

CONFORMITY LABELING / CE LABELING

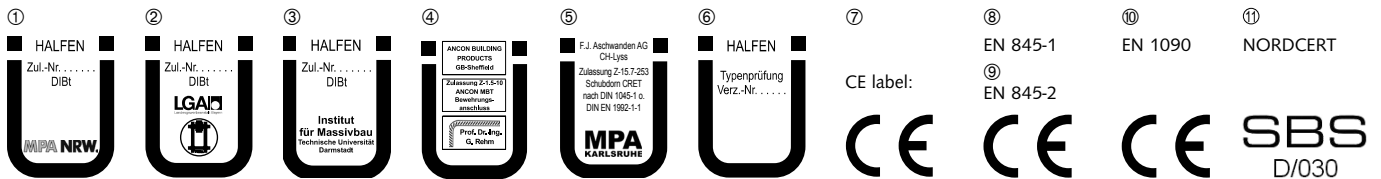
Products according to German Official Approval (Z-), European Technical Approval / Assessment (ETA-), to Type Test Report (T No.) or to European Standards

Product:	Document No.:	Plant:
BA Body anchor	CE-14 - 2451, 2499 - DoP H23-1090-1/1	⑩
BRA Parapet corbel	T No. S-WUE 050196 CE-14 - 2451, 2499 - DoP H26-1090-1/1	⑩ ⑩ ⑩
DEMU Fixing anchor T-FIXX	ETA-13/0222 - DIBt CE-13 - 2323 - DoP H03-13/0222	⑦ PNW
DEMU Bolt anchor 1988, 1985	ETA-13/0401 - DIBt CE-13 - 2323 - DoP H03-13/0401	⑦ PNW, DAP
DETAN-S460 Tension rod system	ETA-05/0207 - DIBt CE-08 - 0780 - DoP H58-05/0207	⑦ DAP
DETAN-E Tension rod system	ETA-11/0311 - DIBt CE-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 CE-14 - 2451, 2499 - DoP H26-1090-1/2	⑩ ⑩ ⑩ PNW
FPA-E SL30 Façade panel cast-in part	Z-21.8-2067 - DIBt	⑩ PNW
FSW Prefabricated hanging bricks support	T No. 14/95	⑩ ⑥
HAB H Anchor bolt	Z-21.5-1761 - DIBt	⑩ ⑩ DAP
HAB MH Anchor bolt	Z-21.5-1758 - DIBt	⑩ ⑩ DAP
HBB Impact sound insulation	T No. S-WUE 150270	⑩ ⑥
HBS-05 Screw connection	Z-15-189 - DIBt	⑩ ③ DAP
HBT Rebend connection	T No. 4117-6131/14 Z-21.8-2035 - DIBt	⑩ ⑥ ⑩ PNW
HCC Column shoe	T No. 03.30 CE-14 - 2451, 2499 - DoP H60-1090-1-2	⑩ ⑥ ⑩ PNW
HDB Punching shear reinforcement	ETA-12/0454 - DIBt CE-12 - 0432 - DoP H09-12/0454	⑦ DAP, PNW
HDB Punching shear reinforcement	Z-15.1-213 - DIBt	⑩ ⑩ DAP, PNW
HDB-G Punching shear reinforcement	Z-15.1-264 - DIBt	⑩ ⑩ DAP
HDB-G-S Shear reinforcement	Z-15.1-270 - DIBt	⑩ ⑩ DAP
HDB-S Shear reinforcement	Z-15.1-249 - DIBt	⑩ ⑩ DAP, PNW
HEA Cavity wall tie	Z-21.1-910 - DIBt CE-13 - 0764 - DoP H19-845-1/1	⑩ ⑩ DAP
HGA Scaffold anchor	CE-17 - 2451, 2499 - DoP H25-1090-1/1	⑩
HGB Handrail connection	Z-21.4-1912 - DIBt	⑩ DLP
HIT Insulated connection	Z-15.7-238 - DIBt	⑩ PNW
HIT-HP, HIT-SP Insulated connection	Z-15.7-293 - DIBt	⑩ DAP, PNW
HIT-HP/SP DD Insulated connection	Z-15.7-309 - DIBt	⑩ PNW
HIT-HP/SP ZV/ZVX/ZDX Insulated connection	Z-15.7-312 - DIBt	⑩ PNW
HIT-HP/SP MV/MVX/ZV/ZVX/ZDX Insulated connection	ETA-13/0546 - OIB CE-13 - 0432 - DoP H10-13/0546	⑦ DAP, PNW
HK4 and HK5 Corbel heads for brickwork supports	Z-21.8-1922 - DIBt	⑩ DAP, PNW
HK4 Brickwork support	T No. S-WUE 080272 CE-13 - 1488 - DoP H15-845-1/2	⑥ ⑧

Product:	Document No.:	Plant:
HK5 Brickwork support	T No. S-WUE 150438 CE-17 - 1488 - DoP H15-845-1/3	⑥ ⑧
HLB Loop Box M 50-System	Z-21.8-1869 - DIBt	⑩ ⑩ PNW
HLB Loop Box T100/250-System	Z-21.8-1871 - DIBt	⑩ ⑩ PNW
HM Framing channel	CE-14 - 2499 - DoP H28-1090-1-2/1	⑩ DLP
HMS HALFEN Cast-in channels	CE-16 - 1488 - DoP H18-845-1/4	⑧
HPV-L Aerated concrete cavity wall tie	CE-13 - 0764 - DoP H19-845-1/2	⑧
HSC Stud connector	Z-21.8-1973 - DIBt	⑩ ⑩ DAP
HSC-B Stud connector type B	Z-21.8-1974 - DIBt	⑩ ⑩ DAP
HSCC Steel corbels	T Nr. S-WUE/110032 CE-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-CE HALFEN Cast-in channels	ETA-09/0339 - DIBt CE-09 - 0432 - DoP H01-09/0339 ETA-16/0453 - DIBt CE-17 - 0432 - DoP H01-16/0453	⑦ DLP
HTA-ES Prefabricated hanging bricks support	Z-21.4-1989 - DIBt	⑩ ⑩ DLP
HTT Impact sound insulation element	T No. S-WUE 040519	⑩ ⑥
HTU HALFEN Cast-in channels	Z-21.4-84 - DIBt	⑩ ⑩ DLP
HW Support angle	T No. 12/08 CE-13 - 0780 - DoP H16-845-2	⑥ ⑨
HZA HALFEN Serrated cast-in channel 41/22	Z-21.4-145 - DIBt	⑩ ⑩ DLP
HZA HALFEN Serrated cast-in channel DYNAGRIP	Z-21.4-1691 - DIBt	⑩ ⑩ DLP
HZM Framing channel	CE-14 - 2499 - DoP H28-1090-1-2/2	⑩ DLP
KON Cantilevers	CE-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 CE-13 - 0764 - DoP H19-845-1/3	⑧ Kirchhundem
LSA-F Cavity wall tie	Z-17.1-888 - DIBt CE-13 - 0764 - DoP H19-845-1/4	⑧ Kirchhundem
LSA-L Cavity wall tie	CE-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 CE-14 - 2451, 2499 - DoP H57-1090 1/1	⑩ ⑩ ⑩ DAP, PNW
Reinforcement steel in coils	Reinforcement steel in coils acc. to DIN 488	⑩ PNW
Reinforcement steel in coils, stainless steel	Approval for stainless reinforcement steel in coils	⑩ PNW
SPA Sandwich panel anchor	Z-21.8-1926 - DIBt CE-14 - 2273, 2499 - DoP H27-1090-1/1	⑩ ⑩ DAP
UHA Grout-in anchor	T No. S-WUE 050493 CE-14 - 2451, 2499 - DoP H22-1090-1/1	⑥ ⑩
UMA Grout-in anchor	T No. 13/3 CE-14 - 2451, 2499 - DoP H22-1090-1/1	⑥ ⑩

CE-yy Year of first CE-marking - No. of notified testing laboratory - DoP No.

DLP: Plant Langenfeld / DAP: Plant Artern / PNW: Halfen Produkcja



Explanation of the abbreviations for the materials/finishes	HALFEN Bolts HS, HZS, HSR:
General:	GV = strength grade 4.6 ⑩ electroplated
Steel finishes:	GV 8.8 = strength grade 8.8 ⑩ electroplated
Stainless steel:	GVs = strength grade 4.6 ⑩ zinc galvanized steel with special coating
	GVs 8.8 = strength grade 8.8 ⑩ zinc galvanized steel with special coating
	FV = strength grade 4.6 ⑩ hot-dip galvanized
	FV 8.8 = strength grade 8.8 ⑩ hot-dip galvanized
Plastic:	roh = strength grade 4.6 ⑩ black
HALFEN Channels HTA, HZA, HTU:	⑩ = strength grades acc. to DIN EN ISO 898 part 1
KF	HALFEN Bolts HS, HZS in stainless steel:
Ank. A4	A4 - 50 = grade A4 - 50 ②
HCR	A4 - 70 = grade A4 - 70 ②
Ank. St.	FA - 70 = grade FA - 70 ②
LAnk.	A2 - 50 = grade A2 - 50 ②
(length)/3	A2 - 70 = grade A2 - 70 ②
FV A4	HCR-50 = grade HCR-50, high corrosion resistance ②
	② = material grades acc. to DIN EN ISO 3506 part 1