

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+A1:2012 under system 3 by

**Strojirensky zkusebni 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 in Appendix 1.
7. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in Appendix 1. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:
Nick Horton, Purchasing Director Owlett-Jaton

Signature:



Date:

26/10/17

Appendix 1. **MASTER General Purpose Screws** Performance data

Essential Characteristics		Unit	4.0mm	4.5mm	5.0mm	6.0mm
Material			Hardened Carbon Steel C1022A/10B21			
Characteristic yield moment in thread section	$M_{y,k}$	N/mm	3.853	5.144	6.546	13.215
Characteristic yield moment in smooth section	$M_{y,k}$	N/mm		7.236	11.042	17.413
Characteristic withdrawal parameter in timber Loading across the fibre	$F_{ax,k}$	N/mm ²	26.27	24.85	22.61	22.58
	P_k	Kg/m ³	440	440	440	440
Characteristic withdrawal parameter in timber Loading along the fibre	$F_{ax,k}$	N/mm ²	19.11	19.61	19.74	18.51
	P_k	Kg/m ³	440	440	440	440
Characteristic head pull-through parameter in timber	$F_{head,k}$	N/mm ²	23.29	20.8	20.2	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 1 according to EN 1995-1-1			

Appendix 2. 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	Full Thread	Full Thread
	80	51.00	50.80	50.40	49.50
	90			57.40	56.90
	100			63.40	62.90
	110			67.40	66.90
	120			67.40	66.90
	130 to 200				66.90