

Declaration of Performance No. 4014-555

1. Product Type Dowel type Timber Fasteners - Wood Screws
2. Type and Batch Vortex Screws 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 552 & 555
5. Authorised Representative N/A
6. System of Assessment System 3
7. Technical Assessment Test report numbers CPR-J-00450-20, CPR-J-00451-20,
CPR-J-00452-20, CPR-00453-20, CPR-J-00454-20
Tests carried by SZU, Jablonec nad Nisou, Tovarni 5, 466 21 Czech
Republic to EN 14592:2008+A1:2012 Tab. ZA1
8. D o P for ETA N/A
9. Declaration of Performance

Essential Characteristics and Dimensions									
Nominal Diameter		d_{nom}	mm	3.5	4.0	4.5	5.0	6.0	
Material				C1022/10B21					
Head Diameter		<i>Min</i>	mm	6.64	7.64	8.64	9.64	11.5	
		<i>Max</i>	mm	7.0	8.0	9.0	10.0	12.0	
Inner Thread Diameter		<i>Min</i>	mm	2.10	2.40	2.70	3.00	3.60	
		<i>Max</i>	mm	2.30	2.65	2.95	3.15	3.85	
Characteristic yield moment		Thread Section	$M_{y,k}$	Nmm	2038	2927	3128	5261	9820
					28°	27°	25°	24°	22°
			$M_{y,k}$	Nmm	1853	2553	2783	4417	7965
					18°	17°	15°	14°	12°
		Smooth Section	$M_{y,k}$	Nmm	-	-	-	-	12930
					-	-	-	-	22°
			$M_{y,k}$	Nmm	-	-	-	-	10808
					-	-	-	-	12°
Characteristic withdrawal parameter perpendicular to the grain		$F_{ax,k}$	N/mm ²	17,65	17,32	17,08	16,82	16,36	
		P_k	kg/m ³	350	350	350	350	350	
Characteristic withdrawal parameter parallel to the grain		$F_{ax,k}$	N/mm ²	12,05	12,56	12,41	11,86	11,95	
		P_k	kg/m ³	350	350	350	350	350	
Characteristic head pull-through		$F_{head,k}$	N/mm ²	27,03	26,63	28,56	23,49	22,94	
Characteristic tensile capacity		$F_{tens,k}$	kN	5,57	6,77	6,81	9,59	13,82	

Essential Characteristics and Dimensions								
Nominal Diameter		d_{nom}	mm	3.5	4.0	4.5	5.0	6.0
Characteristic torsional ratio				5.41	2.65	3.03	3.25	3.97
		P_k	kg/m ³	350	350	350	350	350
Durability		Organic coating 18 to 20 µm (1000 hours salt spray) Service Class 3 acc to EN 1995-1-1						
		Electro-plating, min 5µm Service Class 1 acc to EN 1995-1-1						

The previous performance relates to the following product range

Service class 3

Product Code	Diam	Length
	mm	mm
VEXT60231CE	4.0	50
VEXT60232CE	4.0	60
VEXT60233CE	4.0	70
VEXT60236CE	5.0	50
VEXT60237CE	5.0	60
VEXT60238CE	5.0	70
VEXT60239CE	5.0	80
VEXT60241CE	5.0	100

Service class 1

Product Code	Diam	Length
	mm	mm
V60218CE	3.5	12
V60219CE	3.5	16
V60220CE	3.5	20
V60224CE	3.5	50
V60225CE	4.0	20
V60230CE	4.0	45
V60231CE	4.0	50
V60232CE	4.0	60
V60233CE	4.0	70
V60250CE	4.5	50
V60251CE	4.5	60
V60252CE	4.5	70
V60236CE	5.0	50
V60237CE	5.0	60
V60238CE	5.0	70
V60239CE	5.0	80
V60240CE	5.0	90
V60241CE	5.0	100
V60242CE	6.0	50
V60243CE	6.0	60
V60244CE	6.0	80
V60245CE	6.0	100
V60246CE	6.0	120
V60247CE	6.0	130
V60248CE	6.0	150

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

Ammendments

Ammendement	Date
Yield moment 2nd angle added	19/08/2020
Exterior grade screws added	19/08/2020

Signed on behalf of the manufacturer

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