

HALFEN POWERCLICK SYSTEM 41+22

Produktinformation Technik/Technical Product Information



Leviat

We imagine, model and make engineered products and innovative construction solutions that help turn architectural visions into reality and enable our construction partners to build better, safer, stronger and faster.

Leviat is a world leader in connecting, fixing, lifting and anchoring technology.

From the build of new schools, hospitals, homes and infrastructure, to the repair and maintenance of heritage structures, our engineering skills are making a difference around the world.

We provide technical design assistance at every stage of a project, from initial planning to installation and beyond.

Our technical support services range from simple product selection through to the development of a fully customised project-specific design solution.

Every promise we make locally, has the commitment and dedication of our global team behind it. We employ almost 3,000 people at 60 locations across North America, Europe and Asia-Pacific, providing an agile and responsive service worldwide.

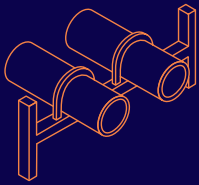




>3,000
People

60+
Locations

~20
Countries

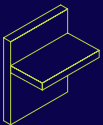


Industrial Technology

Mounting channels, pipe clamps and other versatile framing systems that provide safe fixing in a wide range of industrial applications.

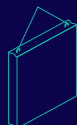
- Modular Framing Systems
- Modular Support Systems
- Mounting Channel Systems
- Accessories for channels, framing & support systems
- General accessories
- Versatile Interior Systems

Other areas of expertise:



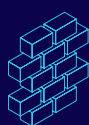
Structural Connections

Systems to form robust, efficient connections, and continuity of concrete reinforcement as necessary, between walls, slabs, columns, beams and balconies, providing structural integrity as well as enhanced thermal and acoustic performance.



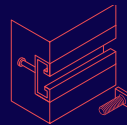
Lifting & Bracing

Systems for the safe and efficient transportation, lifting and temporary bracing of cast concrete elements and tilt-up panels before permanent structural connections are made.



Façade Support & Restraint

Systems for the safe and thermally-efficient fixing of the external building envelope, including brick and natural stone, insulated sandwich panels, curtain walling and suspended concrete façades, and also the repair and strengthening of existing masonry installations.



Anchoring & Fixing

Systems for fixing secondary fixtures to concrete, including anchor channels, bolts and inserts; also tension rod systems for roofs and canopies.



Formwork & Site Accessories

Non-structural accessories that complement our engineered solutions and help keep your construction environment operating safely and efficiently, including moulds for casting standard and special concrete elements and construction essentials such as reinforcing bar spacers.

Leviat product ranges:

Ancon | Aschwanden | Connolly | Halfen | Helifix | Isedio | Meadow Burke | Modersohn | Moment | Plaka | Scaldex | Thermomass

HALFEN POWERCLICK SYSTEM 41 + 22

Powerclick auf einen Blick / Powerclick at a glance

Noch nie war wenig so viel: DREI GRÖSSEN – ein System

Never has so little given so much: THREE SIZES – one system

POWERCLICK SYSTEM 63



Das einzigartige System von umschließenden Verbindungselementen überträgt Biegemomente besser als andere Systeme.

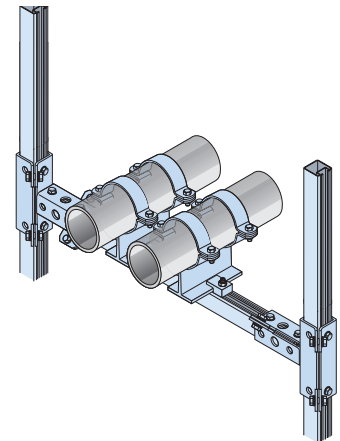
Unique "closed" design of connection elements resists moment forces more effectively than other systems.

Katalog PC 63

Catalogue PC 63



TÜV GEPRÜFT
NACH EN 13480
(BAUMUSTERPRÜFUNG)
POWERCLICK SYSTEM 63
TESTED TO EN 13480
(TYPE TESTED)
BY TÜV



POWERCLICK SYSTEM 41

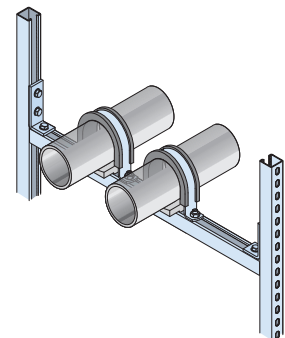


Vormontierte Verbindungsteile – komfortabel für den Planer und zeitsparend auf der Baustelle.

Pre-assembled connection hardware is convenient for the designer, and saves time on-site.

Katalog PC 41

Catalogue PC 41



POWERCLICK SYSTEM 22

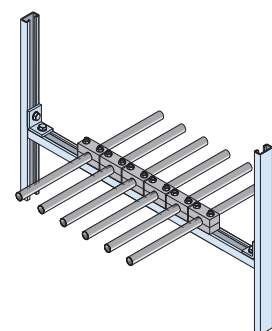
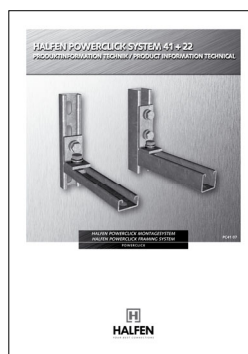


Für kleine Rohrdurchmesser - kompatibel mit unseren Systemen 63 und 41.

For small diameter piping. Fully compatible with 41 and 63 systems.

Katalog PC 41

Catalogue PC 41

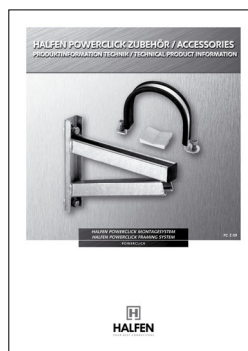


POWERCLICK ZUBEHÖR POWERCLICK ACCESSORIES

Konsolen, Rohrschellen, Gleitlager
Cantilever arms, pipe clamps, sliding supports

Katalog PC Z

Catalogue PC Z

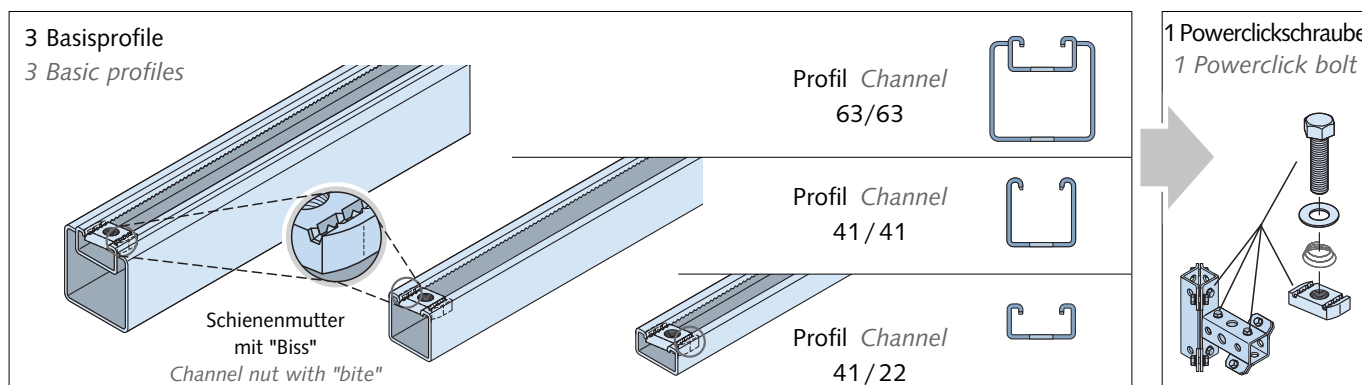
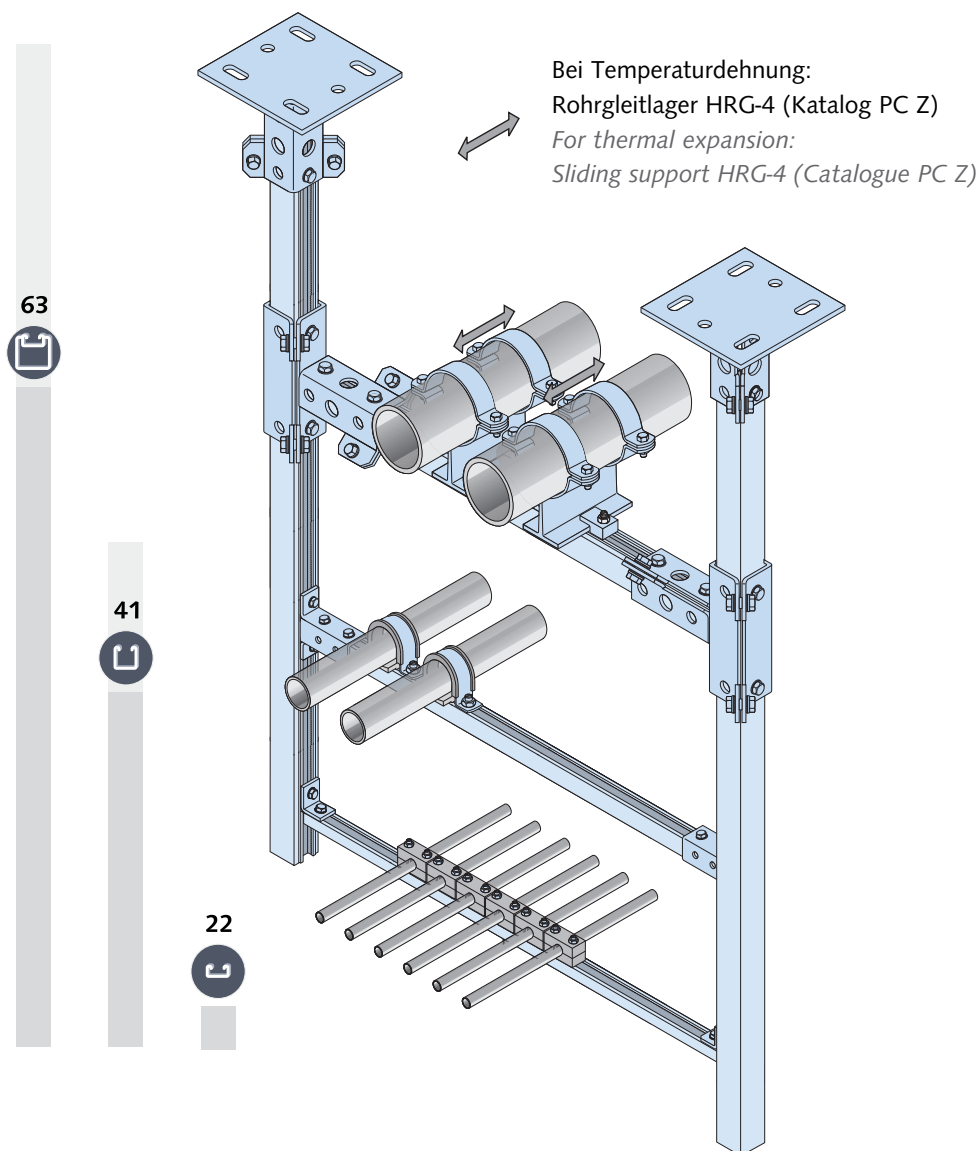


HALFEN POWERCLICK SYSTEM 41 + 22

Einfache und zeitsparende Montage / Simple and Time Saving Assembly

Ein kompatibles System für wirtschaftliche Unterstüzungen

One system compatible with all channels for economical supports

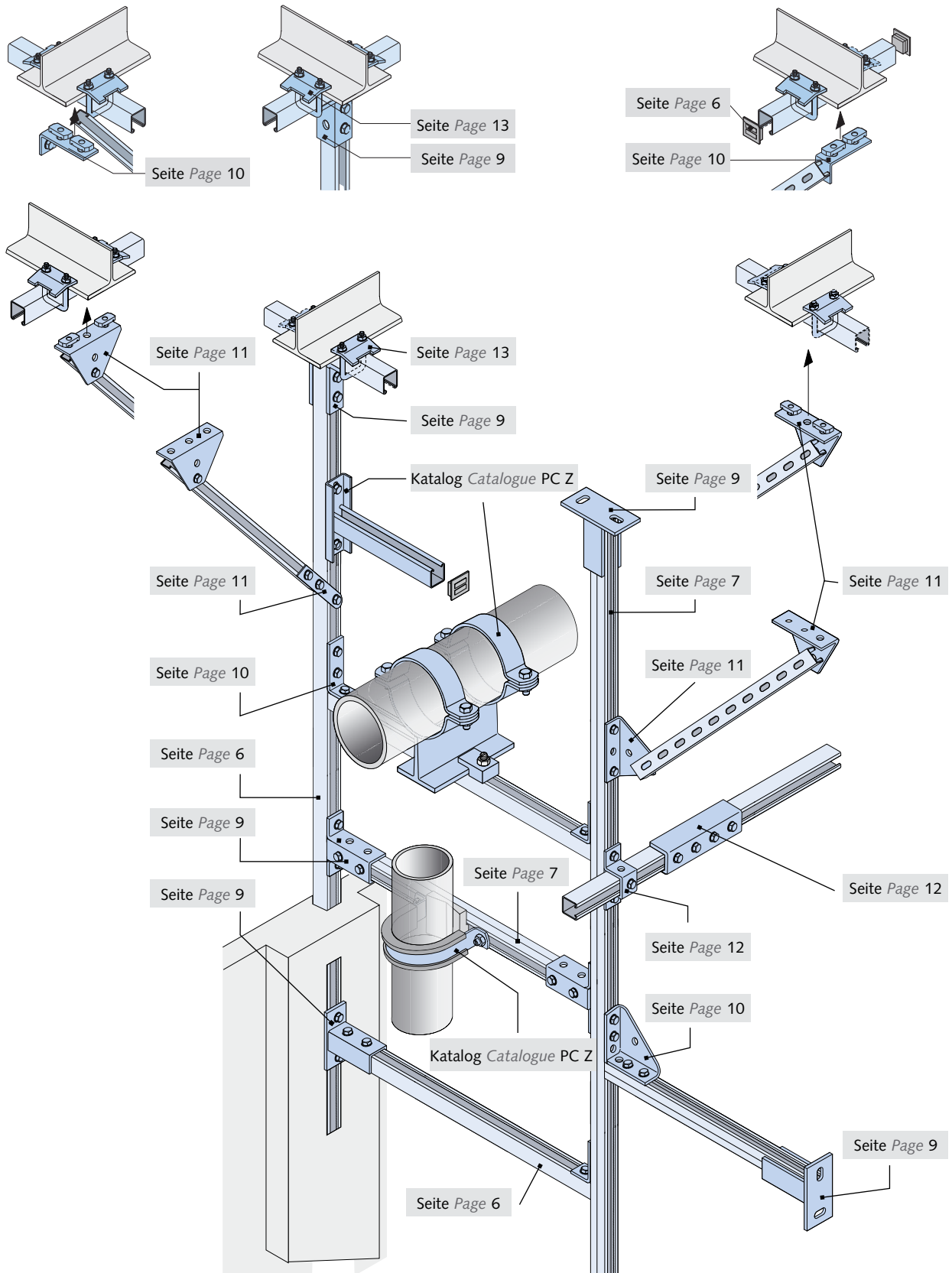


HALFEN POWERCLICK SYSTEM 41 + 22

Powerclick Montagesystem 41 / Powerclick Framing System 41



Bauteilanschlüsse *Structural connections*



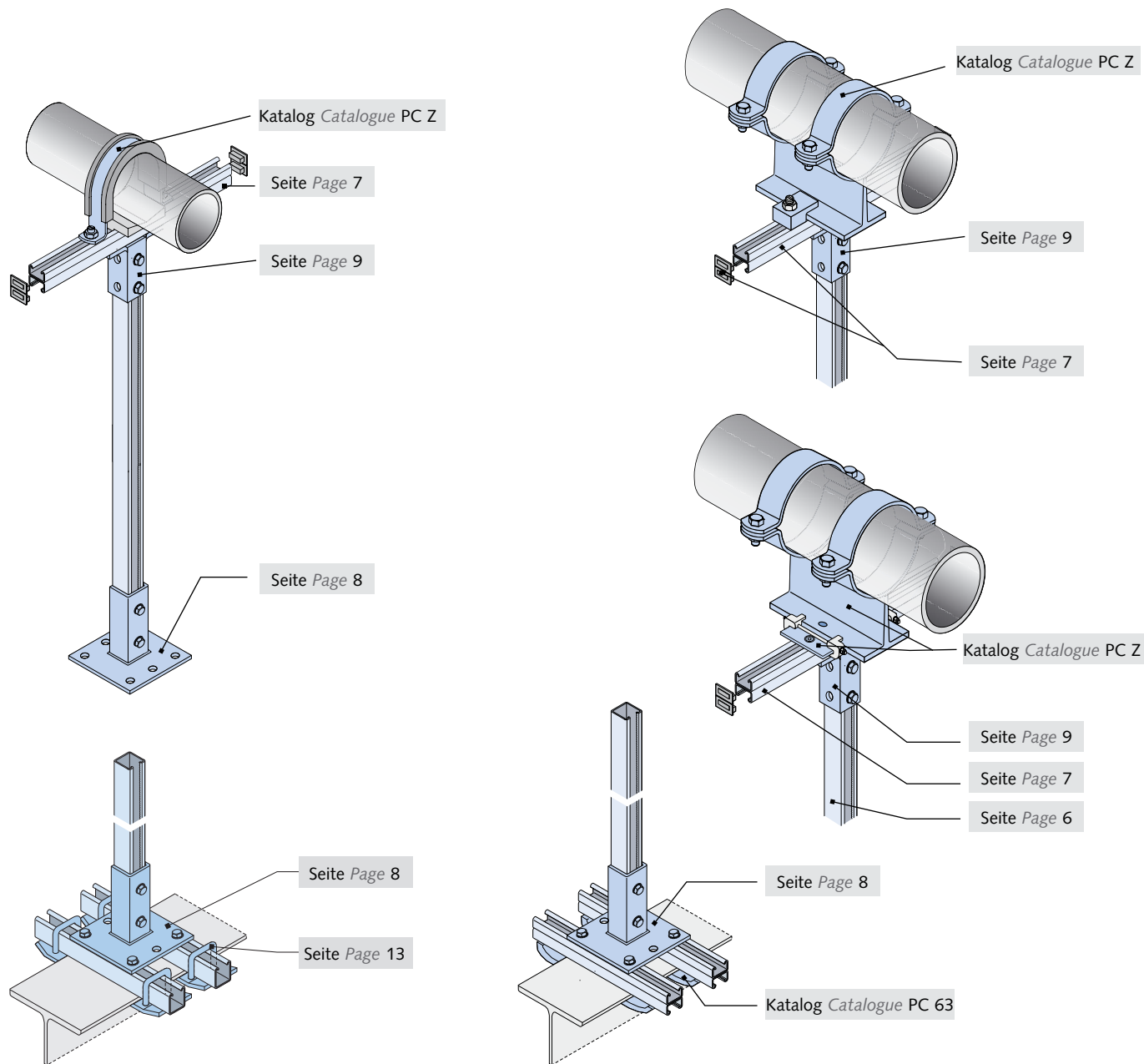
HALFEN POWERCLICK SYSTEM 41 + 22

Powerclick Montagesystem 41 / Powerclick Framing System 41



Bauteilanschlüsse

Structural connections



Werkstoff / Ausführung:

Material / Finish:

fv ①	S235JR feuerverzinkt (stückverzinkt)	S235JR hot-dip galvanized (piece galvan.)
A4	Edelstahl 1.4571/1.4404	Stainless steel grade 1.4571/1.4404

- Verbindungsteil **fv**, Zinkauflage > 50 µm
- ① - Schraubverbindung **fv**, Zinkauflage > 45 µm
- Profil **fv**, Zinkauflage > 50 µm

- Connection part **hdg**, zinc coating > 50 µm
- Bolt connection **hdg**, zinc coating > 45 µm
- Profile **hdg**, zinc coating > 50 µm

Verfügbarkeit / Availability:

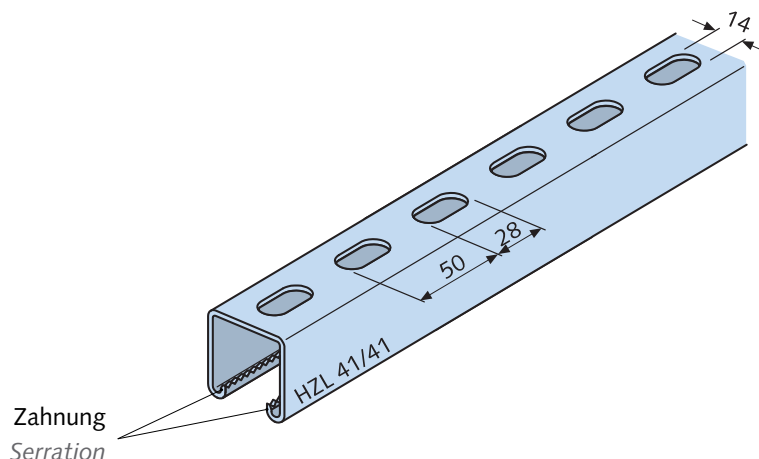
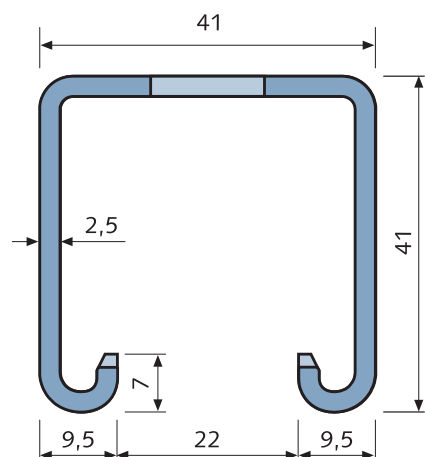
● = Standard/Off-the-shelf components

HALFEN POWERCLICK SYSTEM 41 + 22

Montageschienen Powerclick System 41 / Framing Channels Powerclick System 41



Profil 41/41 Channel 41/41



Nennmaße / Nominal dimensions
[mm]

Das Profil ist durch formschlüssige Lastaufnahme für erhöhte Beanspruchung in Schienenlängsrichtung geeignet.

Due to the serrated profile lips the channel resists high loads in the longitudinal direction.

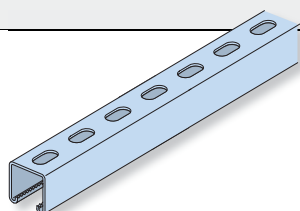
Produktdaten Product Data

Profil Channel

HZL 41/41

Länge: 6000mm; gezahnt, gelocht

Length: 6000mm; serrated, slotted



Materialausführung Material, finish	Bestell-Nr. Part no.	Standard =	Profilgewicht Channel weight	Profilquerschnitt Cross section	Trägheitsmoment Moment of inertia		Widerstandsmoment Section modulus		Max. zul. Punkttragfähigkeit Max. perm. point loading		Biegetragfähigkeit bei Spannweite L Safe load at span L		
					I_y	I_z	W_y	W_z	F	$\leq L$	0,50	1,00	1,50
			G [kg/m]	A [cm ²]	[cm ⁴]	[cm ⁴]	[cm ³]	[cm ³]	F [kN]	$\leq L$ [cm]	F [kN]	F [kN]	F [kN]
fv	00002	●	2,46	2,90	5,87	9,04	2,69	4,38	5,6	30,0	3,3	1,7	1,1
A4	00003	●											

fv = feuerverzinkt hot-dip galvanized A4 = Edelstahl A4 Stainless steel grade A4

Bestellbeispiel:
Order example:

Bezeichnung / Description

HZL 41 / 41 - A4 - 6000

oder
or

Bestell-Nr. / Part no.

0283.010-00003

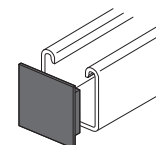
Zubehör Accessories

Profilendstopfen Channel end cap

Werkstoff: PVC, schwarz, temperaturbeständig

-40° - +110°C

Material: plastic (PVC), black, temperature range -40° - +110°C



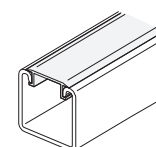
Bezeichnung Description	Bestell-Nr. Part no.	Lieferlänge Length [mm]
HPE 41/41	0318.000-00003	100 ●

Profilabdeckung Channel cover

Werkstoff: PVC hart, weiß, temperaturbeständig

-40° - +110°C

Material: plastic (PVC), white, temperature range -40° - +110°C



Bezeichnung Description	Bestell-Nr. Part no.	Lieferlänge Length [mm]
PA 41 - KS - 3000	0321.000-00002	3000 ●

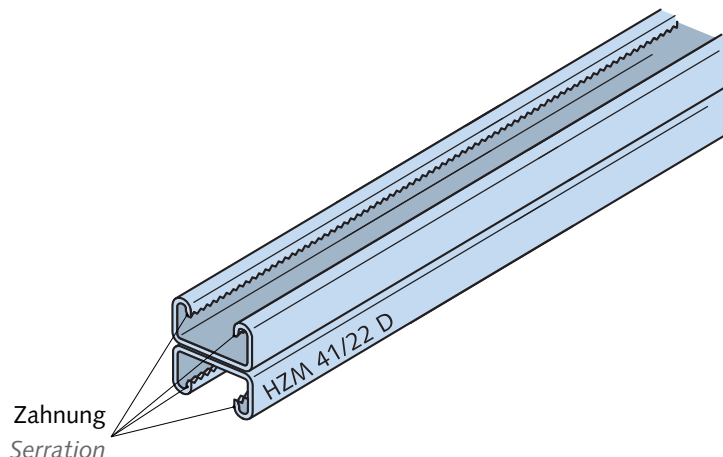
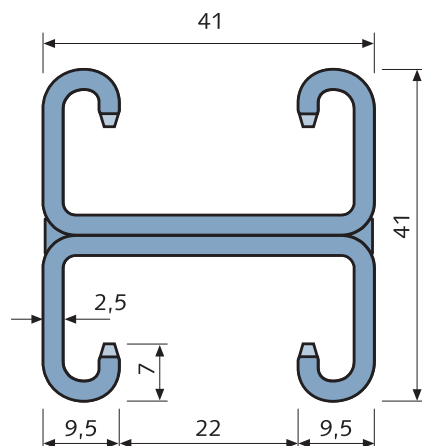
HALFEN POWERCLICK SYSTEM 41 + 22

Montageschienen Powerclick System 41 / Framing Channels Powerclick System 41



Profil 41/22 D

Channel 41/22 D



Nennmaße / Nominal dimensions
[mm]

Das Profil ist durch formschlüssige Lastaufnahme für erhöhte Beanspruchung in Schienenlängsrichtung geeignet.

Due to the serrated profile lips the channel resists loads in the longitudinal direction.

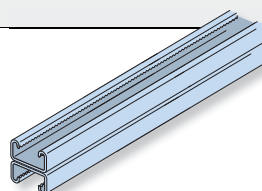
Produktdaten Product Data

Profil Channel

H2M 41/22 D

Länge: 6070mm; gezahnt

Length: 6070mm; serrated



Materialausführung Material, finish	Bestell-Nr. Part no.	Standard =	Profilgewicht Channel weight	Profilquerschnitt Cross section	Trägheitsmoment Moment of inertia		Widerstandsmoment Section modulus		Max. zul. Punktlasttragfähigkeit Max. perm. point loading		Biegetragfähigkeit bei Spannweite L Safe load at span L		
					I_y [cm ⁴]	I_z [cm ⁴]	W_y [cm ³]	W_z [cm ³]	F [kN]	≤ L [cm]	0,50 F [kN]	1,00 F [kN]	1,50 F [kN]
fv	00002	●	3,58	4,66	5,64	11,0	2,68	5,33	5,6	30,0	3,3	1,7	1,1
A4	00003	●											

fv = feuerverzinkt hot-dip galvanized A4 = Edelstahl A4 Stainless steel grade A4

Bestellbeispiel:
Order example:

Bezeichnung / Description

H2M 41/22 D - A4 - 6070

oder
or

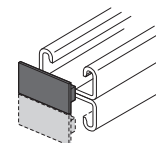
Bestell-Nr. / Part no.

0284.040-00003

Zubehör Accessories

Profilendstopfen Channel end cap

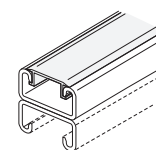
Werkstoff: PVC, schwarz, temperaturbeständig
-40° - +110°C
Material: plastic (PVC), black, temperature range -40° - +110°C



Bezeichnung Description	Bestell-Nr. Part no.	Lieferlänge Length [mm]
HPE 41/22	0318.000-00004	100 ●

Profilabdeckung Channel cover

Werkstoff: PVC hart, weiß, temperaturbeständig
-40° - +110°C
Material: plastic (PVC), white, temperature range -40° - +110°C



Bezeichnung Description	Bestell-Nr. Part no.	Lieferlänge Length [mm]
PA 41 - KS - 3000	0321.000-00002	3000 ●

HALFEN POWERCLICK SYSTEM 41 + 22

Verbindungsteile Powerclick System 41 / Fittings Powerclick System 41

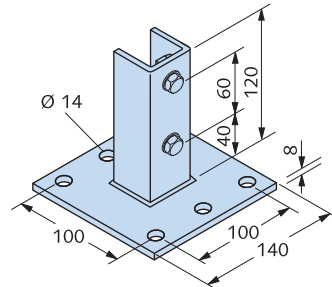


Stützenfuß: Beton- und Montageschienenanschluss

Fixing plate: Connection to concrete and framing channel

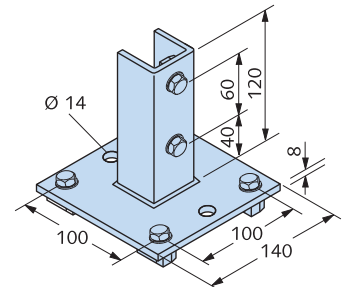
HCS - VT41 - 57/2

2 Schrauben vormontiert
2 bolts pre-assembled



HCS - VT41 - 57/6

6 Schrauben vormontiert
6 bolts pre-assembled



Bezeichnung Description	Bestell-Nr. Part no.		
HCS - VT41 - 57/2 - fv	0300.010-00023	10	
HCS - VT41 - 57/2 - A4	0300.010-00022	10	

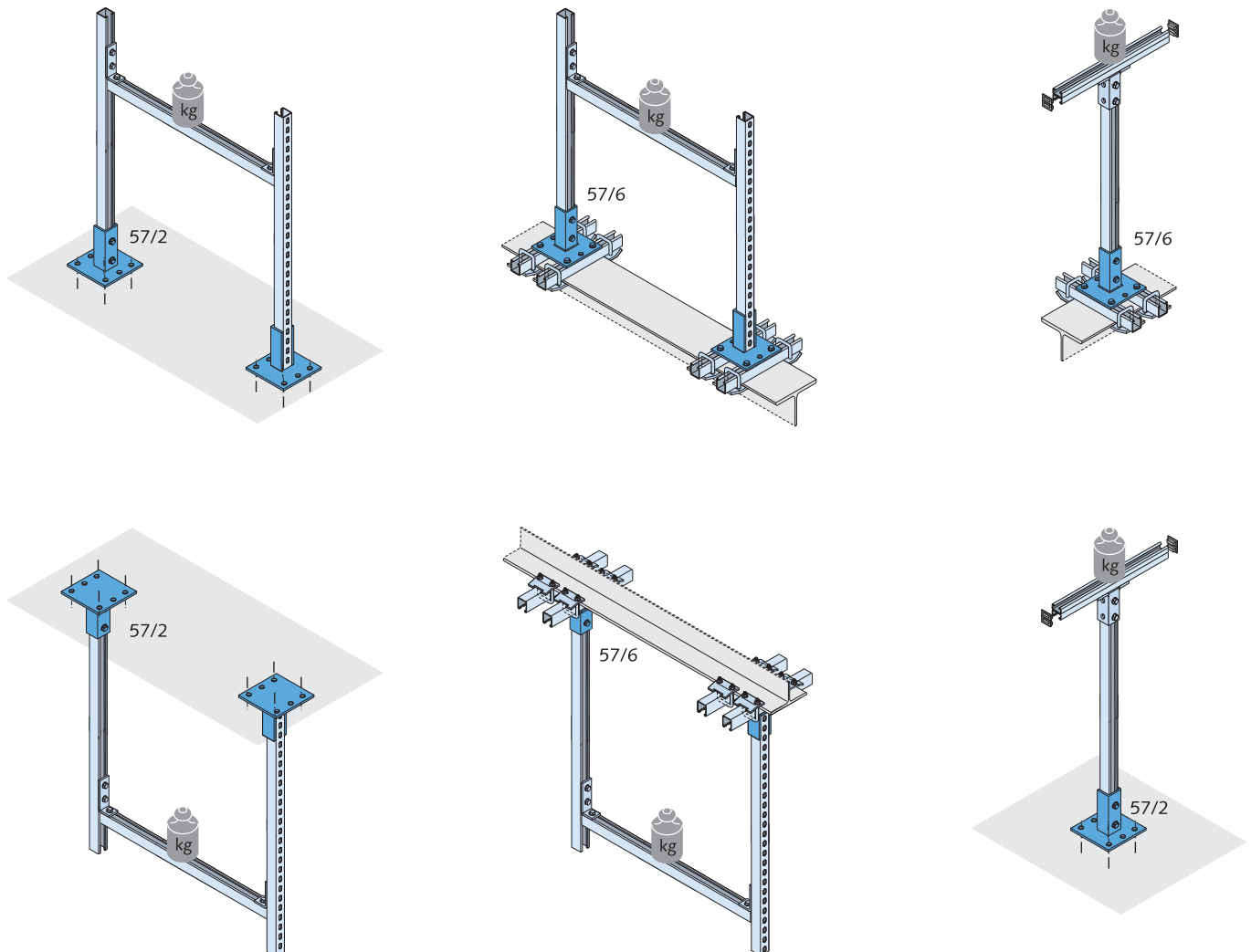
fv = feuerverzinkt *hot-dip galvanized*
A4 = Edelstahl A4 *Stainless steel grade A4*

Bezeichnung Description	Bestell-Nr. Part no.		
HCS - VT41 - 57/6 - fv	0300.010-00026	10	
HCS - VT41 - 57/6 - A4	0300.010-00025	10	

fv = feuerverzinkt *hot-dip galvanized*
A4 = Edelstahl A4 *Stainless steel grade A4*

Anwendungsbeispiele

Application examples



HALFEN POWERCLICK SYSTEM 41 + 22

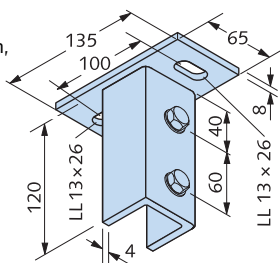
Verbindungsteile Powerclick System 41 / Fittings Powerclick System 41



Betonanschluss *Connection to concrete*

HCS - VT41 - 58/2

Profilfuß,
mit 2 Schrauben,
vormontiert
*Support base
incl. 2 bolts,
pre-assembled*

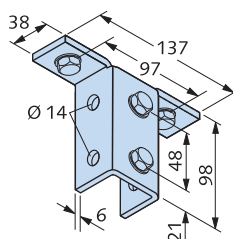


Bezeichnung Description	Bestell-Nr. Part no.		
HCS - VT41 - 58/2 - fv	0300.010-00029	10	●
HCS - VT41 - 58/2 - A4	0300.010-00028	10	●
fv = feuerverzinkt A4 = Edelstahl A4	hot-dip galvanized Stainless steel grade A4		

Träger- und Montageschienenanschluss *Connections to steel beam and framing channel*

HCS - VT41 - 46/4v

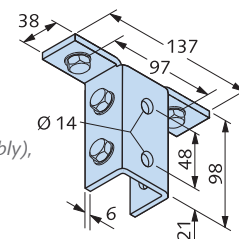
T - Verbinder
mit 4 Schrauben,
vormontiert
*T - Connector
incl. 4 bolts,
pre-assembled*



Bezeichnung Description	Bestell-Nr. Part no.		
HCS - VT41 - 46/4v - fv	0300.010-00041	10	●
HCS - VT41 - 46/4v - A4	0300.010-00040	10	●
fv = feuerverzinkt A4 = Edelstahl A4	hot-dip galvanized Stainless steel grade A4		

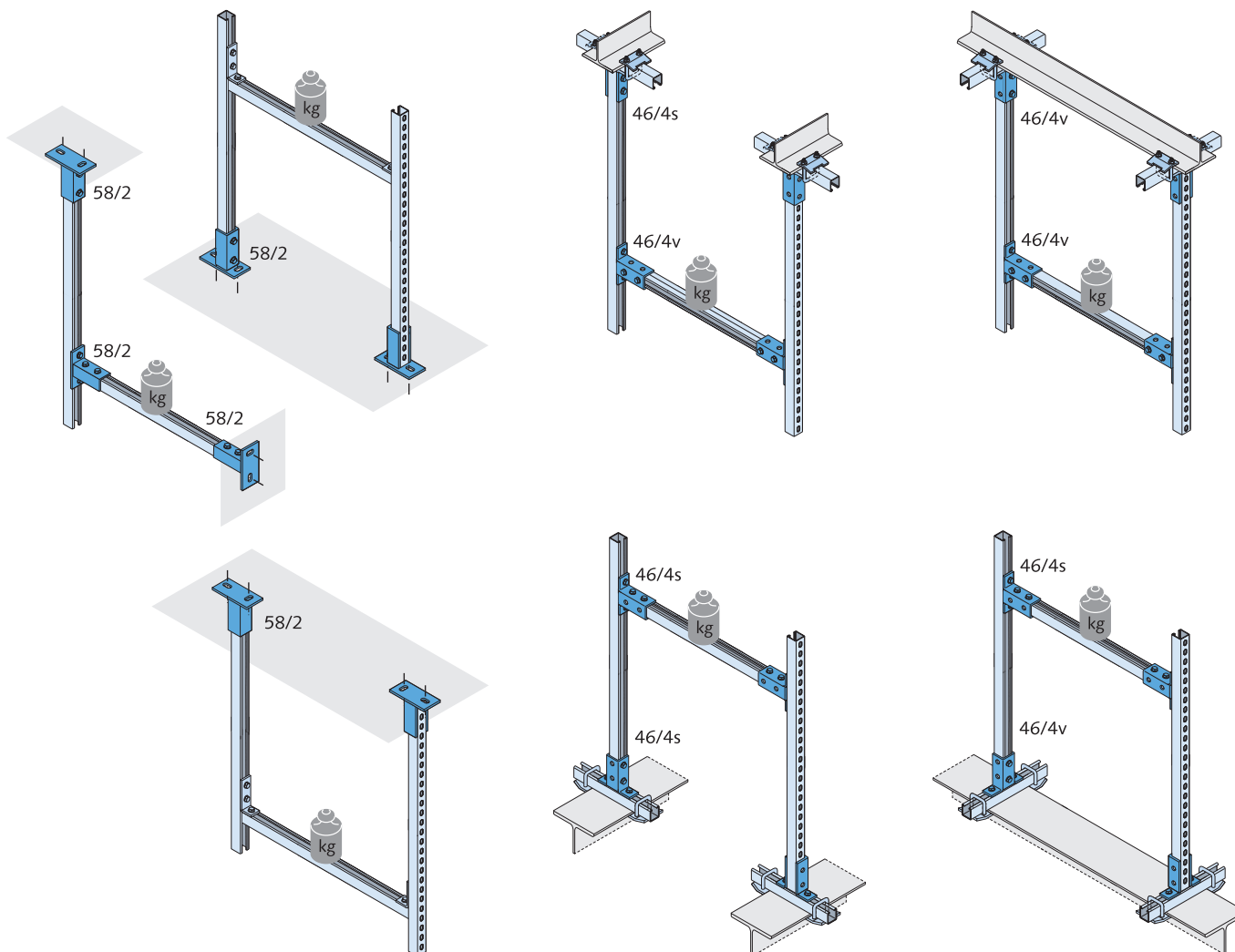
HCS - VT41 - 46/4s

T - Verbinder
mit 4 Schrauben
(davon 2 seitlich),
vormontiert,
*T - Connector
incl. 4 bolts
(2 bolts side assembly),
pre-assembled*



Bezeichnung Description	Bestell-Nr. Part no.		
HCS - VT41 - 46/4s - fv	0300.010-00038	10	●
HCS - VT41 - 46/4s - A4	0300.010-00037	10	●
fv = feuerverzinkt A4 = Edelstahl A4	hot-dip galvanized Stainless steel grade A4		

Anwendungsbeispiele *Application examples*



HALFEN POWERCLICK SYSTEM 41 + 22

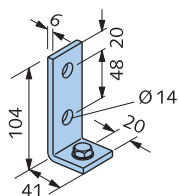
Verbindungsteile Powerclick System 41 / Fittings Powerclick System 41



Montageschienenanschlüsse *Connection to framing channel*

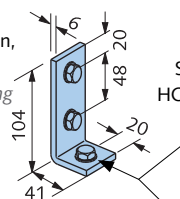
HCS - VT41 - 26/1

90° Winkel
mit 1 Schraube,
vormontiert
90° angle fitting
incl. 1 bolt,
pre-assembled



HCS - VT41 - 26/3

90° Winkel
mit 3 Schrauben,
vormontiert
90° angle fitting
incl. 3 bolts,
pre-assembled

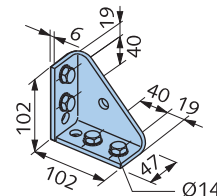


Hinweis: Bei
Montage mit
Steckschlüssel
HCS - VT41 - 84
bevorzugen!

*If using socket wrench
for assembly, prefer
type HCS - VT41 - 84!*

HCS - VT41 - 84/4

Eckverbinder
mit 4 Schrauben,
vormontiert
corner angle bracket
incl. 4 bolts,
pre-assembled

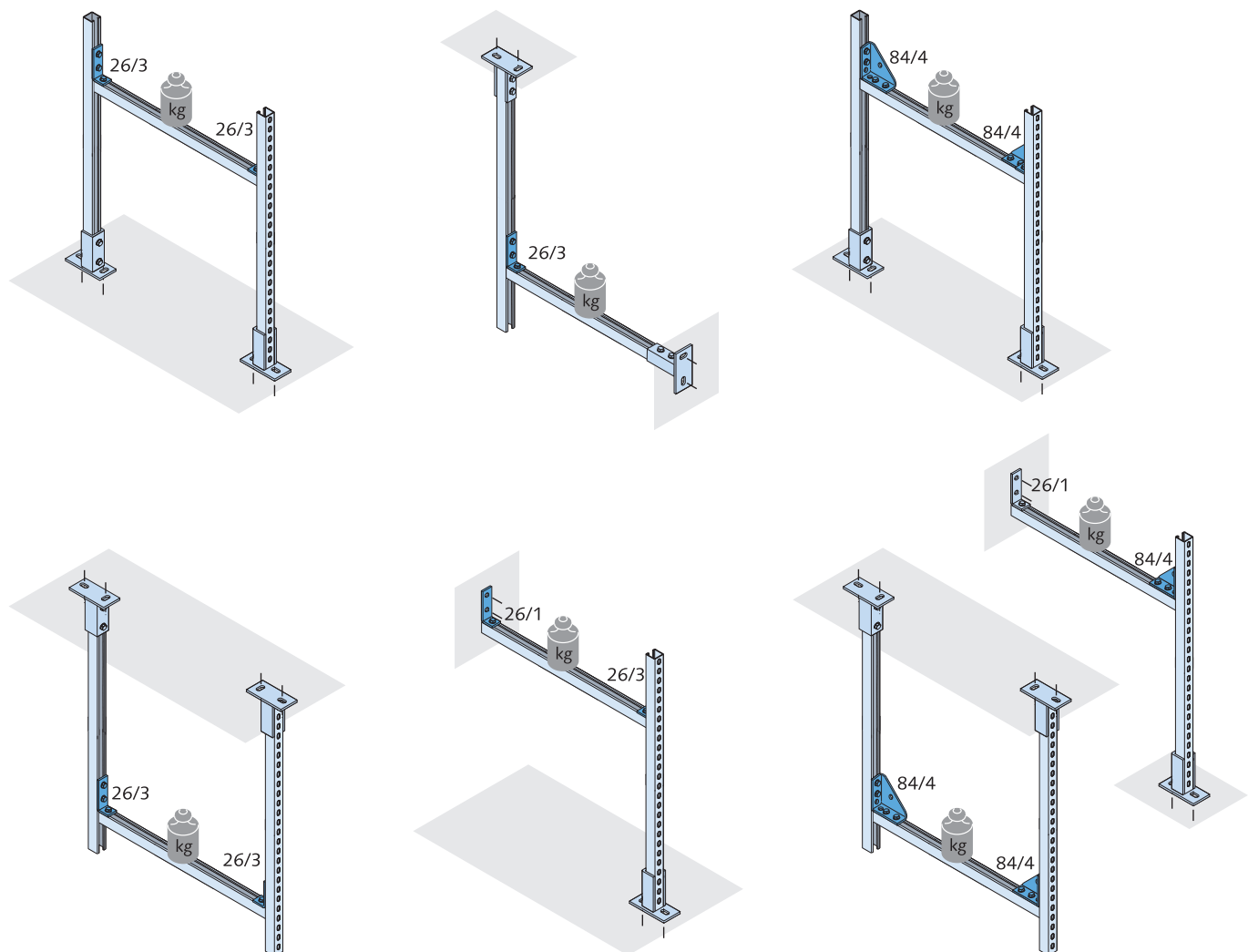


Bezeichnung Description	Bestell-Nr. Part no.		
HCS - VT41 - 26/1 - fv	0300.010-00005	10	
HCS - VT41 - 26/1 - A4	0300.010-00004	10	
fv = feuerverzinkt A4 = Edelstahl A4	<i>hot-dip galvanized</i> <i>Stainless steel grade A4</i>		

Bezeichnung Description	Bestell-Nr. Part no.		
HCS - VT41 - 26/3 - fv	0300.010-00008	10	
HCS - VT41 - 26/3 - A4	0300.010-00007	10	
fv = feuerverzinkt A4 = Edelstahl A4	<i>hot-dip galvanized</i> <i>Stainless steel grade A4</i>		

Bezeichnung Description	Bestell-Nr. Part no.		
HCS - VT41 - 84/4 - fv	0300.010-00035	10	
HCS - VT41 - 84/4 - A4	0300.010-00034	10	
fv = feuerverzinkt A4 = Edelstahl A4	<i>hot-dip galvanized</i> <i>Stainless steel grade A4</i>		

Anwendungsbeispiele *Application examples*



HALFEN POWERCLICK SYSTEM 41 + 22

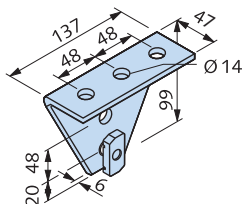
Verbindungsstücke Powerclick System 41 / Fittings Powerclick System 41



Beton- und Montageschienenanschluss *Connection to concrete and framing channel*

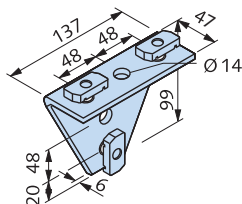
HCS - VT41 - 27/1

Aussteifungswinkel mit 1 Schraube, vormontiert
90° angle fitting incl. 1 channel nut and set screw, pre-assembled



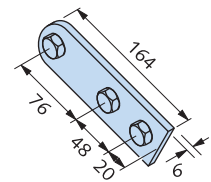
HCS - VT41 - 27/3

Aussteifungswinkel mit 3 Schrauben, vormontiert
90° angle fitting incl. 3 channel nuts and set screws, pre-assembled



HCS - VT41 - 22/3

Montageschienenanschluss: Aussteifungsplatte mit 3 Schrauben, vormontiert
Framing channel connection: Flat plate incl. 3 channel nuts and set screws, pre-assembled

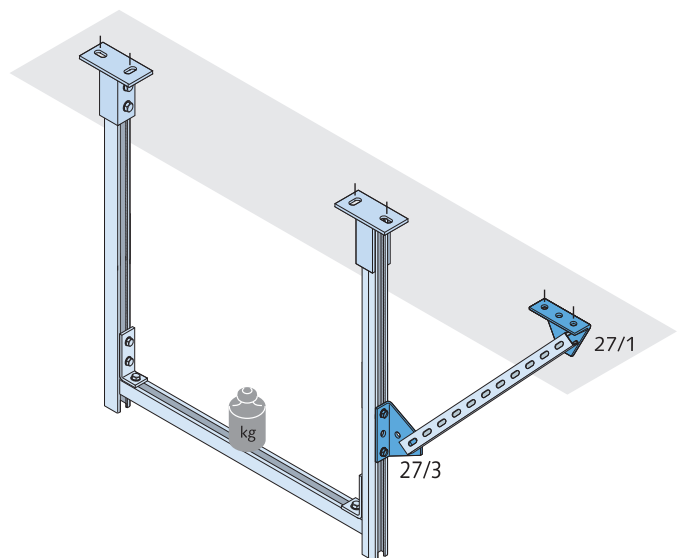
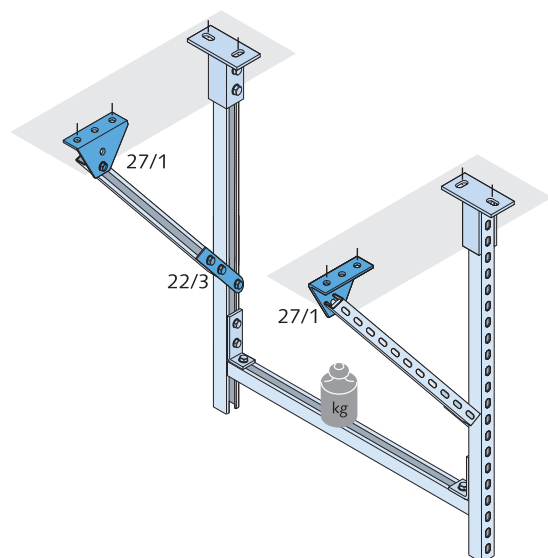


Bezeichnung Description	Bestell-Nr. Part no.		
HCS - VT41 - 27/1 - fv	0300.010-00011	10	
HCS - VT41 - 27/1 - A4	0300.010-00010	10	
fv = feuerverzinkt A4 = Edelstahl A4	<i>hot-dip galvanized</i> <i>Stainless steel grade A4</i>		

Bezeichnung Description	Bestell-Nr. Part no.		
HCS - VT41 - 27/3 - fv	0300.010-00014	10	
HCS - VT41 - 27/3 - A4	0300.010-00013	10	
fv = feuerverzinkt A4 = Edelstahl A4	<i>hot-dip galvanized</i> <i>Stainless steel grade A4</i>		

Bezeichnung Description	Bestell-Nr. Part no.		
HCS - VT41 - 22/3 - fv	0300.010-00002	10	
HCS - VT41 - 22/3 - A4	0300.010-00001	10	
fv = feuerverzinkt A4 = Edelstahl A4	<i>hot-dip galvanized</i> <i>Stainless steel grade A4</i>		

Anwendungsbeispiele *Application Examples*



Anbindung der Aussteifung am Träger *Connection of the bracing to the beam*

Flanscbreite *flange width* ≥ 140 mm
Flanshdicke *flange thickness* 10 – 22 mm

Trägerklemme HVT41 - 85
(→ S. 13)
alternativ
beam clamp HVT41 - 85
(→ p. 13)

HCS-VT41-27/3

Flanscbreite *flange width* 75 – 300 mm
Flanshdicke *flange thickness* 5 – 40 mm

alternativ
Trägerklemme HCS - TK - fv
(→ S. 13 oder Katalog PC 63)
alternativ
beam clamp HCS - TK - fv
(→ p. 13 or catalogue PC 63-E)

HCS-VT41-27/3

HALFEN POWERCLICK SYSTEM 41 + 22

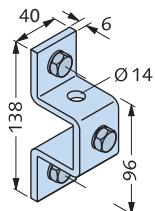
Verbindungsstücke Powerclick System 41 / Fittings Powerclick System 41



Montageschienenanschluss *Connection to framing channel*

HCS - VT41 - 47/3

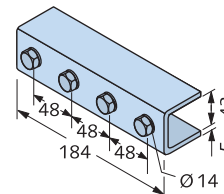
U-Bügel mit
3 Schrauben,
vormontiert
*Channel U-fitting
incl. 3 channel nuts,
pre-assembled*



Montageschienenstoß *Connection to framing channel*

HCS - VT41 - 77/4

Profilverbinder mit
4 Schrauben,
vormontiert
*Channel coupler
incl. 4 channel nuts,
pre-assembled*



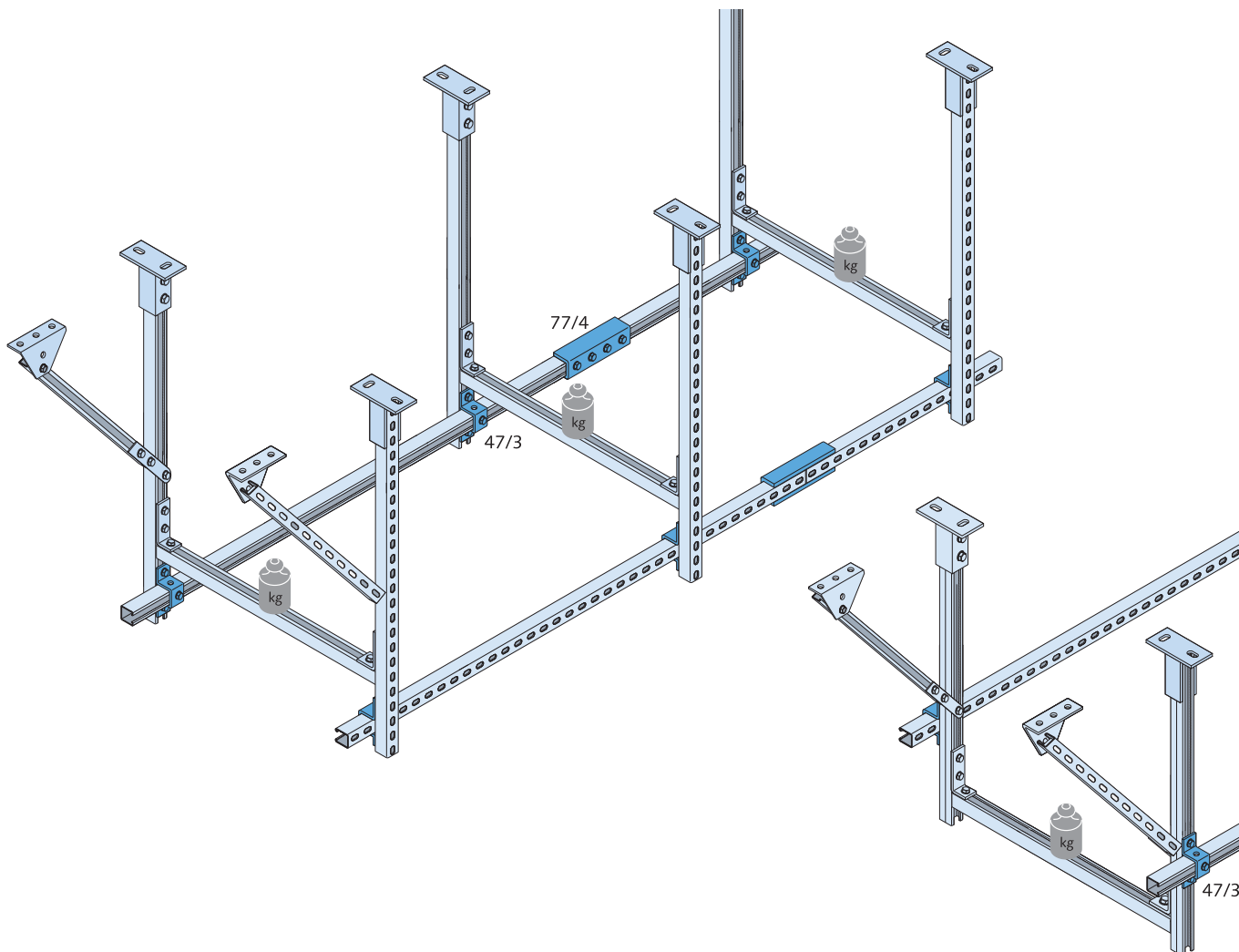
Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>		
HCS - VT41 - 47/3 - fv	0300.010-00020	10	
HCS - VT41 - 47/3 - A4	0300.010-00019	10	

fv = feuerverzinkt *hot-dip galvanized*
A4 = Edelstahl A4 *Stainless steel grade A4*

Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>		
HCS - VT41 - 77/4 - fv	0300.010-00032	10	
HCS - VT41 - 77/4 - A4	0300.010-00031	10	

fv = feuerverzinkt *hot-dip galvanized*
A4 = Edelstahl A4 *Stainless steel grade A4*

Anwendungsbeispiele *Application examples*



HALFEN POWERCLICK SYSTEM 41 + 22

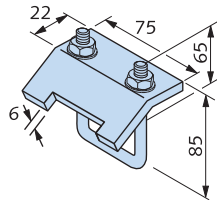
Verbindungsteile Powerclick System 41 / Fittings Powerclick System 41



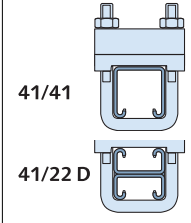
Trägerklemme: Trägeranschluss *Beam clamp: Connection to steel beam*

HVT41 - 85

Trägerklemme
Beam clamp



passend zu Profilen:
Fits channels:

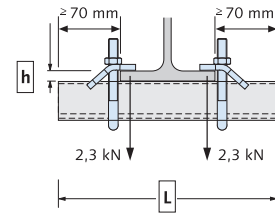


Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>		
HVT41 - 85 - fv	0312.030-00042	50	
HVT41 - 85 - A4	0312.030-00085	50	

fv = feuerverzinkt *hot-dip galvanized*
A4 = Edelstahl A4 *Stainless steel grade A4*

Montagehinweis *Assembly note*

Trägerklemme, Einsatz paarweise
Tragfähigkeit pro Klemme: 2,3 kN
Beam clamp used in pairs
Bearing capacity per clamp: 2.3 kN:

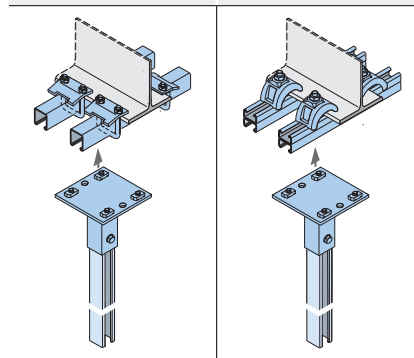
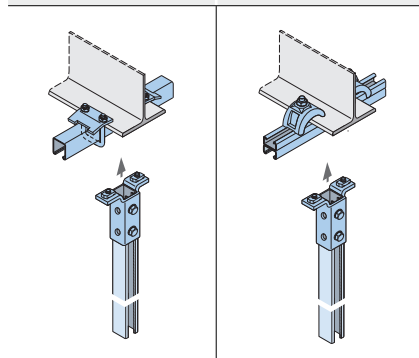


$h = 10 - 22 \text{ mm}$ Flanschdicke
10 - 22 mm Flange thickness
 $L \geq \text{Trägerflanschbreite} + (2 \times 70 \text{ mm})$
Beam flange width + (2 × 70 mm)

Auswahl Trägeranschlüsse *Selection of beam connections*

Leitung ohne Dehnung <i>Pipe without expansion</i>	
	Träger - Flanschbreite [mm] <i>Beam - flange width [mm]</i>
≥ 140	alternat. 75 - 300
	Flanschdicke [mm] <i>Flange thickness [mm]</i>
10 - 22	5 - 40

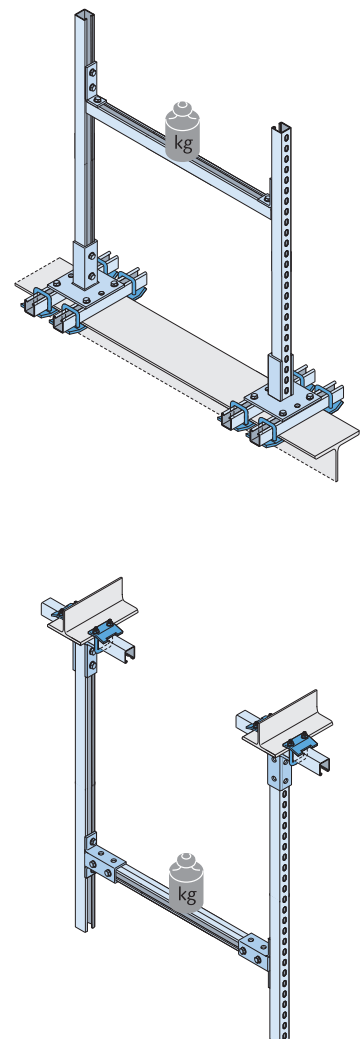
Leitung mit Dehnung <i>Pipe with expansion</i>	
	Träger - Flanschbreite [mm] <i>Beam - flange width [mm]</i>
≥ 140	alternat. 75 - 300
	Flanschdicke [mm] <i>Flange thickness [mm]</i>
10 - 22	5 - 40



Bestellen Sie: <i>To order:</i>	Bestellen Sie: <i>To order:</i>
HVT41 - 85 - fv oder <i>or</i> HVT41 - 85 - A4	HCS - TK - fv Best.-Nr. / <i>Part no.</i> 0308.030-00001 und <i>and</i> HZS 41/41 - fv - M12×100 Best.-Nr. / <i>Part no.</i> 0323.010-00013 und <i>and</i> MU M12 - fv Best.-Nr. / <i>Part no.</i> 0360.050-00006
Best.-Nr. siehe oben <i>Part no. see above</i>	

Bestellen Sie: <i>To order:</i>	Bestellen Sie: <i>To order:</i>
HVT41 - 85 - fv oder <i>or</i> HVT41 - 85 - A4	HCS - TK - fv Best.-Nr. / <i>Part no.</i> 0308.030-00001 und <i>and</i> HZS 41/41 - fv - M12×100 Best.-Nr. / <i>Part no.</i> 0323.010-00013 und <i>and</i> MU M12 - fv Best.-Nr. / <i>Part no.</i> 0360.050-00006
Best.-Nr. siehe oben <i>Part no. see above</i>	

Anwendungen *Applications*





Zul. Betriebslasten F_z max kg für Rahmenkonstruktionen Rated loads F_z max per kg for framework

		Zulässige Betriebslast F_z max [kN] bei Stablänge L [mm] Rated load F_z max [kN] for channel length L [mm]							Profile Channel HZN 41/41 HZM 41/22 D	
		L = 400 F_z [kN]	L = 600 F_z [kN]	L = 800 F_z [kN]	L = 1000 F_z [kN]	L = 1200 F_z [kN]	L = 1400 F_z [kN]	L = 1600 F_z [kN]	Beton Concrete	Träger Beam
		4,29	2,88	2,17	1,74	1,45	1,24	1,09		
		2,60	2,60	1,98	1,58	1,32	1,13	0,99		
		3,16	2,14	1,62	1,30	1,08	0,90	0,69		
		1,30	1,30	1,30	1,18	0,99	0,85	0,69		
		2,17	1,45	1,09	0,87	0,72	0,62	0,50		
		0,87	0,87	0,87	0,79	0,66	0,57	0,50		
		1,79	1,20	0,90	0,72	0,60	0,49	0,38		
		0,65	0,65	0,65	0,65	0,55	0,47	0,38		
		1,45	0,97	0,72	0,58	0,48	0,41	0,32		
		0,52	0,52	0,52	0,52	0,44	0,38	0,32		
Erläuterungen Explanations 		= Einzelkraft pro Lasteinleitung (z.B. Leitungen ohne Dehnung) = Point load without lateral forces (e.g. pipes without expansion)							Aussteifungen sind bei Nichteinhaltung der statischen Vorgaben, z.B. H > 800 mm, notwendig. Bracings are required when exceeding the static limits, e.g. when H > 800 mm.	
		= aus Überlagerung / Superposition F_x oder / or $F_y = 0,3 \times F_z$ max (z.B. Leitungen mit Dehnung oder Windlasten) (Point loads with lateral forces)							Die Befestigung mittels Dübel und Verbundanker muss bauseits nachgewiesen werden. Fixings using site drilled bolts and adhesion anchors must be site tested.	

HALFEN POWERCLICK SYSTEM 41 + 22

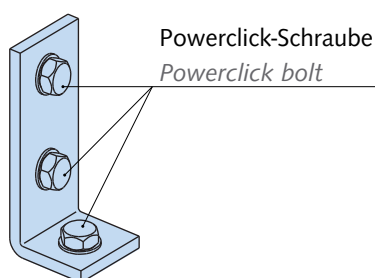
Statik Powerclick System 41 / Load information for Powerclick System 41



Zul. Betriebslasten $F_z \max$ für freistehende Unterstüzung *Rated loads $F_z \max$ per for freestanding supports*

		Zulässige Betriebslast $F_z \max$ [kN] bei Stablänge H [mm] <i>Rated load $F_z \max$ [kN] for channel length H [mm]</i>						Profile Channel HZL 41/41 HZM 41/22 D	
		H = 600 F_z [kN]	H = 700 F_z [kN]	H = 800 F_z [kN]	H = 900 F_z [kN]	H = 1000 F_z [kN]	H = 1200 F_z [kN]	Anbindung an Baukörper <i>Fixing Conditions</i>	
		einachsige außermittige Lasteinleitung ± 50 mm <i>Loads ± 50 mm uniaxial eccentricity</i>						Beton Concrete Träger Beam	
		6,28	5,39	4,71	4,19	3,77	3,14		
		1,87	1,62	1,30	1,04	0,85	0,60		
Erläuterungen <i>Explanations</i>		= Einzelkraft pro Lasteinleitung (z.B. Leitungen ohne Dehnung) = Point load without lateral forces (e.g. pipes without expansion)						Aussteifungen sind bei Nichteinhaltung der statischen Vorgaben, z.B. H > 800 mm, notwendig. Bracings are required when exceeding the static limits, e.g. when H > 800 mm.	
		= aus Überlagerung / Superposition F_x oder / or $F_y = 0,3 \times F_z \max$ (z.B. Leitungen mit Dehnung oder Windlasten) (Point loads with lateral forces)						Die Befestigung mittels Dübel und Verbundanker muss bauseits nachgewiesen werden. Fixings using site drilled bolts and adhesion anchors must be site testing.	

Anzugsdrehmomente *Tightening torque*



Stahl <i>Steel</i>	60 Nm
Edelstahl A4 <i>Stainless steel grade A4</i>	55 Nm



Max. Schnittgrößen bei Gebrauchslast für Verbindungsteile
Max. stress resultant for the service load in the connected element

Typ / Type		Empfohlene max. Werte Recommended max. loads		
		± N [kN]	± Q [kN]	± M [kNcm]
HCS - VT41 - 57 		geklemmt		
		2,50	0,75	40,0
		gedübelt		
		± 3,00 ± 5,00	± 3,00 ± 5,00	± 20,00 ± 5,50
		geklemmt		
		2,50	0,75	40,0
	gedübelt			
	± 3,00 ± 5,00	± 3,00 ± 5,00	± 20,00 ± 5,50	
	7,5	—	—	
HCS - VT41 - 46 		3,0	0,5	—
		3,0	0,5	—
		4,6	—	—

Tragfähigkeit ist durch Anbindung mit Klemme HVT 41-85 an Stahlträger begrenzt.
The load capacity is limited by connection to steel beam using clamp type HVT 41-85.

HCS - VT41 - 58 		gedübelt/doweled		
		3,5	3,5	—
		gedübelt/doweled		
	3,5	1,0	—	
	gedübelt/doweled			
	7,5	—	—	

Typ / Type		Empfohlene max. Werte Recommended max. loads		
		± N [kN]	± Q [kN]	± M [kNcm]
HCS - VT41 - 26 		5,0	1,1	—
		5,0	1,1	—
HCS - VT41 - 84 		7,5	2,25	—
		7,5	2,25	—
HCS - VT41 - 27 		5,0	—	—
HCS - VT41 - 22 		5,0	—	—
HCS - VT41 - 47 		5,0	—	—
HCS - VT41 - 77 		7,5	—	—

Die Befestigung mittels Dübel und Verbundanker muss bauseits nachgewiesen werden.
Fixings using site drilled bolts and adhesion anchors must be site tested.

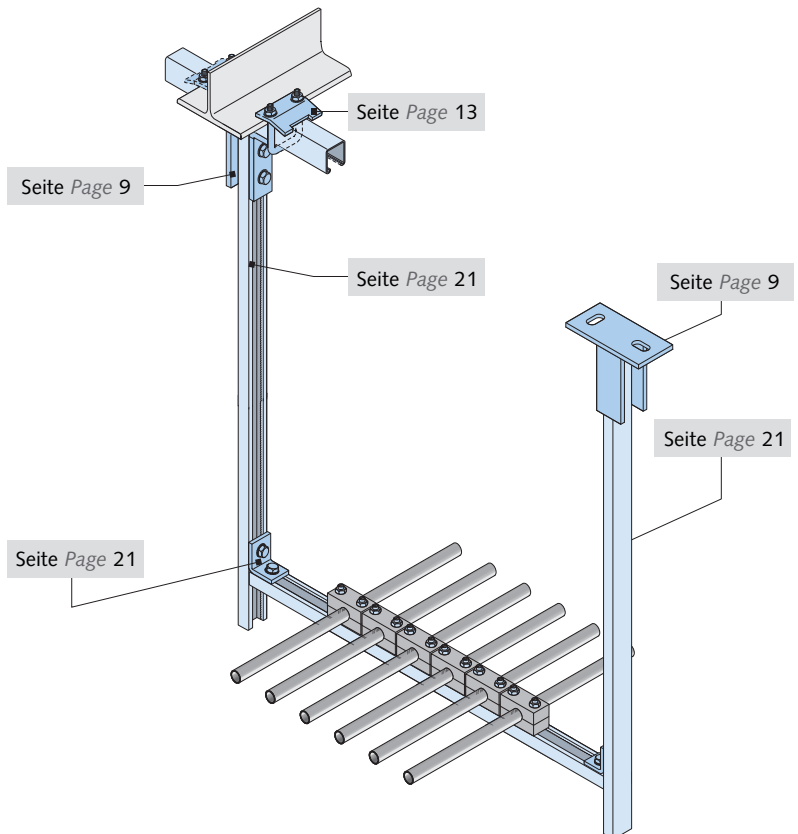
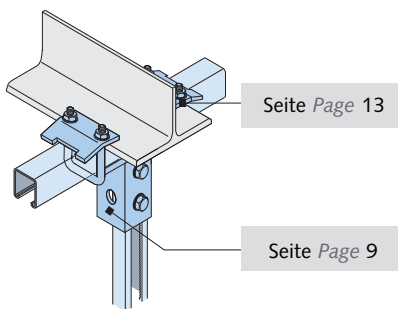


Powerclick System 22 - Optimal für Rohrdurchmesser bis DN 25

Powerclick system 22 - optimal solution for pipes with nominal diameter up to 25 mm



Bauteilanschlüsse *Structural connections*

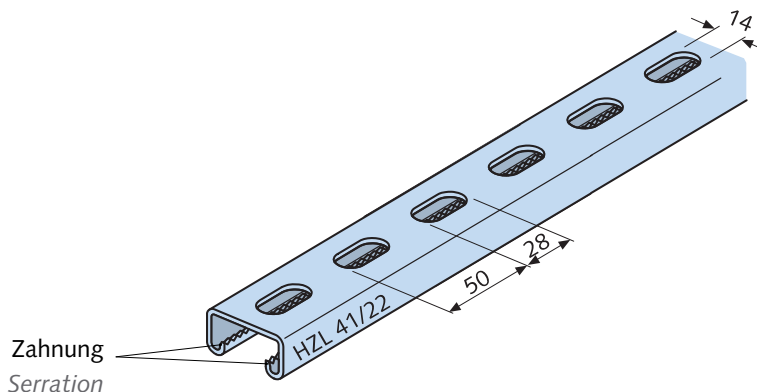
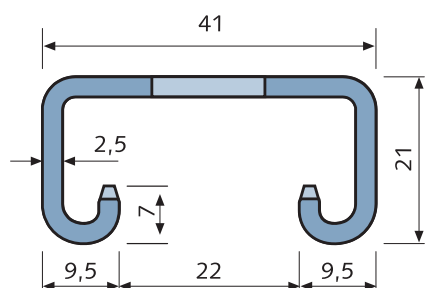


HALFEN POWERCLICK SYSTEM 41 + 22

Montageschienen Powerclick System 22 / Framing Channels Powerclick System 22



Profil 41/22 Channel 41/22



Nennmaße / Nominal dimensions [mm]

Das Profil ist durch formschlüssige Lastaufnahme für erhöhte Beanspruchung in Schienenlängsrichtung geeignet.

Due to the serrated profile lips the channel resists high loads in the longitudinal direction.

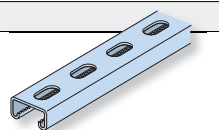
Produktdaten Product data

Profil Channel

HZL 41/22

Länge: 6000mm; gezahnt, gelocht

Length: 6000mm; serrated, slotted



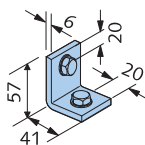
Materialausführung	Bestell-Nr.	Standard	Profilgewicht	Profilquerschnitt	Trägheitsmoment	Widerstandsmoment	Max. zul. Punkttragfähigkeit	Biegetragfähigkeit bei Spannweite L			
Material, finish	Part no.		Channel weight	Cross section	Moment of inertia	Section modulus	Max. perm. point loading	Safe load at span L			
	0283.020-	●	G [kg/m]	A [cm ²]	I _y [cm ⁴] I _z [cm ⁴]	W _y [cm ³] W _z [cm ³]	F [kN]	≤ L [cm]	0,50 F [kN]	1,00 F [kN]	1,50 F [kN]
fv	00002	●	1,57	1,87	0,97	5,15	5,6	9,0	1,1	0,5	0,2
A4	00003	●									

fv = feuerverzinkt hot-dip galvanized A4 = Edelstahl A4 Stainless steel grade A4

Bestellbeispiel: Order example:	Bezeichnung / Description	oder or	Bestell-Nr. / Part no.
	HZL 41/22 - A4 - 6000		0283.020-00003

Montageschienenanschlüsse Connection to framing channel

90° Winkel mit 2 Schrauben vormontiert
90° angle fitting incl. 2 bolts, pre-assembled



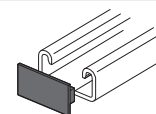
Bezeichnung Description	Bestell-Nr. Part no.	[Stck / Pcs.]
HCS - VT41 - 68/2 - fv	0300.000-00043	1 ●
HCS - VT41 - 68/2 - A4	0300.000-00044	1 ●

fv = feuerverzinkt hot-dip galvanized
A4 = Edelstahl A4 Stainless steel grade A4

Zubehör Accessories

Profilendstopfen Channel end cap

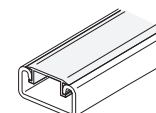
Werkstoff: PVC, schwarz, temperaturbeständig
-40° - +110°C
Material: plastic (PVC), black, temperature range -40° - +110°C



Bezeichnung Description	Bestell-Nr. Part no.	[Stck / Pcs.]
HPE 41/22	0318.000-00004	100 ●

Profilabdeckung Channel cover

Werkstoff: PVC hart, weiß, temperaturbeständig
-40° - +110°C
Material: plastic (PVC), white, temperature range -40° - +110°C



Bezeichnung Description	Bestell-Nr. Part no.	Lieferlänge Length [mm]
PA 41 - KS - 3000	0321.000-00002	3000 ●

HALFEN POWERCLICK SYSTEM 41 + 22

Das Powerclick Service-Paket / *The Powerclick System Service*

Internet CAD Bibliotheken *Internet CAD libraries*

Die CADENAS Bauteilbibliotheken mit dem PARTcommunity 3D CAD Katalog: nach einer kurzen Registrierung - kostenlos!

Sicher ist auch Ihr benötigtes Format vorhanden. Die Bibliotheken werden kontinuierlich ergänzt.

Bitte besuchen Sie uns auf:

→ halfen.partcommunity.com.

The CADENAS CAD libraries and PARTcommunity 3D Catalogues: Complimentary—after registration! If the format you need isn't listed then find it at

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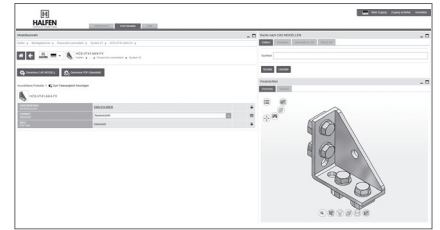
The library is continually being updated.

Verfügbare 2D-Formate / *Available 2D file formats:*

Allplan 2008, Catia V4, DWG ≥ AutoCad® 2004, DXF AutoCAD® ≥ 2004, Microstation ≥ V8 ...

Verfügbare 3D-Formate / *Available 3D file formats:*

Allplan 2008, AutoCAD® ≥ 2014, Autodesk® Revit ≥ 2012, Aveva PDMS/Marine, Catia ≥ V5, IGES, STEP, IFC 2x3, Inventor ≥ 2011, Microstation 3D, Solid Edge ≥ ST2, Solid Works ≥ 2006, Sketchup...



Screenshot: Modellauswahl mit interaktiver 3D-Darstellung

Screenshot: Product selection with interactive 3D model



Screenshot: PDF Datenblätter zum Download

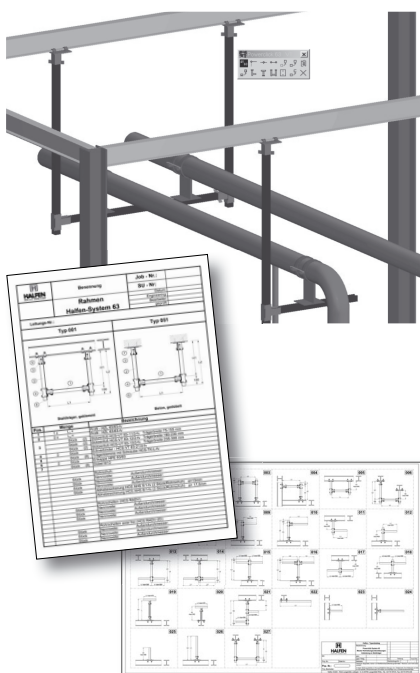
Screenshot: Downloadable PDF Datasheets



2D CAD DWG und DXF Formate finden Sie auch im Download unter → www.halfen.com

2D DWG and DXF file formats are also available at → www.halfen.com

Auf Anfrage/*on request*

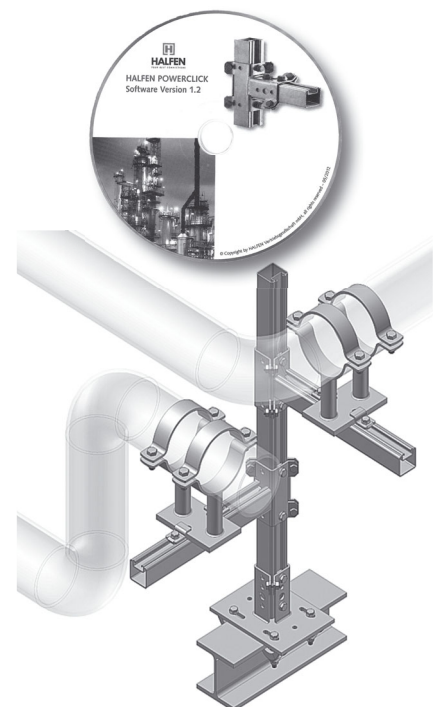


Power - CAD

- Powerclick System 41 - Bibliotheken für PDS, SmartPlant 3D, PDMS, (E3D in Vorbereitung) und SUCad+
- Rahmen, Stützen und Kragarme sind als Komplettkonstruktionen abrufbar

Power - CAD

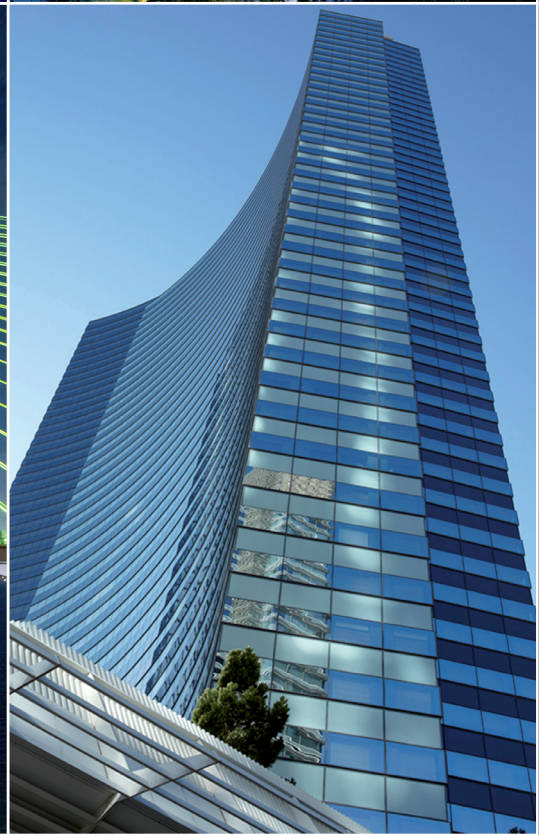
- Powerclick System 41 - libraries for PDS, SmartPlant 3D, PDMS, (E3D in preparation) and SUCad+
- Frames, supports and cantilever arms are available as complete structural elements
- Typicals – Zeichnungsableitung inklusive Stücklistenstellung
- Typicals—editing of drawings including part-lists





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