm ² at 28 days	N/mm ² (MPa)
DEFORMATION	In line with BS 7973-1 clause 9.0	≤1	mm
BUILDING MATERIAL CLASS	BS EN 1350-1:2002	Class A1 – non flammable	
FIRE RESISTANCE CLASS	EN 1350-1:2002	F30 – F180 + F90 fire wall	
MANUFACTURING	In line with BS 7973-2 clause 6.1 EN ISO 9001:2000	Made in factory conditions to a recognized Quality Plan	



FIRE

DESCRIPTION	Standard / Euro Norm	Class
BUILDING MATERIAL CLASS	EN 1350-1:2002	A1 – non flammable
FIRE RESISTANCE CLASS	EN 1350-1:2002	F30 – F180 + F90 fire wall

STRUCTURAL ELEMENTS

DESCRIPTION	Standard / Euro Norm	Class / DESCRIPTION
TYPE GROUP	Best Practice Guide 4, 4.3	C1
STRUCTURAL MEMBERS	Best Practice Guide 4, table 4	Beams, slabs and foundations
SUITABILITY	Best Practice Guide 4, table 4 In line with BS 7973-1 clause 3	Bar and block spacers for horizontal and vertical reinforcement

DURABILITY AND EXPOSURE

DESCRIPTION	Standard / Euro Norm	Class
Exposure classes	EN BS 1992-1-1:2004, table 4.1 – BS 8500-1:2006, table A.1	
	unreinforced with metal	X0
	Freeze / thaw attack	XF
	Corrosion by chlorides (other than sea water)	XD
	Corrosion from sea water	XS
	Corrosion by carbonations	XC
Durability	BS 8500-1:2006 and BS EN 206-1:2013, table A.3	XC
	BS 8500-1:2006 and BS EN 206-1:2013, table A.4	X
Cement and combination types	BS 8500-1:2006 and BS EN 206-1:2013, table A.6	
Freezing and Thawing	BS 8500-1:2006 and BS EN 206-1:2013, table A.8	XF
Groundwater: hydraulic gradient of 5 or less	BS 8500-1:2006 and BS EN 206-1:2013, table A.9	AC
Standardized prescribed concrete	BS 8500-1:2006 and BS EN 206-1:2013, table A.13	ST1-ST5
Environmental classes	Best Practice Guide 3, 3	F / T / A
Performance classes	Best Practice Guide 3, 2.1.3	P1 / P2



TEST CERTIFICATES / CERTIFICATIONS

ART. Number	Test Certificate / Certification
59979/N/46054	Load, dimension, deflection and Recovery testing – BS7973-1:2001
PB 1.1/08-119-1 MFPA SPEC. DBV	DAUERSTANDVERSUCH
PB 1.1/08-119-2 MFPA SPEC. DBV	TRAGFÄHIGKEIT WASSERUNDURCHLÄSSIGKEIT
PB 1.1/08-119-3 MFPA SPEC. DBV	FROST - TAUWIDERSTAND

FACTORY PRODUCTION CONTROL

DESCRIPTION	Standard / Euro Norm	
LABELLING		Each package of spacers to be marked with nominal cover in mm
MANUFACTURING	In line with BS 7973-2, clause 6.1 EN ISO 9001:2008	Made in factory conditions to a recognized Quality Plan
TEST RECORDS	In line with BS 7973-2 clause 12.1 In line with BS 7973-2 clause 12.2 In line with BS 7973-2 clause 12.3 In line with BS 7973-2 clause 12.4	Test type a): Load, deflection and recovery test at 7 and 28 days Document and monitor: a) type / size b) sources / specification of components and materials Product test when key variables are changed to Annex A A.1.3.3 Cementations spacers: accredited by third-party BM Trada ISO 9001:2008 Traceable to specific production dates and batches, available from 24 months after delivery
SURVEILLANCE	BS EN ISO 9001:2008	Quality Plan and manufacturing processes independently inspected on a 6 month basis