

## PROMINKS

B.01 - Prefab & Modular



### Introduction

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

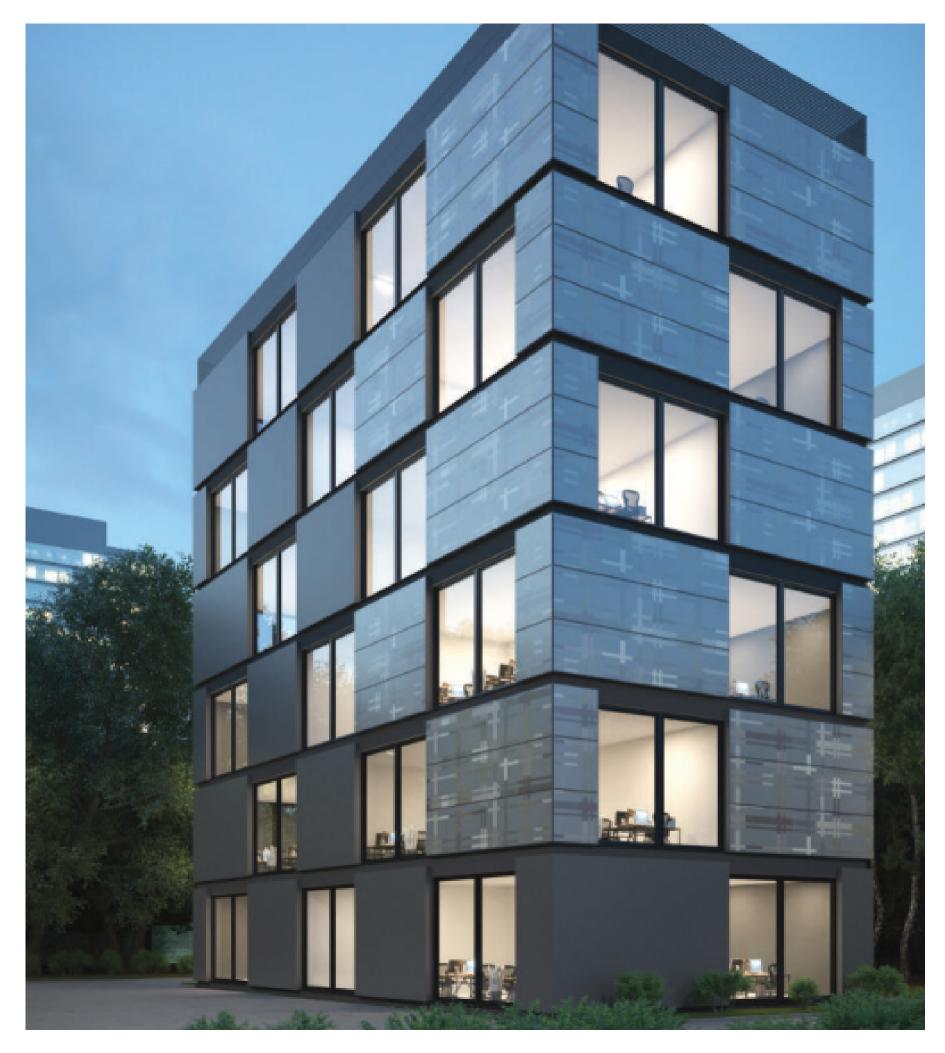
We offer our range of innovative systems available as flat packed kits, complete with everything you need to build to an exterior finish, freeing you up to focus on the design & finish of the interior to your client's specifications.

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



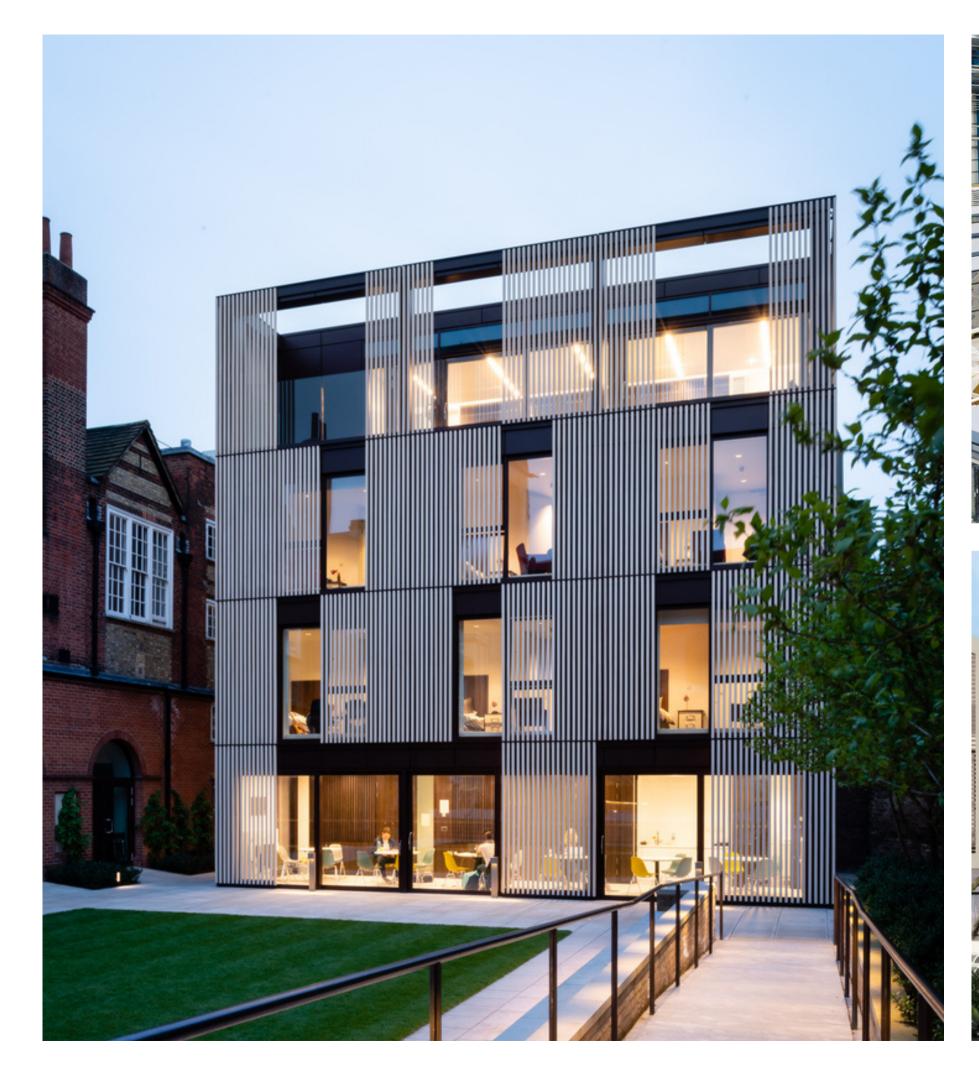


















Materials and Type

Steel S235 JR

### Coating

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

VCORE 80 Series
VLINE 100 Series
VKING 120 Series





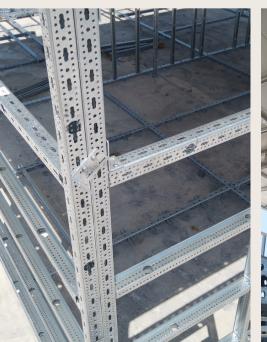










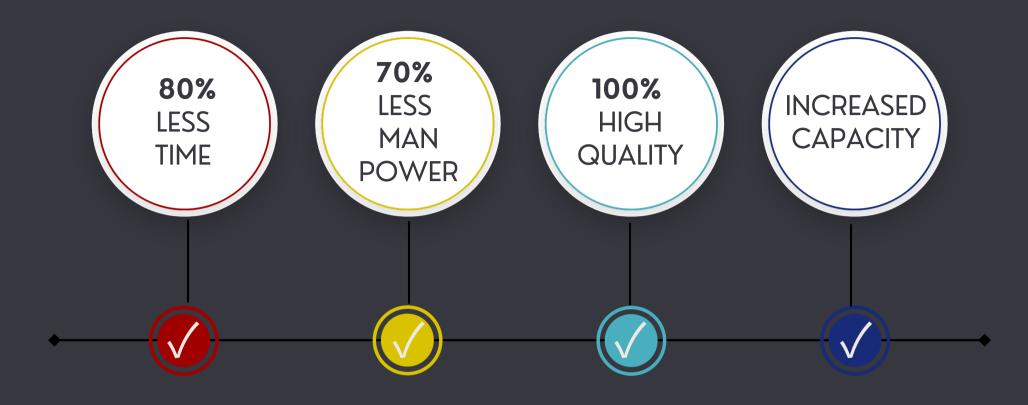






# Working together

8



Making life easier for your production...





### **B.01 - PREFAB & MODULAR**

### **KIT STRUCTURE SYSTEMS SERIES DATA SHEETS**







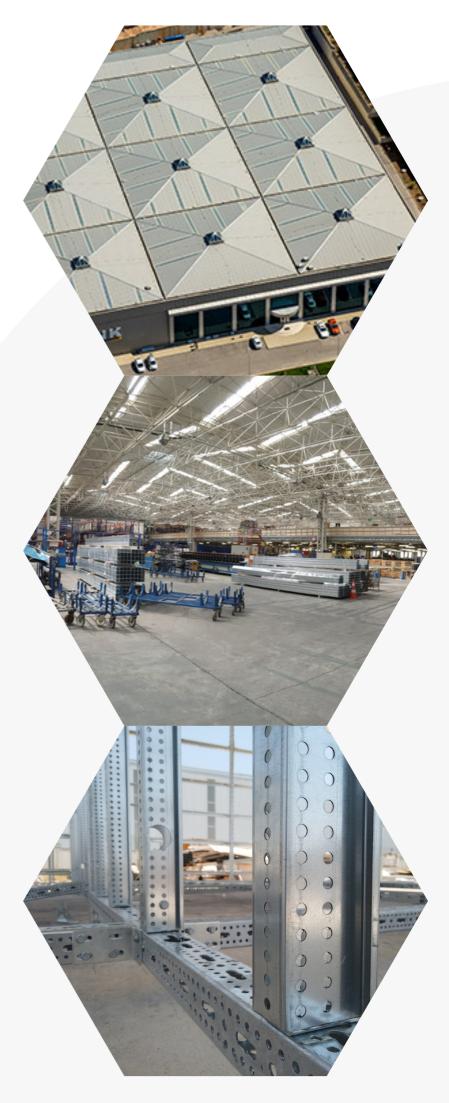


### About ProMAKS

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

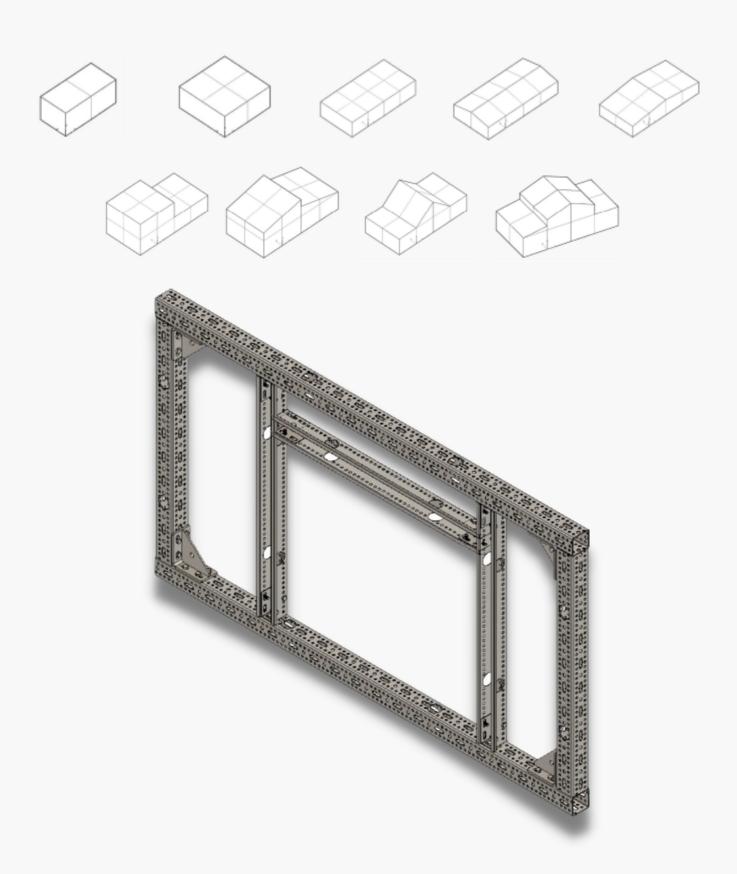
We offer our range of innovative systems available as flat packed kits, complete with everything you need to build to an exterior finish, freeing you up to focus on the design & finish of the interior to your client's specifications.

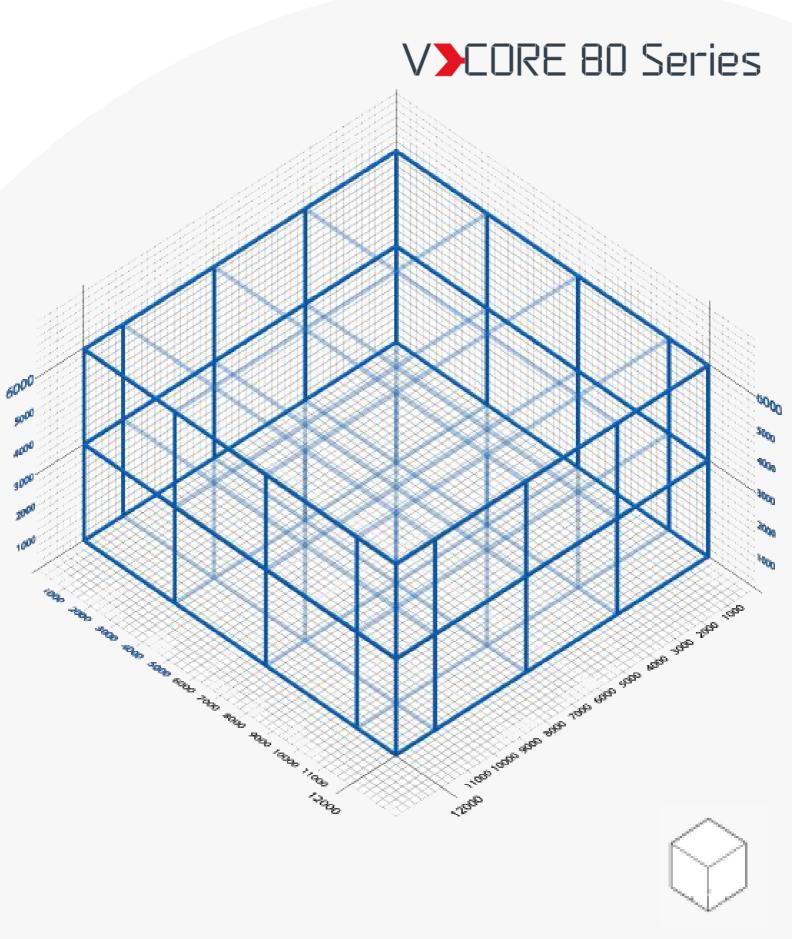
- Ventilated Structure
- Energy Efficiency
- Smart Connection
- Quick and Easy Assembly
- Flexible Design
- Effective Insulation
- Easy to integrate flexible
- Versatile Structure



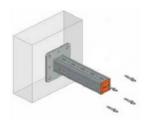


### design as you like...





Base Module: 3.5 x 3.5 x 3.0 m



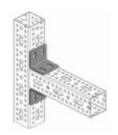
PMKS-HK-080 Promega Connection



PMKS-HK-080 -Promega-Promega Connection



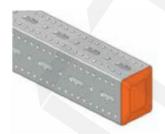
PMKS-TTA-080 Promega Connection



PMKS-KD-080 Promega Connection



PMKS-KD-081 Promega Connection



PMKS-PC-080 Promega Connection

### Smart Connection



PMKS-KD-082 Promega Connection



PMKS-KD-118 Promega Connection

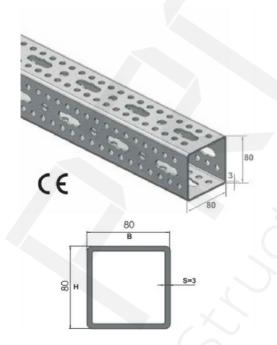


Connection Pieces

PMKS-MFS-080/081 Promega Connection

### ProMAKS Profile

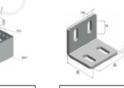
### PMKS-PRF-080-001



PMKS-HK-080



PMKS-KA-080



PMKS-KD-080



PMKS-KD-082



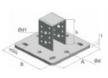
PMKS-KD-081



PMKS-KD-118



PMKS-PC-080



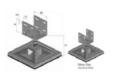
PMKS-TTA-080



PMKS-MFS-080

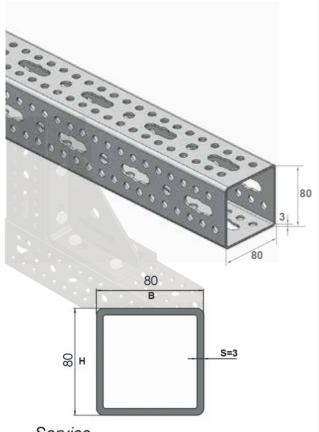


PMKS-MFS-081



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.



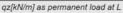
### Materials and Type

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		



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

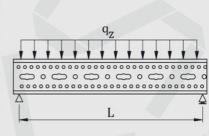
Fz[kN] as permanent load at L/2

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

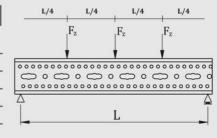
3 point loads		
Lmax (mm)	Fz, perm kN	
1000	4,50	
1500	3,00	
2000	2,00	
2500	1,20	
3000	0,87	
3500	0,60	

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



	Fz	
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Δ	00000000000	<u> </u>
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L/3	L/3	L/3
	F <sub>z</sub> 4	Fz
	<b>Y</b>	<u> </u>
0.00	000	0 🔘 0 🔘 0
Δ	000000000	<u> </u>
	L	



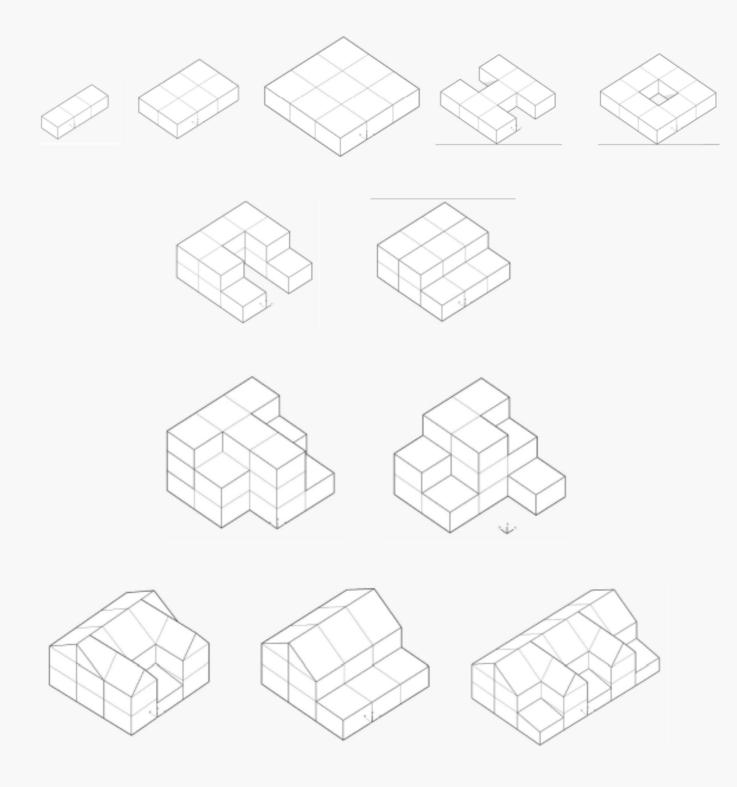
- Basis of calculation of the load capacity is accordence with Eurocode 3 (EN 1993)
- Self weight considered.
- Safety factor is taken into account as 1,35.
- Deflection limit value is L/200.

### Section Properties

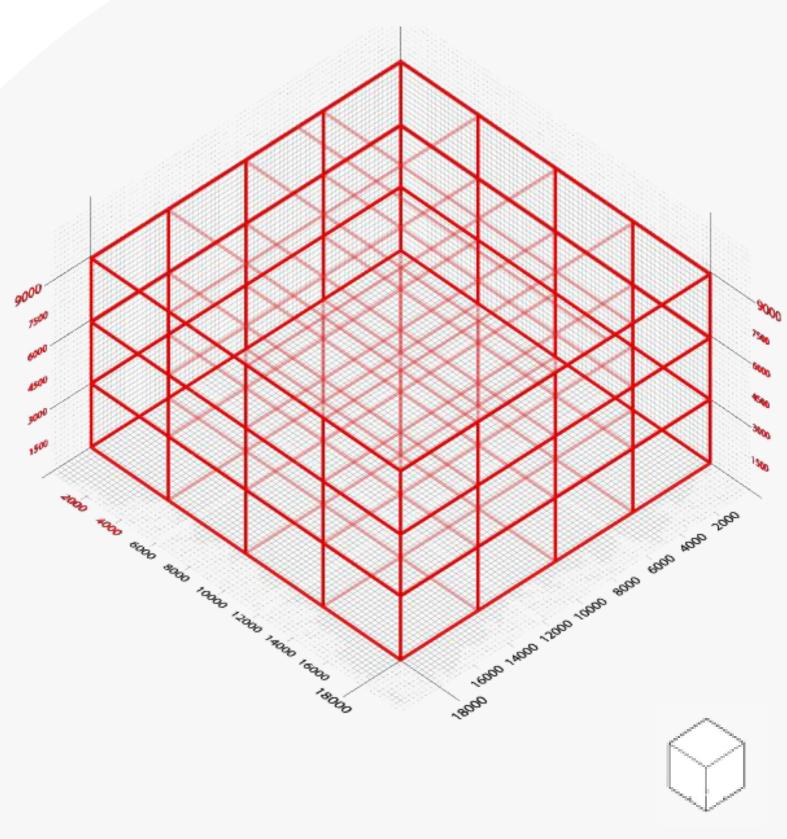
F	Profile Siz	e	Unit Weight	Cross Section Area	Torsional Section Modules	Torsion Moment of Inertia	Moment	of Inertia	Section	Modules
	(mm)		(kg)	(mm²)	(cm³)	(cm <sup>4</sup> )	(c	m <sup>4</sup> )	(cı	m³)
Н	В	S		Α	Wp	lp	ly	lz	Wy	Wz
80	80	3	5,74	510,00	35,51	108,82	54,41	54,41	13,60	13,60

### V>LINE 100 Series

### design as you like...

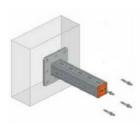


### VXINE 100 Series



Base Module: 4.5 x 4.5 x 3.0 m

### Smart Connection



PMKS-HK-100 Promega Connection

PMKS-HK-100

Connection

-Promega-Promega



PMKS-KD-120 Promega Connection



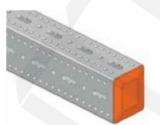
PMKS-KD-101 Promega Connection



PMKS-KD-121 Promega Connection



PMKS-foot-100/101 Promega Connection



PMKS-PC-100 Promega Connection



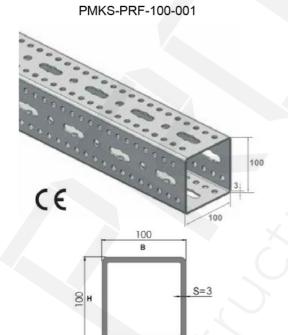
PMKS-MFS-100/101 Promega Connection

### ProMAKS Profile

PMKS-TTA-100

Promega Connection

### Connection Pieces



PMKS-HK-100



PMKS-KA-100



PMKS-KD-100



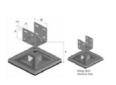
PMKS-KD-101



PMKS-KD-120



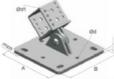
PMKS-KD-121



PMKS-FOOT-100/101

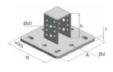


PMKS-MFS-100



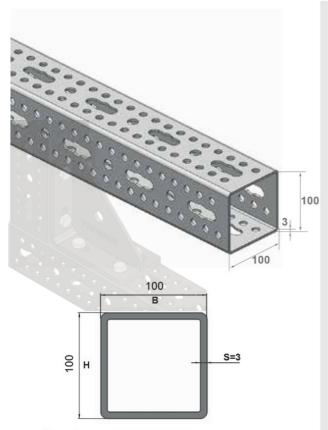
PMKS-MFS-101





PMKS-PC-100 PMKS-TTA-100

### 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.



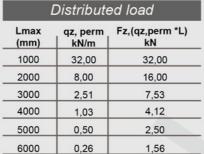
### Materials and Type

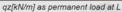
Steel S235 JR

### Coating

EN 1461 Hot-dip galvanized

92µm minimum Hot-dip of galvanize.





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Point load		
Fz, perm kN		
16,00		
7,90		
4,70		
2,50		
1,50		
0,99		
	Fz, perm kN 16,00 7,90 4,70 2,50 1,50	

Fz[kN] as permanent load at L/2

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	L	

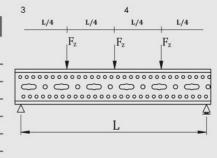
2 point loads		
Lmax (mm)	Fz, perm kN	
1000	12,00	
2000	5,90	
3000	2,71	
4000	1,52	
5000	0,91	
6000	0.58	

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

L/3	L/3	L/3
	F <sub>z</sub> 4	Fz
	•	
00000000	0000000000	000000000
0.0	0000	000
00000000	0000000000	000000000
Δ		
	L.	

3 p	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					

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



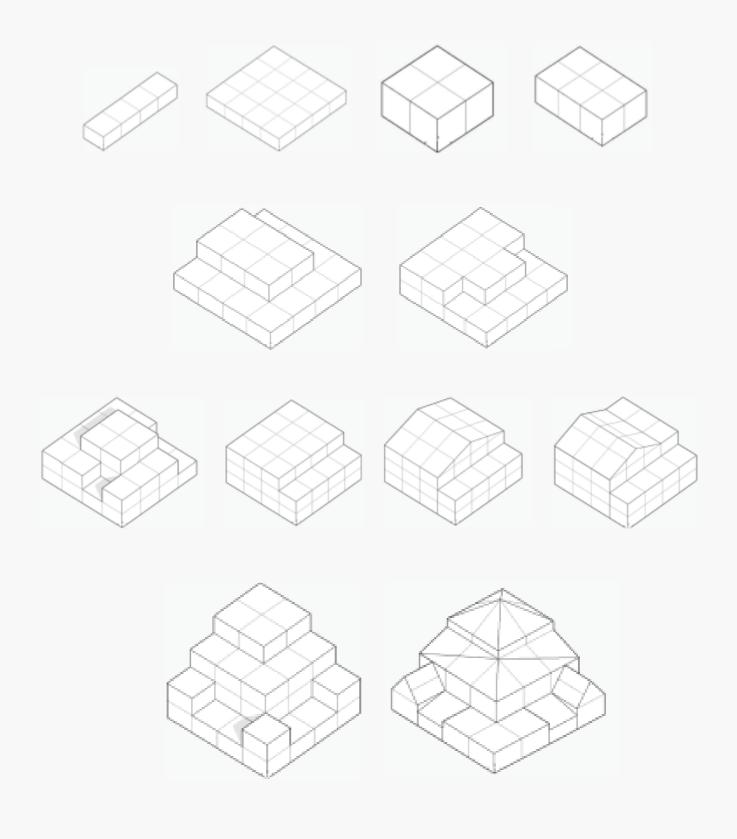
- Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)
- Self weight considered.
- Safety factor is taken into account as 1,35.
- Deflection limit value is L/200.

### Section Properties

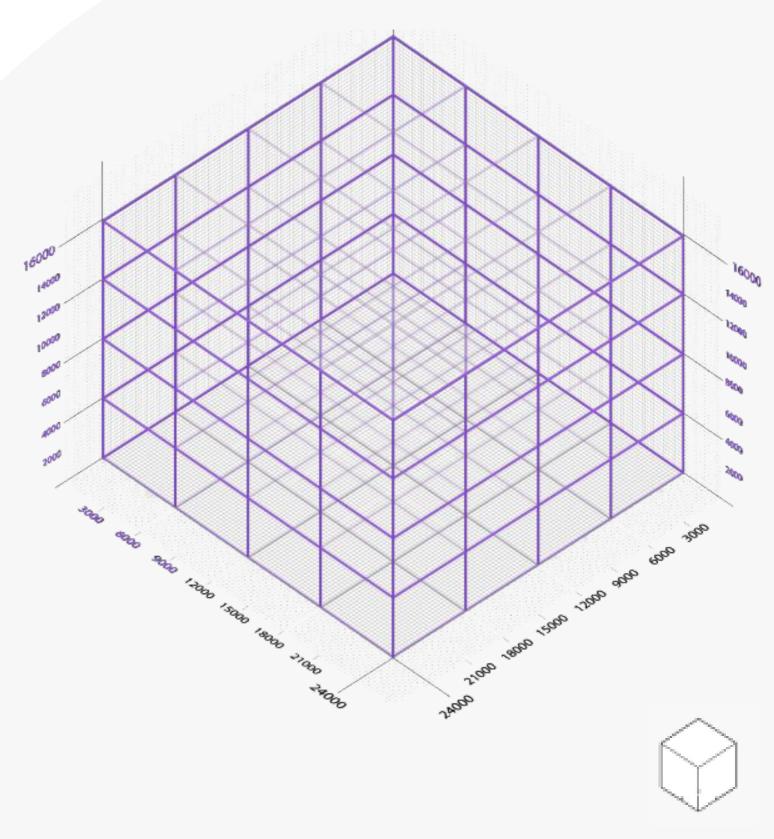
	Profile Siz	ze .	Unit Weight	Cross Section Area	Torsional Section Modules	Torsion Moment of Inertia	Moment	of Inertia	Section	Modules
	(mm)		(kg)	(mm²)	(cm³)	(cm <sup>4</sup> )	(c	m <sup>4</sup> )	(c	m³)
Н	В	S	X	Α	Wp	lp	ly	lz	Wy	Wz
100	100	3	7,3	750,00	56,39	242,23	121,12	121,12	24,22	24,22

### VXING 120 Series

### design as you like...

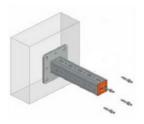


### VXING 120 Series



Base Module: 6.0 x 6.0 x 4.0 m

### Smart Connection



PMKS-HK-120 Promega Connection



PMKS-HK-120 -Promega-Promega Connection



PMKS-TTA-120 Promega Connection



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

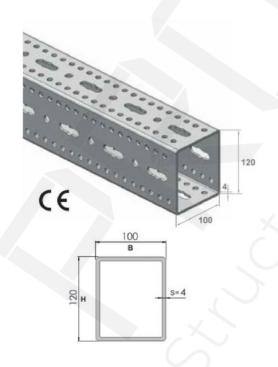


Connection Pieces

PMKS-MFS-120/121 Promega Connection

### ProMAKS Profile

### PMKS-PRF-120-001



PMKS-HK-120



PMKS-KA-120



PMKS-KD-100



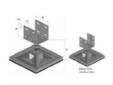
PMKS-KD-101



PMKS-KD-120



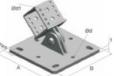
PMKS-KD-121



PMKS-FOOT-120/121



PMKS-MFS-120

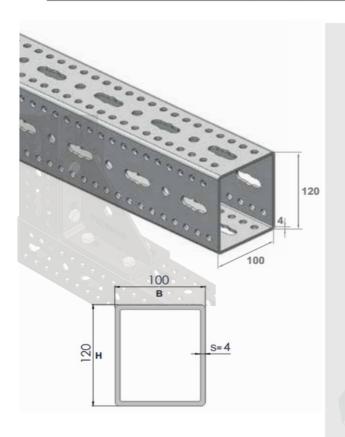


PMKS-MFS-121



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.



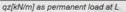
Materials and Type

Steel S235 JR

### Coating

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

Distributed load						
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				



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Point load					
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

						F,				
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0	0	0	0		0	0	0	0	0	0
000	00	000	00	000	00	000	00	000	000	0000
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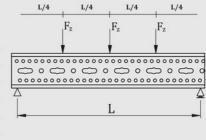
2 point loads						
Lmax (mm)	Fz, perm kN					
1000	20,00					
2000	9,90					
3000	5,50	/				
4000	3,00	/				
5000	1,80					
6000	1,20					

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

1	L/3		L/3	L	/3
	/	Fz	4	Fz	
				••••	
				000000	
$\triangle$					4
- N - 1			L		

3 p	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					

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



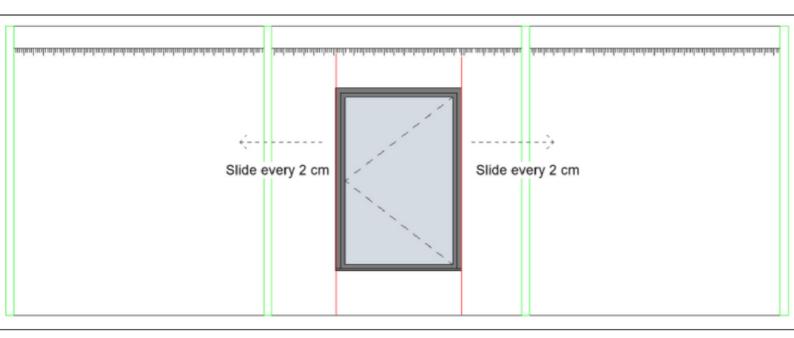
- Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)
- Self weight considered.
- Safety factor is taken into account as 1,35.
- Deflection limit value is L/200.

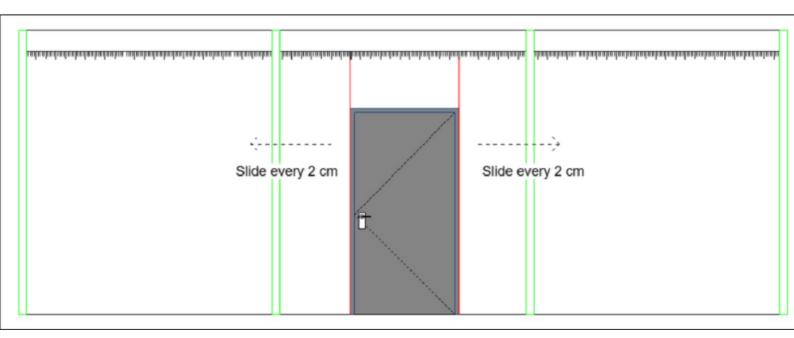
### Section Properties

	Profile Size		Unit Weight	Cross Section Area	Torsional Section Modules	Torsion Moment of Inertia	Moment	of Inertia	Section	Modules
	(mm)		(kg)	(mm²)	(cm³)	(cm <sup>4</sup> )	(c	m <sup>4</sup> )	(c	m³)
Н	В	S		Α	Wp	lp	ly	lz	Wy	Wz
120	100	4	11	1147,00	89,02	435,10	241,92	193,18	40,32	38,64

# WINDOWS DOORS

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







### **CERTIFICATE**

TŪ✓

No.: 0408-CPR-TA3643

Regulation 305/2011/EU of the European Parliament and of the 2011 ( the Construction Products Regulation or CPR), this certificate ofton product

#### ents for Steel structures

harmonised Standard	execution class	declaration method
EN 1090-1:2009+A1:2011	Load bearing steel components with corrosion protection up	1 and 3a acc. Tab. A.1 of
	to EXC 2 acc. EN 1090-2	EN 1090-1

LİNK YAPI SANAYİ VE TİCARET ANONİM ŞİRKETİ GEBZE ORGANİZE SANAYİ BÖLGESİ 1000.SK NO:1016 ÇAYIROVA, KOCELİ / TÜRKIYE

suced in the manufacturing plant (s)

LINK YAPI SANAYÎ YE TÎCARET ANONÎM ŞÎRKETÎ
GEBZE ORGANÎZE SANAYÎ BÖLGESÎ 1000.SK NO:1010
ÇAYIROVA, KOCELÎ / TÜRKIYE

erificate attests that all provisions concerning the assessmoy of performance described in Annex ZA of the standard (s

EN 1090-1:2009+A1:2011











### **Certificate of Compliance**

This certificate is issued for the following:

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

#### Prepared for:

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

#### Manufactured at:

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

FM Approvals Class: 1950 (September 2013)

Approval Identification: 0003062495 Approval Granted: November 12, 2019

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.



Member of the FM Global Group

David Fuller VP - Manager of Fire Protection FM Approvals

1151 Boston-Providence Turnpike Norwood, MA 02062





### TÜV NORD TURKEY Industrial Services

Inspection Report

	mspee	tion recport	
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.S.	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		rm Final	
ANNEXES	⊠ Yes □ No		

#### · SUBJECT OF INSPECTION

Prestreched steel wire ropes for Seismic Brace System were subjected to tensile test under dynamic loads by following the test peocedure in ANSI/ASHRAE Standart 171-2017 to rate the capacity of seismic and wind restaints of ropes and seismic link system which Link Yapa San. ve Tic, 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 event 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
	4.9	0334 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 Yapı San. ve Tic. A.S. Conformity of loading cycles and frequencies were controlled and approved for each model acc. to ANSI/ASHRAE Standart 172-2017. Load application frequency was seen as 0.1 Bz as indicated in the standart. Loadings were done in periodic and continuous cycles. It was seen that Link Yapı San. ve Tic. A.Ş followed the loading steps below as indicated in the standart.

Tüv Teknik Kontrol ve Belgelendirme A.Ş. Ayazınadov Cal. Pazer Sok. Barti Plaza No 2-4, Kat 4, Gayretige TR-34349 Beşiktaş, İstanbul Tel: +90212 2902642 Fix: +90212 293384 e-mill: <u>pre-nord/itme-barkey.com</u>

Inspection Report TŪ\ TÜV AUSTRIA

#### 22-IS-0424

### **PROLINK G PROFILE** PLGMK EASY-LOCK SEISMIC TESTS

#### INSPECTION REPORT

LINK YAPI SAN. VE TIC. A.Ş.

Gebze Organize Sanayi Bölgesi, 1000. Sokak, NO:1016, Çayırova - Kocaeli

Inspection Address: SABANCI ÜNİVERSİTESİ

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

Inspection Dates: 28.03.2022

Report No: 22-IS-0424-TAT-22-0139

Report Date: 23.06.2022

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#### **European Technical** Assessment

### ETA 18/0441

for Construction Prague	ETA: Technical and Test Institute
Trade name of the construction product	LT

Product family to which the construction | Product area code: 33 | Torque controlled expa

LINK YAPI SAN. VE TIC. AŞ. GOSB 1000 CD. NO:1016 ÇAYIROVA – GEBZE KOCAELİ TURKEY

Manufacturing plant

Manufacturing Plant No 2

This European Technical Assessment

10 pages including 8 Annexes which form an integral part of this assessment

EAD 330232-00-0601 Mechanical fasteners for use in concrete

This European Technical Assessme issued in accordance with regulatio (EU) No 305/2011, on the basis of

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.



### SERTİFİKA

#### LİNK YAPI SANAYİ VE TİCARET ANONİM ŞİRKETİ

Gebze Organize Sanayi Bölgesi 1000.Sokak No:1016 Çayırova / Kocaeli / Türkiye

### ISO 9001:2015

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