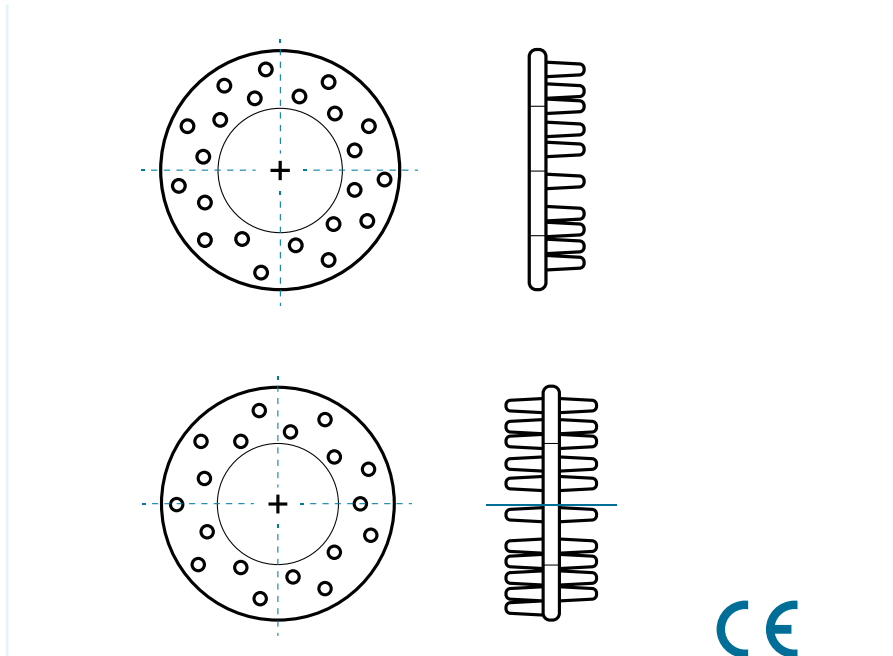


# TOOTHED PLATE CONNECTOR EN 912 (DIN 1052)

## TYP C 11 SINGLE-SIDED AND C 10 DOUBLE-SIDED



### C 11 single-sided

Diameter approx. mm	50	65	80	95	115
Quantity per bundle	50	50	25	25	25
Weight approx. kg/100 pcs	4,600	8,400	13,000	15,500	21,500
for bolts	M 12	M 16	M 20	M 24	M 24

### C 10 double-sided

Diameter approx. mm	50	65	80	95	115
Quantity per bundle	50	50	25	25	25
Weight approx. kg/100 pcs	4,440	8,250	10,520	13,400	17,600

- » Complete formation of the pins acc. to DIN 1052, only possible due to natural sand production
- » Final inspection for cracking and missing pins when bundling
- » Precise formation of the inner bore = savings of time and labour when fastening the connector at the assembly site
- » With certificate of compliance 3.1 acc. to EN 10204 – if required
- » Made in Germany
- » The CE declaration of performance is available for downloading on our website.

MATERIAL:

Malleable cast iron EN-GJMB-350-10 acc. to DIN EN 1562

SURFACE FINISH:

Non-plated, zinc-plated acc. to DIN EN ISO 4042, hot-dip galvanised, further finishes on request

All of the dimensions stated above are approximate and may deviate both upwards and downwards.



# DECLARATION OF PERFORMANCE

CE-HV-92  
Issue 1504

1. **Product type:** Toothed plated Connector with teeth (double-sided)
2. **Identification:** C10
3. **Purpose:** For timber products intended for load bearing
4. **Manufacturer:** BTS Befestigungselemente-Technik GmbH, Max-Planck-Str. 1, 54439 Saarburg
5. **Authorised representative:** N/A
6. **Rating system:** 2+

## 7./8. Technical specifications & notified offices:

	Name	No.	Rating system	Reference document	EAD (ETAG) No. / EN Standard
Technical rating	BTS GmbH Saarburg	-	2+	BTS ITT Report Type C10	EN 14545:2008
In-house production inspection	Karlsruhe Institute of Technology	0769	2+	0769-CPR-6154/01	-

## 9. Declared performance:

Key characteristics	Performance					Technical specification
Designation	Toothed Plate Connector C10					
<b>Dimensions</b>						
Diameter - dc (mm)	50	65	80	95	115	EN 912
<b>Mechanical strength and rigidity</b>						
Characteristic load capacity - $R_{c,k}$ (kN)	8,81	13,19	17,99	23,33	31,02	EN 14545 section 6.1.3; EN 13271
Slip modulus - $K_{ser}$ (kN/mm <sup>2</sup> )	7,86	10,29	12,65	15,04	18,18	EN 14545 section 6.1.3; EN 13271
Material	Malleable cast iron EN-GJMB-350-10					DIN-EN 1562
Corrosion protection	Galvanised - Fe/Zn12/B					DIN-EN-ISO 2081

10. The performance of the product acc. to numbers 1 and 2 corresponds to the declared performance as per number 9. The manufacturer acc. to number 4 is solely responsible for the drafting of this declaration of performance.



# DECLARATION OF PERFORMANCE

CE-HV-92  
Issue 1504

- 1. **Product type:** Toothed plated Connector with teeth (single-sided)
- 2. **Identification:** C11
- 3. **Purpose:** For timber products intended for load bearing
- 4. **Manufacturer:** BTS Befestigungselemente-Technik GmbH, Max-Planck-Str. 1, 54439 Saarburg
- 5. **Authorised representative:** N/A
- 6. **Rating system:** 2+

## 7./8. Technical specifications & notified offices:

	Name	No.	Rating system	Reference document	EAD (ETAG) No. / EN Standard
Technical rating	BTS GmbH Saarburg	-	2+	BTS ITT Report Type C10	EN 14545:2008
In-house production inspection	Karlsruhe Institute of Technology	0769	2+	0769-CPR-6154/01	-

## 9. Declared performance:

Key characteristics	Performance					Technical specification
Designation	Toothed Plate Connector C11					
<b>Dimensions</b>						
Diameter - dc (mm)	50	65	80	95	115	EN 912
<b>Mechanical strength and rigidity</b>						
Characteristic load capacity - $R_{c,k}$ (kN)	9,01	13,22	17,93	23,10	30,86	EN 14545 section 6.1.3; EN 13271
Slip modulus - $K_{ser}$ (kN/mm <sup>2</sup> )	7,98	10,30	12,62	14,94	18,13	EN 14545 section 6.1.3; EN 13271
Material	Malleable cast iron EN-GJMB-350-10					DIN-EN 1562
Corrosion protection	Galvanised - Fe/Zn12/B					DIN-EN-ISO 2081

10. The performance of the product acc. to numbers 1 and 2 corresponds to the declared performance as per number 9. The manufacturer acc. to number 4 is solely responsible for the drafting of this declaration of performance.

# SIMPLEX TIMBER CONNECTORS

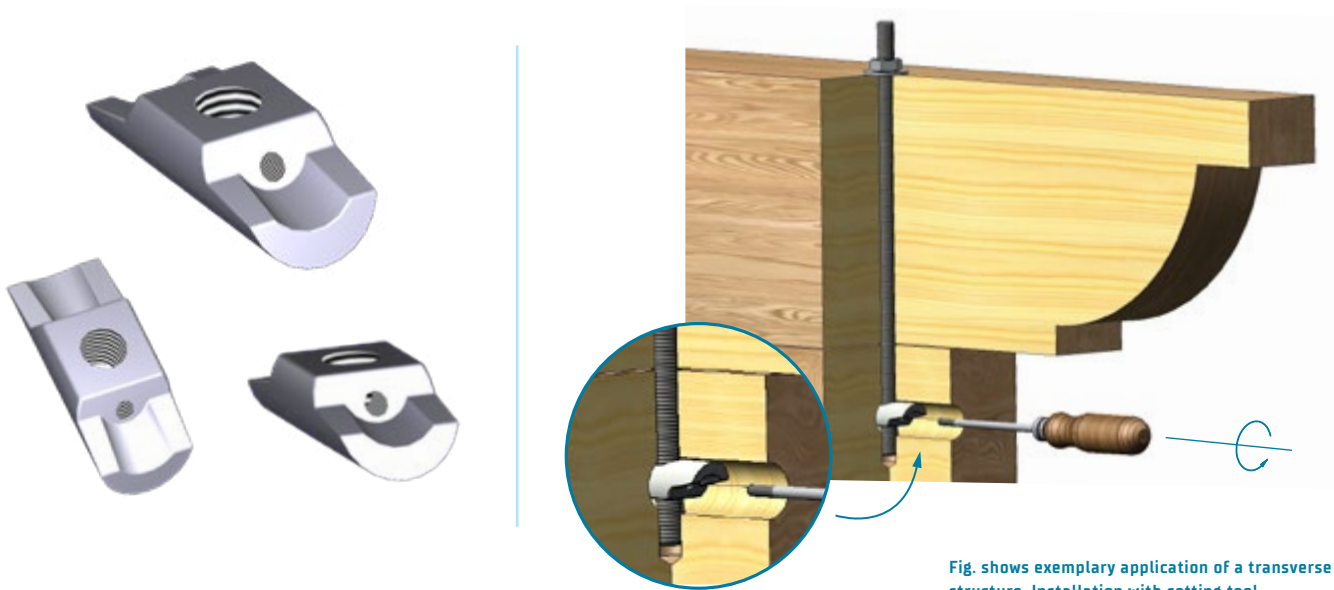




Fig. shows exemplary application of a transverse structure. Installation with setting tool.

- » Available in all popular dimensions and acc. to fire resistance class F30B
- » All SIMPLEX connectors with M5 cross-thread to mount with a setting tool
- » Made in Europe

SIMPLEX connectors are used to secure position of specifically designed wooden dowels. They are the perfect solution for lengthwise and transverse connections in timber structures, especially in challenging structures and for increased fire safety requirements.

- » Perfect for use against shear forces, especially combined with BTS plate connectors type C10 and C11 acc. to EN912. Compared to structures with mortise and tenon joints this method is easier and cheaper.
- » The timber connection parts can be installed completely concealed.
- » Types S3 can be used acc. to the standards of fire resistance class F30B after a prior verification by the user.

Simplex Timber Connectors			
Type	Thread	Dimensions [LxW in mm]	
S1	M12	54 x 22	200
S2	M16	72 x 28	100
S3	M20	92 x 38	50

Simplex Timber Connectors acc. to F30B			
Type	Thread	Dimensions [LxW in mm]	
S3	M12	92 x 38	50
S3	M16	92 x 38	50
S3	M20	92 x 38	50

**MATERIAL:** Malleable cast iron EN-GJMW-400-5 acc. to DIN EN 1562  
**SURFACE FINISH:** Zinc-plated A2K acc. to DIN EN ISO 4042, further finishes on request  
**MARKING:** All types with marking S1, S2, S3 and manufacturer code

All of the dimensions stated above are approximate and may deviate both upwards and downwards. Subject to prior sale.