Section B

INCOFIX

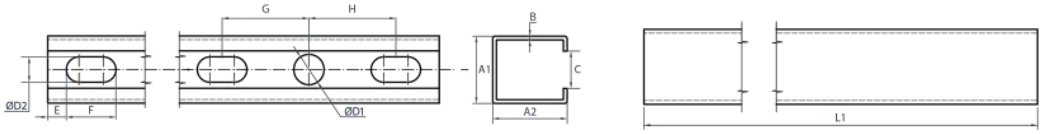
Contents

CHANNELS

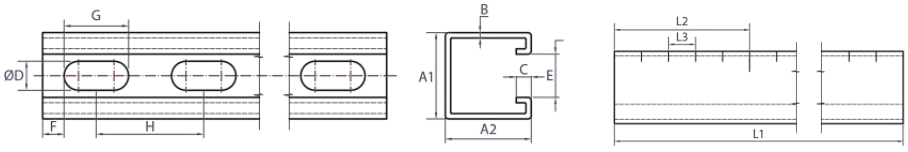
INCOFIX STRUT CHANNEL

Standard range of pre-galvanized channels for medium-duty fluid piping.
Great flexibility in assembly: suspended, directly fixed to walls, fixed to other perforated channels, etc.
Compatible with the clamp range from the catalogue, suitable for both piping and electrical needs.
Ideal for specialized installers in this field.
Available in a variety of materials:
Galvanized: For supporting electrical installations or simple indoor/outdoor fluid installations with moderate corrosion resistance.
Stainless steel: For outdoor use or in humid or pollutant (chlorine-free) industrial environments.
Yellow plastic-coated: Provides high insulation and excellent resistance to corrosive environments. Commonly used for gas installations.
PVC: For light loads. Easy to install (can be cut without tools) with good resistance to chemical agents in general.

Part No.	A1	A2	B	C	ØD1	ØD2	E	F	G	H	L1
IFCH271812	27	18	1,25	15,0	10,5	8,5	8,0	18,5	30	30	2000



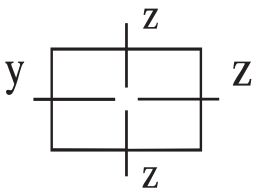
Installation Data												
Code	A1	A2	B	C	ØD	E	F	G	H	L1	L2	L3
IFCH412115	41	21	1,5	7	14	22,3	10	30	50	3000	100	20
IFCH412120	41	21	2,0	7	14	22,3	10	30	50	3000	100	20
IFCH412125	41	21	2,5	7	14	22,3	10	30	50	3000	100	20
IFCH414115	41	41	1,5	7	14	22,3	10	30	50	3000	100	20
IFCH414120	41	41	2,0	7	14	22,3	10	30	50	3000	100	20
IFCH414125	41	41	2,5	7	14	22,3	10	30	50	3000	100	20
IFCH416225	41	62	2,5	7	14	22,3	10	30	50	3000	100	20
IFCH2M41412	41	41	2,0	7	14	22,3	10	30	50	3000	100	20
IFCH2M41622	41	62	2,5	7	14	22,3	10	30	50	3000	100	20



GEOMETRIC DATA

B

Part No.	Section	Thickness (mm)	Weight (Kg/m)	Area	Moment Inertia (Iy)	Moment Inertia (Iz)	Moment Resistance (Wy)	Moment Resistance (Wz)
IFCH271812	mm x mm	mm	Kg/m	cm2	cm4	cm4	cm3	cm3
IFCH271812	27 x 18	1.2	0.66	0.84	0.37	0.97	0.34	0.71
IFCH412115	41 x 21	1.5	1.21	1.41	0.89	3.58	0.70	1.75
IFCH412120	41 x 21	2	1.55	1.99	0.95	4.44	0.75	2.17
IFCH412125	41 x 21	2.5	1.71	2.28	1.32	5.54	1.03	2.70
IFCH414115	41 x 41	1.5	1.65	2.42	4.88	5.99	2.05	2.92
IFCH414120	41 x 41	2	2.09	2.65	5.84	7.62	2.46	3.72
IFCH414125	41 x 41	2.5	2.53	3.28	7.08	9.25	2.98	4.51
IFCH416225	41 x 62	2.5	3.38	4.17	18.74	12.85	5.70	6.27
IFCH2M414125	41 x 82	2.5	5.08	6.23	34.88	17.91	8.51	8.73
IFCH2M416225	41 x 124	2.5	6.77	8.33	10.81	25.70	17.44	12.54

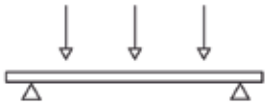


INCOFIX CHANNEL LOADING TABLE

Calculation Method
Safe working loads are based on perforated (slotted) rails. For non-perforated rails, loads may be increased by up to 20%.
Calculations consider a maximum deflection of L/200 and a bending stress of 160 N/mm².

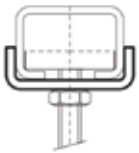
1 N = 0.102 kg | 1 kg = 9.8 N

Fixing to Walls or Ceilings
Anchoring strength is not included in these values.
Installers must ensure that bolts and wall plugs are suitable for the rail's maximum load.



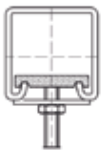
Loading Method
When loads are suspended below the rail, do not exceed the slide nut's rated capacity.
Use U-shaped washers to improve installation rigidity.

Reading the Table
Values apply only to the fixing rail and are based on static loads with free bending support.



A hyphen (-) indicates the length cannot be safely loaded.

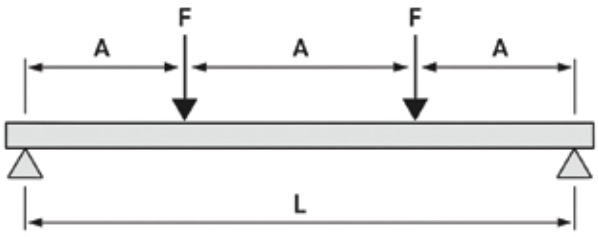
Special Conditions
For special cases or unclear situations, please contact our technical department for advice.



SINGLE POINT LOAD

B

L (mm)	IFCH271812	IFCH412115	IFCH412120	IFCH412125	IFCH414115	IFCH414120	IFCH414125	IFCH416225	IFCH2M414125	IFCH2M416225
250	758	1,848	2,033	2,381	5,427	6,556	7,611	17,730	22,804	32,686
300	631	1,540	1,694	1,984	4,523	5,463	6,342	12,275	19,004	27,238
350	541	1,320	1,452	1,701	3,877	4,683	5,436	10,522	16,289	23,347
400	474	1,155	1,271	1,488	3,392	4,098	4,757	9,206	14,253	20,429
450	421	1,027	1,130	1,323	3,015	3,642	4,228	8,183	12,669	18,159
500	379	924	1,016	1,190	2,714	3,278	3,805	7,365	11,402	16,343
600	316	770	847	992	2,261	2,732	3,171	6,138	9,502	13,618
700	266	660	726	850	1,938	2,341	2,718	5,261	8,144	11,674
800	204	557	613	719	1,696	2,049	2,378	4,603	7,126	10,214
900	161	440	484	568	1,508	1,821	2,114	4,092	6,335	9,079
1000	130	356	392	460	1,357	1,639	1,903	3,683	5,701	8,172
1200	91	247	272	320	1,131	1,366	1,586	3,069	4,751	6,810
1400	67	182	200	235	969	1,171	1,359	2,630	4,072	5,837
1600	51	139	153	180	794	952	1,114	2,302	3,563	5,107
1800	40	182	200	142	628	752	881	2,046	3,167	4,540
2000	33	110	121	115	508	609	713	1,841	2,851	3,940
2250	26	89	98	91	402	481	564	1,624	2,534	3,340
2500	21	70	77	74	325	390	456	1,315	2,280	2,540
2750	17	57	63	61	269	322	377	1,087	2,073	2,340
3000	14	47	52	51	226	271	317	913	1,864	2,140



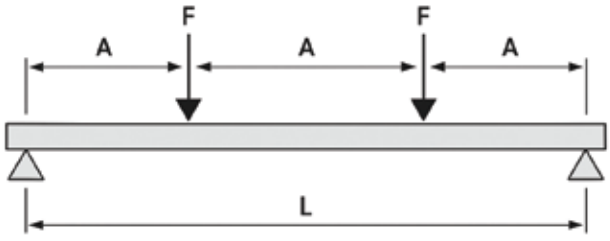
L = length, A = equal distances, F = load point

Max allowed load in N.
The stated values are only valid for the fixing rail. The maxium safe load of all other construtions parts have to be verified.

TWO EQUAL LOADS

B

L (mm)	IFCH271812	IFCH412115	IFCH412120	IFCH412125	IFCH414115	IFCH414120	IFCH414125	IFCH416225	IFCH2M414125	IFCH2M416225
250	569	1,386	1,525	1,786	4,070	4,917	5,708	13,298	17,103	24,515
300	473	1,155	1,271	1,488	3,392	4,097	4,757	9,206	14,253	20,429
350	406	990	1,089	1,276	2,908	3,512	4,077	7,892	12,217	17,510
400	356	866	953	1,116	2,544	3,074	3,568	6,905	10,690	15,322
450	316	770	847	992	2,261	2,732	3,171	6,137	9,502	13,619
500	284	690	759	889	2,027	2,449	2,842	5,502	8,517	12,208
600	221	575	633	741	1,689	2,041	2,369	4,585	7,098	10,173
700	186	455	501	587	1,337	1,615	1,875	3,630	5,619	8,055
800	143	384	423	496	1,170	1,414	1,641	3,176	4,917	7,048
900	113	304	334	392	1,041	1,256	1,459	2,823	4,371	6,265
1000	91	246	270	317	936	1,131	1,313	2,541	3,934	5,639
1200	64	170	187	221	780	943	1,094	2,118	3,278	4,699
1400	47	126	138	162	669	808	938	1,815	2,810	4,028
1600	36	96	106	124	548	657	769	1,588	2,458	3,524
1800	28	126	138	98	433	519	608	1,412	2,185	3,133
2000	23	76	83	79	351	420	492	1,270	1,967	2,719
2250	18	61	68	63	277	332	389	1,121	1,748	2,305
2500	15	48	53	51	224	269	315	907	1,573	1,753
2750	12	39	43	42	186	222	260	750	1,430	1,615
3000	10	32	36	35	156	187	219	630	1,286	1,477



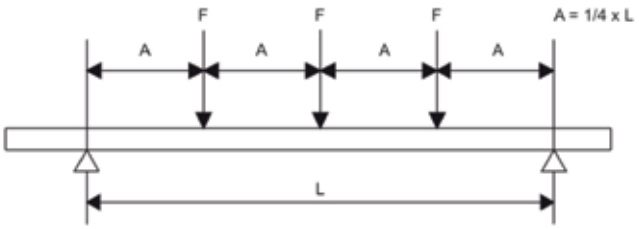
L = length, A = equal distances, F = load point

Max allowed load in N. per suspension point (F).
The stated values are only valid for the fixing rail. The maxium safe load of all other construtions parts have to be verified.

THREE EQUAL LOADS

B

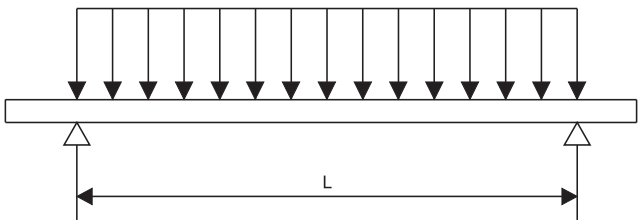
L (mm)	IFCH271812	IFCH412115	IFCH412120	IFCH412125	IFCH414115	IFCH414120	IFCH414125	IFCH416225	IFCH2M414125	IFCH2M416225
250	381	929	1021	1196	2727	3294	3825	8909	11459	16425
300	317	774	851	997	2273	2745	3187	6168	9550	13687
350	272	663	730	855	1948	2353	2732	5287	8185	11732
400	238	580	637	747	1702	2056	2387	4619	7151	10250
450	211	515	567	664	1513	1827	2121	4106	6357	9111
500	190	462	508	595	1356	1638	1902	3681	5698	8167
600	148	385	423	496	1130	1365	1585	3067	4749	6806
700	115	282	311	364	829	1001	1163	2251	3484	4994
800	89	238	262	308	726	877	1017	1969	3049	4370
900	70	188	207	243	645	779	904	1751	2710	3884
1000	56	152	168	197	581	701	814	1576	2439	3496
1200	39	106	116	137	484	584	678	1313	2032	2913
1400	29	78	86	101	415	501	581	1125	1742	2497
1600	22	59	65	77	340	407	477	985	1524	2185
1800	17	78	86	61	269	322	377	875	1355	1942
2000	14	47	52	49	217	261	305	788	1220	1686
2250	11	38	42	39	172	206	241	695	1084	1429
2500	9	30	33	32	139	167	195	563	975	1087
2750	7	24	27	26	115	138	161	465	887	1001
3000	6	20	22	22	97	116	136	391	797	915



Max allowed load in N. per suspension point (F).
The stated values are only valid for the fixing rail. The maxium safe load of all other construtions parts have to be verified.

UNIFORMLY DISTRIBUTED LOAD

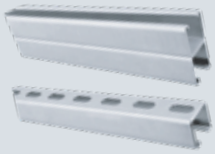
L (mm)	IFCH271812	IFCH412115	IFCH412120	IFCH412125	IFCH414115	IFCH414120	IFCH414125	IFCH416225	IFCH2M414125	IFCH2M416225
250	1,516	3,697	4,436	4,762	1,085	13,112	15,222	29,460	41,609	61,372
300	1,263	3,081	3,697	3,968	9,045	10,927	12,685	24,550	38,007	54,477
350	1,083	2,640	3,168	3,401	7,753	9,366	10,873	21,043	32,578	46,694
400	842	2,310	2,772	2,970	6,784	8,195	9,514	18,413	28,506	40,858
450	750	2,054	2,465	2,645	6,030	7,285	8,457	16,367	25,338	36,318
500	500	1,848	2,218	2,381	5,427	6,556	7,611	14,730	22,804	31,686
600	428	1,540	1,848	1,984	4,523	5,463	6,342	12,275	19,004	27,238
700	326	1,163	1,396	1,503	3,877	4,683	5,436	10,522	16,289	23,347
800	258	891	1,069	1,151	3,392	4,098	4,757	9,206	14,253	20,429
900	209	704	845	909	3,015	3,642	4,228	8,183	12,669	18,159
1000	145	501	601	737	2,714	3,278	3,805	7,365	11,402	16,343
1200	106	396	475	512	2,260	2,708	3,170	6,138	9,502	13,619
1400	82	291	349	376	1,660	1,989	2,329	5,261	8,144	11,674
1600	64	223	268	288	1,271	1,523	1,783	4,603	7,126	10,214
1800	52	176	211	227	1,004	1,204	1,409	4,059	6,335	9,079
2000	41	143	172	184	814	975	1,141	3,288	5,701	-
2250	33	113	136	146	643	770	902	2,598	5,068	-
2500	28	91	109	118	521	624	730	2,104	4,295	-
2750	23	75	90	97	430	516	604	1,739	3,549	-
3000	20	63	76	82	362	433	507	1,461	2,983	-



Max. allowed load in N.
The stated values are only valid for the fixing rail.
The maximum safe load of all other construction parts have to be verified.
For large spans and high rail flanks (>= 62 mm), depending on the load, appropriate measures against occurring torsional forces may have to be taken.

COMPATIBLE ACCESSORIES

B

Photo	Description	Material	Coating
	Incofix Strut Channel	Z275	Electro - galvanized (EG) 20 to 25 µm, Hot-Dip (HDG), ArmorX20, Stainless Steel (SS)
	Slotted Channel Nut Without Spring	Steel	Zinc plated ≥ 5 µm
	Slotted Channel Nut With Spring	Steel	Zinc plated ≥ 5 µm
	Slotted Channel Nut With Plastic Twist Tab	Steel	Zinc plated ≥ 5 µm
	Slotted Channel Nut With Fast Fix Washer	Steel	Zinc plated ≥ 5 µm
	Square Washer	Steel	Zinc plated ≥ 5 µm
	Guided Square Washer	Steel	Zinc plated ≥ 5 µm

COMPATIBLE ACCESSORIES

B

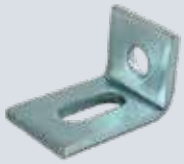
Photo	Description	Material	Coating
	Flat Channel Connector	Steel	Zinc plated ≥ 5 µm
	Flat Splice (2 Holes)	Steel	Zinc plated ≥ 5 µm
	Flat Swivel Plate (3 Holes)	Steel	Zinc plated ≥ 5 µm
	Flat Channel Connector (T Type)	Steel	Zinc plated ≥ 5 µm
	Flat Channel Connector (L Type)	Steel	Zinc plated ≥ 5 µm
	Flat Channel Connector (Cross Type)	Steel	Zinc plated ≥ 5 µm
	Flat Angular Gusset Plate	Steel	Zinc plated ≥ 5 µm

COMPATIBLE ACCESSORIES

B

Photo	Description	Material	Coating
	Flat Angle Gusset Plate	Steel	Zinc plated ≥ 5 µm
	Trianguler Gusset Plate	Steel	Zinc plated ≥ 5 µm
	Diamond Shape Gusset Plate	Steel	Zinc plated ≥ 5 µm
	90-2 Hole Cleet (Type 1)	Mild Steel	Zinc plated ≥ 5 µm
	90-2 Hole Heavy Duty Cleet (Type 2)	Mild Steel	Zinc plated ≥ 5 µm
	90-3 Hole Cleet (Type 3)	Steel	Zinc plated ≥ 5 µm
	90-Slotted Cleet (Type 4)	Steel	Zinc plated ≥ 5 µm

COMPATIBLE ACCESSORIES

Photo	Description	Material	Coating
	90-Slotted Cleet (Type 5)	Steel	Zinc plated ≥ 5 µm
	90-4 Hole Heavy Duty Cleet (Type 6)	Steel	Zinc plated ≥ 5 µm
	Closed Angle Cleet (2 Hole)	Steel	Zinc plated ≥ 5 µm
	Open Angle Cleet (2 Hole)	Steel	Zinc plated ≥ 5 µm
	Open Angle Cleet (4 Hole)	Steel	Zinc plated ≥ 5 µm
	Flat Channel Connector 90	Steel	Zinc plated ≥ 5 µm
	Strut Rail Connector	Steel	Zinc plated ≥ 5 µm

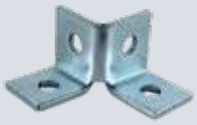
COMPATIBLE ACCESSORIES

B

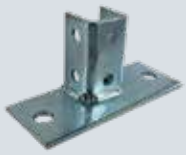
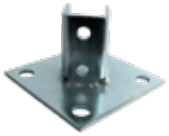
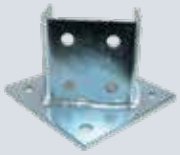
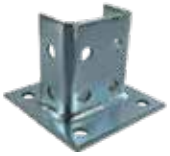
Photo	Description	Material	Coating
	Flat Channel Connector (C Type)	Steel	Zinc plated ≥ 5 µm
	Strut Cross Connector (U Fitting)	Steel	Zinc plated ≥ 5 µm
	Strut Cross Connector (U Fitting)	Steel	Zinc plated ≥ 5 µm
	Corner Connector	Steel	Zinc plated ≥ 5 µm
	Strut Connector 90° (Type 1)	Steel	Zinc plated ≥ 5 µm
	Strut Connector 90° (Type 2)	Steel	Zinc plated ≥ 5 µm
	Strut Connector 90° (Type 3)	Steel	Zinc plated ≥ 5 µm

COMPATIBLE ACCESSORIES

B

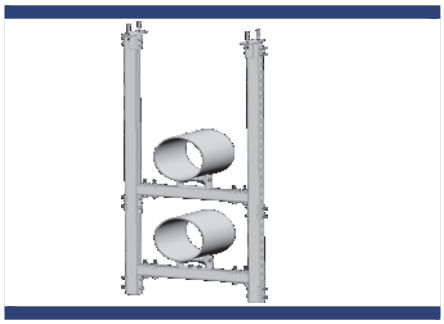
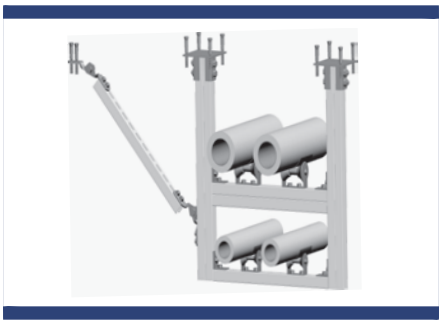
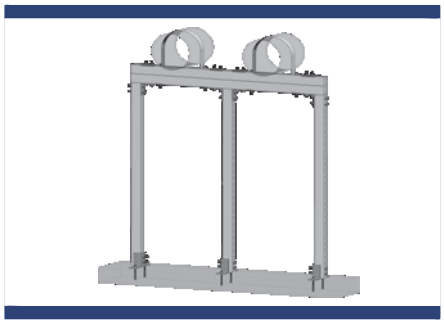
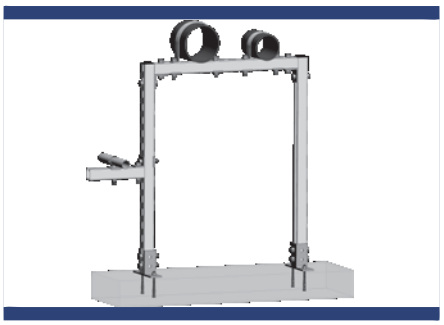
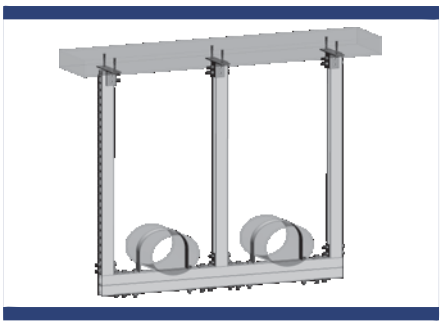
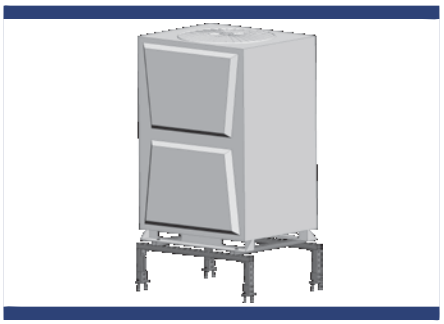
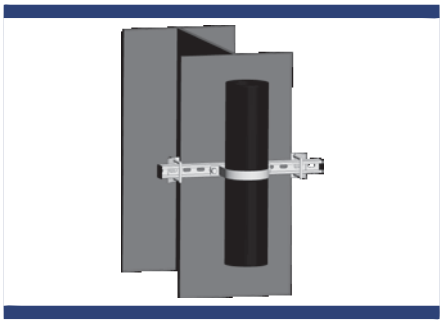
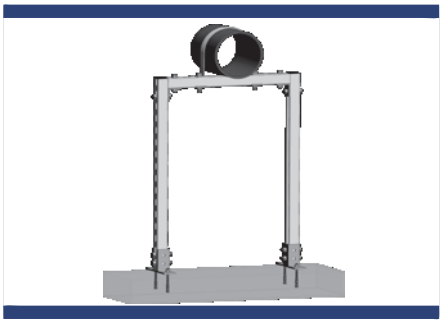
Photo	Description	Material	Coating
	Strut Connector 90° (Type 4)	Steel	Zinc plated ≥ 5 µm
	Strut Z Connector	Steel	Zinc plated ≥ 5 µm
	Strut Connector 90° (Type 1)	Steel	Zinc plated ≥ 5 µm
	Strut Connector 90° (Type 2)	Steel	Zinc plated ≥ 5 µm
	Strut Connector 90° (Type 3)	Steel	Zinc plated ≥ 5 µm
	Strut Base Plate (Type 1)	Steel	Zinc plated ≥ 5 µm
	Strut Base Plate (Type 2)	Steel	Zinc plated ≥ 5 µm

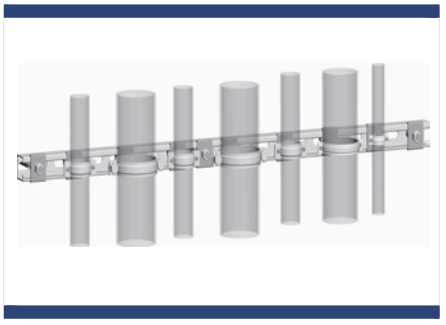
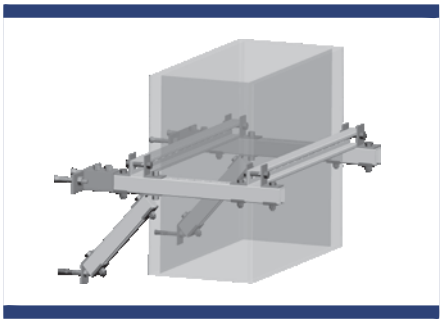
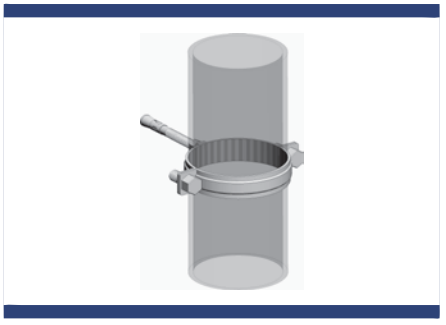
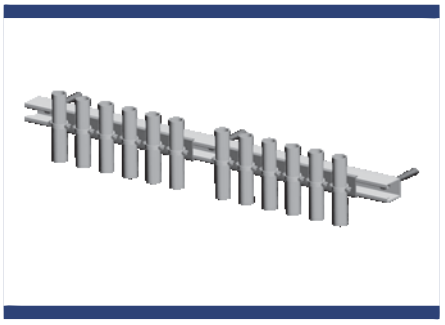
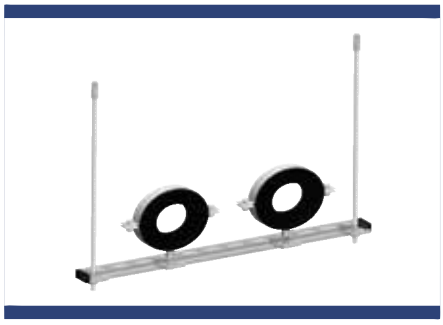
COMPATIBLE ACCESSORIES

Photo	Description	Material	Coating
	Strut Base Plate (Type 3)	Steel	Zinc plated ≥ 5 µm
	Strut Base Plate (Type 4)	Steel	Zinc plated ≥ 5 µm
	Strut Base Plate (Type 5)	Steel	Zinc plated ≥ 5 µm
	Strut Base Plate (Type 6)	Steel	Zinc plated ≥ 5 µm
	T Corner Connector 90°	Steel	Zinc plated ≥ 5 µm
	Adjustable Bracket	Steel	Zinc plated ≥ 5 µm
			Zinc plated ≥ 5 µm

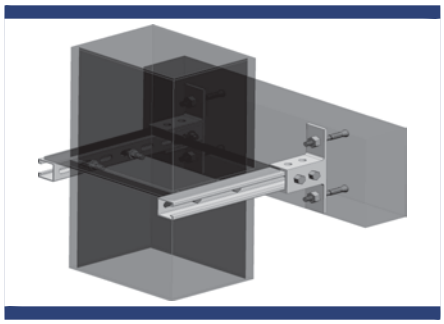
CHANNELS APPLICATIONS

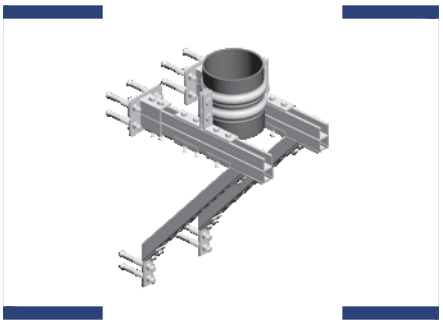
B

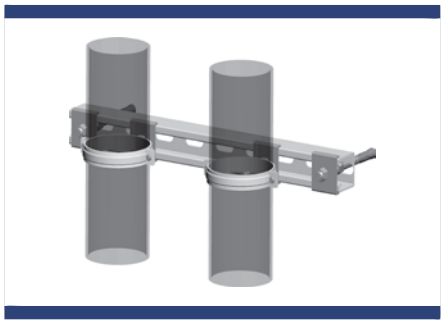









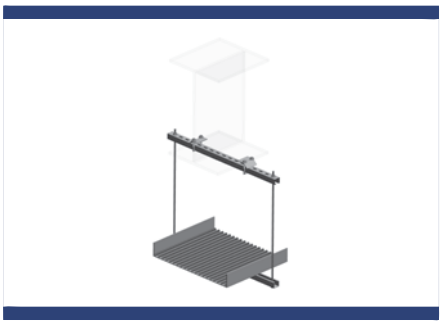







CHANNELS APPLICATIONS









CHANNELS APPLICATIONS FOR EXPENSION PIPE

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