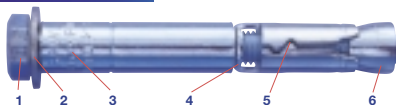


Loose Bolt



- | | | | | | |
|------------------------------------|--|---|--|---|--|
| <p>1
8.8 grade bolt</p> | <p>2
High strength steel washer</p> | <p>3
Sleeve provides maximum shear load performance. Bolt, drill size and minimum embedment depth are shown to ensure correct installation</p> | <p>4
Integral controlled collapse and anti-rotation feature ensures fixture is firmly secured</p> | <p>5
Unique zig-zag feature provides balanced expansion ensuring secure setting and maximum load carrying capacity</p> | <p>6
Case-hardened nut with optimum taper angle for maximum expansion</p> |
|------------------------------------|--|---|--|---|--|

Product Data

The Loose Bolt SafetyPlus™ is an all steel high performance expansion anchor, suitable for the most demanding safety critical applications.

This range of anchors offers exceptional tension, shear and combined load performance in concrete. A wide range of bolt diameters and lengths are available providing the specifier with numerous design options. The SafetyPlus™ is a through fixing, thus allowing the hole to be drilled through the fixture, eliminating the need for marking out, ensuring fast and easy installation.

Other versions available in the range are Bolt Projecting, Countersunk, Limited Embedment and the Internally Threaded Socket Anchor.

Available in:

Zinc-plated steel with 8.8 grade bolt

Typical Applications:

Structural Steelwork	Road Signs	Industrial Doors
Masonry Support	Heavy Machinery	Safety Barriers
Cladding Restraint	Racking Systems	Brackets



SafetyPlus™ Standard Range: Loose Bolt

BOLT SIZE	BOLT LENGTH (mm)	WASHER DIAMETER (mm)	MAXIMUM FIXTURE THICKNESS (mm)	HOLE DIAMETER		MINIMUM HOLE DEPTH IN CONCRETE (mm)	MINIMUM SUBSTRATE THICKNESS (mm)	RECOMMENDED TORQUE (Nm)	PRODUCT CODE ZINC PLATED
				IN FIXTURE (mm)	IN CONCRETE (mm)				
(d)	(l)	(w)	(T _{fix})	(d _f)	(d _c)	(h _c)	(h _{min})	(T _{inst})	
M8	90	21	15	14	12	80	120	25	50-010
	115		40						50-015
M10	105	24	20	17	15	90	140	50	50-020
	125		40						50-025
	145		60						50-030
M12	125	30	25	20	18	105	160	80	50-035
	150		50						50-040
	170		70						50-045
M16	145	40	25	26	24	125	200	180	50-050
	170		50						50-055
M20	175	50	30	30	28	155	240	275	50-065