

## Declaration of Performance

- Multi-purpose screws
- Purchase Order numbers are attached to each pack to allow for batch identification
- Multi-purpose screws can be used in load-bearing structural timber products.
- Manufacturer: Forgefix Ltd.,  
Botany Business Park,  
Macclesfield Road, Whaley Bridge,  
SK23 7DQ.
- Tested to EN14592:2008 under systems by: Instituto Giordano S.p.A  
Report Number: 5920/1811/c
- Declared Performance for essential characteristics to EN14592:2008
- The performance of the mentioned products is in conformity with the declared performance given below. (tested to clause 6.3.4.2 – 6.3.4.6 of UNI EN 14952 and clause 6 of UNI EN 409)

| Test for determination of the yield movement |             |             |                   |                             |
|--|-------------|-------------|-------------------|-----------------------------|
|  | Fmax<br>[N] | Time<br>[s] | Lever Length (mm) | Yield Movement<br>My [N.mm] |
| Average                                      | 44,34       | 10 ± 5      | 302               | 13391                       |
| Characteristic value Myk = 10814 N.mm        |             |             |                   |                             |

| Withdrawal capacity test                            |             |             |  |          |
|---|-------------|-------------|--|----------|
|   | Fmax<br>[N] | Time<br>[s] | Withdrawal Parameter<br>$F_{ax} = \frac{F_{max}}{D \times 1p}$<br>[N/mm <sup>2</sup> ] | Remarks  |
| Average   | 8790        | 90 ± 30     | 28,82  | Pull-out |
| Characteristic value faxk = 25,95 N/mm <sup>2</sup> |             |             |  |          |

| Head Pull-through test                                 |             |             |   |         |
|--|-------------|-------------|---|---------|
|  | Fmax<br>[N] | Time<br>[s] | Head pull-through Parameter<br>$F_{ax} = \frac{F_{max}}{D \times 1p}$<br>[N/mm <sup>2</sup> ] | Remarks |
| Average  | 3259        | 300 ± 120   | 189,24  | //      |
| Characteristic value fheadk = 139,39 N/mm <sup>2</sup> |             |             |   |         |

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| Tensile test                          |              |             |               |
|---------------------------------------|--------------|-------------|---------------|
|                                       | Ftens<br>[N] | Time<br>[s] | Remarks       |
| Average                               | 14041        | 10 ± 5      | In the thread |
| Characteristic value ftensk = 11659 N |              |             |               |

| Test for determination of torsional resistance |               |                         |         |
|--|---------------|-------------------------|---------|
|  | Rtor<br>[N.m] | Rotation Speed<br>[rpm] | Remarks |
| Average  | 5,79          | ≤ 100                   | //      |
| Characteristic value Rtor,k = 3,97 N.m         |               |                         |         |

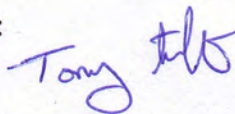
| Test for determination of torsional strength |               |               |         |
|--|---------------|---------------|---------|
|  | Ftor<br>[N.m] | Time<br>[rpm] | Remarks |
| Average                                      | 13,86         | ≤ 100         | //      |
| Characteristic value Ftor,k = 12,20 N.m      |               |               |         |

| Characteristic torsional ratio        |  |   |  |
|---------------------------------------|--|---|--|
| Torsional strength<br>Ftor,k<br>[N.m] | Characteristic torsional resistance<br>Rtor,k<br>[N.m] | Characteristic torsional ratio<br>Ftor,k/Rtor,k | Characteristic torsional ratio acceptance criteria |
| 12,20                                 | 3,97   | 3,07  | Ftor,k/Rtor,k ≥ 1,5                                |

This declaration of performance is issued under the sole responsibility of the manufacturer.

Signed for and on behalf of the manufacturer by:  
Anthony Armitt, Purchasing Manager of Forgefix Ltd.

Signature:



Date: 20/09/2013