

**Table B1: Characteristic values for tension loads and shear loads**

<b>Materials</b> Fastener: Carbon steel – with electroplated coating according EN ISO 4042 (8 µm)  Component I: S250 GD Component II: S235					
Drilling Capacity: ≤ 3,50 mm					
<b>Timber substructures</b> No performance determined					
<b>Intended use:</b> Fastening screws which are intended to be used in internal and external environments.					
$t_{N,II}$ [mm]	0,8	1,25	1,50	2,0	
$M_{t,nom}$ [Nm]	4,7				
$V_{R,k}$ [kN] for $t_{N,II}$ [mm]	0,6	1,01	1,68	1,68	1,78
	0,8	1,01	1,68	1,68	1,78
	1,25	1,01	1,68	1,68	1,78
$N_{R,k}$ [kN] for $t_{N,II}$ [mm]	0,6	0,50	0,87	0,87	2,45
	0,8	0,50	0,87	0,87	2,45
	1,25	0,50	0,87	0,87	2,45



**Annex B1**

**Performances** – Characteristic resistance under tension load and shear.

**Table B2: Characteristic values for tension loads and shear loads**

<p><b>Materials</b> Fastener: Carbon steel – with electroplated coating according EN ISO 4042 (8 µm) Component I: S250 GD Component II: S235</p>				
Drilling Capacity ≤ 4,0 mm				
<p><b>Timber substructures</b> No performance determined</p>				
<p><b>Intended use:</b> Fastening screws which are intended to be used in internal and external environments.</p>				
$t_{N,II}$ [mm]	0,8	1,25	1,50	
$M_{t,nom}$ [Nm]	6,9			
$V_{R,k}$ [kN] for $t_{N,II}$ [mm]	0,6	1,24	1,28	1,28
	0,8	1,24	1,28	1,28
	1,25	1,24	1,28	1,28
	1,50	-	1,99	1,99
	2,0	-	1,99	1,99
$N_{R,k}$ [kN] for $t_{N,II}$ [mm]	0,6	0,41	0,54	0,54
	0,8	0,41	0,54	0,54
	1,25	0,41	0,54	0,54
	1,50	-	0,59	0,59
	2,0	-	0,59	0,59



**Annex B2**

**Performances – Characteristic resistance under tension load and shear.**

**Table B3: Characteristic values for tension loads and shear loads**

<p><b>Materials</b> Fastener: Carbon steel – with electroplated coating according EN ISO 4042 (8 µm)</p> <p>Component I: S250 GD Component II: S235</p>					
Drilling Capacity ≤ 3,50 mm					
<p><b>Timber substructures</b> No performance determined</p>					
<p><b>Intended use:</b> Fastening screws which are intended to be used in internal and external environments.</p>					
$t_{N,II}$ [mm]	0,8	1,25	1,50	2,0	
$M_{t,nom}$ [Nm]	4,7				
$V_{R,k}$ [kN] for $t_{N,II}$ [mm]	0,6	0,98	0,98	0,98	1,11
	0,8	0,98	0,98	0,98	1,11
	1,25	0,98	0,98	0,98	1,11
	1,50	-	2,25	2,25	-
	2,0	-	2,25	2,25	-
$N_{R,k}$ [kN] for $t_{N,II}$ [mm]	0,6	0,38	0,65	0,65	1,83
	0,8	0,38	0,65	0,65	1,83
	1,25	0,38	0,65	0,65	1,83
	1,50	-	0,67	0,67	-
	2,0	-	0,67	0,67	-



**Annex B3**

**Performances** – Characteristic resistance under tension load and shear.

**Table B4: Characteristic values for tension loads and shear loads**

<p><b>Materials</b> Fastener: Carbon steel – with electroplated coating according EN ISO 4042 (8 µm)</p> <p>Component I: S250 GD Component II: S235</p>		<p><b>DRILLEX® KR 4,8 mm</b></p>			
Drilling Capacity ≤ 4,0 mm					
<p><b>Timber substructures</b> No performance determined</p>					
<p><b>Intended use:</b> Fastening screws which are intended to be used in internal and external environments.</p>					
$t_{N,II}$ [mm]	0,8	1,25	1,50	2,0	
$M_{t,nom}$ [Nm]	6,9				
$V_{R,k}$ [kN] for $t_{N,II}$ [mm]	0,6	0,86	0,86	0,86	1,07
	0,8	0,86	0,86	0,86	1,07
	1,25	0,86	0,86	0,86	1,07
	1,50	-	2,85	2,85	4,65
	2,0	-	2,85	2,85	4,65
$N_{R,k}$ [kN] for $t_{N,II}$ [mm]	0,6	0,42	0,61	0,61	1,83
	0,8	0,42	0,61	0,61	1,83
	1,25	0,42	0,61	0,61	1,83
	1,50	-	0,64	0,64	1,85
	2,0	-	0,64	0,64	1,85



**Annex B4**

**Performances** – Characteristic resistance under tension load and shear.

**Table B5: Characteristic values for tension loads and shear loads**

<p><b>Materials</b> Fastener: Carbon steel – with electroplated coating according EN ISO 4042 (8 µm)</p> <p>Component I: S250 GD Component II: S235</p>		<p><b>DRILLEX® KR 5,5 mm</b></p>				
Drilling Capacity ≤ 5,0 mm						
<p><b>Timber substructures</b> No performance determined</p>						
<p><b>Intended use:</b> Fastening screws which are intended to be used in internal and external environments.</p>						
$t_{N,II}$ [mm]	1,0	1,25	1,5	2,0	3,0	
$M_{t,nom}$ [Nm]	10,4					
$V_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,6	0,53	0,53	0,53	1,21	1,21
	1,0	0,53	0,53	0,53	1,21	1,21
	1,25	0,53	0,53	0,53	1,21	1,21
	1,5	-	3,16	3,16	4,79	5,80
	2,0	-	3,16	3,16	4,79	5,80
	3,0	-	3,16	3,16	4,79	-
$N_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,6	0,58	0,59	0,59	1,67	1,67
	1,0	0,58	0,59	0,59	1,67	1,67
	1,25	0,58	0,59	0,59	1,67	1,67
	1,5	-	0,61	0,61	1,99	3,85
	2,0	-	0,61	0,61	1,99	3,85
	3,0	-	0,61	0,61	1,99	-



**Annex B5**

**Performances** – Characteristic resistance under tension load and shear.

**Table B6: Characteristic values for tension loads and shear loads**

<p><b>Materials</b> Fastener: Carbon steel – with electroplated coating according EN ISO 4042 (8 µm)</p> <p>Component I: S250 GD Component II: S235</p>					
Drilling Capacity: [-]					
<p><b>Timber substructures</b> No performance determined</p>					
<p><b>Intended use:</b> Fastening screws which are intended to be used in internal and external environments.</p>					
$t_{N,II}$ [mm]	1,5	2,0	4,0	7,0	
$M_{t,nom}$ [Nm]	13,6				
$V_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,6	1,59	1,59	2,70	3,22
	1,5	-	4,06	4,29	4,29
	2,0	-	4,06	4,29	4,29
	4,0	-	4,06	4,29	4,29
	7,0	-	4,06	4,29	4,29
$N_{R,k}$ [kN] for $t_{N,I}$ [mm]	0,6	0,86	1,98	4,34	5,22
	1,5	-	2,55	5,22	5,22
	2,0	-	2,55	5,22	5,22
	4,0	-	2,55	5,22	5,22
	7,0	-	2,55	5,22	5,22

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**Annex B6**

**Performances** – Characteristic resistance under tension load and shear.

**Table B7: Characteristic values for tension loads and shear loads**

<p><b>Materials</b>                  Fastener: Carbon steel – with electroplated coating according EN ISO 4042 (8 µm)                   Component I: S250 GD                  Component II: S235</p>					
<p>Drilling Capacity ≤ 7,0 mm</p>					
<p><b>Timber substructures</b>                  No performance determined</p>					
<p><b>Intended use:</b>                  Fastening screws which are intended to be used in internal and external environments.</p>					
$t_{N,II}$ [mm]	1,5	2,0	4,0	7,0	
$M_{t,nom}$ [Nm]	17,0				
$V_{R,k}$ [kN] for $t_{N,II}$ [mm]	0,6	1,62	2,17	3,07	3,17
	1,5	-	5,63	6,48	6,48
	2,0	-	5,63	6,48	6,48
	4,0	-	5,63	-	-
$N_{R,k}$ [kN] for $t_{N,II}$ [mm]	0,6	1,36	1,80	3,62	3,38
	1,5	-	2,60	5,08	5,08
	2,0	-	2,60	5,08	5,08
	4,0	-	2,60	-	-

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**Annex B7**

**Performances** – Characteristic resistance under tension load and shear.

**Declaration of Performance (DOP)**No: **MU-09-2025**

1) Unique identification code of the product-type  
**DRILLEX® – KOVERVIT® BS – KOVERVIT® DX**

2) Intended use:  
**Fastening screws for metal members and sheetings**

3) Manufacturer  
**MUSTAD SPA, Via Sant'Anna 59-21, 10070 BALANGERO (Italy)**

4) System of AVCP:  
**System 2+**

5) European Assessment Document: **EAD 330046-01-0602**  
 European Technical Assessment: **ETA-21/0739**  
 Technical Assessment Body: **CSTB – Champs sur Marne – F77447 Marne la Vallée**

6) Declared Performance :

Basic Works Requirement (BWR1): Mechanical resistance and stability	
Essential characteristic	Performance
Shear Resistance of the connection	See Tables B1-B7
Tension Resistance of the connection	See Tables B1-B7
Design Resistance in case of combined Tension and Shear Forces (interaction)	See Tables B1-B7
Check of Deformation Capacity in case of constraining forces due to temperature	NA
Durability	NF EN 1670 – grade 4
Basic Works Requirement (BWR 2): Safety in case of fire	
Reaction to fire	A1

The performance of the product identified above is in conformity with the set of declared performance/s.  
 This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

**Balangero 29.09.2025****Signature**