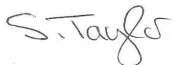


Product Type Pan head screws used with plastic washers
 Identification Pan head screws with plastic washers , bright zinc plated 21886/50983/79532
 Intended use Corrugated Roofing screws , only used in conjunction with plastic washers
 Manufacturer/Importer Aptus Fastener Systems Ltd
 Manufacturing Plant ref: 00503
 Salterwood Drive
 Denby Hall Business Park
 Denby
 Derbyshire
 DE5 8JY
 Notified Testing Body for ITT
 BM Trada
 Chiltern House
 Stocking Lane
 Hughenden Valley
 High Wycombe
 Buckinghamshire
 HP14 4ND
 NB reference 1224

Tested to : EN14592:2008+A1:2012 under system 3
 Test values not specific to fastener length
 Manufacturing plant 00503 with FPC accredited to ISO9001:2008

Essential Characteristics	Ref	Performance	UOM	Technical Specification	Certificate Number
Geometry	various	Complies		EN14592 section 5/6	GEOM13165PP46041457
Yield Moment	$M_{y,k}$	3624	Nmm	EN14592 clause 6.3.4.1-6.3.4.2 to EN409:2009	YMPP460F1316541460
Withdrawal Parameter	$f_{ax,k}$	17.4	Nmm ²	EN14592 clause 6.3.4.3 to EN1382:1999 characteristic timber density C16 310 Kg/m ³	WDRAWF13165PP46041457
Head Pull through Parameter	$f_{head,k}$	24.6	Nmm ²	EN14592 clause 6.3.4.4 to EN1383:2007 characteristic timber density C16 310 Kg/m ³	PUTHRF13165PP46041464
Characteristic Tensile Capacity	$f_{tens,k}$	5.2	kN	EN14592 clause 6.3.4.5 to EN1383:2007	PULOFFF13165PP46041459
Characteristic Torsional Strength	$f_{tor,k}$	2.97	Nmm	EN14592 clause 6.3.4.6 to EN10666	TQSTRF13165PP46041443
Characteristic Torsional Ratio when used with plastic washer supplied	$f_{tor,k}/R_{tor,k}$	1.55 Complies		EN14592 clause 6.3.4.6 to EN15737:2009 characteristic timber density C16 310 Kg/m ³	TQRESF13165PP46041451
Material		C1022		Carbon steel to EN10016	FPC
Durability without protective washer		Zinc plated		Service class 1 according to EN1995-1-1	FPC



Stewart Taylor - Director
 On behalf of Aptus Fastener Systems Ltd