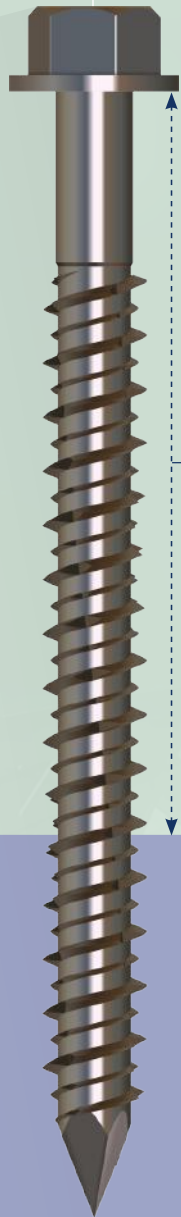


Ipex Fasteners

Low-head wood drilling screw with reaming wings and a sealing washer of your choice.



Concrete screw with hexagonal head

0356


Material:

- Zinc plated steel (CF)
- Bi-metal A4 (BA)
- Marutex stainless steel (SM)

Surface finish:

- Clear

SIZE (MM)	A (MM)		CF	BA	SM
6.3 x 100	70	5/16	●		
6.3 x 120	80	5/16	●		
6.3 x 140	110	5/16	●		
6.3 x 160	130	5/16	●		
6.3 x 190	160	5/16	●		
6.3 x 210	180	5/16	●		
6.3 x 260	230	5/16	●		
6.3 x 310	280	5/16	●		
6.6 x 35	5	5/16	●	●	
6.6 x 45	15	5/16	●	●	
6.6 x 60	20	5/16	●	●	
6.6 x 70	30	5/16	●	●	

SIZE (MM)	A (MM)		CF	BA	SM
6.6 x 85	70	5/16	●	●	
6.6 x 100	80	5/16	●	●	
6.6 x 110	110	5/16	●	●	
6.6 x 120	130	5/16	●	●	
6.6 x 130	160	5/16	●	●	
6.6 x 150	180	5/16	●	●	
6.6 x 170	230	5/16	●	●	
6.6 x 200	280	5/16	●	●	
6.6 x 220	5	5/16	●	●	
6.6 x 240	15	5/16	●	●	
6.6 x 260	20	5/16	●	●	

● = Approval upon request

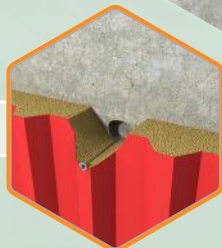
| APPLICATION |



| ALSO AVAILABLE | with BAZ washer



| SUITABLE FOR | Pressure distribution plates



| APPLICATION |



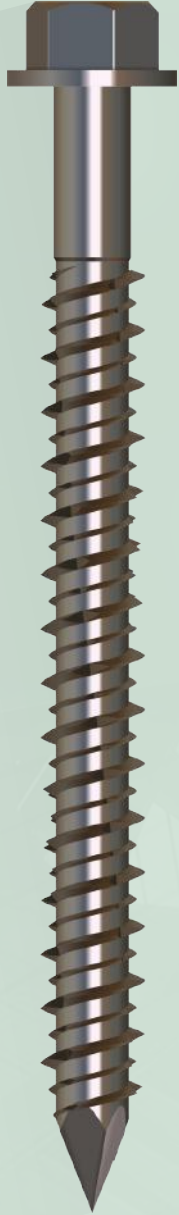
| SEALING WASHERS | By choice



| PRE-DRILL | 0420 - Concrete drill



Ipex Fasteners



Drillscrew

with countersunk head

0356

PRODUCTGEGEVENS

- Designed for:** Fixing timber battens, trunking, track and general components into concrete, masonry and timber.
- Head style:** 5/16" / 8mm across flats - hexagonal head.
- Material grade:** Thread and Head - AISI 316/ A4, Drilling Point - SAE C1018 / C1022 (Hardened).
- Coating:** $\geq 5 \mu\text{m}$ Electroplated Zinc (Passivated).

A4 STAINLESS STEEL MULTI-FIX PRODUCT RANGE

PRODUCT CODE	SIZE (MM)	DRILL POINT	BOX QUANTITY	CARTON QUANTITY
A4HH6.3-32-GP	6.3 x 32	Snee Punt	100	1000
A4HH6.3-45-GP	6.3 x 45	Snee Punt	100	1000
A4HH6.3-57-GP	6.3 x 57	Snee Punt	100	1000
A4HH6.3-70-GP	6.3 x 70	Snee Punt	100	1000
A4HH6.3-82-GP	6.3 x 82	Snee Punt	100	1000
A4HH6.3-100-GP	6.3 x 100	Snee Punt	100	1000
A4HH6.3-125-GP	6.3 x 125	Snee Punt	100	1000
A4HH6.3-140-GP	6.3 x 140	Snee Punt	100	1000

TECHNICAL DATA

HARDNESS RATING (VICKERS SCALE)		
DIAMETER (MM)	SURFACE HARDNESS	CORE HARDNESS
6.3	577.4 HVo.3	465.1 HVo.3

UNFACTORED MECHANICAL PERFORMANCE		
DIAMETER (MM)	TENSILE STRENGTH	SHEAR STRENGTH
6.3	18.7kN	8.9kN

ULTIMATE PULL OUT LOADING FROM STEEL			
STEEL SUBSTRATE (S275 JR MILD STEEL)			
MAJOR DIAMETER (MM)	STEEL THICKNESS / FORCE	STEEL THICKNESS / FORCE	STEEL THICKNESS / FORCE
6.3	0.7 mm / 1.0 kN	1.0 mm / 1.4 kN	1.2 mm / 2.0 kN

NOTE: The results expressed in the datasheet are taken as mean loads from a range of empirical tests and are ultimate unfactored loads. Each specifier or end user should make his/ her own decision on what safety factors to use relevant to their design application (such as BS 5950, EN 1991, etc). Errors and Omissions Excepted.

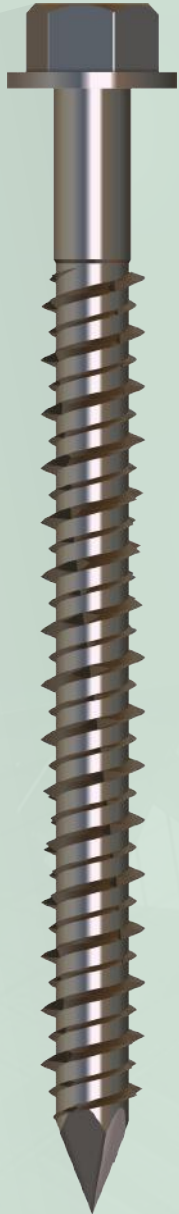


Ipex Fasteners

Drillscrew

with countersunk head

0356



ULTIMATE PULL OUT LOADING FROM TIMBER

MAJOR DIAMETER (MM)	TIMBER GRADE	EMBEDMENT DEPTH (MM)	LOAD
6.3	C16	25	2.3 kN
		35	3.7 kN

ULTIMATE LOADING: WITHDRAWAL RESISTANCE (CONCRETE AND MASONRY SUBSTRATES)

EMBEDMENT DEPTH (MM)	C25/30 CONCRETE (30N/MM ²)	AERATED CONCRETE BLOCK (7N/MM ²)	CLASS A ENGINEERING BRICK (75 N/MM ²)
25.0	2,850 N	650 N	3,690
35.0	6,890 N	1,010 N	9,670

CHARACTERISTIC/ SAFE LOADING: WITHDRAWAL RESISTANCE (CONCRETE AND MASONRY SUBSTRATES, γ=3.0)

EMBEDMENT DEPTH (MM)	C25/30 CONCRETE (30N/MM ²)	AERATED CONCRETE BLOCK (7N/MM ²)	CLASS A ENGINEERING BRICK (75 N/MM ²)
25.0	950 N	210 N	1,230
35.0	2,290 N	330 N	3,220

CONCRETE AND MASONRY SETTING INFORMATION

SUBSTRATE TYPE	CATEGORY	DATA (MM)
All	Nominal embedment depth	35.0
	Minimum base material thickness	100.0
Non cracked concrete (>30N/mm ²)	Minimum screw spacing	55.0
	Minimum edge distance	55.0
Cracked concrete (>30N/mm ²)	Minimum base thickness	100.0
	Minimum screw spacing	40.0
	Minimum edge distance	55.0

INFLUENCE OF COMPRESSIVE STRENGTH ON WITHDRAWAL RESISTANCE (REDUCTION FACTORS)

NOMINAL ANCHOR DIAMETER (MM)	DRILL HOLE DIAMETER (MM)	EMBEDMENT DEPTH (MM)	COMPRESSIVE STRENGTH - CUBE (EN 1192)						
			C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	≥C50/60
6.3	5-15	25.0	0.6	1.0			1.2		1.3
		35.0	0.7	1.0	1.1	1.2	1.3	1.4	1.5

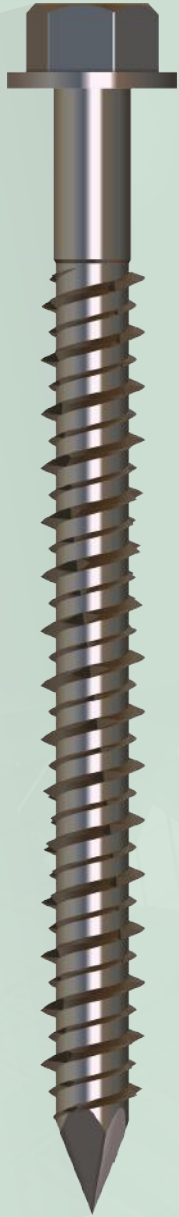
INFLUENCE OF EDGE DISTANCE OF LOADINGS (REDUCTION FACTOR)

PERCENTAGE OF STATED MINIMUM	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
REDUCTION FACTOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: The results expressed in the datasheet are taken as mean loads from a range of empirical tests and are ultimate unfactored loads. Each specifier or end user should make his/ her own decision on what safety factors to use relevant to their design application (such as BS 5950, EN 1991, etc). Errors and Omissions Excepted.



Ipex Fasteners



Drillscrew with countersunk head

0356

All test results were derived from empirical testing performed by ETAS (Evolution Testing & Analytical Services), a UKAS (United Kingdom Accreditation Service) accredited testing laboratory (Accreditation No. 7485). The following tests were performed to the following standards.

TESTING PROCEDURES

TEST / PARAMETER	STANDARD / METHOD / PROCEDURE
Ultimate Tensile	ISO 6892-1: 2009 "Metallic materials – tensile testing – Part 1: Method of test at room temperature".
Ultimate Shear	MIL-STD-1312-13 "Military Standard: Fastener test method (Method 13) Double shear test".
Pull Out (Withdrawal Force)	EN 14566: 2009 "Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods".
Pull Over	EN 14592: 2008 "Timber structures. Dowel type fasteners. Requirements".
Hardness	ISO 650 7-1: 2005 "Metallic materials – Vickers hardness test – Part 1: Test method".
Corrosion Resistance	EN ISO 9227: 2012 "Corrosion tests in artificial atmospheres. Salt spray tests".
Drilling Time Test	EN 14566: 2009 "Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods".



7485

NOTE: The results expressed in the datasheet are taken as mean loads from a range of empirical tests and are ultimate unfactored loads. Each specifier or end user should make his/ her own decision on what safety factors to use relevant to their design application (such as BS 5950, EN 1991, etc). Errors and Omissions Excepted.