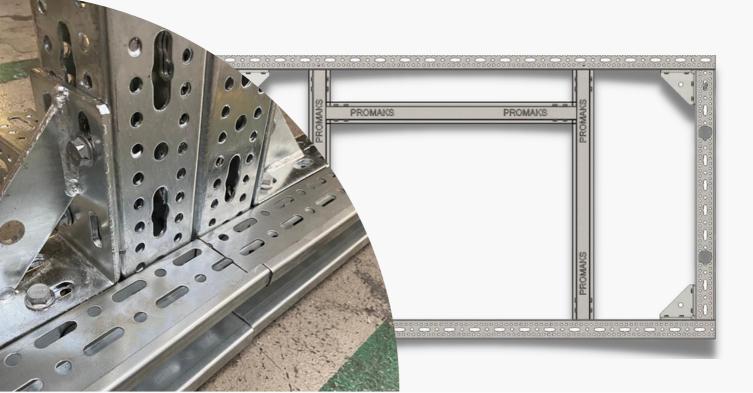


R.01 - ROOF & CEILING

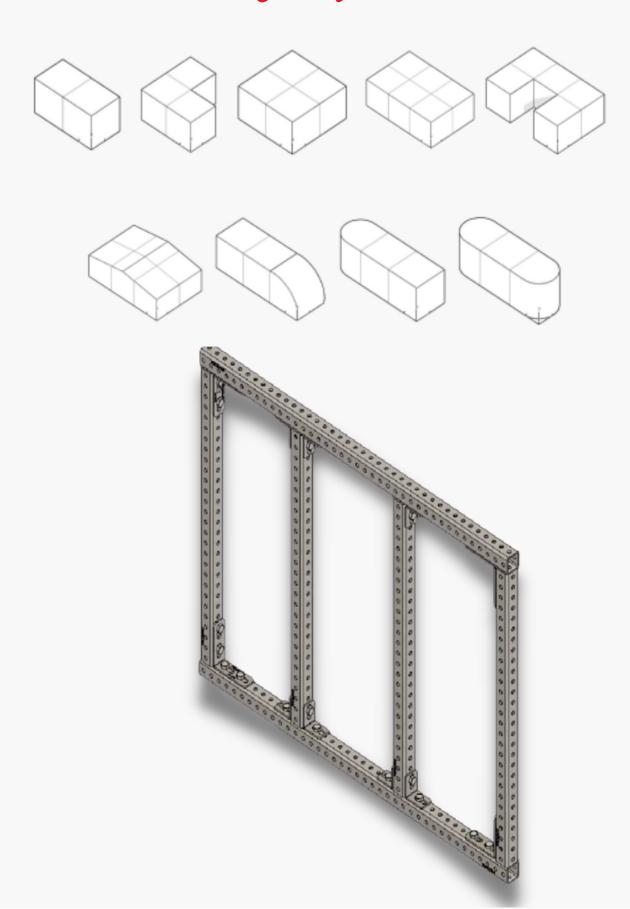
KIT STRUCTURE SYSTEMS SERIES DATA SHEETS

VSELF 40 Series VSEASY 50 Series VSCORE 80 Series

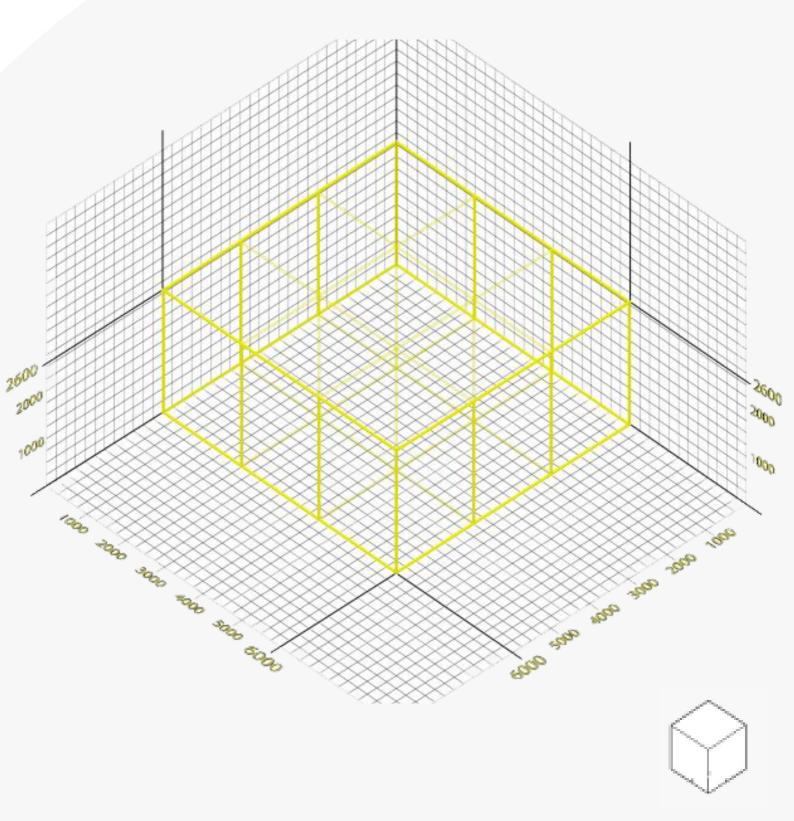
V>LINE 100 Series V>KING 120 Series V>GIANT 150 Series







V>SELF 40 Series



Base Module : 2.0 x 2.0 x 2.6 m

Smart Connection



PMKS-KD-450

Promega Connection



PMKS-KD-451 Promega Connection



PMKS-KD-452

Promega Connection



PMKS-MFS-040/050 Promega Connection PMKS-PC-050 PMKS-TTA-040/050 Promega Connection Promega Connection



PMKS-TDE-040/050 Promega Connection



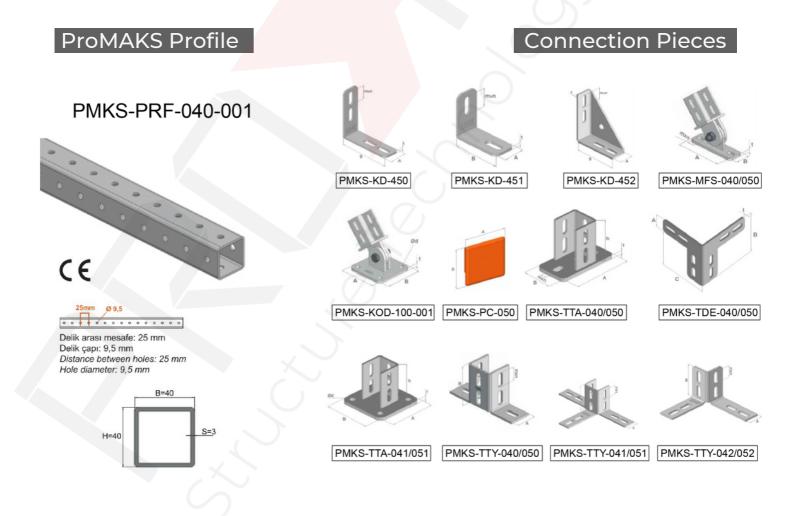
PMKS-TTA-041/051 Promega Connection



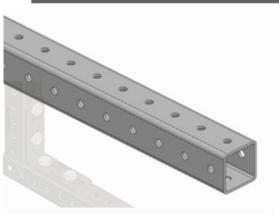
PMKS-TTY-040/050 Promega Connection



PMKS-TTY-041/051 Promega Connection PMKS-TTY-042/052 Promega Connection

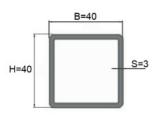


Medium Duty V-SELF Series Structural Systems



25mm Ø 9,5

Distance between holes: 25 mm Hole diameter: 9,5 mm



Service

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



Materials and Type

Steel S235 JR

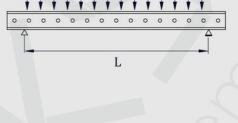
Coating

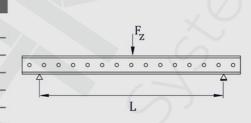
EN 1461 Hot-dip galvanized 92µm minimum Hot-dip of galvanize.

| Distributed load | | | | | |
|------------------|------------------------|-------|--|--|--|
| Lmax (mm) | Fz, (qz,perm *L) kN | | | | |
| 500 | 20,00 | 10,00 | | | |
| 1000 | 4,15 | 4,15 | | | |
| 1500 | 1,20 | 1,80 | | | |
| 2000 | 0,50 | 1,00 | | | |
| 2500 | 0,25 | 0,63 | | | |

qz[kN/m] as permanent load at L

| Point load | | | | | |
|--------------|----------------|--|--|--|--|
| Lmax (mm) | Fz, perm kN | | | | |
| 500 | 4,80 | | | | |
| 1000 | 2,40 | | | | |
| 1500 | 1,15 | | | | |
| 2000 | 0,63 | | | | |
| 2500 | 0,37 | | | | |



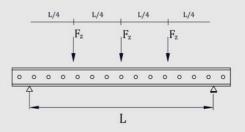


Fz[kN] as permanent load at L/2

| 2 Point loads | | | | | |
|---------------|----------------|--|--|--|--|
| Lmax (mm) | Fz, perm kN | | | | |
| 500 | 3,70 | | | | |
| 1000 | 1,50 | | | | |
| 1500 | 0,65 | | | | |
| 2000 | 0,36 | | | | |
| 2500 | 0,22 | | | | |
| | | | | | |

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

| 3 Point loads | | | | | |
|----------------------------|----------------|--|--|--|--|
| L <mark>max</mark> (mm) | Fz, perm kN | | | | |
| 500 | 2,5 | | | | |
| 1000 | 1,10 | | | | |
| 1500 | 0,48 | | | | |
| 2000 | 0,26 | | | | |
| 2500 | 0,16 | | | | |



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.

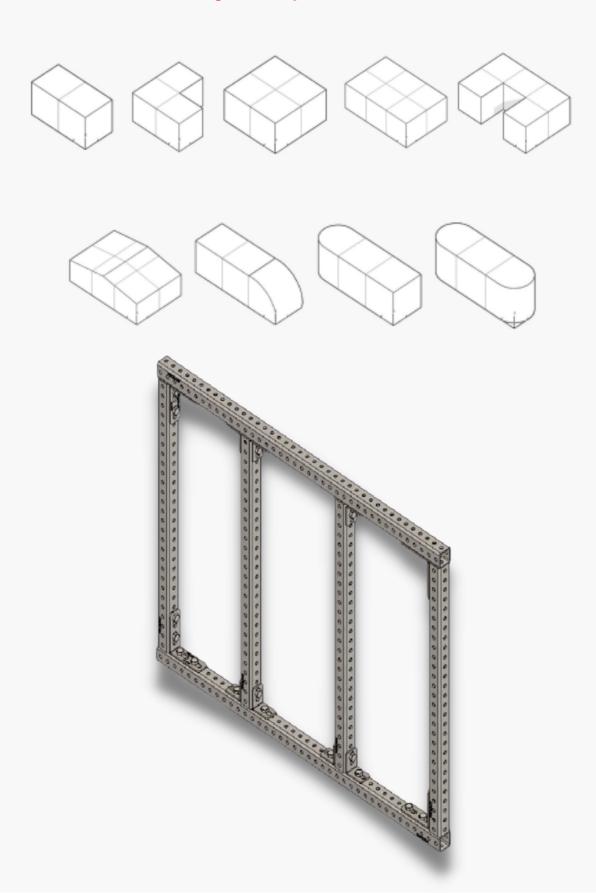
- Safety factor is taken iinto account as 1,35.
- Deflection limit value is L/200.

Section Properties

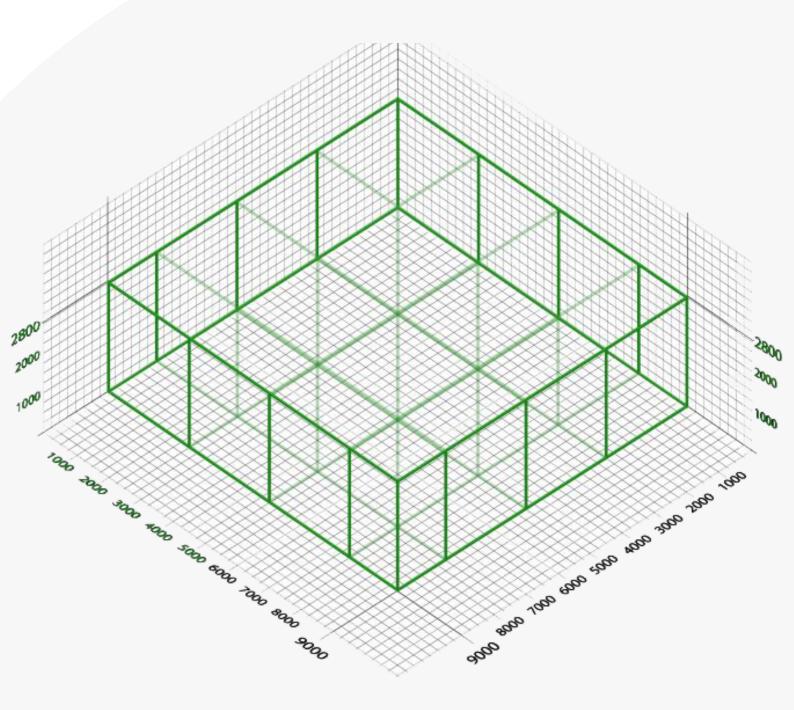
| I | Profile Size | e | Unit Weight Cross Section Area Torsional Section Modules Torsion Mome | | Torsion Moment of Inertia | Moment | of Inertia | Section | Modules | |
|----|--------------|---|---|--------|---------------------------|--------|------------|---------|---------|------|
| | (mm) | | (kg) | (mm²) | (cm³) | (cm4) | (c | m⁴) | (c | m³) |
| н | В | S | | A | Wp | lp | ly | lz | Wy | Wz |
| 40 | 40 | 3 | 3,10 | 309,00 | 8,13 | 14,77 | 7,38 | 7,38 | 3,69 | 3,69 |

The section properties is determined according to the perforated section.





V>EASY 50 Series





Base Module : 2.5 x 2.5 x 2.8 m

<u>Smart Connection</u>



PMKS-KD-450

Promega Connection



PMKS-KD-451 Promega Connection



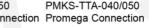
PMKS-KD-452

Promega Connection



PMKS-MFS-040/050 Promega Connection

PMKS-PC-050 PMKS-TTA-040/050 Promega Connection Promega Connection

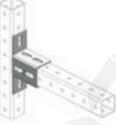




PMKS-TDE-040/050 Promega Connection



PMKS-TTA-041/051 Promega Connection

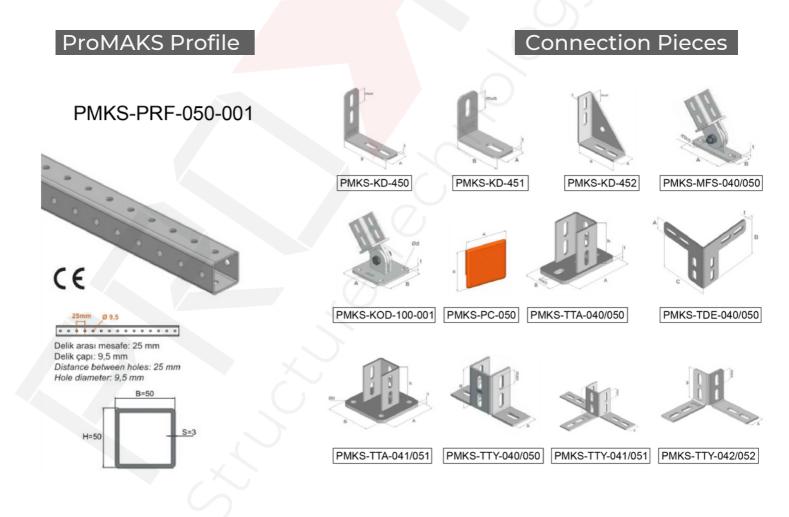


PMKS-TTY-040/050 Promega Connection

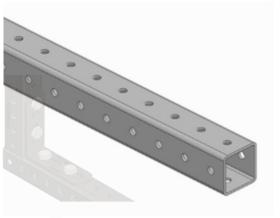


PMKS-TTY-041/051 Promega Connection

PMKS-TTY-042/052 Promega Connection

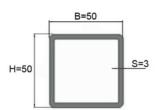


Medium Duty V-EASY Structural System



25mm Ø 9,5

Distance between holes: 25 mm Hole diameter: 9,5 mm



Service

Promaks is modular kit structural system, provide easy installation with self-threading bolt and medium 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.

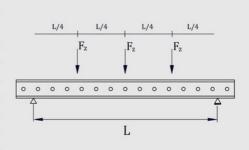
| Distributed | load |
|-------------|------|
| | |

| Lmax (mm) | qz, perm kN/m | Fz, (qz,perm *L) kN | | |
|--------------|------------------|------------------------|--|--|
| 1000 | 8,5 | 8,5 | | |
| 1500 | 2,7 | 4,05 | | |
| 2000 | 1,1 | 2,2 | | |
| 2500 | 0,56 | 1,4 | | |
| 3000 | 0,31 | 0,93 | | |
| 3500 | 0,19 0,665 | | | |
| qz | [kN/m] as perm | anent load at L | | |

| Point load | | | | | |
|--------------|------------------------------|--|--|--|--|
| Lmax (mm) | Fz, perm kN | | | | |
| 1000 | 4,3 | | | | |
| 1500 | 2,6 | | | | |
| 2000 | 1,4 | | | | |
| 2500 | 0,91 | | | | |
| 3000 | 0,61 | | | | |
| 3500 | 0,39 | | | | |
| | N] as permanent load at 1 /2 | | | | |

| 2 Point loads | | | | | | |
|---------------|----------------|--|--|--|--|--|
| Lmax (mm) | Fz, perm kN | | | | | |
| 1000 | 3,2 | | | | | |
| 1500 | 1,5 | | | | | |
| 2000 | 0,8 | | | | | |
| 2500 | 0,52 | | | | | |
| 3000 | 0,34 | | | | | |
| 3500 | 0,24 | | | | | |
| | | | | | | |

| 3 Point loads | | | | | |
|---|------|--|--|--|--|
| L <mark>max Fz, perm (mm) kN kN kN konstantista kan kan kan kan kan kan kan kan kan ka</mark> | | | | | |
| 1000 | 2,4 | | | | |
| 1500 | 1,1 | | | | |
| 2000 | 0,6 | | | | |
| 2500 | 0,35 | | | | |
| 3000 | 0,26 | | | | |
| 3500 | 0,17 | | | | |



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.

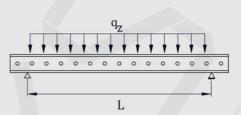
Safety factor is taken iinto account as 1,35.

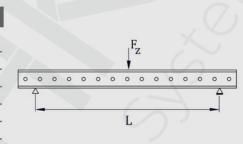
Deflection limit value is L/200.

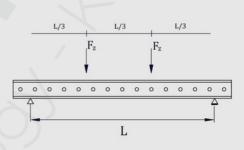
Section Properties

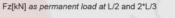
| I | Profile Size Unit Weight | | Profile Size Unit Weight | | t Cross Section Area Torsional Section Modules Torsion Momen | | Torsion Moment of Inertia | Moment of Inertia | | Section Modules | |
|----|--------------------------|---|--------------------------|--------|--|--------------------|---------------------------|-------------------|------|-----------------|--|
| | (mm) | | (kg) | (mm²) | (cm ³) | (cm ⁴) | (c | m⁴) | (c | m³) | |
| н | В | S | | A | Wp | lp | ly | lz | Wy | Wz | |
| 50 | 50 | 3 | 4,00 | 432,00 | 13,19 | 33,07 | 16,53 | 16,53 | 6,61 | 6,61 | |

The section properties is determined according to the perforated section.



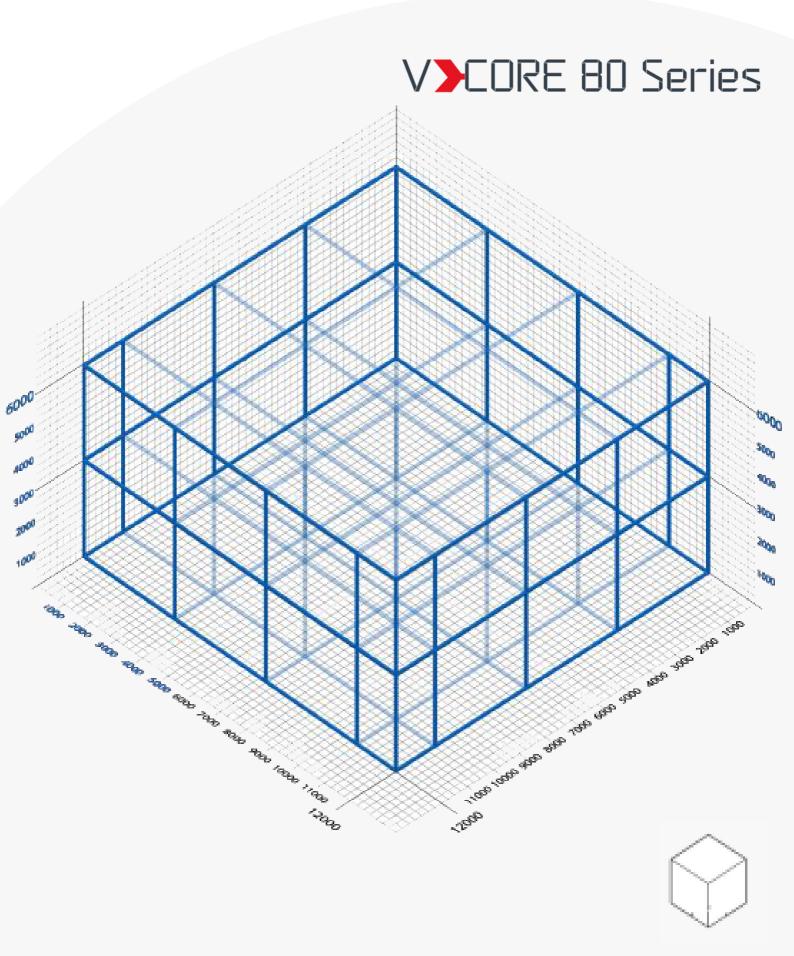




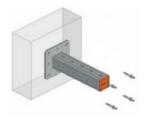








Base Module : 3.5 x 3.5 x 3.0 m



PMKS-HK-080 Promega Connection



PMKS-HK-080 -Promega-Promega Connection



PMKS-TTA-080 Promega Connection

ProMAKS Profile

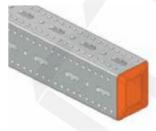
PMKS-PRF-080-001



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

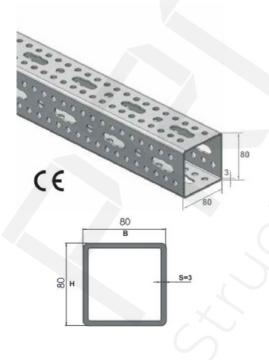


PMKS-MFS-080/081 **Promega Connection**

Connection Pieces







PMKS-HK-080











PMKS-KD-081

PMKS-KD-118

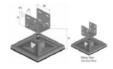
PMKS-PC-080 PMKS-TTA-080



PMKS-MFS-080

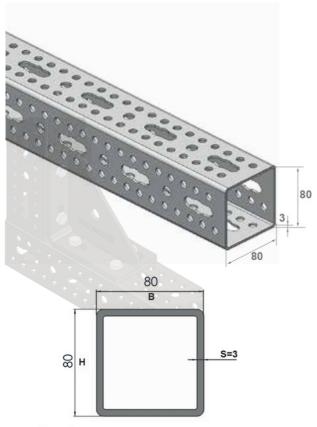


PMKS-MFS-081



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.

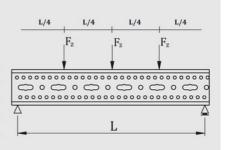
| Distributed load | | | | | | |
|---------------------------------|------------------|------------------------|--|--|--|--|
| Lmax (mm) | qz, perm kN/m | Fz, (qz,perm *L) kN | | | | |
| 1000 | 18,00 | 18,00 | | | | |
| 1500 | 8,00 | 12,00 | | | | |
| 2000 | 3,82 | 7,64 | | | | |
| 2500 | 1,94 | 4,85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

| F | 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)

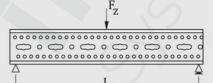
- Self weight considered.
- Safety factor is taken into account as 1,35.
- Deflection limit value is L/200.

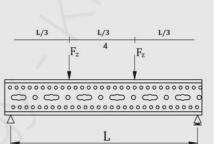
Section Properties

| Profile Size Unit Wei | | Unit Weight | Cross Section Area | | | | 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 |

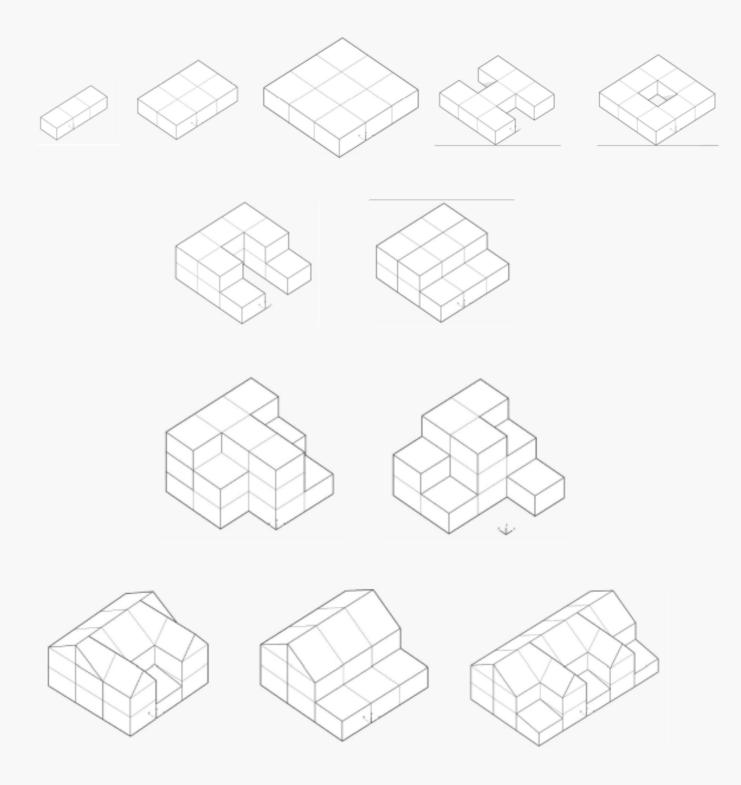
The section properties is determined according to the perforated section.

| | | | q_{z} | | | | |
|----------|------|------|---------|-----|--------|-----|-----|
| \Box | | | | | | | |
| 00000 | 0000 | 0000 | 0000 | 000 | 0000 | | |
| 00 | | | | | | | |
| 00000 | 0000 | 0000 | 0000 | 000 | 0000 | 000 | 000 |
| <u>^</u> | | | | | | | 4 |
| | | | L | | \sim | | _ |
| | | | | | | | -1 |

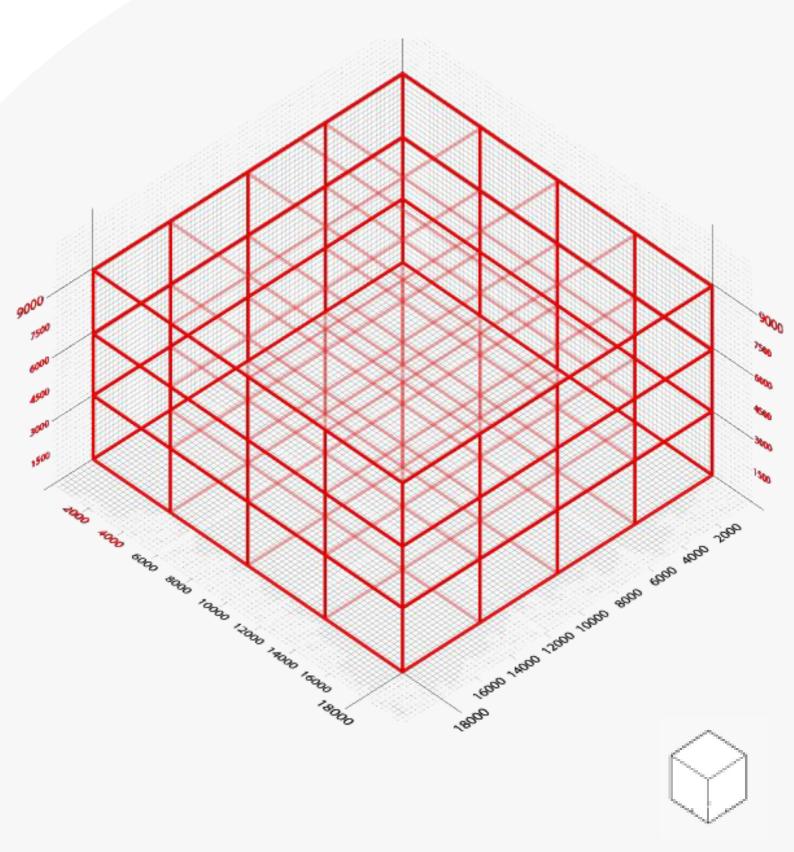




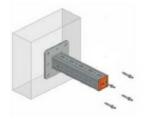




VXINE 100 Series



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

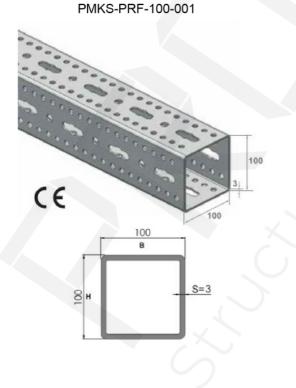


PMKS-MFS-100/101 **Promega Connection**

Connection Pieces









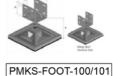






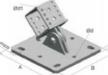


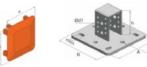






PMKS-MFS-100

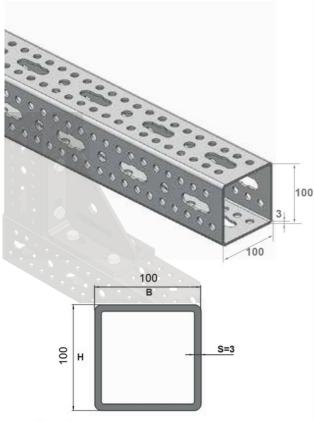




PMKS-MFS-101

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.

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] as | permanent load at 1 /2 and 2*1 /3 | | | | | |

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

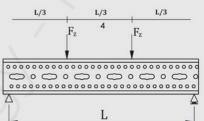
| 3 point loads | | | | | |
|---------------|----------------|--|--|--|--|
| Lmax (mm) | Fz, perm kN | | | | |
| 1000 | 8,00 | | | | |
| 2000 | 3,90 | | | | |
| 3000 | 1,96 | | | | |
| 4000 | 1,10 | | | | |
| 5000 | 0,65 | | | | |
| 6000 | 0,40 | | | | |

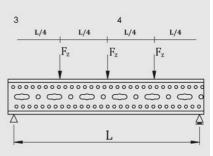
2 noint loodo

| Fz | |
|--------|-----|
| | 0 0 |
| L L | |

qz

L





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

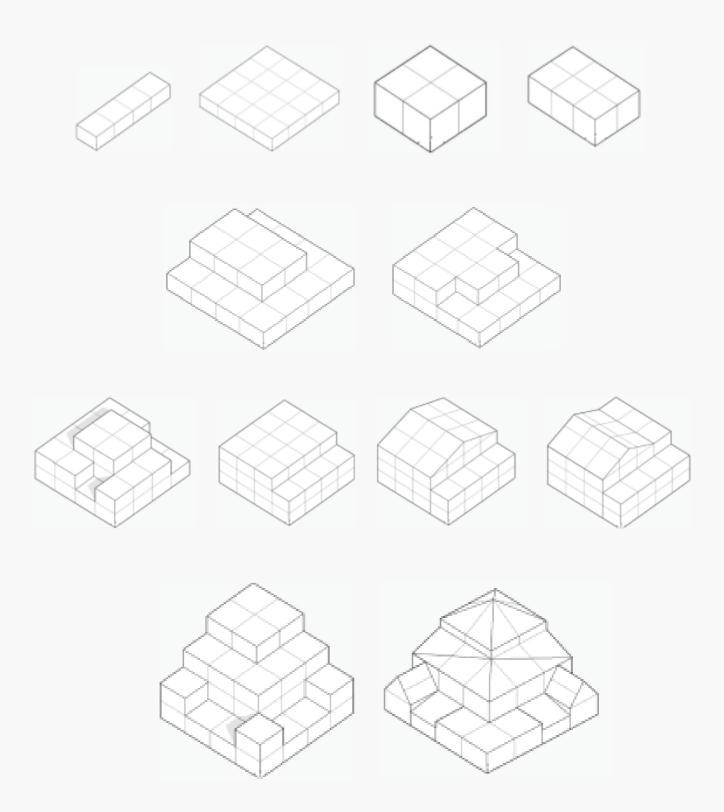
Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)

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

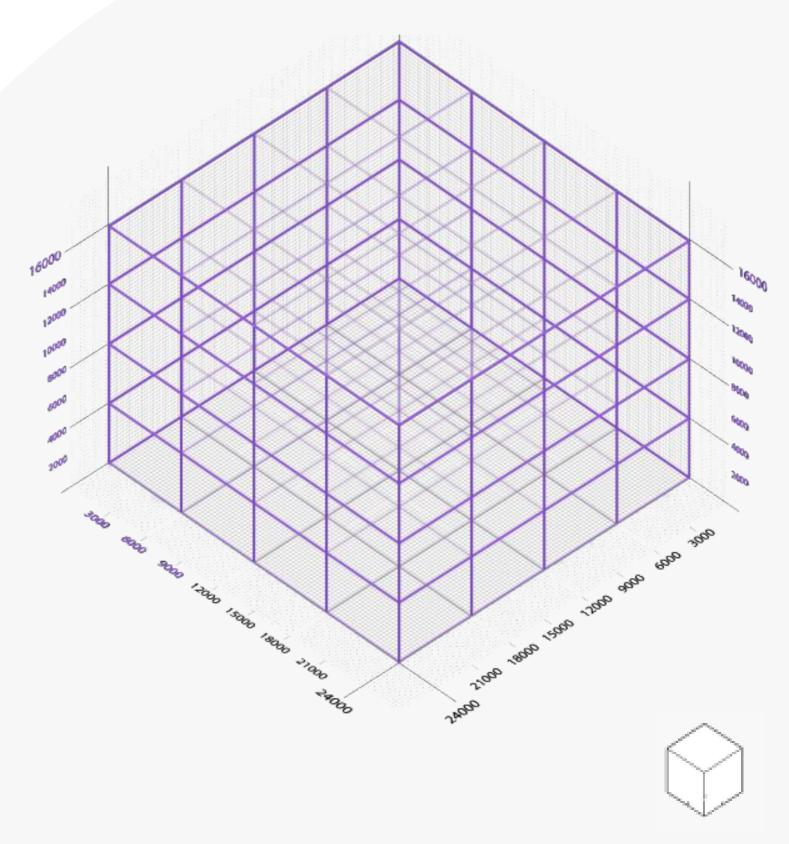
| | | Unit Weight | Cross Section Area | Torsional Section Modules | Torsion Moment of Inertia | Moment | of Inertia | Section | Modules | |
|-----|------|-------------|-----------------------|---------------------------|---------------------------|--------------------|------------|---------|---------|-------|
| | (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.

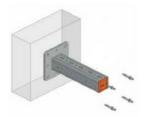




VXING 120 Series



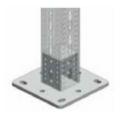
Base Module : 6.0 x 6.0 x 4.0 m



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



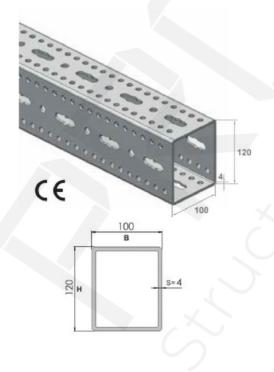
PMKS-foot-120/121 Promega Connection



PMKS-MFS-120/121 Promega Connection

Connection Pieces







PMKS-KA-120

PMKS-KD-100

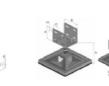




PMKS-KD-120

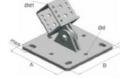


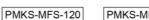
PMKS-KD-121







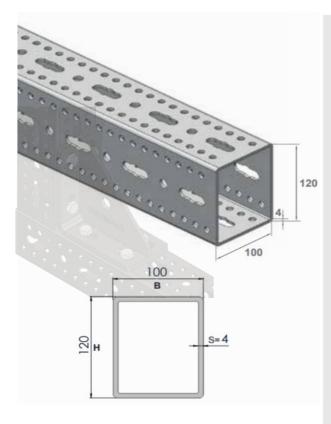




PMKS-MFS-121

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.

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 |

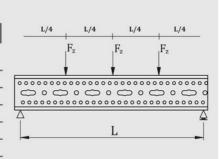
| Lmax (mm) | Fz, perm kN |
|--------------|----------------|
| 1000 | 26,00 |
| 2000 | 13,30 |
| 3000 | 8,08 |
| 4000 | 5,20 |
| 5000 | 3,20 |
| 6000 | 2,10 |

Fz[kN] as permanent load at L/2

| Z | 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

| 3 р | 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

C

L/3

0000000000

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

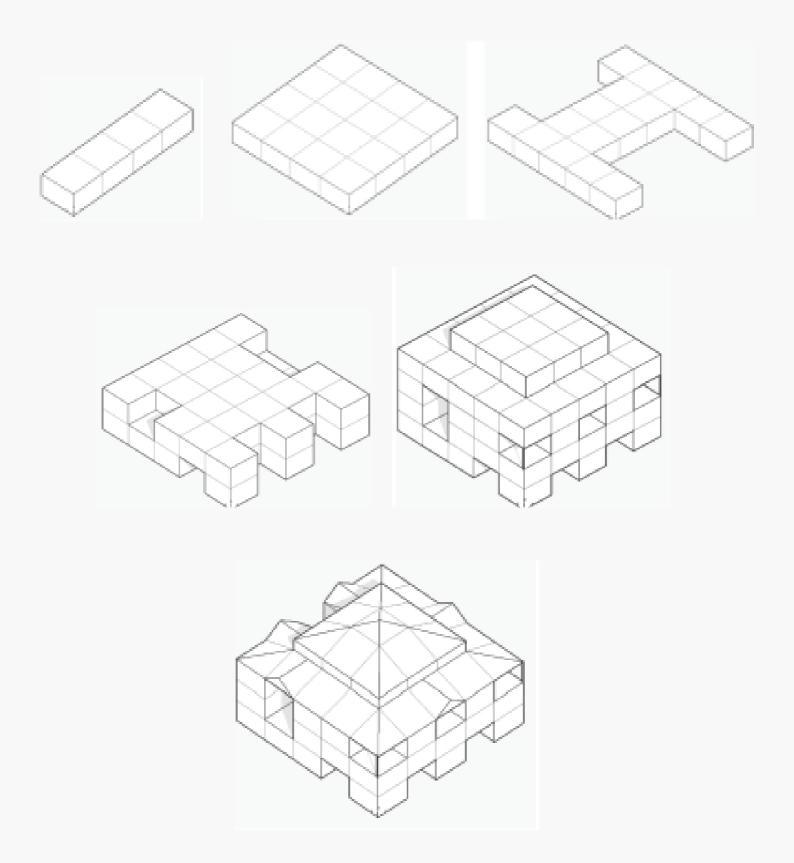
Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)

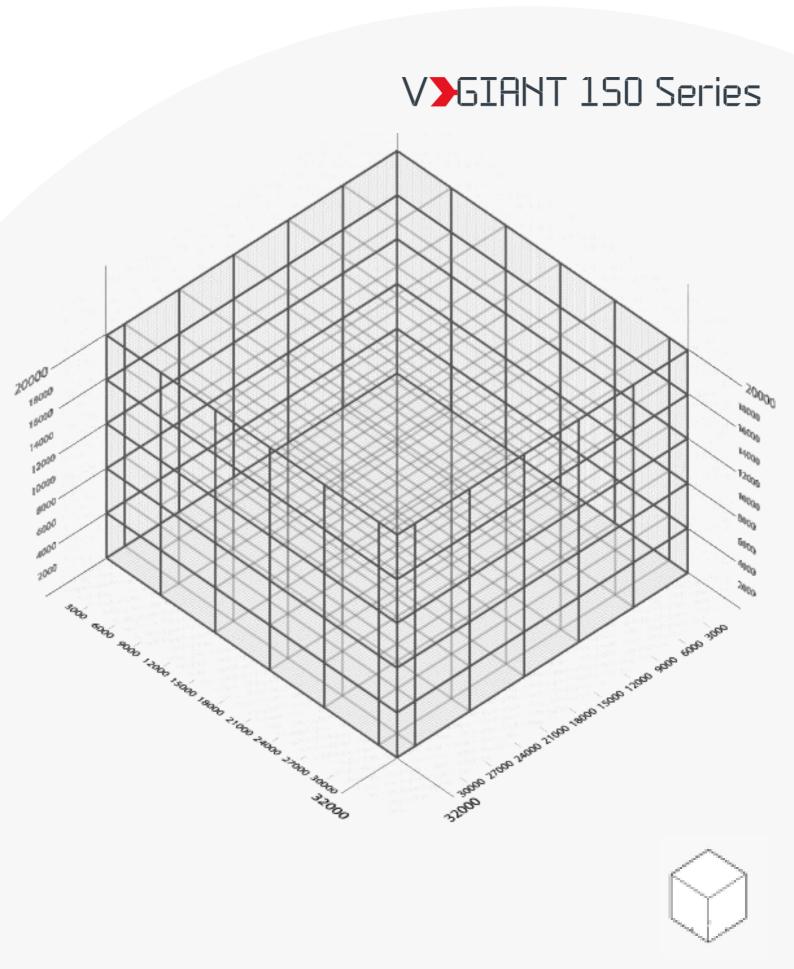
- Self weight considered.
- Safety factor is taken into account as 1,35.
- Deflection limit value is L/200.

| P | 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 |

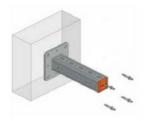
The section properties is determined according to the perforated section.







Base Module : 6.0 x 6.0 x 4.0 m



PMKS-HK-150 Promega Connection



PMKS-HK-150 -Promega-Promega Connection



PMKS-TTA-150 Promega Connection

ProMAKS Profile

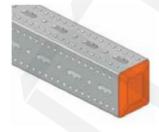
PMKS-PRF-150-001



PMKS-KD-120 Promega Connection



PMKS-KD-121 Promega Connection



PMKS-PC-150 Promega Connection





PMKS-KD-101 Promega Connection



PMKS-foot-150/151 Promega Connection



PMKS-MFS-150/151 Promega Connection

Connection Pieces

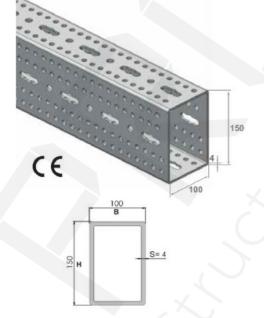












PMKS-HK-150





PMKS-KD-100

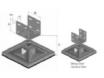




PMKS-KD-120



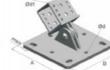




PMKS-FOOT-150/151



PMKS-MFS-150

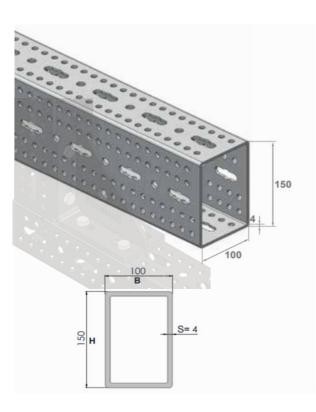




PMKS-PC-150

PMKS-TTA-150

Heavy Duty V-GIANT 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.

| DI | stri | bui | ea | ioad | |
|----|------|-----|----|------|--|
| | | | | | |

| Lmax (mm) | qz, perm kN/m | Fz,(qz,perm *L) kN |
|--------------|------------------|-----------------------|
| 1000 | 71,00 | 71,00 |
| 2000 | 17,80 | 35,60 |
| 3000 | 7,90 | 23,70 |
| 4000 | 3,50 | 14,00 |
| 5000 | 1,75 | 8,75 |
| 6000 | 0,97 | 5,82 |
| q | r[kN/m] as perm | anent load at L |

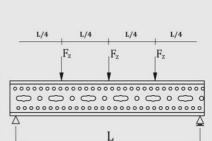
| Point load Lmax Fz, perm (mm) kN 1000 35.30 | | | |
|---|-------|--|--|
| | | | |
| 1000 | 35,30 | | |
| 2000 | 17,80 | | |
| 3000 | 11,60 | | |
| 4000 | 8,70 | | |
| 5000 | 5,40 | | |
| 6000 | 3,60 | | |

Fz[kN] as permanent load at L/2

| | 2 point loads | | | | | |
|--------------|----------------|--|--|--|--|--|
| Lmax (mm) | Fz, perm kN | | | | | |
| 1000 | 26,00 | | | | | |
| 2000 | 13,30 | | | | | |
| 3000 | 8,80 | | | | | |
| 4000 | 5,20 | | | | | |
| 5000 | 3,10 | | | | | |
| 6000 | 2,10 | | | | | |

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

| 3 point loads | | | | | |
|---------------|----------------|--|--|--|--|
| Lmax (mm) | Fz, perm kN | | | | |
| 1000 | 17,90 | | | | |
| 2000 | 8,90 | | | | |
| 3000 | 5,90 | | | | |
| 4000 | 3,60 | | | | |
| 5000 | 2,30 | | | | |
| 6000 | 1,50 | | | | |



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

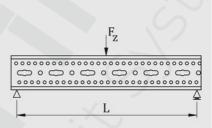
Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)

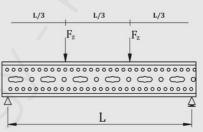
- Self weight considered.
- Safety factor is taken into account as 1,35.
- Deflection limit value is L/200.

Section Properties

| Area | | 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 | ~ | А | Wp | lp | ly | lz | Wy | Wz |
| 150 | 100 | 4 | 12 | 1235,00 | 112,06 | 618,26 | 404,80 | 213,46 | 53,97 | 42,69 |

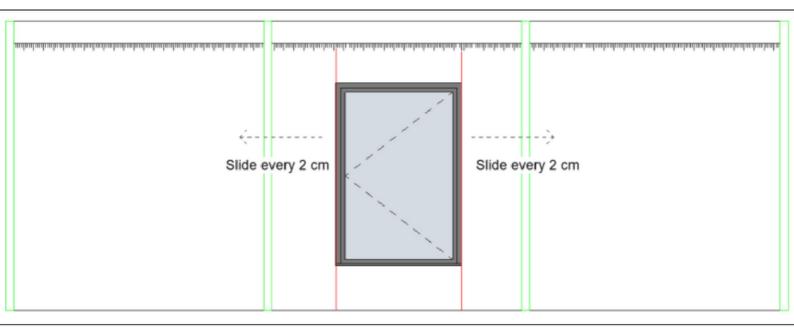
 q_z

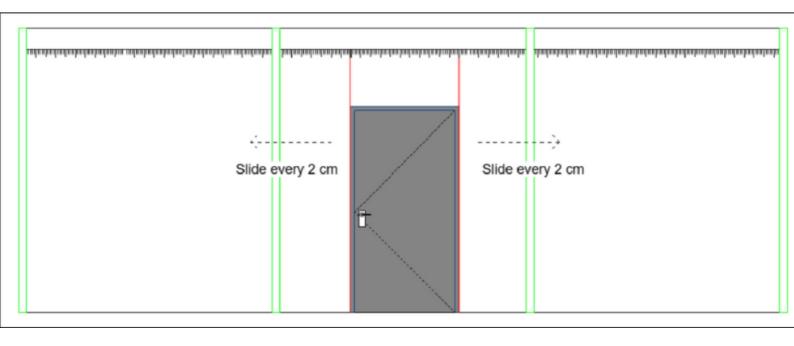




WINDOWS DOORS

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





| | | | | | ДОБРОВОЛЬНАЯ СЕРТИФИКАЦИЯ ПР Система добовотной сортании в 1 област вородиние на изделение на вородители и баранерирован Фараранска и област до на област на сортании и н | one Toberone anner |
|--|---|---|--|---|---|--|
| CI | ERTIFICA | TE | WELDI | NG CERTIFICATE | СЕРТИФИКАТ СООТВЕТСТ | вия |
| o | of conformity the factory production conf | trol | Ce | rtificate No.: 0408-CPR-TA3643 | N# 048(3)0101.TR.C01160 | |
| | No.: 0408-CPR-TA3643 | | Manufacturer | LINK YAPI SANAYİ VE TİCARET | Cpost.netlermas c 23.08.2021 mo 22.08 | 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 | <u>명</u> 용 - 6 | ANONİM ŞİRKETİ GEBZE ORGANİZE SANAYİ BÖLGESİ 1000.SK NO:1016 CAYIROVA, KOCELİ / TÜRKIYE | ОРТАВ ПО СЕРТИФИКАЦИЯ. Общества е огранячивный еляст Место измякаления (дрес корядического дица). 44300, ЮССИЯ, 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 ŞIRKETİ GEBZE ORGANIZE SANAYİ BÖLGESİ 1000 SK NO:1016 | улина Зувидото, дов 19. Аррен места окудиствления депась, РОС. И. самар улина Зувидото, дов 19. Аррен места окудиствления депаснылосте. 44000 Г. Жлениковородный район, город. Сомарь, улина Уринаного, дов 19. Талефоне *765461206-01-79. Аррее электронней постко избой инигизоватили комиетствитося органа по сертификация XM POCC RU.31485.041(ДОО.101 от 27.) | ОССИЯ, Самарская област комядты 45, 46, 48, 4 Свядетельство о прязнани |
| | to EXC 2 acc. EN 1090-2 | EN 1090-1 | NKAT | ÇAYIROVA, KOCELÎ / TÛRKIYE | ПРОДУКЦИЯ Крепсковае изделяя для монтаковах работ, торговой марки «LINK», «РгоМеда» | 803-OK 034-2014 (KIIEC 2008) |
| produced by or for | ANAYI VE TICARET AND | NIM SIRKETI | 5 Standard | EN 1000-1:2009+A1:2011 EN 1000-2:2018 | Ceperitoral marryce | 25.99.29 |
| GEBZE ORGA | NIZE SANAYI BÖLGESİ 1 | 000.SK NO:1016 | Execution Classes | EN 1000-22018 Up to EXC 2 | COOTBETCTBYET TPEEOBABHRM BOPMATHBRIEN JOKOMENTOB | sea TH ROD |
| and produced in the manu LINK YAP | I SANAYI VE TICARET ANON | IM SIRKETI | Welding Processes (According to 850 4360) Parent Metalls | 135 - Metal Active Gas Welding 212 - Resistance Spot Weiding 741 - Induction Welding | Соответствует герроранных порокаливных, додо эна гов | 112/04/04/01/112/04/04/04/01/112/04/04/04/04/04/04/04/04/04/04/04/04/04/ |
| This certificate attests th | ANIZE SANAYI BÖLGESİ 100 ÇAYIROVA, KOCELİ / TÜRKI' at all provisions concerning the asa 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 1090-2, Table 2 and 3 Group 8.1 acc. to CEN ISO(TR 15608 and EN 1090-2, Table 4 | IDFOTOBIITE/IL «LINK YAPI SANAYI VE TICARET A.S.» IOpuzievecusti azpo:: Geber OSB2 Mahalievi1000. Cadde Net1016-1 Cayleova Kor | тізновов, такроосо, такончи таків тако засів/Турцаня |
| under system 2+ are appl | EN 1090-1:2009+A1:2011 | | Coordinator | Batuhan UNCU (NVE), 17/05/1993 Level (C) acc. to EN 1090-2, 7.4.3 | СЕРТИФИКАТ ВЫДАН Общество с ограниченной ответственностью «Мир Юридический адрес 11704], город Мохив, удина Адмерала Руднева, дон 4, го | |
| | ed and that ion control fulfills all the pre | scribed requirements | Deputies | | odus 613 Texebou: 24954814150. E-mail: MirTekhnologivitemail.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 the product, and the product, and the product is the product of the pr | issued on 28.07.2020 and will remo production control requirements is the performance of the declared of he manufacturing conditions in t veillance is due on 27.07.2023. | 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 Протовоза колгазавої № 195-2108 от 20.08.2021 года, вы центрою Заветротехничностка язадний «Стройновтано». Заврагітого акционерног проязвадственный центр «СТРОЙМОНТАХ» | цанного испытательным о общества Научно- |
| signification. The next sur | venance is due on 27 MT 2023. | SA DEAVIES | IC Y | CPR-TA3643 28.07.2020 (free day of lease) | ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Схема серезфиканан: Эс | |
| | | 1 TON B | Valid from | 27.87.2020 (no. try of tours) 27.87.2023 | Prosecurity entry | A.C. Jasevan |
| Leonding | 02.08.2022 | Mastnak Alexander | Leonding | 02.08.2022 Mastnak Mextander | (Mitting) | <u> P.R. Iviana</u> |
| PLACE | DATE | CERTIFICATION BODY | TÜV AUSTRIA | DATE CERTIFICATION BODY | Abaanes | |
| | | | | IN YOUCH IN | | |



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

Page 1 of 3



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

Page 1/14

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:

FIRST OUALITY CERTIFICA

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

This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of This version is a corrigendum to ETA 18/0441 of 03/06/2018

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

Interview contained of the European Technical Assessment, including transmission by electronic means, shall be in full (excepted the confidential Annexies) referred to above). However, partial reproduction may be made, with the written concered for the issuing Technical Assessment Body - Technical and Test Institute for Construction Prague. Any partial reproduction has to be identified as such

ETA 18/0441 of 03/06/2018 - Page 1 of 10

090-041492

