Concrete Fibre Spacers

Technical Data Sheet

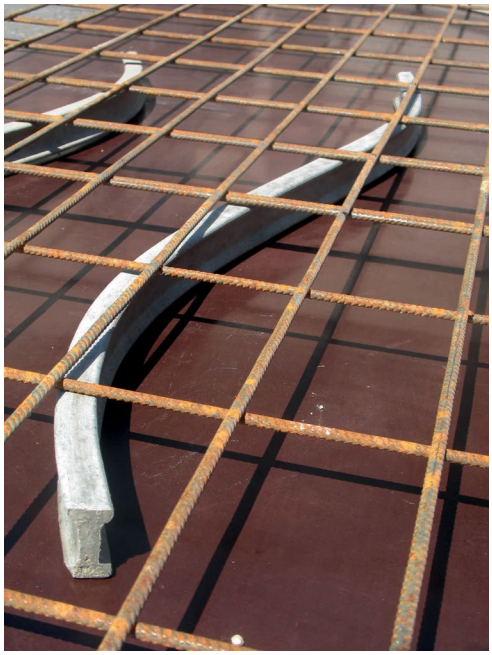
Concrete bar spacers

Uses

Bar spacers are used to ensure that the concrete cover specified for structures and structural elements made of reinforced concrete is adhered to, both before and during concreting.

The large supporting width spanning several reinforcement bars ensures that the spacer does not tilt during formwork erection.

Horizontal reinforcement bar spacers are placed on the surface with reinforcement laid on top without fixing. Bars are supplied in a number of lengths and profiles to suit most applications. Please contact your local Parchem office for availability.



Properties

Characteristics	Value	Unit
Cover	15 – 100	mm
Length	330, 1000	mm
Loading capacity	2.000 – 10.000	N
Compressive strength	50	MPA
Density	2,0 – 2,1	kg/m³
Building material class	A1	
Fire grading class	F30 – F180 + F90 fire wall	

Technical Support

Parchem offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

Standards Compliance

Max Frank Extruded Concrete Fibre Spacers meet numerous international standards and have a number of test certificates that are available on request.

Storage Conditions

Store in a cool, dry location.

Advantages

- Consistent high compressive strength with resistance to tilting.
- Excellent bond with in-situ concrete.
- Excellent physical and chemical resistance.
- Consistent and accurate dimensional tolerances.
- Quick and easy installation with a number of fixing options.

Concrete Fibre Spacers

There are two main grades of concrete fibre spacers, standard and premium grade.
Parchem stock mostly the premium grade. The performance characteristics of the two types are given below.

Material quality		**Standard**	***Premium**
Concrete cover	mm	15 - 100*	20 - 100*
Load-bearing capacity	KN	> 3	> 3
Performance Class		Heavy	Heavy
Compressive strength	MPa	50	60 and above
Permitted tolerances	mm	±1 **	±1 **
Water absorption after 30 min	%	< 3	< 2
Exposure Class **EN 206-1** **BS8500/EN206** **AS/NZ3600**	up to up to up to	X0, XC3, XD2, XS2, XF2, XA2 DC2 A, B1	X0, XC4, XD3, XS3, XF4, XA DC4 A, B, C, U
Fire resistance classification EN 13501-1:2002		A1 - not flammable	A1 - not flammable
I.S.A.T. (after 10 minutes)	ml/m²/min	< 0.5	< 0.25
Chloride diffusion	$m^2/sec \times 10^{-12}$	< 5.0	< 1.0
Contact adhesion	MPa	0.4	0.4

*The premium grade concrete fibre spacers comply with Queensland Main Road specification MRTS70 (11/09). Please note only certain shapes are approved for use. Please contact your local Parchem office for more information.

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