

## Declaration of Performance No. 4014-2389-1

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|----|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Product Type                                | Dowel type Timber Fasteners - Wood Screws                                                                                                                      |
| 2. | Type and Batch                              | Unifix 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<br>Factory 509                                                                                         |
| 5. | Authorised Representative                   | N/A                                                                                                                                                            |
| 6. | System of Assessment                        | System 3                                                                                                                                                       |
| 7. | Technical Assessment and<br>Notified Bodies | Test Certificate number GEOMF14119509/526777PE41743,<br>WDF14119509/526777PE41744, PUTHRF14119509/52677741744<br>Tests carried by BM Trada to EN 14592+A1:2012 |
| 8. | D o P for ETA                               | N/A                                                                                                                                                            |
| 9. | Declaration of Performance                  |                                                                                                                                                                |

Essential Characteristics and Dimensions			
Nominal Diameter	$d_{nom}$	mm	4.5
Material			C1022/10B21
Head Diameter	$Min$	mm	8.64
	$Max$	mm	9.0
Inner Thread Diameter	$Min$	mm	2.6
	$Max$	mm	2.9
Characteristic yield moment	$M_{y,k}$	Nmm	3103
Characteristic withdrawal parameter in C16 timber	$F_{ax,k}$	N/mm <sup>2</sup>	11.14
	$P_k$	kg/m <sup>3</sup>	310
Characteristic head pull-through	$F_{head,k}$	N/mm <sup>2</sup>	7.12
Parameter in OBM timber	$P_k$	kg/m <sup>3</sup>	550
Characteristic tensile capacity	$F_{tens,k}$	kN	7.9
Characteristic torsional strength	$F_{,tor,k}$	Nm	4.72
Characteristic torsional resistance	$R_{,tor,k}$	Nm	0.57
	$Pk$	kg/m <sup>3</sup>	310
Characteristic torsional ratio			8.28
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

Product Code	Diam	Length
	mm	mm
V60250CE	4.5	50
V60251CE	4.5	60
V60252CE	4.5	70

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	Yield moment corrected	05/03/2020
3	Tensile capacity corrected	
4	Tensile strength and Torsional resistance added	
5	Service class amended	

Signed on behalf of the manufacturer

Name and Function	Place and Date	Signature
Nick Horton	Stone	N. Horton
Purchasing Director	13/3/20	