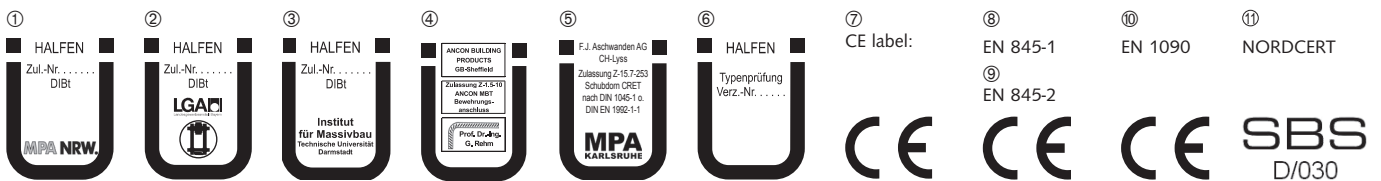


# CONFORMITY LABELING / CE LABELING

Products acc. to German Official Approval (Z-), European Technical Approval (ETA-), to Type Test Report (T No.) or to European Standards

Product:	Document No.:	Plant:
BA Body anchor	C€-14-2451,2499-DoP H23-1090-1/1	⑩
BRA Parapet corbel	T No. S-WUE 050196 C€-14-2451,2499-DoP H26-1090-1/1	⑩ ⑩ ⑥
DEMU Fixing anchor T-FIXX	ETA-13/0222 - DIBt C€-13-2323 - DoP H03-13/0222	⑦ Utrecht
DEMU Bolt anchor 1988, 1985	ETA-13/0401 - DIBt C€-13-2323 - DoP H03-13/0401	⑦ Utrecht, DAP
DETAN-S460 Tension rod system	ETA-05/0207 - DIBt C€-08-0780 - DoP H58-05/0207	⑦ DAP
DETAN-E Tension rod system	ETA-11/0311 - DIBt C€-12-0780 - DoP H58-11/0311	⑦ DAP
DS1 Spacer bolts	T No. S-WUE 150494	⑥
FPA Pre-cast panel anchor system	Z-21.8-1910 - DIBt C€-14-2451,2499-DoP H26-1090-1/2	⑩ ⑩ ① PNW
FPA-E SL30 Façade panel cast-in part	Z-21.8-2067 - DIBt	① PNW
FSW Prefabricated hanging bricks support	T No. 14/95	⑩ ⑥
HAB H Anchor bolt	Z-21.5-1761 - DIBt	⑩ ① DAP
HAB MH Anchor bolt	Z-21.5-1758 - DIBt	⑩ ① DAP
HBB Impact sound insulation concrete cantilever	T No. S-WUE 040559	⑩ ⑥
HBS-05 Screw connection	Z-1.5-189 - DIBt	⑩ ③ DAP
HBT Rebind connection	T No. 4117-6131/14 Z-21.8-2035 - DIBt	⑩ ⑥ ① PNW
HCC Column shoe	T No. 03.30 C€-14-2451, 2499-DoP H60-1090-1-2	⑩ ⑥ ⑩ PNW
HDB Punching shear reinforcement	ETA-12/0454 - DIBt C€-12-0432 - DoP H09-12/0454	⑦ DAP, PNW
HDB Punching shear reinforcement	Z-15.1-213 - DIBt	⑩ ① DAP, PNW
HDB-G Punching shear reinforcement	Z-15.1-264 - DIBt	⑩ ① DAP
HDB-G-S Shear reinforcement	Z-15.1-270 - DIBt	⑩ ① DAP
HDB-S Shear reinforcement	Z-15.1-249 - DIBt	⑩ ① DAP, PNW
HEA Cavity wall tie	Z-21.1-910 - DIBt C€-13-0764 - DoP H19-845-1/1	① ⑧ DAP
HGB Handrail connection	Z-21.4-1912 - DIBt	① DLP
HIT Insulated connection	Z-15.7-238 - DIBt	① PNW
HIT-HP, HIT-SP Insulated connection	Z-15.7-293 - DIBt	① DAP, PNW
HIT-HP/SP DD Insulated connection	Z-15.7-309 - DIBt	① PNW
HIT-HP/SP ZV/ZVX/ZDX Insulated connection	Z-15.7-312 - DIBt	① PNW
HIT-HP/SP MV/MVX/ZV/ZVX/ZDX Insulated connection	ETA-13/0546 - OIB C€-13-0432 - DoP H10-13/0546	⑦ DAP, PNW
HK4 and HK5 Corbel heads for brickwork supports	Z-21.8-1922 - DIBt	① DAP, PNW
HK4 Brickwork support	T No. S-WUE 080272 C€-13-1488 - DoP H15-845-1/2	⑥ ⑧
HK5 Brickwork support	T No. S-WUE 150438 C€-17-1488 - DoP H15-845-1/3	⑥ ⑧
HLB Loop Box M 50-System	Z-21.8-1869 - DIBt	⑩ ① PNW
HLB Loop Box T100/250-System	Z-21.8-1871 - DIBt	⑩ ① PNW
HM Framing channel	C€-14-2499-DoP H28-1090-1-2/1	⑩ DLP
HMS HALFEN Cast-in channels	C€-16-1488-DoP H18-845-1/4	⑧
HPV-L Aerated concrete cavity wall tie	C€-13-0764-DoP H19-845-1/2	⑧

Product:	Document No.:	Plant:
HSC Stud connector	Z-21.8-1973 - DIBt	⑩ ① DAP
HSC-B Stud connector type B	Z-21.8-1974 - DIBt	⑩ ① DAP
HSCC Steel corbels	T Nr. S-WUE/110032 C€-14-2451, 2499-DoP H45-1090-1-2	⑩ ⑥ ⑩ PNW
HSD-CRET Shear dowel	Z-15.7-253 - DIBt	⑩ ⑤ Lyss (CH)
HTA HALFEN Cast-in channels	Z-21.4-34 - DIBt	① DLP
HTA-CE HALFEN Cast-in channels	ETA-09/0339 - DIBt C€-09-0432 - DoP H01-09/0339 ETA-16/0453 - DIBt C€-13-0432 - DoP H01-16/0453	⑦ DLP
HTA-ES Prefabricated hanging bricks support	Z-21.4-1989 - DIBt	⑩ ① DLP
HTT Impact sound insulation element	T No. S-WUE 040519	⑩ ⑥
HTU HALFEN Cast-in channels	Z-21.4-84 - DIBt	⑩ ① DLP
HW Support angle	T No. 12/08 C€-13-0780 - DoP H16-845-2	⑥ ⑨
HZA HALFEN Serrated cast-in channel 41/22	Z-21.4-145 - DIBt	⑩ ① DLP
HZA HALFEN Serrated cast-in channel DynagriP	Z-21.4-1691 - DIBt	⑩ ① DLP
HZM Framing channel	C€-14-2499-DoP H28-1090-1-2/2	⑩ DLP
KON Cantilevers	C€-14-2499-DoP H31-1090-1-2/1	⑩ DLP
LSA-DW Cavity wall tie	Z-21.2-1009 - DIBt Z-17.1-825 - DIBt C€-13-0764 - DoP H19-845-1/3	⑧ Kirchhundem
LSA-F Cavity wall tie	Z-17.1-888 - DIBt C€-13-0764 - DoP H19-845-1/4	⑧ Kirchhundem
LSA-L Cavity wall tie	C€-13-0764 - DoP H19-845-1/5	⑧
MBT Reinforcing coupler	Z-1.5-10 - DIBt	④ Sheffield
MVA, FA Sandwich bond anchor system	Z-21.8-1979 - DIBt C€-14-2451, 2499-DoP H57-1090-1/1	⑩ ⑩ ① DAP, PNW
Reinforcement steel in coils	Reinforcement steel in coils acc. to DIN 488	① PNW
Reinforcement steel in coils, stainless steel	Approval for stainless reinforcement steel in coils	① PNW
SPA Sandwich panel anchor	Z-21.8-1926 - DIBt C€-14-2273,2499-DoP H27-1090-1/1	⑩ ① DAP
UHA Grout-in anchor	T No. S-WUE 050493 C€-14-2451,2499-DoP H22-1090-1/1	⑥ ⑩
UMA Grout-in anchor	T No. 13/3 C€-14-2451,2499-DoP H22-1090-1/1	⑥ ⑩
C€-yy Year of first CE-marking - No. of notified testing laboratory - DoP No.		
DLP: Plant Langenfeld / DAP: Plant Artern / PNW: Halfen Produkcia		



## Explanation of the abbreviations for the materials/finishes

General:		HALFEN Bolts <b>HS, HZS, HSR:</b>
Steel finishes:	<b>FV</b> = hot-dip galv., <b>GV</b> = electroplated, <b>SV</b> = pre-galvanized, <b>WB</b> = mill finish	<b>GV</b> = strength grade 4.6 ① electroplated
Stainless steel:	<b>A2</b> = material grade 1.4307/1.4311, <b>A4</b> = material grade 1.4404/1.4571, <b>L4</b> = material grade 1.4362/1.4062/1.4162/1.4482 (material grades acc. to DIN 17440)	<b>GV 8.8</b> = strength grade 8.8 ① electroplated
Plastic:	<b>KS</b> = plastic	<b>GVs</b> = strength grade 4.6 ① zinc galvanized steel with special coating
HALFEN Channels <b>HTA, HZA, HTU:</b>		<b>GVs 8.8</b> = strength grade 8.8 ① zinc galvanized steel with special coating
<b>KF</b> = Kombi strip filler		<b>FV</b> = strength grade 4.6 ① hot-dip galvanized
<b>Ank. A4</b> = anchor made of stainless steel W 1.4404/1.4571 (A4)		<b>FV 8.8</b> = strength grade 8.8 ① hot-dip galvanized
<b>HCR</b> = channel and anchor made of High Corrosion Resistance stainless steel W 1.4529, 1.4547, 1.4462 (the last not applicable for indoor swimming pools)		<b>roh</b> = strength grade 4.6 ① black
<b>Ank. St.</b> = anchor made of steel according DIN EN 10088 (only stated in case of stainless steel channels)		① = strength grades acc. to DIN EN ISO 898 part 1
<b>LAnk.</b> = Special execution „L“ anchor position longitudinal along the channel		HALFEN Bolts <b>HS, HZS</b> in stainless steel:
(Länge)/3 = HALFEN Channel with a special number of anchors e.g. 300/3: L=300mm with 3 anchors		<b>A4 - 50</b> = grade A4 - 50 ②
<b>FV A4</b> = HALFEN Channel hot dip galvanized with anchors made of stainless steel A4		<b>A4 - 70</b> = grade A4 - 70 ②
		<b>A2 - 50</b> = grade A2 - 50 ②
		<b>A2 - 70</b> = grade A2 - 70 ②
		<b>HCR-50</b> = grade HCR-50, high corrosion resistance ②
		② = material grades acc. to DIN EN ISO 3506 part 1