



**EN 14592/A1**



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## **Certificate**

**Circular ring shank D-head nails for structural timber products**

Diameter = 2.9 mm    Length = 50mm - 65mm

### **Properties of the material used:**

- non alloy wire rod in accordance with EN 10016-1 to 4
- tensile strength in accordance with EN 10218-1, minimum 700 N/mm<sup>2</sup>

### **Characteristic mechanical properties:**

- |  |   |
|--|---|
| - Yield moment:  | <b><math>M_{y,k} = 4731 \text{ Nmm}</math></b>        |
| - Withdrawal strength parallel to grain:<br>Timber: minimum characteristic density of 310 kg/m <sup>3</sup>      | <b><math>f_{ax,0,k} = 3.17 \text{ N/mm}^2</math></b>  |
| - Withdrawal strength perpendicular to grain:<br>Timber: minimum characteristic density of 310 kg/m <sup>3</sup> | <b><math>f_{ax,90,k} = 6.41 \text{ N/mm}^2</math></b> |
| - Head pull-through parameter:<br>in OSB/3 with thickness $\geq 9 \text{ mm}$                                    | <b><math>f_{head,k} = 15.08 \text{ N/mm}^2</math></b> |
| - Tensile capacity:  | <b><math>f_{tens,k} = 3.36 \text{ kN}</math></b>      |

### **Durability (Corrosion Protection):**

HDG (Hot Dipped Galv.) min 50µ –  
Service Class 3 acc. To EN1995-1-1

Evaluation of Conformity  
Initial Type Testing at

**BMTRADA**

Notified Test Laboratory 2389  
for EN 14592 Timber Structures -  
Dowel Type Fasteners - Requirements