

LINKRAN



Linkran Installation and Support System



ASCE7 NACI

LINKRAN

FANTAP®

Producer of Constructional & Industrial materials



SAZEH PAIDAR®

Supplier of Constructional & Industrial materials



■ Company Introduction

FANTAP Co. has been founded in 2018; based on Sazeh Paidar Elahie Group's experience and knowledge, with the aim and policy of domestic production and self-sufficiency in field of construction industry.

The company's production site is located on a field of 13000m² in Shams Abad Industrial Zone and is equipped by the worlds most advanced and up to date devices that enables the production of world-class high-quality products.

On the path of national missions accomplishment and by trusting God, believing in abilities and will power; FANTAP Co. has proceed both the technology transition into the country and the production of installation and support system by the brand name of LINKRAN as one of the pioneers of building installation in supplying different types of installation materials including installation support systems, thermal and sound insulations, fire stop, smoke tight and flexible connections; and beside the gained trust and credibility in business over the years, by studying and supplying the needed resources and products for the production cycle, the company has established itself as the major domestic producers in the industry which led to the staff's experimentation and confidence in the prosperity of national production.

With the prospect of a boom in production and national economy growth, the company has always set valuable goals such as increasing employment of Iranian youth, producing high quality products correspond with the world standards and compete with similar foreign products aiming the price stability, respect for consumer rights and customer orientation and has put all in forefront of its path.

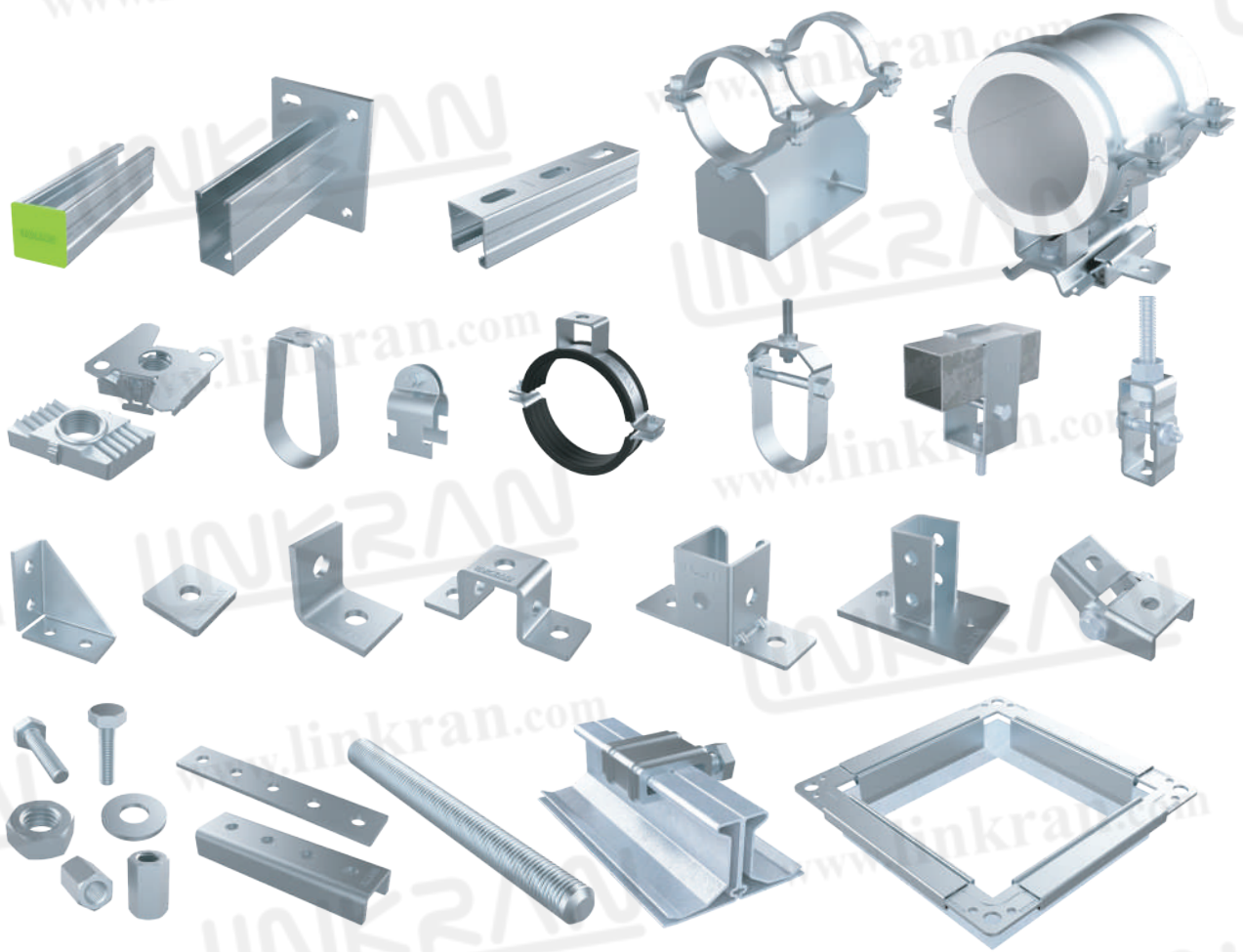


Installation and support system

LINKRAN installation and support is a prefabricated system which is a suitable alternative for traditional system in electrical and mechanical installation support system performance. Undoubtedly, the current status of support system in the installation section requires to be reviewed and this issue calls for a change in attitude of the engineering community including respected consultants, contractors and employers. Meanwhile, the costs subject is not far from this perspective and studies show that this system is far more economical than the traditional system. One of the most important components of an installation which require a precise design is pipe. In order to select pipe support, you need to separate the pipes according to the standards. The following table point to the technical description of pipes in the current standards.

Technical data of Pipes

DN	Inch	Dia. Ø mm	Thickness mm	Empty kg/m	Water Fill kg/m	Isolated kg/m	DN	Dia. Ø mm	Thickness mm	Empty kg/m	Water Fill kg/m	Isolated kg/m
Steel Pipes (DIN 2440)						Cast Iron Pipe, (GA, DIN 19 500)						
8	1/4"	13,5	2,35	0,65			50	60,0	3,50	5,30	7,50	
10	3/8"	17,2	2,35	0,89	1,01	1,3	70	80,0	3,50	7,10	11,28	
15	1/2"	21,3	2,65	1,27	1,47	1,8	100	112,0	4,00	10,30	18,79	
20	3/4"	26,9	2,65	1,65	2,02	2,4	125	137,0	4,00	13,70	26,76	
25	1"	33,7	3,25	2,55	3,30	3,9	150	162,0	5,00	17,30	35,43	
32	1 1/4"	42,4	3,25	3,28	4,30	5,7	200	212,0	6,00	32,70	64,10	
40	1 1/2"	48,3	3,25	3,77	5,15	6,6	40	48,0	3,5	3,00	4,40	
50	2"	60,3	3,65	5,33	7,55	9,9	50	58,0	3,5	4,30	6,40	
65	2 1/2"	76,1	3,65	6,80	10,52	15,0	70	78,0	3,5	5,90	9,90	
80	3"	88,9	4,05	8,85	13,98	19,9	100	110,0	3,5	8,40	17,70	
100	4"	114,3	4,50	12,60	21,30	30,9	125	135,0	4,0	11,80	24,50	
125	5"	139,7	4,85	16,90	30,17	40,6	150	160,0	4,0	14,10	32,30	
150	6"	165,1	4,85	20,10	39,06	50,4	200	210,0	5,0	23,10	54,60	
Steel Pipes (DIN 2448)						PE Pipes (GA, DIN 19 500)						
10		17,2	1,80	0,69	0,83	1,5	250	274,0	5,5	33,30	87,70	
15		21,3	2,00	0,96	1,20	2,5	300	326,0	6,0	43,20	120,80	
20		26,9	2,30	1,41	1,80	3,2	400	429,0	8,1	75,50	208,80	
25		33,7	2,60	2,01	2,65	4,3	500	532,0	9,0	104,30	311,80	
32		44,5	2,60	2,70	3,91	5,5	600	635,0	9,9	137,10	434,20	
40		48,3	2,60	2,95	4,41	6,0	PE Pipes (GA, DIN 19 500)					
46		51,0	2,60	3,12	4,77	6,5	26	32,0	3,0	0,27	0,80	
50		57,0	2,90	3,90	5,96	7,6	34	44,0	3,0	0,34	1,25	
50		60,3	2,90	4,14	6,47	9,0	40	50,0	3,0	0,44	1,96	
57		63,5	2,90	4,36	6,97	9,5	50	56,0	3,0	0,50	2,46	
65		76,1	2,90	5,28	9,16	13,9	60	63,0	3,0	0,56	3,11	
76		82,5	3,20	6,31	10,86	15,2	70	75,0	3,0	0,67	4,41	
80		88,9	3,20	6,81	12,15	18,4	80	90,0	3,5	0,95	6,36	
94		101,6	3,60	8,76	15,76	24,8	100	110,0	4,3	1,43	9,50	
100		108,0	3,60	9,33	17,31	27,5	125	125,0	4,9	1,81	12,27	
100		114,3	3,60	9,90	18,90	28,8	125	140,0		2,28	15,39	
127,0		127,0	4,00	12,20	23,32	35,1	150	160,0	6,2	3,00	20,10	
125		133,0	4,00	12,80	25,07	36,5	200	200,0	6,2	3,83	31,45	
125		139,7	4,00	13,50	27,12	38,2	250	250,0	7,8	6,01	49,15	
150		152,4	4,50	16,40	32,54	46,5	Copper Pipes (DIN 1754&1786)					
150		159,0	4,50	17,10	34,76	48,9	10	10,0	1,0	0,25	0,30	0,4
150		168,3	4,50	17,10	36,93	50,6	12	12,0	1,0	0,30	0,38	0,5
		177,8	5,00	21,30	43,40	58,9	15	15,0	1,0	0,39	0,52	0,8
		193,7	5,40	25,00	51,26	66,5	18	18,0	1,0	0,47	0,67	1,0
200		219,1	5,90	31,00	64,73	79,5	22	22,0	1,0	0,58	0,90	1,3
		267,0	6,30	40,60	91,40	108,5	28	28,0	1,5	1,11	1,60	2,4
250		273,0	6,30	41,60	95,40	111,7	35	35,0	1,5	1,42	2,21	3,1
		298,5	7,10	51,10	117,60	137,5	42	42,0	1,5	1,70	2,89	4,4
		318,0	7,10	57,40	129,50	150,0	54	54,0	2,0	2,91	4,87	7,3
		323,9	7,10	55,60	130,85	150,0	64	64,0	2,0	3,47	6,29	9,8
400		406,4	8,80	85,90	204,40	227,7	70	70,0	2,0	3,80	7,21	12,9
500		508,0	11,00	135,00	320,50	345,5	74	74,0	2,0	4,03	7,87	13,5
							80	80,0	2,0	4,36	8,89	14,7
PVC Pipes (GA, DIN 19 500)						PVC Pipes (GA, DIN 19 500)						
50		50,0	1,8	0,24	1,28		104	104,0	2,0	5,70	13,55	25,5
60		63,0	1,9	0,30	1,99		125	125,0	3,0	10,20	21,31	33,5
70		75,0	1,9	0,49	3,93		131	131,0	3,0	10,70	22,96	35,0
100		110,0	2,7	1,02	8,00							
125		125,0	3,1	1,35	12,43							
150		160,0	3,9	2,15	18,03							



Corrosion resistance



Time saving



Precise engineering
in design and
analysis



Minimizing the load
of supports weight



Increase system
performance and
productivity



Eliminating welding
and drilling



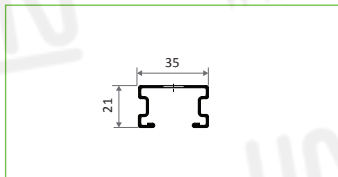
Production based on
order



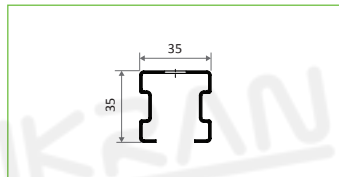
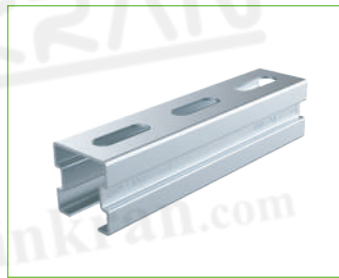
Reduce cost in
system maintenance
operation

C and G steel profile

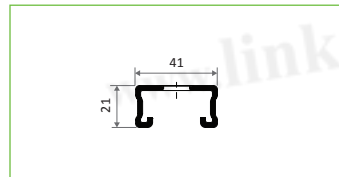
LINKRAN galvanized steel profiles are applied in installation support system in order to support the duct, cable tray, various pipes and some specific parts in construction structures. These profiles are designed in two types of C to tolerate light load and G to tolerate semi-heavy and heavy loads.



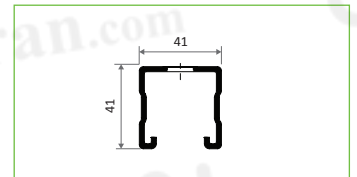
PCS.3521



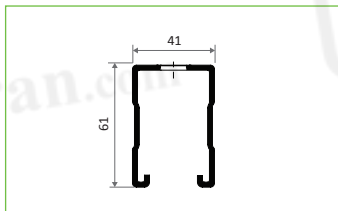
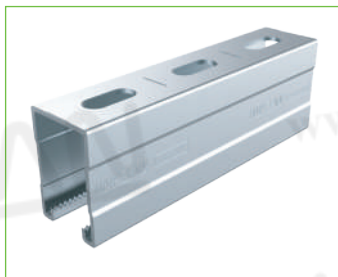
PCS.3535



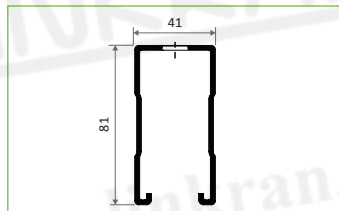
PGS.4121



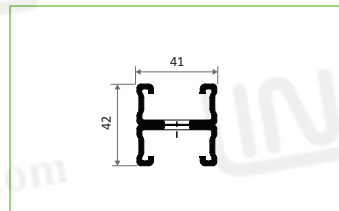
PGS.4141



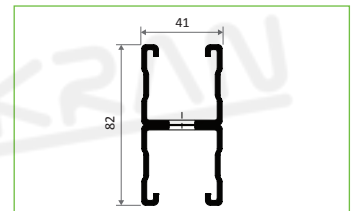
PGS.4161



PGS.4181



PGD.4142



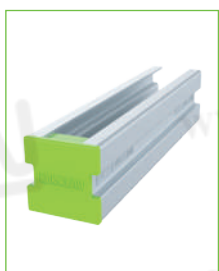
PGD.4182

Profile end caps

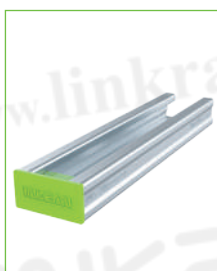
LINKRAN profile end caps are applied for blocking all types of profiles in different dimensions, to prevent damages caused by improper cutting of profile and exterior beauty of the structure.



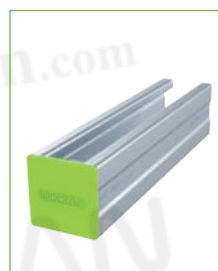
PCC.2121



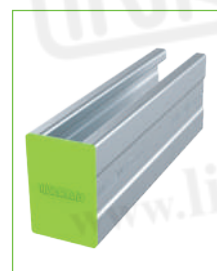
PCC.2135



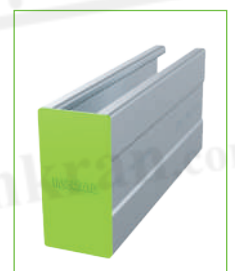
PGC.2221



PGC.2241



PGC.2261




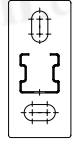
PGC.2281

C and G steel bracket

LINKRAN brackets are applied for producing L-shaped, T-shaped and F-shaped supports for restraining different pipes and cable trays passing by concrete walls.

Product Code	Bracket Length(mm)
RCS.0135	150
RCS.0235	250
RCS.0335	350
RCS.0435	450


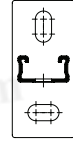
Dimensions of Profile cross section brackets 35*35

RCS.3535

Product Code	Bracket Length(mm)
RGS.0121	180
RGS.0221	240
RGS.0321	360
RGS.0421	420



Dimensions of Profile cross section brackets 41*21

RGS.4121

Product Code	Bracket Length(mm)
RGS.0141	180
RGS.0241	240
RGS.0341	360
RGS.0441	420
RGS.0541	540
RGS.0641	660


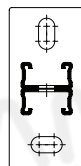
Dimensions of Profile cross section brackets 41*41

RGS.4141

Product Code	Bracket Length(mm)
RGD.0142	180
RGD.0242	240
RGD.0342	360
RGD.0442	420
RGD.0542	540
RGD.0642	660


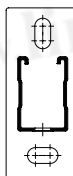
Dimensions of Profile cross section brackets 41*42

RGD.4142

Product Code	Bracket Length(mm)
RGS.0461	420
RGS.0561	540
RGS.0661	660
RGS.0761	780
RGS.0861	840
RGS.0961	960
RGS.1061	1020
RGS.1161	1140
RGS.1261	1200
RGS.1361	1320
RGS.1461	1440
RGS.1561	1500


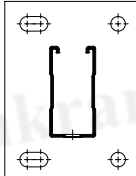
Dimensions of Profile cross section brackets 41*61

RGS.4161

Product Code	Bracket Length(mm)
RGS.0481	420
RGS.0581	540
RGS.0681	660
RGS.0781	780
RGS.0881	840
RGS.0981	960
RGS.1081	1020
RGS.1181	1140
RGS.1281	1200
RGS.1381	1320
RGS.1481	1440
RGS.1581	1500

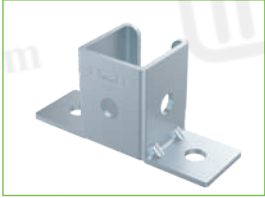


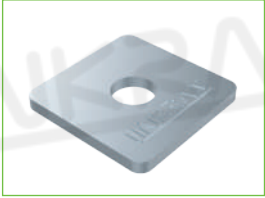


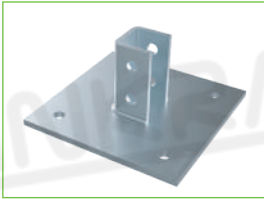
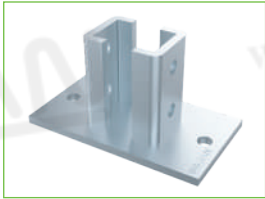










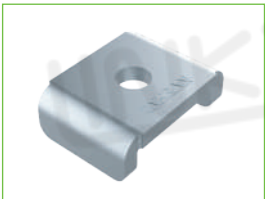







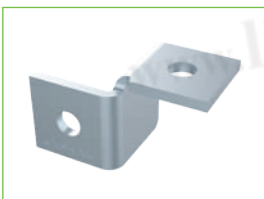



Dimensions of Profile cross section brackets 41*81

RGS.4181


C and G profile connections


LINKRAN profile connections are applied for connecting C and G profile together and also to ceiling, walls or any other structures. These connections are classified into U-shaped, L-shaped, angle joint, flat plating, wing shaped and past bases fittings and this variety leads to ease in installation and implement of different types of support.


				
FCD.6602	FCD.6612	FCF.6804	FCW.6208	FCW.6308
				
FGP.8444	FGP.8446	FGP.8464	FGP.8466	FGL.7302
				
FGL.7304	FGL.7324	FGL.7355	FGU.7921	FGU.7941
				
FGU.7944	FGU.7965	FGW.7012	FGW.7112	FGF.7203
				
FGN.7512	FGN.7512	FGD.8203	FGD.8303	FGD.8242
				
FGD.8243	FGD.8102	FGA.9102	FGA.9114	FGA.9142

Anchor system


Anchors are used to connect hanging rods to the ceiling or profile base to the concrete or steel structures. This product is presentable in two types of internal and external thread.

	Product Code	Size	Length(mm)
	R-HPT-08080/15	M8	80
	R-HPT-10115/35	M10	115
	R-HPT-12120/25	M 12	120
	R-HPT-16140/20	M 16	140
	R-HPT-20160/20	M 20	160
RHPT			

	Product Code	Size	Length(mm)
	R-XPT-08080/15	M 8	80
	R-XPT-10115/45	M 10	115
	R-XPT-12120/25	M 12	120
	R-XPT-16140/20	M 16	140
	R-XPT-20160/20	M 20	160
RXPT			

	Product Code	Size	Length(mm)
	R-DCA-08/30	M 8	30
	R-DCA-10/40	M 10	40
	R-DCA-12/50	M 12	50
	R-DCA-16/65	M 16	65
	R-DCA-20/80	M 20	80
RDCA			


	Product Code	Size	Length(mm)
	FHY M8	M8	43
	FHY M10	M10	52
FHY			


	Product Code	Size	Length(mm)
	FAZ II 8/10	M8	75
	FAZ II 10/30	M10	115
	FAZ II 12/20	M12	120
	FAZ II 16/25	M16	148
	FAZ II 20/30	M20	172
FAZ II			

	Product Code	Size	Length(mm)
	4ALL-10	M10	50
	4ALL-12	M12	60
	4ALL-14	M14	70
4 All Plug			


Beam clamps

Beam clamps are applied for installing the electrical and mechanical equipment support without drilling and welding to the main and side beams and lead to ease in maintenance.

	Product Code	Screw Size
	BRP.2610	M10
	BRP.2612	M12
BRP		

	Product Code	Screw Size
	BUR.2508	M8
	BUR.2510	M10
	BUR.2512	M12
	BUR.2516	M16
BUR		

	Product Code	Screw Size
	BSR.2708	M8
	BSR.2710	M10
	BSR.2712	M12
BSR		

	Product Code	Screw Size
	BBR.2808	M8
	BBR.2810	M10
	BBR.2812	M12
	BBR.2816	M16
BBR		

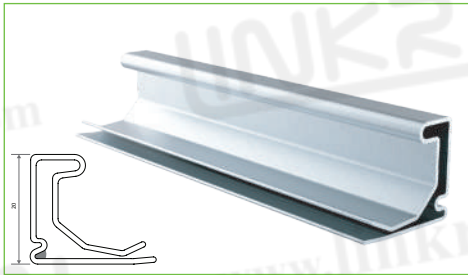
Sliding and fixed pipe clamp

LINKRAN Pipe Clamps are used for supporting a variety of pipes including cooling and heating system pipes, sprinklers, water supply line, horizontal and vertical pipes according to the applied pipe size. Direct metal-to-metal contact while connecting pipe to the supporting system, and vibration and sound transmission can be prevented by using insulated clamps.

<p>Sprinkler pipe hanger</p> <p>CSH</p>	<p>Clevis pipe hanger</p> <p>CCH</p>	<p>Short pipe strap with rubber cover</p> <p>CSS</p>	<p>Two screw pipe clamp with rubber cover</p> <p>CST</p>
<p>Round air duct clamp</p> <p>CTD</p>	<p>Heavy duty U-based pipe clamp with rubber cover</p> <p>CBP</p>	<p>Polymer pipe clamp with rubber cover</p> <p>CPW</p>	<p>Insulated pipe clamp</p> <p>CBI</p>
<p>Round air duct clamp with single hanging</p> <p>CRD</p>	<p>Round bend U-bolt pipe clamp</p> <p>CUB</p>	<p>Grip strap pipe clamp</p> <p>CGS</p>	<p>Sliding frame</p> <p>CAS</p>
<p>Heavy duty fixed point pipe clamp</p> <p>CFP</p>	<p>Insulated sliding frame</p> <p>CCS</p>	<p>Heavy duty tall base industrial sliding frame</p> <p>CFS</p>	<p>Heavy duty industrial sliding frame</p> <p>CHS</p>

Clips, angle and duct flange profile

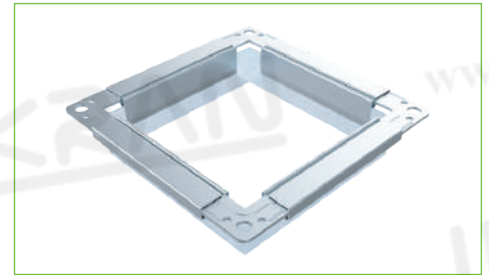
LINKRAN air duct connections are prefabricated parts, made of galvanized sheets in order to save installation time and ease implement of air ducts without drilling and welding.



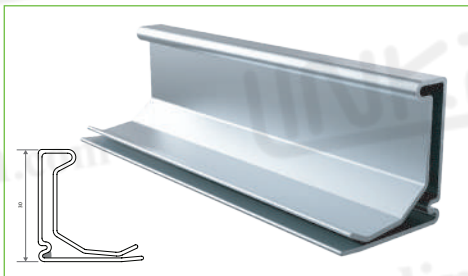
DFP.2023



DFC.2008



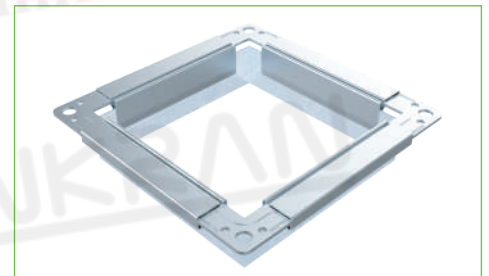
ASSEMBLED



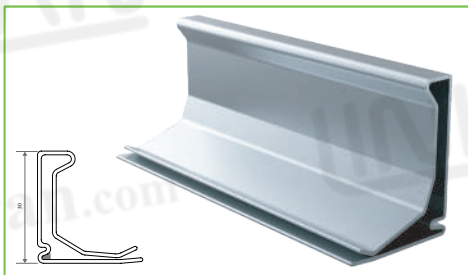
DFP.3028



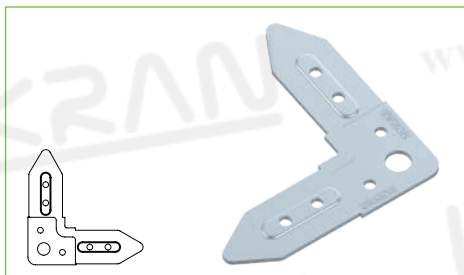
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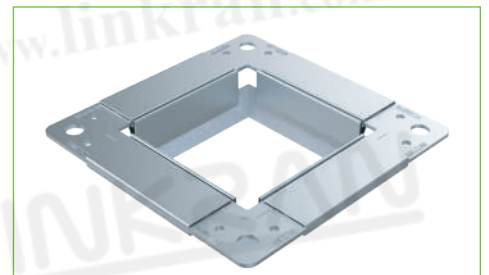
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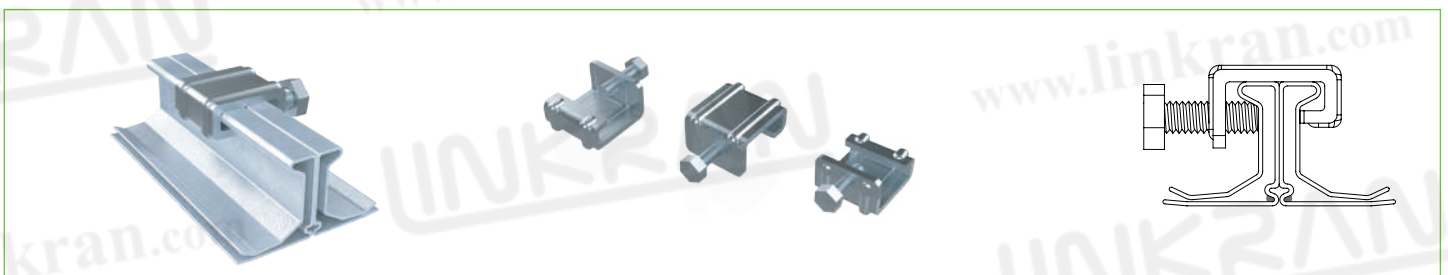
DFP.4030




DFC.4012



ASSEMBLED




DGC.3013

	Product Code	Mastic Type
	DMS.2100	Flange Sealant Mastic
	DMS.2200	High Temperature Flange Gasket Mastic
DMS		

	Product Code	Flange Gasket Tape Size
	DNG.1504	20Flange
	DNG.2004	30Flange
DNG.3004		40Flange
DNG		

Accessories

In addition to steel profiles, connections, brackets and pipe clamps; assembling the installation modular support requires the following accessories:



Product Code	Hexagon Screw Size
FHS.0820	M8
FHS.1025	M10
FHS.1225	M12
FHS.1630	M16

FHS



Product Code	Round Washer Size
FRW.0820	M8
FRW.1024	M10
FRW.1228	M12
FRW.1636	M16

FRW



Product Code	Galvanized Threaded rod Size
FTR.0830	M8
FTR.1030	M10
FTR.1230	M12
FTR.1630	M16

FTR




Product Code	Hexagon Head Nut Size
FHN.0813	M8
FHN.1017	M10
FHN.1219	M12
FHN.1624	M16

FHN



Product Code	Steel Rod Coupling Size
FAC.0810	M8 - M10
FAC.1012	M10 - M12
FAC.1216	M12 - M16
FAC.1620	M16 - M20

FAC




Product Code	Steel rod coupling adaptor Size
FRC.0830	M8x30
FRC.1040	M10x40
FRC.1240	M12x40
FRC.1650	M16x50
FRC.2060	M20x60
FRC.2070	M20x70

FRC



Product Code	Adaptor Bolt Size
FAB.0808	M8 - M8
FAB.0810	M8 - M10
FAB.1008	M10 - M08
FAB.1010	M10 - M10
FAB.1012	M10 - M12
FAB.1210	M12 - M10
FAB.1212	M12 - M12
FAB.1216	M12 - M16
FAB.1612	M16 - M12
FAB.1616	M16 - M16

FAB



Product Code	Pin strike anchor installation tool Size
FPA.3108	M8
FPA.3110	M10
FPA.3112	M12

FPA



Product Code	Drive Screw Size
FDS.3916	M3.9x16
FDS.4216	M4.2x16

FDS



- LINKKRAN produces modern construction materials and installation with most up to date and advanced equipment complying with international standards. The engineering designing and technical services on the basis of engineering economy

Gallery



LINKRAN Support Systems Production Line and Installation Assembly



LINKRAN Site (Shams Abad Industrial Zone)



LINKRAN Modular Support Systems Implemented Samples

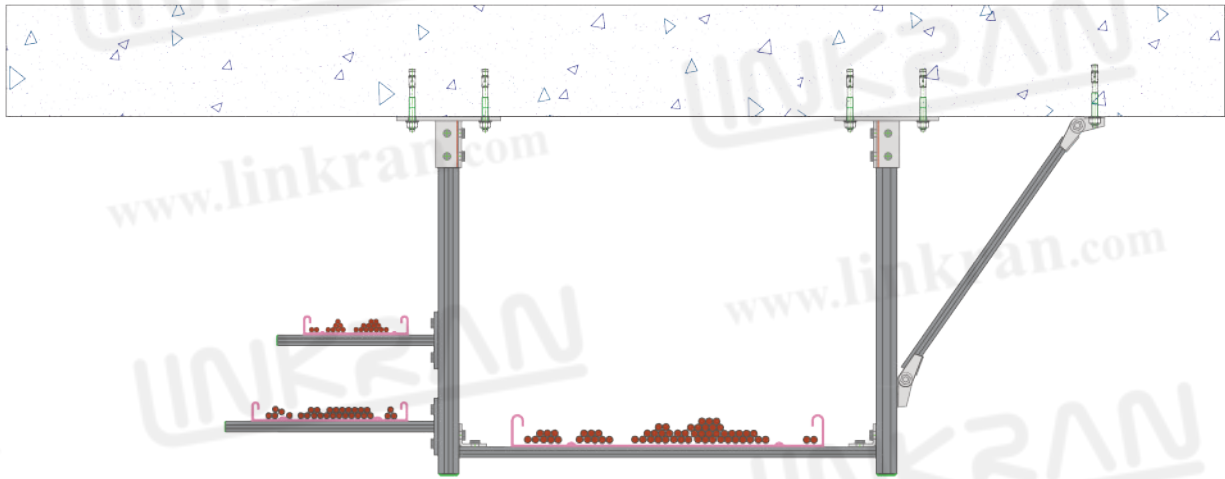


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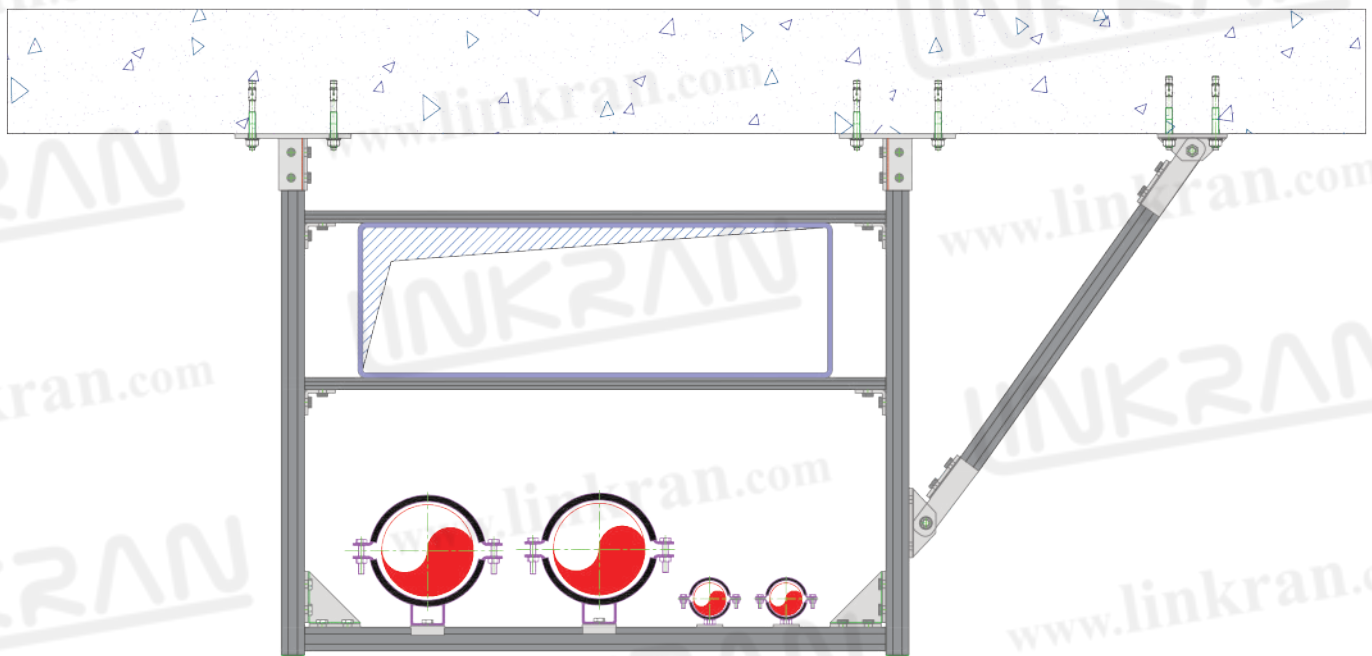


LINKRAN's Staff

Electrical Support Detail



Mechanical Support Detail



FANTAP

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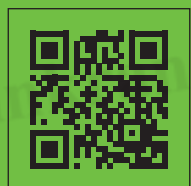
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