

Declaration of Performance No. 5102-1015

1. Product Type Dowel type Timber Fasteners - Wood Screws
2. Type and Batch Unifix General Purpose Chippy woodscrews identified by Batch No. on the box
3. Intended Use Structural timber connections
4. Manufacturer Hexstone Ltd t/a Owlett-Jaton, Opal Way, Stone ST15 0SW
Factory 509 / 535 / 555
5. Authorised Representative N/A
6. System of Assessment System 3
7. Technical Assessment and Technical Assessment Body Test Certificate numbers E-30-20171-13, E-3020172-13, E-30-3020173-13 and E-30-3020174
Tests carried by Strjirensky zkusebni ustac s.p. Jablonec nad Nisou. to EN 14592+A1:2012 NB 1015
8. D o P for ETA N/A

9. Declaration of Performance

Essential Characteristics and Dimensions							
Nominal Diameter		d_{nom}	mm	4.0	4.5	5.0	6.0
Material		Hardened Carbon Steel C1022A/10B21					
Head Diameter		Min	mm	7.40	8.20	9.20	10.90
		Max	mm	7.70	8.50	9.50	11.40
Inner Thread Diameter		Min	mm	2.35	2.65	2.85	3.55
		Max	mm	2.65	2.95	3.15	3.85
Thread Length	≤70		mm	Full Thread			
	80	Min	mm	51.00	50.80	50.40	49.50
		Max	mm	53.00	53.00	53.00	53.00
	90	Min	mm			57.40	49.50
		Max	mm			60.00	53.00
	100	Min	mm			63.40	56.90
		Max	mm			66.00	60.00
	110	Min	mm			67.40	62.90
		Max	mm			70.00	66.00
	120	Min	mm			67.40	66.90
		Max	mm			70.00	70.00
	130-200	Min	mm				66.90
		Max	mm				70.00

Essential Characteristics and Dimensions						
Nominal Diameter	d_{nom}	mm	4.0	4.5	5.0	6.0
Characteristic yield moment thread sec.	$M_{y,k}$	Nmm	3.853	5.144	6.546	13.2
Characteristic yield moment smooth sec.	$M_{y,k}$	Nmm		7.236	11.042	17.413
Characteristic withdrawal parameter Loading across fibres	$F_{ax,k}$	N/mm ²	26.27	24.85	22.61	22.58
	P_k	kg/m ³	440	440	440	440
Characteristic withdrawal parameter Loading along fibres	$F_{ax,k}$	N/mm ²	19.11	19.61	19.74	18.51
	P_k	kg/m ³	430	430	430	430
Characteristic head pull-through	$F_{head,k}$	N/mm ²	23.29	20.80	20.20	17.02
	P_k	kg/m ³	430	430	430	430
Characteristic tensile capacity	$F_{tens,k}$	kN	6.14	7.25	8.93	11.34
Characteristic torsional ratio			2.22	3.75	2.62	2.8
	P_k	kg/m ³	450	450	450	450
Durability	Zinc plated with yellow passivation and waxed Service condition 2 according to EN 1995-1-1					

The previous performance relates to the following product range

Box Range

Product Code	Diam	Length
	mm	mm
OJ492063	4.0	20
OJ492070	4.0	25
OJ492087	4.0	30
OJ492094	4.0	35
OJ492100	4.0	40
OJ492223	4.0	45
OJ492230	4.0	50
OJ492247	4.0	60
OJ492254	4.0	70
OJ411910	4.5	20
OJ492261	4.5	25
OJ492278	4.5	30
OJ492285	4.5	35
OJ492292	4.5	40
OJ492308	4.5	45
OJ492315	4.5	50
OJ492322	4.5	60
OJ492339	4.5	70
OJ492346	4.5	75
OJ411927	5.0	80
OJ492353	5.0	25
OJ492360	5.0	30
OJ492377	5.0	35
OJ492384	5.0	40

Product Code	Diam	Length
	mm	mm
OJ492391	5.0	45
OJ492407	5.0	50
OJ011110	5.0	55
OJ492414	5.0	60
OJ492421	5.0	70
OJ492438	5.0	75
OJ492445	5.0	80
OJ492452	5.0	90
OJ492469	6.0	100
OJ492476	6.0	40
OJ492483	6.0	50
OJ492490	6.0	60
OJ492506	6.0	70
OJ492513	6.0	75
OJ492520	6.0	80
OJ492537	6.0	90
OJ492544	6.0	100
OJ492551	6.0	110
OJ411941	6.0	120
OJ492568	6.0	130
OJ492575	6.0	150
OJ411958	6.0	180
OJ411965	6.0	200

Clam Range

Product Code	Diam	Length
	mm	mm
UC4125	4.0	25
UC4130	4.0	30
UC4135	4.0	35
UC4140	4.0	40
UC4145	4.0	50
UC4150	4.0	60
UC4155	4.0	70
UC4160	5.0	50
UC4165	5.0	60
UC4170	5.0	70
UC4175	5.0	80
UC4180	5.0	100
UC4185	6.0	70
UC4190	6.0	90
UC4195	6.0	100
UC4200	6.0	130
UC4205	6.0	150

Bucket Range

Product Code	Diam	Length
	mm	mm
UC4220	4.0	40
UC4225	4.0	50
UC4230	4.0	70
UC4235	5.0	50
UC4240	5.0	70
UC4245	5.0	80
UC4250	5.0	100
UC4255	6.0	100


10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9

The declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4

Amendments

	Amendment	Date
1	EN14592:2008 + A1:2013 corrected to EN14592:2008 + A1:2012	06/08/2017
2	2nd and 3rd Factory added. N/mm ² changed to Nmm on yield moment	24/10/2019
3	Product Codes changes to match Owlett-Jaton catalogue Clam and Bucket Range added	17/03/2020

Signed on behalf of the manufacturer

Name and Function	Place and Date	Signature
Nick Horton	Stone	
Purchasing Director	20/8/20.	