

## Declaration of Performance – 5102-1015

1. **MASTER General Purpose Screws** in the following sizes diameters:

**4.0mm, 4.5mm, 5.0mm and 6.0mm**

2. Batch numbered labels are attached to box or pack to allow batch identification  
3. **MASTER General Purpose Screws** of the above diameters are intended for use in load bearing structural timber products.  
4. Manufacturer:

**Hexstone Limited t/as Owlett-Jaton,  
Opal Way, Stone,  
Staffordshire ST15 0SW  
Factory 509**

5. Tested to EN 14592:2008 under system 3 by

**Strojirensky kusebni ustav, s.p.  
Notified Body NB 1015**

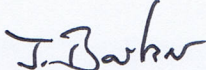
**Reports:**

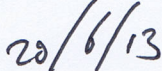
4.0mm E-30-20171-13  
4.5mm E-30-20172-13  
5.0mm E-30-20173-13  
6.0mm E-30-20174-13

6. Declared Performance for the **MASTER General Purpose Screws** identified in point 1 is given below.  
7. The performance of the mentioned products is in conformity with the declared performance given below. This declaration of performance is issued under the sole responsibility of the manufacturer.

Signed for and on behalf of the manufacturer by:

**John Barker Purchasing Director Owlett-Jaton**

Signature: 

Date: 



**MASTER General Purpose Screws Performance data in accordance with EN 14592:2008**

Essential Characteristics	Unit	4.0mm	4.5mm	5.0mm	6.0mm
Material		Hardened Carbon Steel C1022A/10B21			
Characteristic yield moment in thread section	My,k	3.853	5.144	6.546	13.215
Characteristic yield moment in smooth section	My,k	NPD	7.236	11.042	17.413
Characteristic withdrawal parameter in timber Loading across the fibre	Fax,k	26.27	24.85	22.61	22.58
	PK	440	440	440	440
Characteristic withdrawal parameter in timber Loading along the fibre	Fax,k	19.11	19.61	19.74	18.51
	PK	440	440	440	440
Characteristic head pull-through parameter in timber	Fhead,k	23.29	20.8	20.2	17.02
	PK	430	430	430	430
Characteristic tensile capacity	Ftens,k	6.14	7.25	8.93	11.34
Characteristic torsional ratio		2.22	3.75	2.62	2.8
Durability:	PK	Kg/m <sup>3</sup>	450	450	450
Zinc plated with yellow passivation and waxed Service condition 1 according to EN 1995-1-1					

**MASTER General Purpose Screws Dimensional data**

Dimension	Unit	4.0mm	4.5mm	5.0mm	6.0mm				
Head Diameter	Min	7.40	8.20	9.20	10.90				
	Max	7.70	8.50	9.50	11.40				
Inner Thread Diameter	Min	2.35	2.65	2.85	3.55				
	Max	2.65	2.95	3.15	3.85				
Thread Length	≤ 70mm	Full Thread		Full Thread					
		80	51.00	53.00	50.80	53.00	50.40	53.00	49.50
	90	mm				57.40	60.00	56.90	60.00
	100	mm				63.40	66.00	62.90	66.00
	110	Mm				67.40	70.00	66.90	70.00
	120	Mm				67.40	70.00	66.90	70.00
130 to 200	Mm						66.90	70.00	