

PROMIAKS

S M A R T K I T S T R U C T U R E S O L U T I O N S

B.05 - Utility & Commercial Buildings



Introduction

ProMAKS is a structure technology designed for faster, flexible and durable solutions for wide range of sectors with high capacity production.

We offer our range of innovative systems available as flat packed kits, complete with everything you need to build to an exterior finish, freeing you up to focus on the design & finish of the interior to your client's specifications.

- Ventilated Structure
- Energy Efficiency
- Smart Connection
- Quick and Easy Assembly
- Flexible Design
- Effective Insulation
- Easy to integrate flexible
- Versatile Structure



DO YOU KNOW THAT

YOU CAN BUILD ANY MODEL YOU WANT RIGHT AWAY...





WITH OUR

SMART KIT STRUCTURE SOLUTIONS?





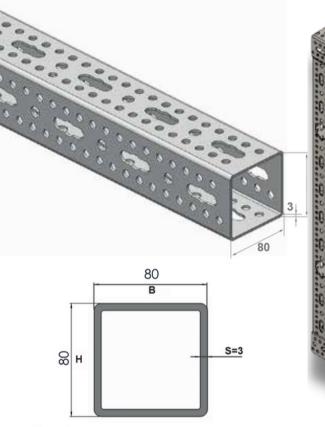






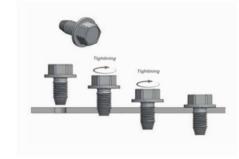






Service

Promaks is modular kit structural system, provide easy installation with self-threading bolt and high load capacity due to its special design.



Materials and Type

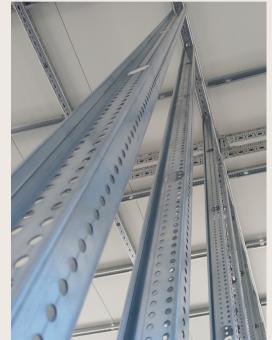
Coating

EN 1461 Hot-dip galvanized 92µm minimum Hot-dip of galvanize.



VCORE 80 Series VLINE 100 Series VKING 120 Series











PROMAKS



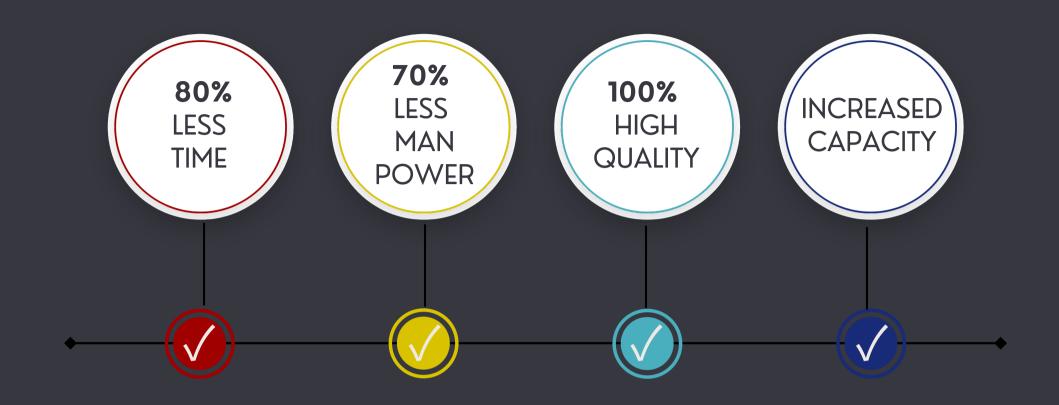






Working together





Making life easier for your production...

PROMAKS.CO.UK

PRODARKS



B.05 - UTILITY & COMMERCIAL BUILDINGS

KIT STRUCTURE SYSTEMS SERIES DATA SHEETS

V>CORE 80 Series V>LINE 100 Series V>KING 120 Series

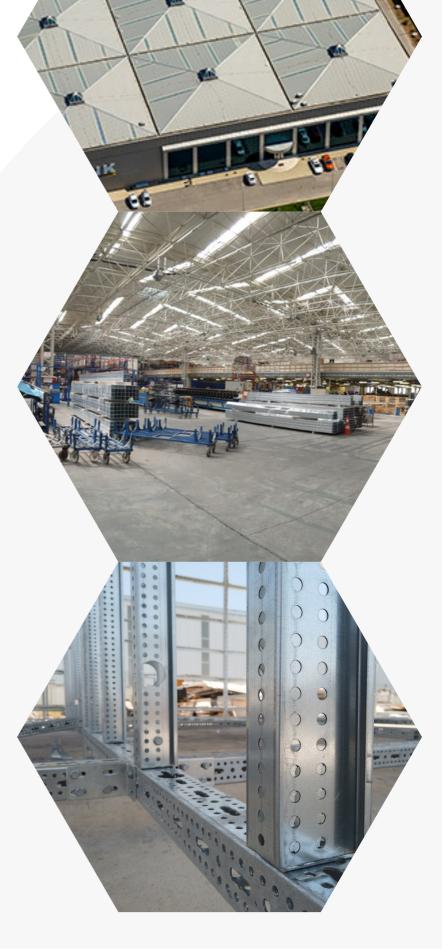


About ProMAKS

ProMAKS V-Series is a structure technology designed for faster, flexible and durable building solutions with high capacity production.

We offer our range of innovative systems available as flat packed kits, complete with everything you need to build to an exterior finish, freeing you up to focus on the design & finish of the interior to your client's specifications.

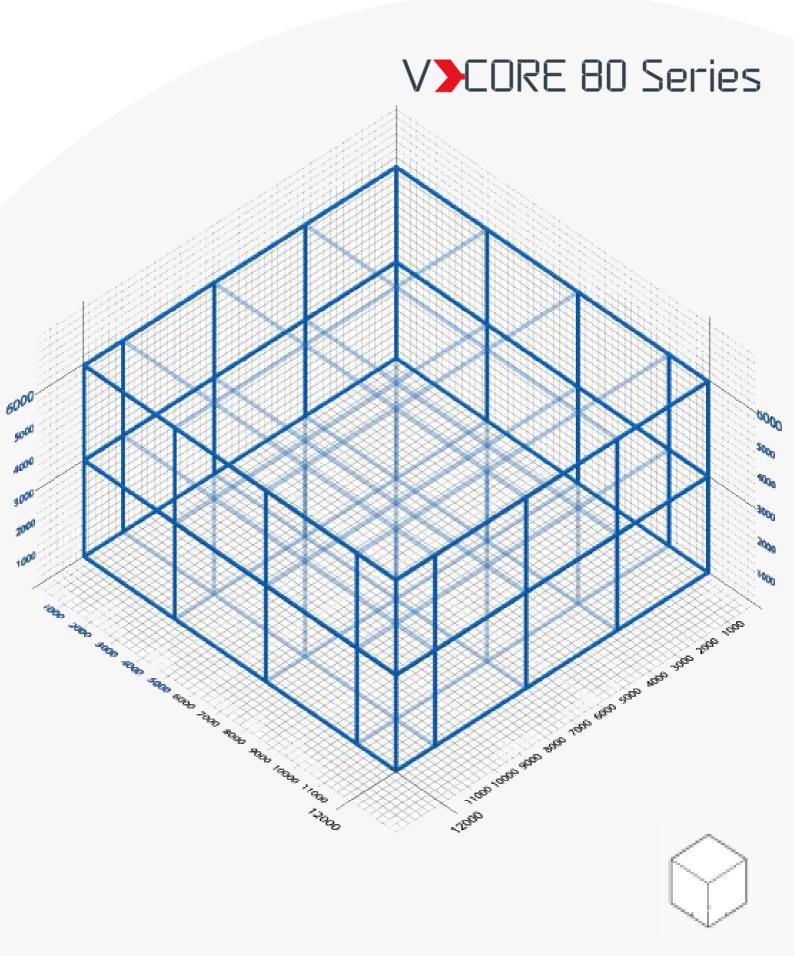
- Ventilated Structure
- Energy Efficiency
- Smart Connection
- Quick and Easy Assembly
- Flexible Design
- Effective Insulation
- Easy to integrate flexible
- Versatile Structure



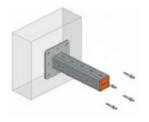


design as you like...





Base Module : 3.5 x 3.5 x 3.0 m



PMKS-HK-080 Promega Connection



PMKS-HK-080 -Promega-Promega Connection



PMKS-TTA-080 Promega Connection

ProMAKS Profile

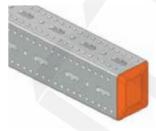
PMKS-PRF-080-001



PMKS-KD-080 Promega Connection



PMKS-KD-081 Promega Connection



PMKS-PC-080 **Promega Connection**





PMKS-KD-082 Promega Connection



PMKS-KD-118 Promega Connection

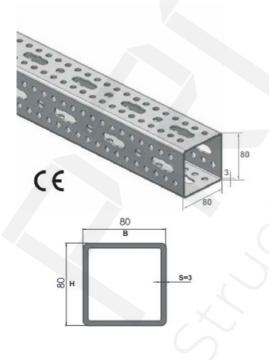


PMKS-MFS-080/081 **Promega Connection**

Connection Pieces







PMKS-HK-080











PMKS-KD-081

PMKS-KD-118

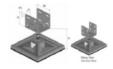
PMKS-PC-080 PMKS-TTA-080



PMKS-MFS-080

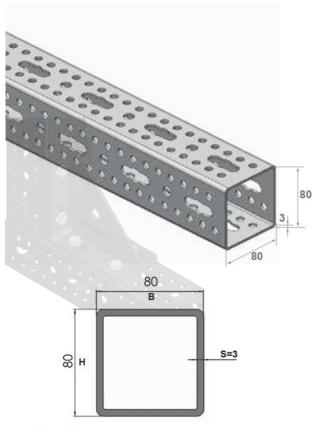


PMKS-MFS-081



PMKS-FOOT-80/81

Heavy Duty V-CORE Series Structural System



Service

Promaks is modular kit structural system, provide easy installation with self-threading bolt and high load capacity due to its special design.



Materials and Type

Steel S235 JR

Coating

EN 1461 Hot-dip galvanized 92µm minimum Hot-dip of galvanize.

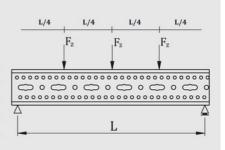
Distributed load				
Lmax (mm)	qz, perm kN/m	Fz, (qz,perm *L) kN		
1000	18,00	18,00		
1500	8,00	12,00		
2000	3,82	7,64		
2500	1,94	4,85		
3000	1,10	3,30		
3500	0,68	2,38		
qz	[kN/m] as pern	nanent load at L		

Point load					
Lmax (mm)	Fz, perm kN				
1000	9,00				
1500	6,00				
2000	4,44	_			
2500	3,14				
3000	2,15				
3500	1,54	_			

Fz[kN] as permanent load at L/2

	2 point loads
Lmax (mm)	Fz, perm kN
1000	6,83
1500	4,50
2000	2,82
2500	1,80
3000	1,21
3500	0,87
Fz[kN] as	permanent load at L/2 and 2*L/3

3 point loads					
Lmax (mm)	Fz, perm kN				
1000	4,50				
1500	3,00				
2000	2,00				
2500	1,20				
3000	0,87				
3500	0,60				



Fz[kN] as permanent load at L/4, L/2 and 3*L/4

Basis of calculation of the load capacity is accordence with Eurocode 3 (EN 1993)

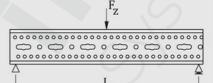
- Self weight considered.
- Safety factor is taken into account as 1,35.
- Deflection limit value is L/200.

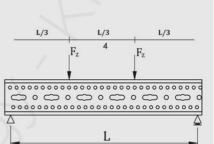
Section Properties

F	Profile Size	e	Unit Weight	Cross Section Area	Torsional Section Modules	Torsion Moment of Inertia	Moment	of Inertia	Section	Modules
	(mm)		(kg)	(mm²)	(cm ³)	(cm4)	(c	m⁴)	(ci	m³)
Н	В	S		A	Wp	lp	ly	lz	Wy	Wz
80	80	3	5,74	510,00	35,51	108,82	54,41	54,41	13,60	13,60

The section properties is determined according to the perforated section.

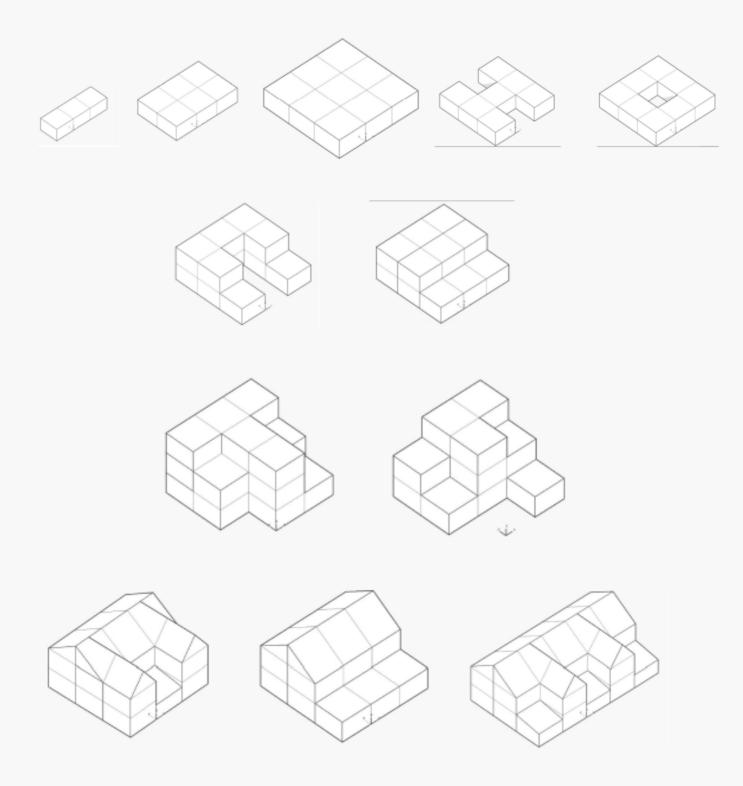
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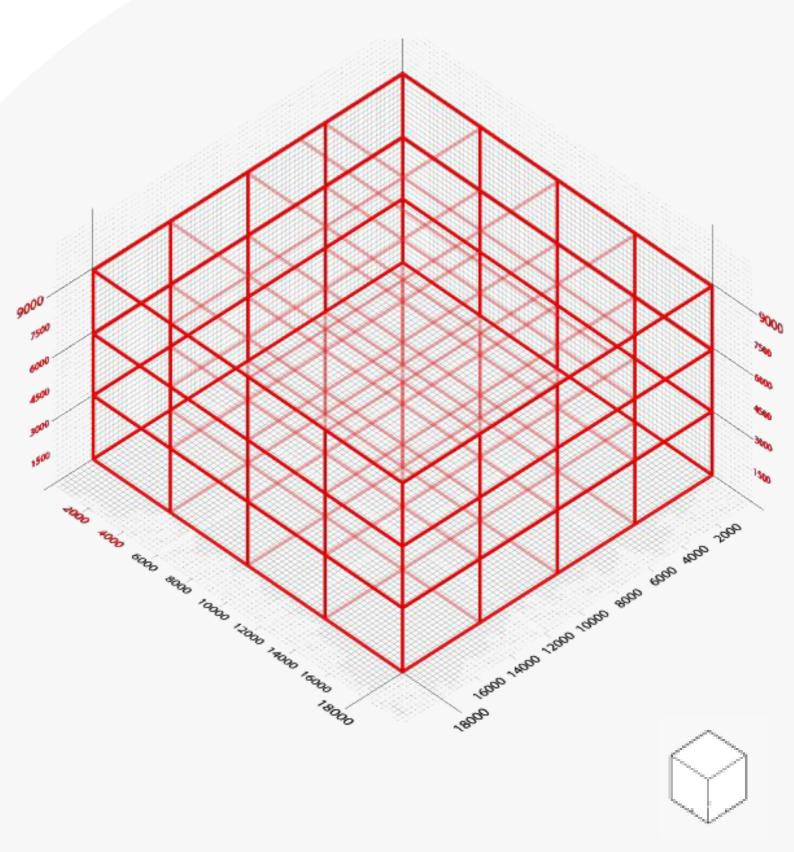




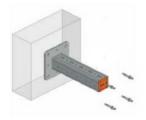
design as you like...



VXINE 100 Series



Base Module : 4.5 x 4.5 x 3.0 m



PMKS-HK-100 Promega Connection



PMKS-HK-100 -Promega-Promega Connection



PMKS-TTA-100 Promega Connection

ProMAKS Profile



PMKS-KD-120 Promega Connection



PMKS-KD-121 Promega Connection



PMKS-PC-100 **Promega Connection**





PMKS-KD-101 Promega Connection



PMKS-foot-100/101 Promega Connection

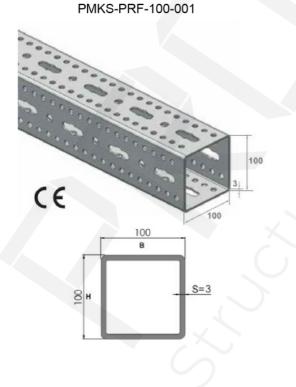


PMKS-MFS-100/101 Promega Connection

Connection Pieces







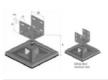




PMKS-KD-120





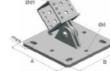


PMKS-FOOT-100/101

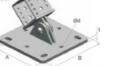
PMKS-PC-100 PMKS-TTA-100

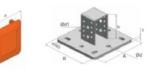


PMKS-MFS-100

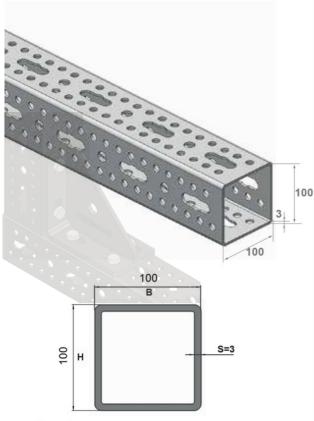


PMKS-MFS-101





Heavy Duty V-LINE Series Structural System



Service

Promaks is modular kit structural system, provide easy installation with self-threading bolt and high load capacity due to its special design.



Materials and Type Steel S235 JR

Coating

EN 1461 Hot-dip galvanized 92µm minimum Hot-dip of galvanize.

Section Properties

7 80 1	101	mh	1110	α	caa	
	101	пIJ	uic	u /	Jau	

Lmax (mm)	qz, perm kN/m	Fz,(qz,perm *L) kN
1000	32,00	32,00
2000	8,00	16,00
3000	2,51	7,53
4000	1,03	4,12
5000	0,50	2,50
6000	0,26	1,56
q.	[kN/m] as perm	anent load at L

Lmax (mm)	Fz, perm kN
1000	16,00
2000	7,90
3000	4,70
4000	2,50
5000	1,50
6000	0,99

Fz[kN] as permanent load at L/2

	2 point loads
Lmax (mm)	Fz, perm kN
1000	12,00
2000	5,90
3000	2,71
4000	1,52
5000	0,91
6000	0,58
Ez[kN] a	s permanent load at 1 /2 and 2*1 /3

Fz[kN] as permanent load at L/2 and 2*L/3

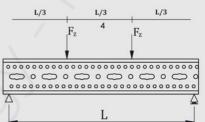
3 point loads		
Lmax (mm)	Fz, perm kN	
1000	8,00	
2000	3,90	
3000	1,96	
4000	1,10	
5000	0,65	
6000	0,40	

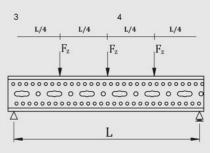
2 noint loodo

Fz

qz

L





Fz[kN] as permanent load at L/4, L/2 and 3*L/4

Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)

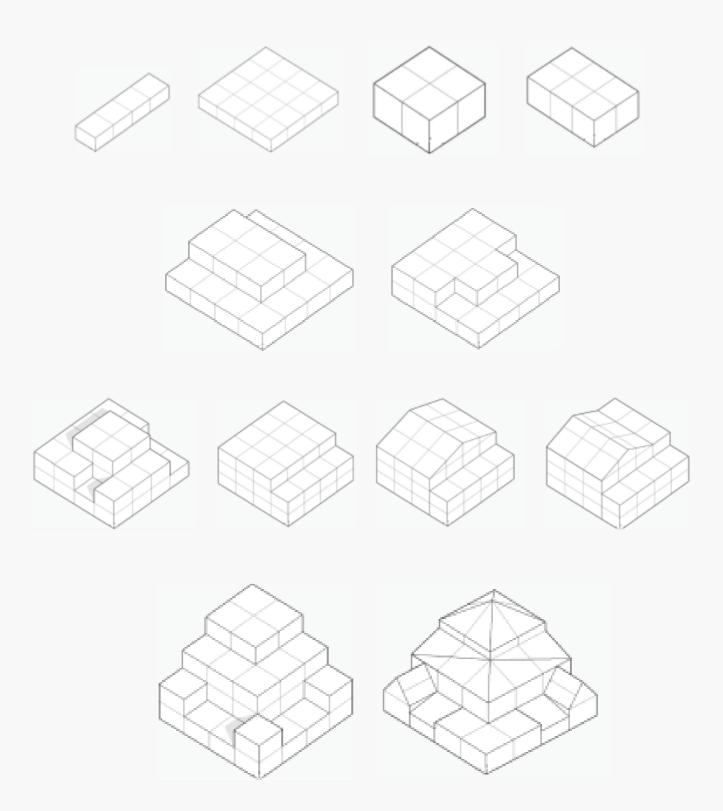
- Self weight considered.
- Safety factor is taken into account as 1,35.
- Deflection limit value is L/200.

1	Profile Size		Unit Weight	Cross Section Area	Torsional Section Modules	Torsion Moment of Inertia	Moment	of Inertia	Section	Modules
	(mm)		(kg)	(mm²)	(cm ³)	(cm ⁴)	(c	m⁴)	(CI	m³)
Н	В	S	X	А	Wp	lp	ly	lz	Wy	Wz
100	100	3	7,3	750,00	56,39	242,23	121,12	121,12	24,22	24,22

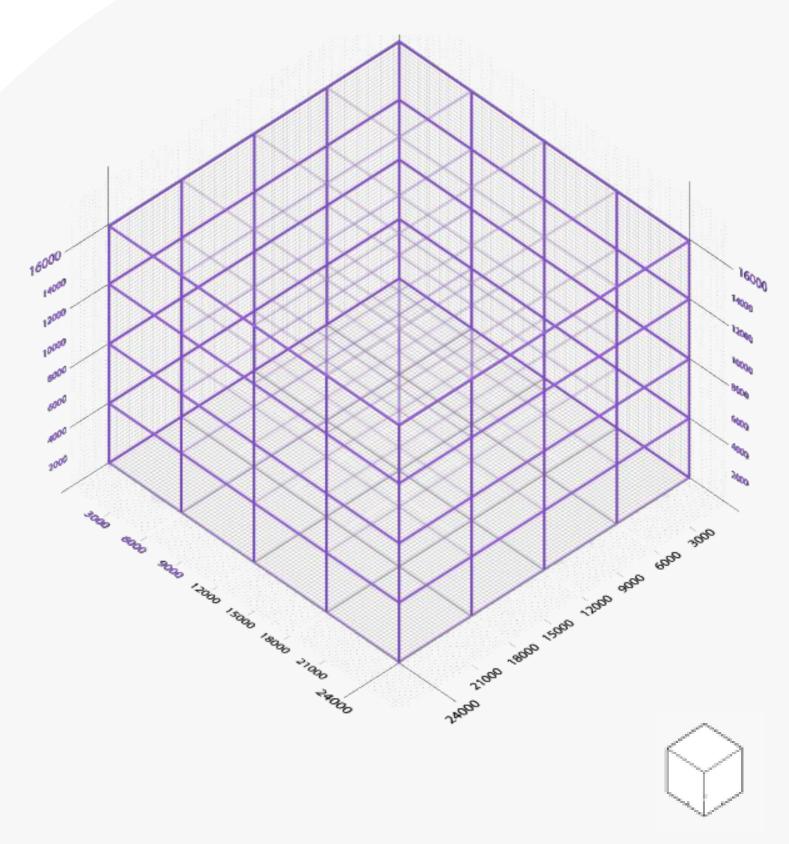
The section properties is determined according to the perforated section.



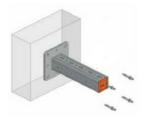
design as you like...



VXING 120 Series



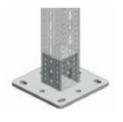
Base Module : 6.0 x 6.0 x 4.0 m



PMKS-HK-120 Promega Connection



PMKS-HK-120 -Promega-Promega Connection



PMKS-TTA-120 Promega Connection



PMKS-PRF-120-001



PMKS-KD-120 Promega Connection



PMKS-KD-121 Promega Connection



PMKS-PC-120 Promega Connection





PMKS-KD-101 Promega Connection



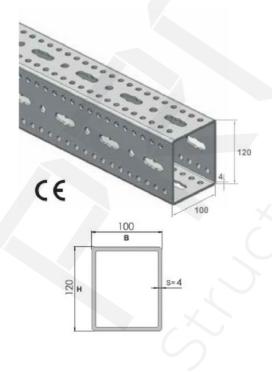
PMKS-foot-120/121 Promega Connection



PMKS-MFS-120/121 Promega Connection

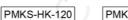
Connection Pieces











PMKS-KA-120

A-120

PMKS-KD-100 PMH

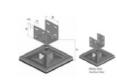




PMKS-KD-120



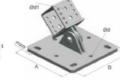
PMKS-KD-121



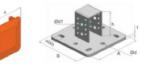
PMKS-FOOT-120/121



PMKS-MFS-120



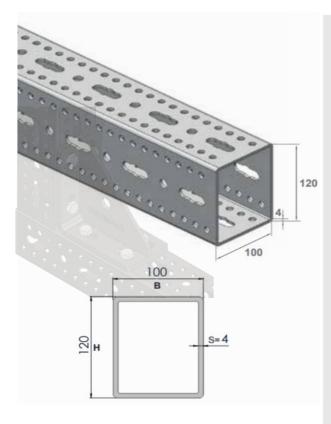




PMKS-MFS-121 PMKS-PC-

PMKS-PC-120 PMKS-TTA-120

Heavy Duty V-KING Series Structural System



Service

Promaks is modular kit structural system, provide easy installation with self-threading bolt and high load capacity due to its special design.



Materials and Type Steel S235 JR

Coating

EN 1461 Hot-dip galvanized 92µm minimum Hot-dip of galvanize.

Section Properties

Lmax (mm)	qz, perm kN/m	Fz,(qz,perm *L) kN
1000	53,00	53,00
2000	13,30	26,60
3000	4,70	14,10
4000	2,00	8,00
5000	0,95	4,75
6000	0,54	3,24

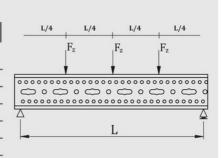
Lmax (mm)	Fz, perm kN
1000	26,00
2000	13,30
3000	8,08
4000	5,20
5000	3,20
6000	2,10

Fz[kN] as permanent load at L/2

2 point loads				
Fz, perm kN				
20,00				
9,90				
5,50	1			
3,00				
1,80				
1,20				
	Fz, perm kN 20,00 9,90 5,50 3,00 1,80			

Fz[kN] as permanent load at L/2 and 2*L/3

3 point loads				
Lmax (mm)	Fz, perm kN			
1000	13,40			
2000	6,60			
3000	3,90			
4000	2,20			
5000	1,30			
6000	0,86			



q,

L

Fz

L

L/3

4

Fz

L/3

Fz

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L/3

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Fz[kN] as permanent load at L/4, L/2 and 3*L/4

Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)

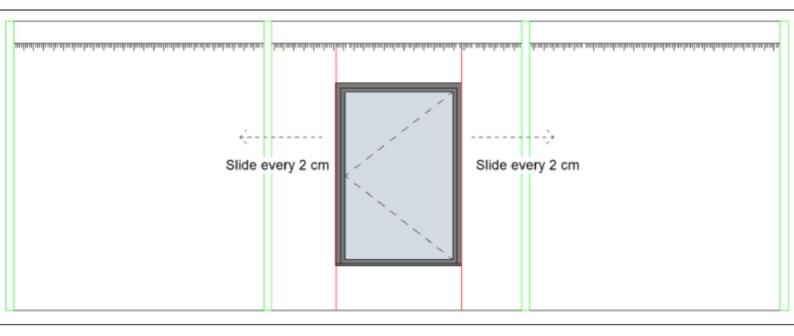
- Self weight considered.
- Safety factor is taken into account as 1,35.
- Deflection limit value is L/200.

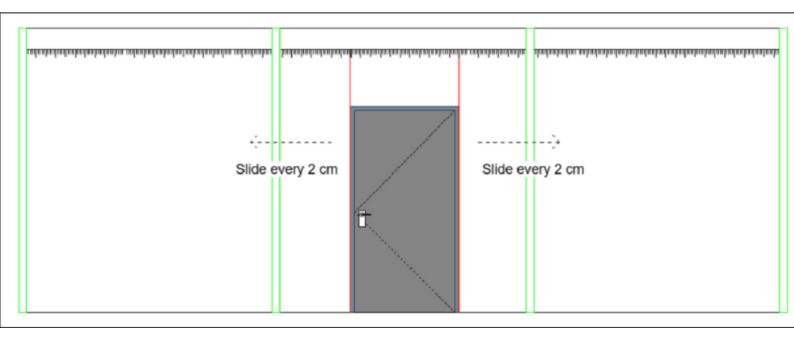
ŀ	Profile Siz	e	Unit Weight	Cross Section Area	Torsional Section Modules	Torsion Moment of Inertia	Moment	of Inertia	Section	Modules
	(mm)		(kg)	(mm²)	(cm ³)	(cm ⁴)	(c	m⁴)	(ci	m³)
н	В	S		A	Wp	lp	ly	lz	Wy	Wz
120	100	4	11	1147,00	89,02	435,10	241,92	193,18	40,32	38,64

The section properties is determined according to the perforated section.

WINDOWS DOORS

ProMAKS system flexibility allows for late stage design changes even on the construction site





					ДОБРОВОЛЬНАЯ СЕРТИФИКАЦИЯ ПР Системи избразонной святификания 1. Области избразонной в авис и Заранестранование области и в сели избразонное и с деностранование области и составляется и составляется и составляется и деностранование области и составляется и сос	ects Totasureesd scrept
CI	ERTIFICA	TE	WELDI	NG CERTIFICATE	СЕРТИФИКАТ СООТВЕТСТ	вия
of	of conformity the factory production conf	trol	Ce	rtificate No.: 0408-CPR-TA3643	N# 048000101.TR.C01160	
	No.: 0408-CPR-TA3643		Manufacturer	LÎNK YAPI SANAYÎ VE TÎCARET	Срок.лействия с 23.08.2021 во 22.08	8.2024
Council of 9 th March 2011 applies to the construction	lation 305/2011/EU of the Europe (the Construction Products Regular product omponents for Steel structu	tion or CPR), this certificate	문 	ANONİM ŞİRKETİ GEBZE ORGANİZE SANAYİ BÖLGESİ 1000.SK NO:1016 CAYIROVA, KOCELİ / TÜRKIYE	ОРГАН ПО СЕРТИФИКАЦИИ. Общества е огранячивный еззет Место назнаслявая (адре: коралического диці). 443300, РОССІЯ, Самаре	N7 1301485 ственностью «СамараТест
harmonised Standard EN 1090-1:2009+A1:2011	execution class Load bearing steel components with corrosion protection up	declaration method 1 and 3a acc. Tab. A.1 of	Factories	LINK YAPI SANAYI VE TICARET ANONIM ŞİRKETİ GEBZE ORGANIZE SANAYI BÖLGESİ 1000.5K N0:1016	yonan Symacora (and see appendication and references 4000). The Science of the second second second second second second second second Kanemacopound patient, ropa Canapa, yona Spinnov, 2001 [9]. Tenepose *7046206-01-79. Appendication NFOCC network (MILDOL 10) or 2 source environment openan as compromission NFOCC 131485.5441[DOL 10] or 2	ЮССИЯ, Самарская област комяаты 45, 46, 48, 4 Сандетельство о признани
L	to EXC 2 acc. EN 1090-2	EN 1090-1	NKAT	ÇAYIROVA, KOCELİ / TÜRKIYE	ПРОДУКЦИЯ Крепскимае изделия для монтакных работ, торговой марки «LINK», «Ромбеда»	803, OK 034-2014 (KIIEC 2008)
produced by or for	ANAYI VE TICARET AND	NIM SIRKETI	5 Standard	EN 1090-1:2009+A1:2011 EN 1090-2:2018	Cepselinadi suarryce	25.99.29
GEBZE ORGAN	NIZE SANAYI BÖLGESİ 1	000.SK NO:1016	Execution Classes	Up to EDC 2	COOTBETCTBYET TPEEOBABHRRM HOPMATHRHEIX 2085 MEHTOR	NOT THE ROAD
and produced in the manu LINK YAP	SANAYI VE TICARET ANON	IM SIRKETI	Welding Processes (According to 80-4000) Parent Metalls	135 – Metal Active Gas Welding 212 – Resistance Spot Winding 741 – Induction Welding	Соответствот постания постал павлах додо тыл тов	1120400801121141-00004731415499 1218163009-7314156-00,7314154-00 7314153009-7314156-00,7314154-00 002999000,7421509000,742190900 2419409000,7421509000,742190900 2419409000,7421919000,742190000
This certificate attests th	ANIZE SANAYI BÖLGESİ 100 CAYIROVA, KOCELİ / TÜRKI [*] ti all provisions concerning the ass described in Annex ZA of the stand	YE sesament and verification of	Parent Metals	Group 1.1 and 1.2 acc. to CEN ISO/TR 15608 and EN 1009-2, Table 2 and 3 Group 8.1 acc. to CEN ISO/TR 15608 and EN 1090-2, Table 4	HIFOTOBHTE:Ib «LINK YAPI SANAYI VE TICARET A.S.» Юридический адрес: Geber 0582 Mahallesi1000. Cadde Nat1016/1 Cayleova Kov	113000000,1314290000,13004/990 7210611000 caela/Typuzes
under system 2+ are appl	EN 1090-1:2009+A1:2011		Coordinator	Batuhan UNCU (WE), 17/05/1990 Level (C) acc. to EN 1090-2, 7.4.3	СЕРТИФИКАТ ВЫДАН Общество с ограниченной ответственностью «Мар Юридический адрес: 11704], город Москва, члина Адмирила Редиска, дон 4, то	
	ed and that ion control fulfills all the pre	scribed requirements	Deputies	-	oduc 613 Texebox: 74954814150. E-mail: MirTekhnologivilizmail.com	
	set out above.		Confirmation	It is confirmed that all procedures for the execution	ИНН. 7727346710	
methods and/or factory standard, used to assess and the product, and t	ssued on 28.07.2020 and will remo production control requirements is the performance of the declared ch he manufacturing conditions in t	ncluded in the harmonized aracteristics, do not change,	Remarks	and supervision of welding work are available. This welding certificate is only valid within the scope of and in connection with FPC Certificate No.: 0408-	НА ОСНОВАНИИ Протоволя колитаний № 195-21.08 от 20.08.2021 года, ва интром Энектронсканскион надений «Стройноветики» Закрытого включерно производственный центр «СТРОЙНОВИТАК»	азанного вспытательным го общества Научно-
signification. The next sur	veillance is due on 27.07.2023.	SA SERVICE	C P	CPR-TA3643 28.07.2020 (thei day of issue)	дополнительная информация Схем серезфикацие Эс	
		(The B	Next Surveillance	27.07.2023	Prosecures opens Church	A.C. Jassense
Leonding	02.08.2022	Mastnak Alexader DidUng	Leonding	02.08.2022 Mestnak Mextender	(Carry Trees) Treeser	Construction, deserves <u> O.O. Tyrfaxon</u> memorynamical, deserves
PLACE	DATE	CERTIFICATION BODY	TÜV AUSTRIA	CATE CERTIFICATION BOOY	Abases	



Certificate of Compliance

This certificate is issued for the following:

Seismic Sway Brace Components for Pipe, Tubing and Conduit (see details attached)

Prepared for:

Manufactured at:

Link Yapi Sanayi Ve Ticaret AS Gebze Organize Sanayi Bolgesi 1000 Sokak No 1016 Cayirova, Kocaeli 41400 Turkey Link Yapi Sanayi Ve Ticaret AS Gebze Organize Sanayi Bolgesi 1000 Sokak No 1016 Cayirova, Kocaeli 41400 Turkey

Approval Granted: November 12, 2019

FM Approvals Class: 1950 (September 2013)

Approval Identification: 0003062495

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.



David Fuller

VP - Manager of Fire Protection FM Approvals 1151 Boston-Providence Turnpike Norwood, MA 02062

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TÜV NORD TURKEY Industrial Services

	Inspec	tion Report	
INSPECTOR	Özgün Ozan TÜRK	TÜV ORDER NO.	211445326
PLACE & DATE	ITÜ Kompozit ve Yapı Lab03.12.2019	REPORT NO	RP-211445326-03
CUSTOMER	Link Yapı San. ve Tic. A.Ş.	MANUFACTURER	N/A
CUSTOMER ORDER NO	-	MANUFACTURER ORDER NO	
INSPECTION DATES	03.12.2019	MANUFACTURER CONTACT	-
CUSTOMER CONTACTS	Ömer Cılız	HARD STAMP	Yes No
REPORT TYPE	🖂 Initial 🗌 Inter	rm Final	
ANNEXES	X Yes No		

SUBJECT OF INSPECTION

REPORT NO: RP-211445326-03

Prestreched steel wire ropes for Seismic Brace System were subjected to tensile test under dynamic loads by following the test procedure in ANSUASHRAE Standart 171-2017 to rate the capacity of seismic and wind restaints of ropes and seismic link system which Link Yapa San. ve Tik. A.Ş. has (See Table 1.) and to evaluate the minimizing ability about the differential movement between a component and the supporting building structure during an earthquake or a high-wind over by determining the maximum loads the single directional single axis restraint can withstand without breakage or excessive deformation.

* ANSI/ASHRAE Standart 171-2017 was accepted as guide during inspection.

Model	Diameter (mm)	Serial Number
STB 11	1.6	0334.1.STB.511G
	2.4	0334.1.STB.512G
STB 13	3.2	0334.1.STB.513G
STREET.	4.9	0114 LSTR 515G

Table 1. Product Tested

PROJECT PROGRESS

Three sample of each model were subjected to test for each angle 30°, 45° and 60° by using fixtures to arrange the angles. Anticipated maximum capacity loads (See Table 2) were declared by Link Yapt San. ve Tic. AS, Conformity of loading cycles and frequencies were controlled and approved for each model acc. to ANSU/ASHRAE Standart 177-2017. Load application frequency was seen as 0.1 Hz as indicated in the standart. Loadings were done in periodic and continuous cycles. It was seen that Link Yapt San. ve Tic. A.Ş followed the loading steps below as indicated in the standart.

Tüv Teknik Kontrol ve Belgelendirme A.Ş Ayarmadore Cad. Parar Sok. Itarili Pixus No 2-4, Kat 4, Gayrenepe TR-34349 Beşiktaş, baabul Tel : +90212 2902642 Pax : +90212 293384 e-mail : <u>two-nordsitne-tarkey.com</u> F-156-R2-ENG Serds 1/4

Inspection Report

TÜV AUSTRIA

ΤŪ AUSTRIA

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Address of the second s

22-IS-0424

PROLINK G PROFILE & PLGMK EASY-LOCK SEISMIC TESTS

INSPECTION REPORT

Inspection Requesting:

Inspection Address:

LINK YAPI SAN. VE TIC. A.Ş. Gebze Organize Sanayi Bölgesi, 1000. Sokak, NO:1016, Çayırova - Kocaeli

SABANCI ÜNİVERSİTESİ İstanbul Teknoloji Geliştirme Bölgesi, Teknopark Bulvarı, No:1 34906 Pendik /İSTANBUL

Inspection Dates: 28.03.2022

23.06.2022

22-IS-0424-TAT-22-0139

Report No: Report Date:

Report Published:

TÜV AUSTRIA TURK Belgelendirme Eğitim ve Gözetim Hizmetleri Ltd. Çamlık Mah. İkbal Cad. Dinç Sok. No:28/1 Ümraniye / İstanbul

FRM-IND-002 Revision:01 / 09.03.2020





ETA 18/0441 of 03/06/2018

European Technical Assessment

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Technical Assessment Body issuing the ETA: Technical and Test Institute for Construction Prague Trade name of the construction product Product family to which the construction Product area code: 33 product belongs Product area code: 33 Torque controlled expansion anchor for use in uncracked concrete LINK YAPI SAN. VE TIC. AŞ. GOSB 1000 CD. NO:1016 ÇAYIROVA – GEBZE KOCAELİ TURKEY Manufacturer Manufacturing plant Manufacturing Plant No 2 This European Technical Assessment 10 pages including 8 Annexes which form an integral part of this assessment This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of EAD 330232-00-0601 Mechanical fasteners for use in concrete

This version is a corrigendum to ETA 18/0441 of 03/06/2018

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