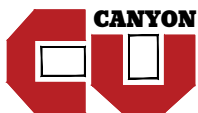


2024/25

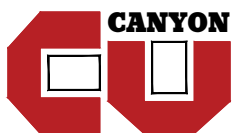
HEAVY DUTY SUPPORT CATALOGUE

An extensive range of scaffold systems available
for sale & hire with tailor-made design and
technical services provided



金源通架工程有限公司
CANYON METAL SCAFFOLDING ENGINEERING LTD.

INNOVATIVE
PROFESSIONAL
QUALITY
SAFE
INTEGRITY



COMPANY INTRODUCTION & CONTENTS

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HEAVY DUTY SUPPORT

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PECCO SUPPORT 四柱頂 QUADSHORE SUPPORT 豬籠架

ECONOMIC EFFICIENCY

1. Reduce construction cost per unit area.

FUNCTIONALITY

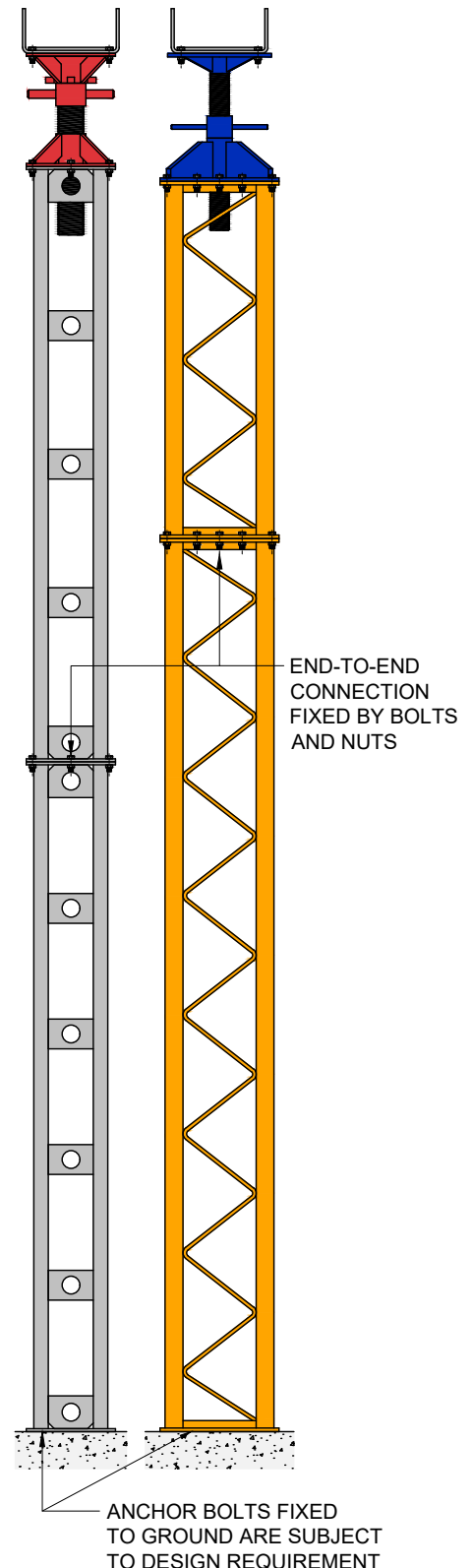
1. Designed in a perfect symmetric figure.
2. Can be easily braced by single scaffold tube and coupler.
3. A jack is commonly used on the upper and lower ends, allowing for an adjustable range from 280 mm to 580 mm (Pecco) or 298 mm to 512 mm (Quadshore).
4. Main body has various sizes depending on the required height at site - additional height can be adjusted with the combination of support jack(s) on both ends.



DESIGN NOTES

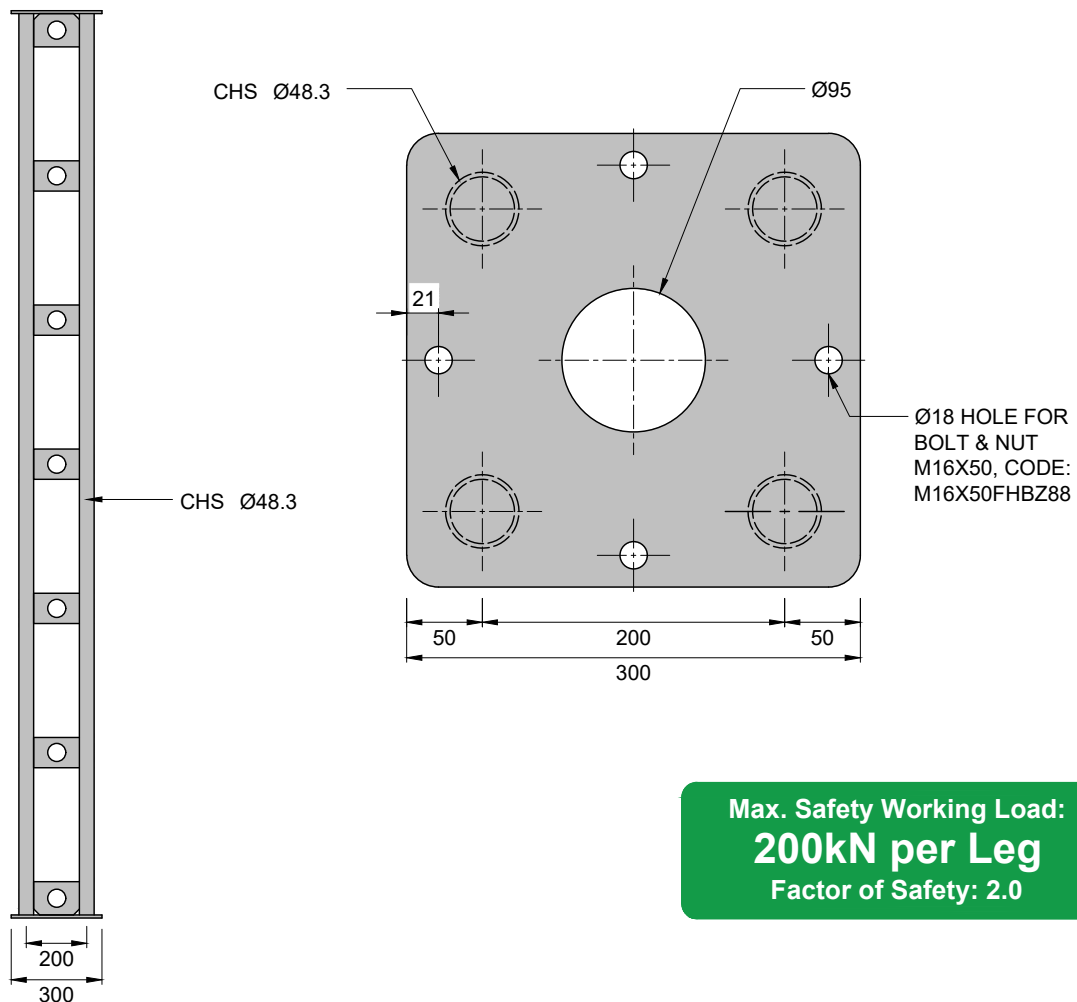
1. Pecco Support: Safety Working Load 200 kN (20 tonne)
Quadshore Support: Safety Working Load 365 kN (36.5 tonne)
2. To secure end-to-end connections, bolts and nuts should be used.
Pecco Support: 4 nos. M16 x 50 HT
Quadshore Support: 12 nos. M16 x 50 HT
3. If maximum load is applied, the following should not be allowed:
 - a. apply on eccentric load to either the square support body or jack;
 - b. having a connection between two bodies that's not perfectly flush against each other.
 - c. erecting on uneven settlement or foundation that is unable to sustain the required load.
4. Square support jack should be greased every time before used.
5. Try to prevent applying eccentric or horizontal force on and deformed or damaged square support body shall not be allowed for use.
6. Special attention should be made when the height of the erected support bodies are to increase in order to maintain overall stability of the support.
7. Bolts used to connect the square support bodies and/or jack must be tightened before continuing erection or use.

PECCO QUADSHORE



Main Body 四柱頂	Height, H	Weight	Marking
PSP-SSH025	250*	18.4 kg	Pink / 粉紅
PSP-SSH050	500*	20.0 kg	Yellow / 黃
PSP-SSH065	650	23.2 kg	Sky-Blue / 天藍
PSP-SSH075	750	24.3 kg	Purple / 淺紫
PSP-SSH100	1000*	26.7 kg	Orange / 橙
PSP-SSH125	1250	31.3 kg	Green / 綠
PSP-SSH150	1500*	34.0 kg	Blue / 藍
PSP-SSH200	2000*	41.0 kg	White / 白
PSP-SSH225	2250	45.2 kg	Brown / 啡
PSP-SSH250	2500	48.0 kg	Pink / 粉紅
PSP-SSH300	3000	55.0 kg	Red / 紅

* Common Body Length

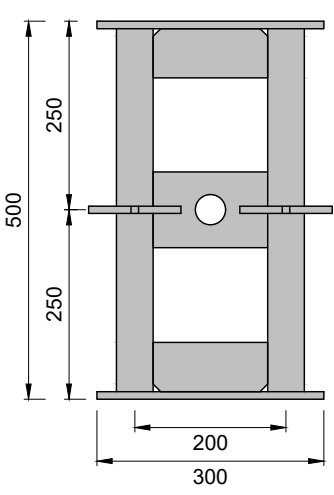
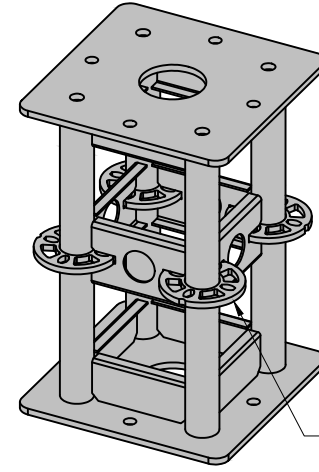
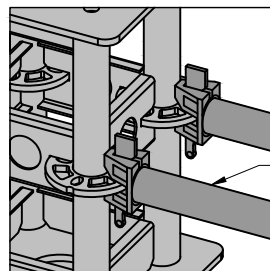


PECCO Support Body Section Properties

Cross Section Area, A	Radius of Gyration, i	Elastic Section Modulus, Z	Second Moment of Area, I
13.932cm ²	10.13cm	141.21cm ³	1,430.5cm ⁴



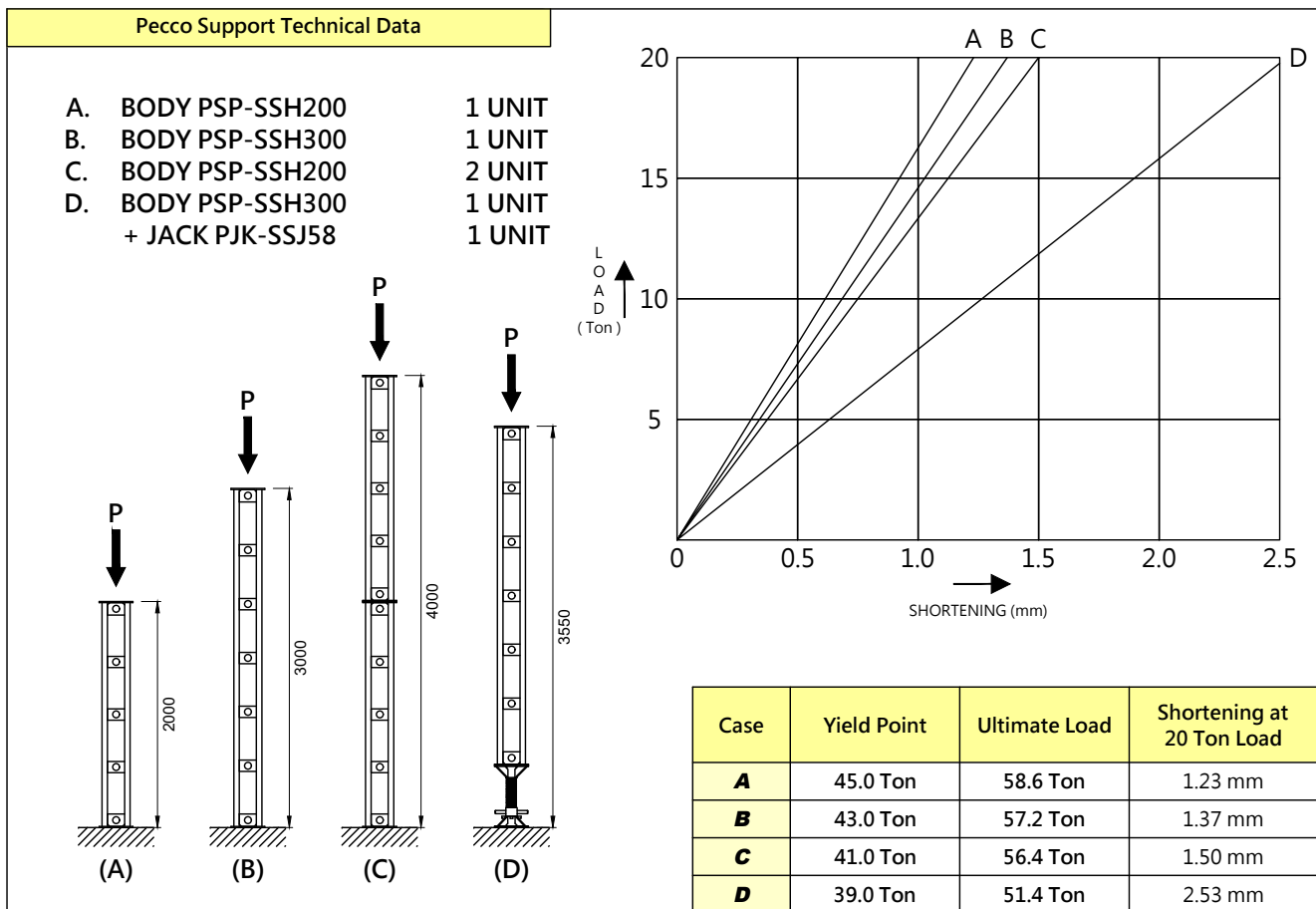
Body with Rosette 四柱頂連碟架圓盤	Height, H	Weight	Marking
PSP-SSH050R	500	27.2 kg	Yellow / 黃

Connection Detail

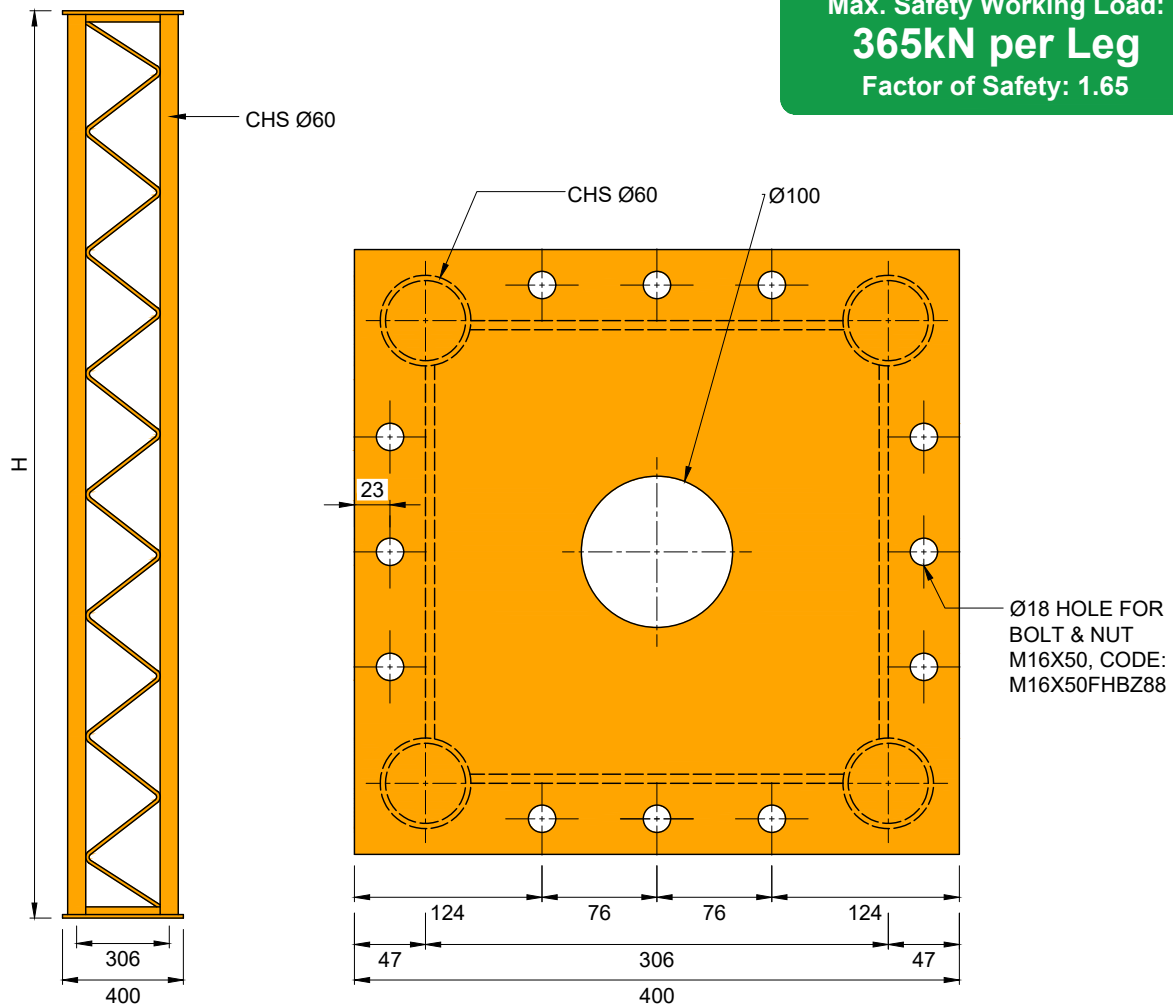
RINGLOCK ROSETTE

RINGLOCK COMPONENT AS BRACING



Main Body 豬籠架	Height, H	Weight	Marking
QSP-025	250*	42.5 kg	Pink / 粉紅
QSP-050	500*	44.4 kg	Red / 紅
QSP-060	600	47.1 kg	Sky-Blue / 天藍
QSP-080	800	52.4 kg	Purple / 淺紫
QSP-085	850	53.5 kg	Yellow / 黃
QSP-100	1000*	57.4 kg	Orange / 橙
QSP-120	1200	62.5 kg	Green / 綠
QSP-150	1500*	70.5 kg	Blue / 藍
QSP-200	2000*	82.8 kg	White / 白
QSP-300	3000	108.4 kg	Red / 紅

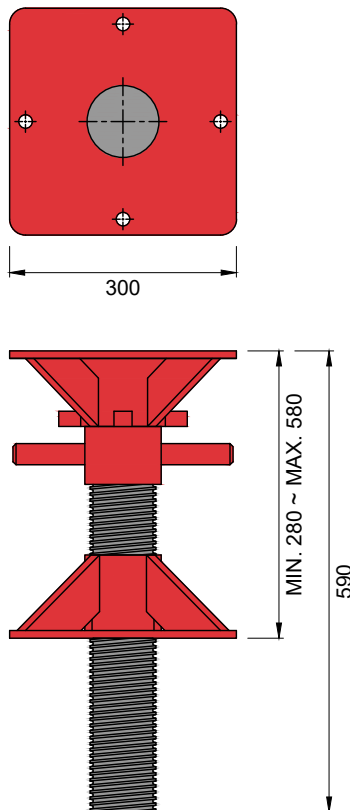
* Common Body Length

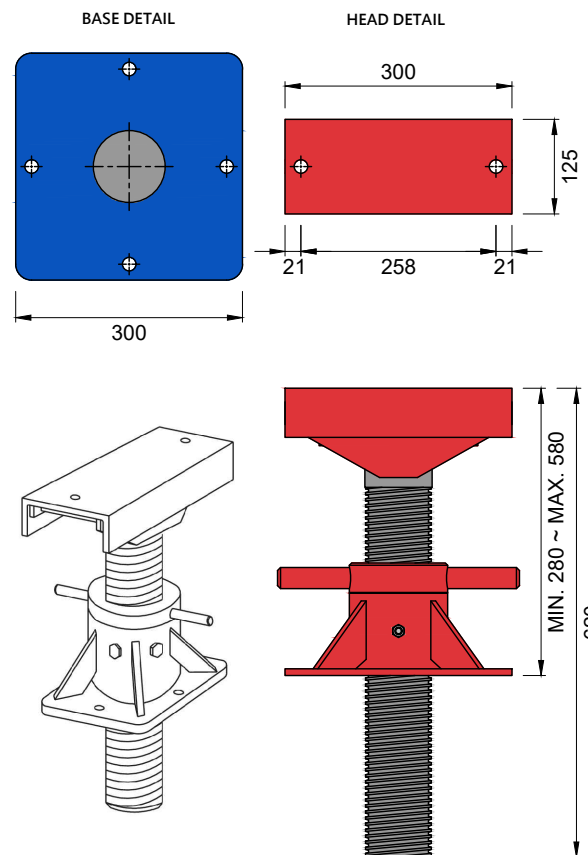


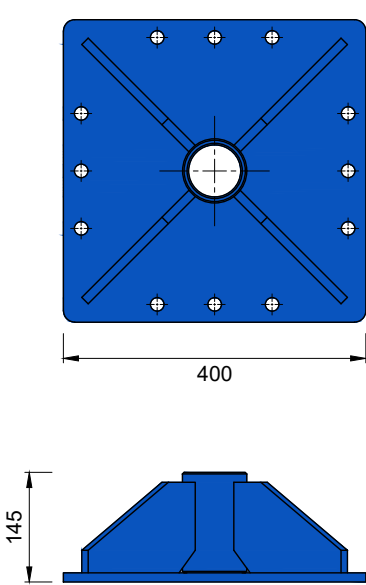
QUADSHORE Support Body Section Properties

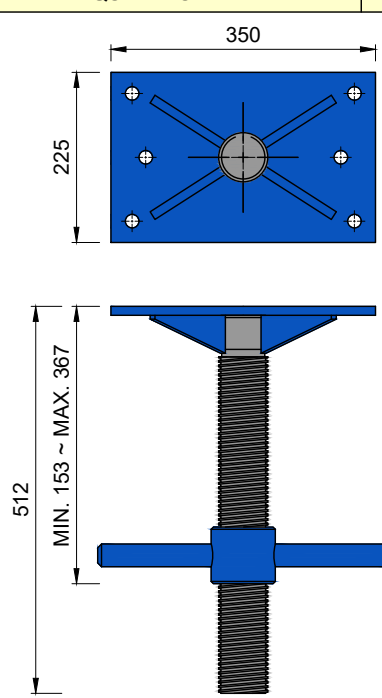
Cross Section Area, A	Radius of Gyration, i	Elastic Section Modulus, Z	Second Moment of Area, I
24.84cm ²	15.13cm	379.23cm ³	5688.52cm ⁴



PECCO Support Jack 四柱頂重積	Weight
PJK-SSJ58	30.5 kg
	

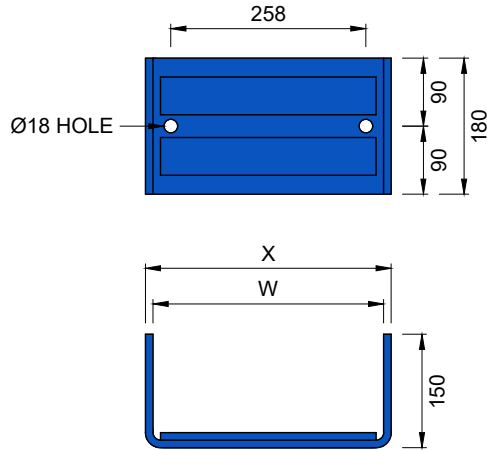
PECCO Support Head Jack 四柱頂頂積	Weight
PJK-NSJ30	37.9 kg
	

QUADSHORE Jack Adaptor 豬籠架底座	Weight
QJK-JAD	23.0 kg
	

QUADSHORE Flat Head Jack 豬籠架平頂積	Weight
QJK-FHJ	23.3 kg
	

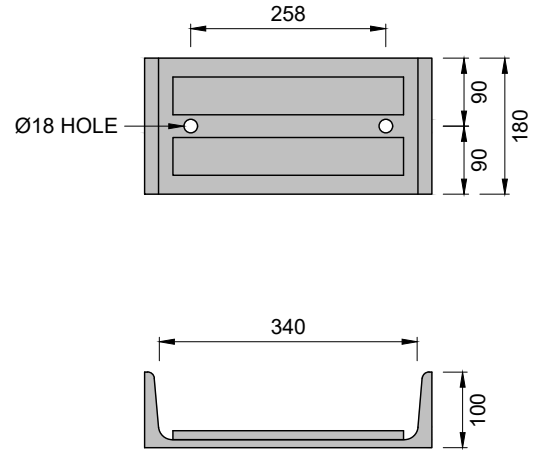


U-Head U形頭	W	X	Weight
PJK-SSU31	305	325	11.3 kg
PJK-SSU35	325	345	11.8 kg



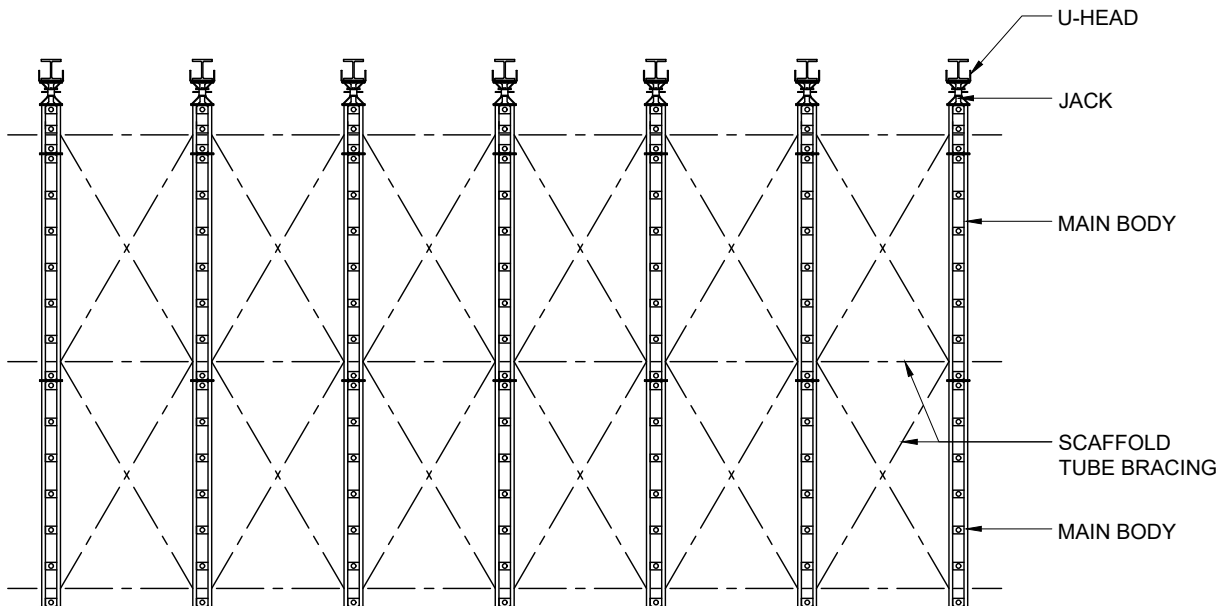
- Suitable for both PECCO or QUADSHORE support system

U-Head U形頭	Weight
PJK-SSU38	13.1 kg



- Suitable for both PECCO or QUADSHORE support system

General Bracing Configuration 一般支撐組合示例



GENERAL RULES FOR BRACING

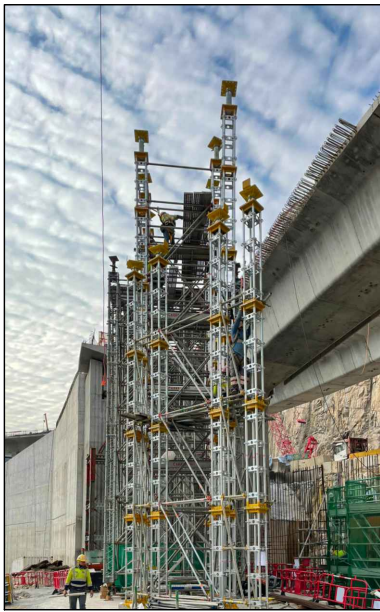


RINGLOCK GIANTSHORE

碟型組合大力頂

PATENT NO: HK30052164

Introducing Canyon's latest heavy duty supports, designed to optimize overall construction cost per unit area while withstanding a max. S.W.L. of 580 kN. The specialty of the Giantshore's design is it provides built-in standard Ringlock rosettes on the vertical tubes so that standard Ringlock horizontal and diagonal components can be conveniently used



Once the Ringlock Giantshore tower is completely erected, fine tune adjustments may be made in preparation for the bridge construction.



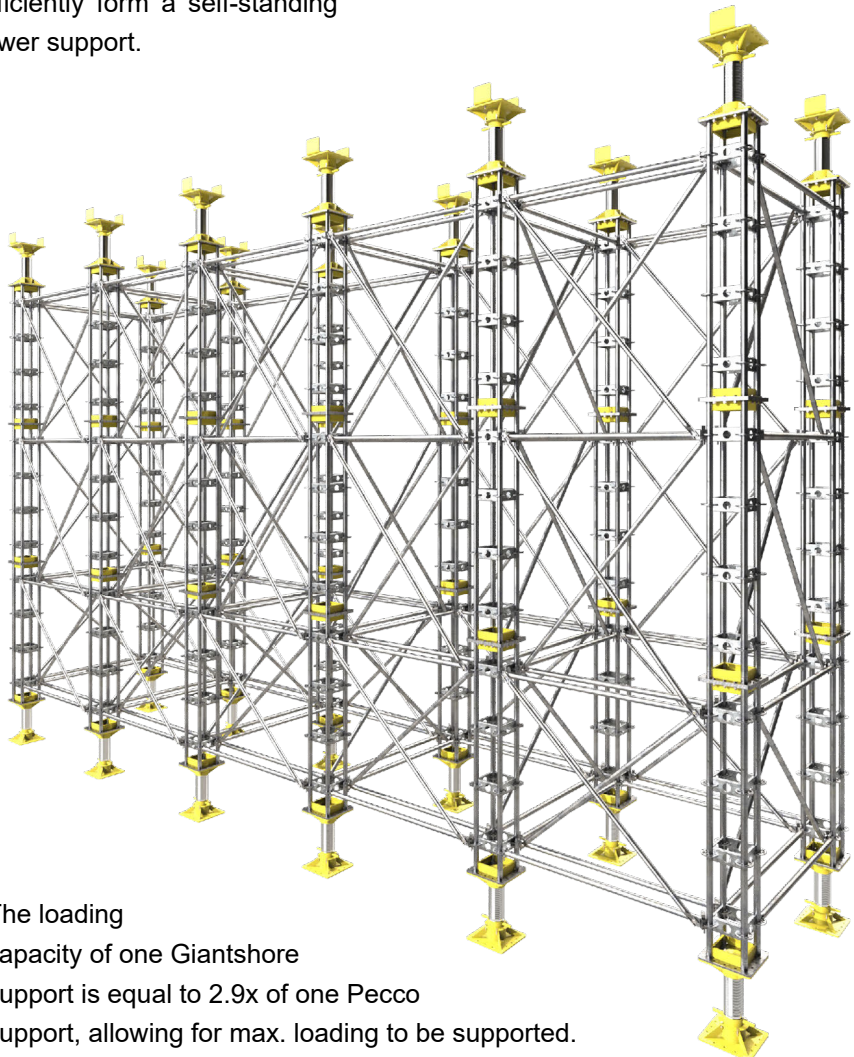
The versatility of the Ringlock Giantshore allows for standard working platform to be erected upon completion of the tower.

as connecting members (scaffold tubes and couplers may still be used for non-standard lengths). The Ringlock rosette component on the Giantshore allows for members to be connected on all four sides, which can efficiently form a self-standing tower support.



Project: Contract No. NE/2015/01 – Tseung Kwan O to Lam Tin Tunnel – Main Tunnel and Associated Works
Client: Leighton-China State Joint Venture

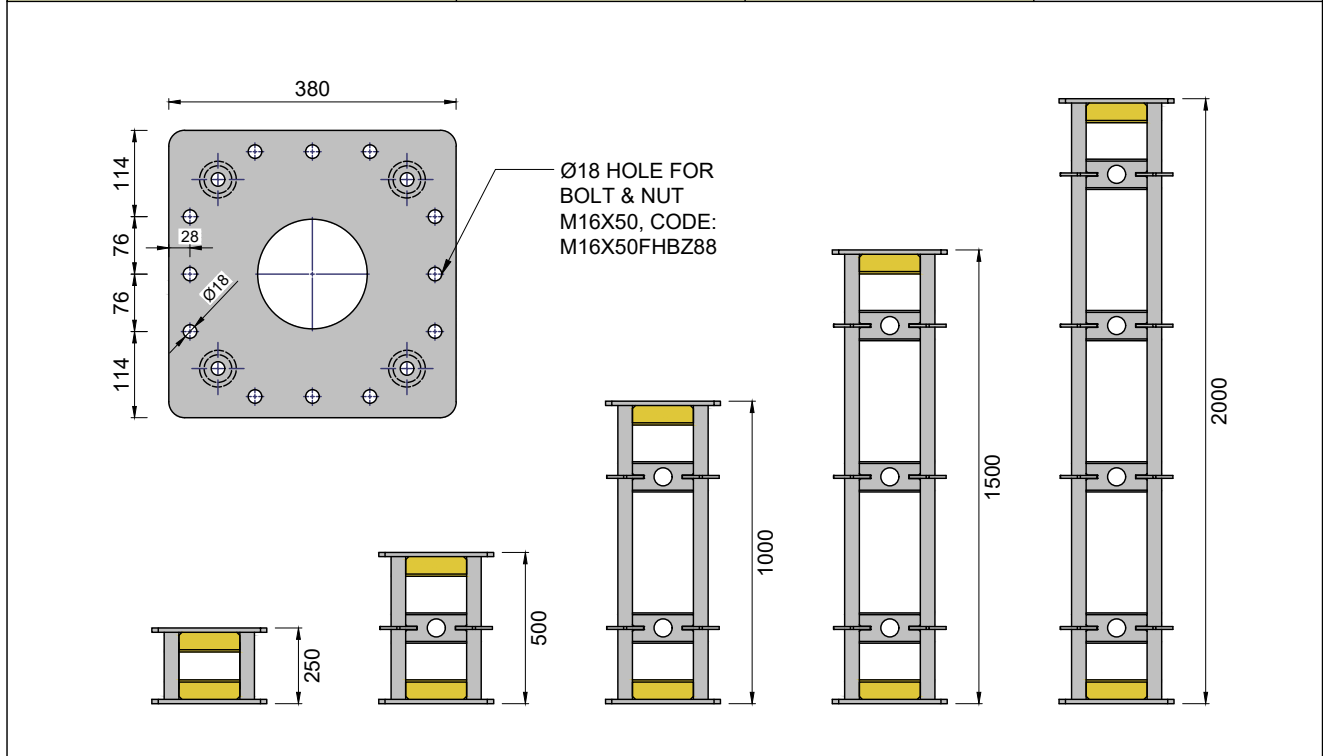
Max. Safety Working Load:
580kN per Leg
Factor of Safety: 1.65



The loading capacity of one Giantshore support is equal to 2.9x of one Pecco support, allowing for max. loading to be supported.

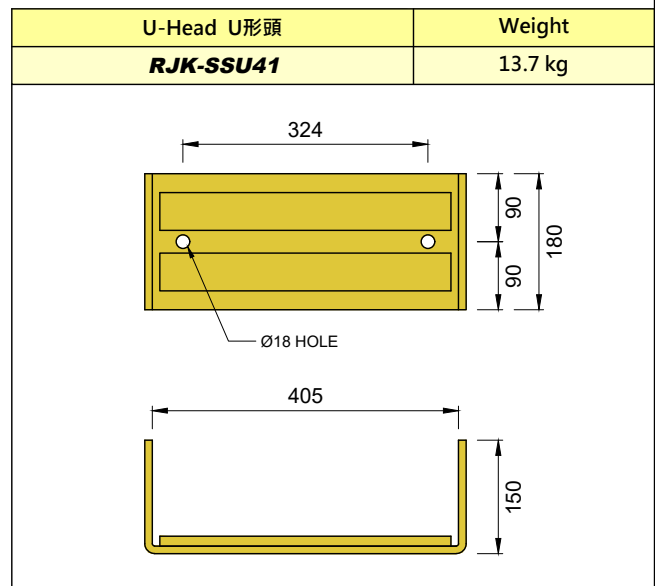
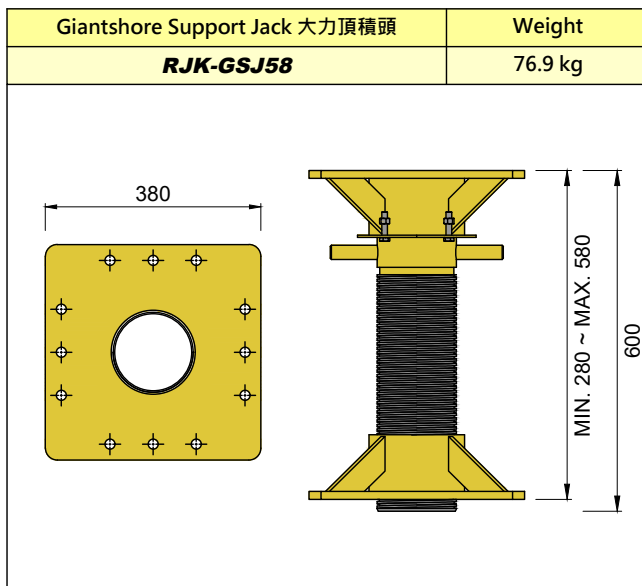


Main Body 大力頂	Height, H	Weight	Marking
RSP-GS025	250	38.7 kg	Pink / 粉紅
RSP-GS050	500	54.6 kg	Yellow / 黃
RSP-GS100	1000	71.7 kg	Green / 綠
RSP-GS150	1500	88.8 kg	Orange / 橙
RSP-GS200	2000	105.9 kg	White / 白



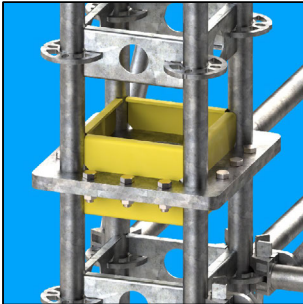
RINGLOCK Giantshore Body Section Properties

Cross Section Area, A	Radius of Gyration, i	Elastic Section Modulus, Z	Second Moment of Area, I
31.893cm ²	12.59cm	404.49cm ³	5,056.12cm ⁴

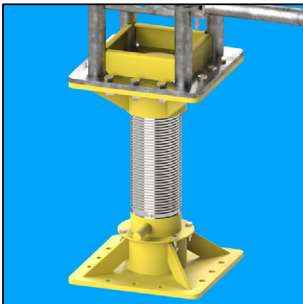




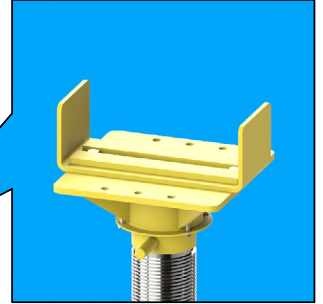
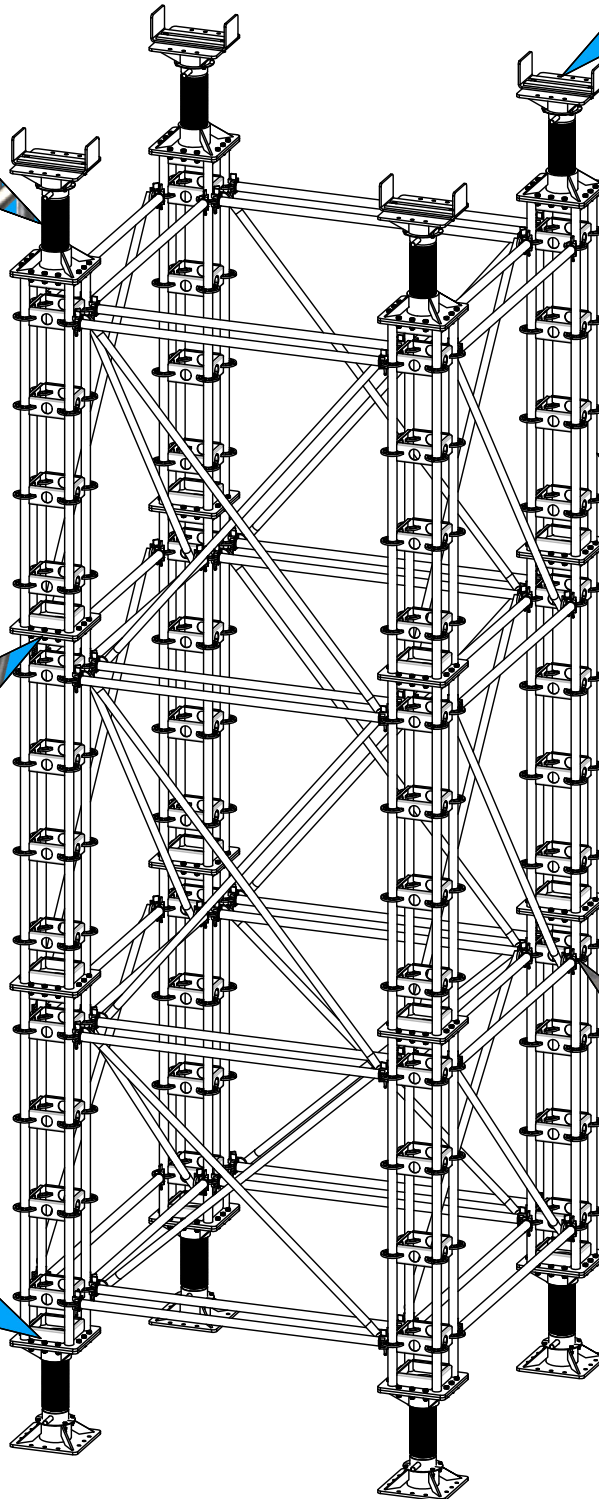
The Giantshore Jack is designed to allow for 280 ~ 580mm adjustable extension to suit the construction site's requirement; jacks should be greased before every use.



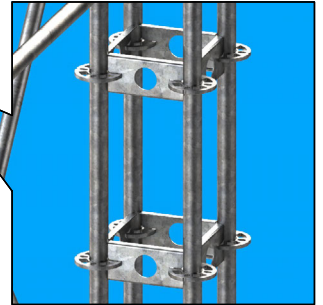
To secure end-to-end connections, 12 nos. of M16 (HT) bolts and nuts should be used; be sure to tighten before continuing erection or use.



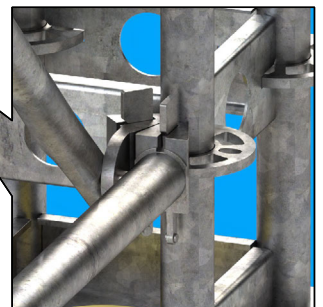
Bottom jack optional subject to site requirements. Anchor bolts fixed to ground are subject to design requirement.



The U-head shall be secured to the support jack by 2 nos. of M16 bolts and nuts, and provides clear width of 405mm for I-beam or steel bearer.



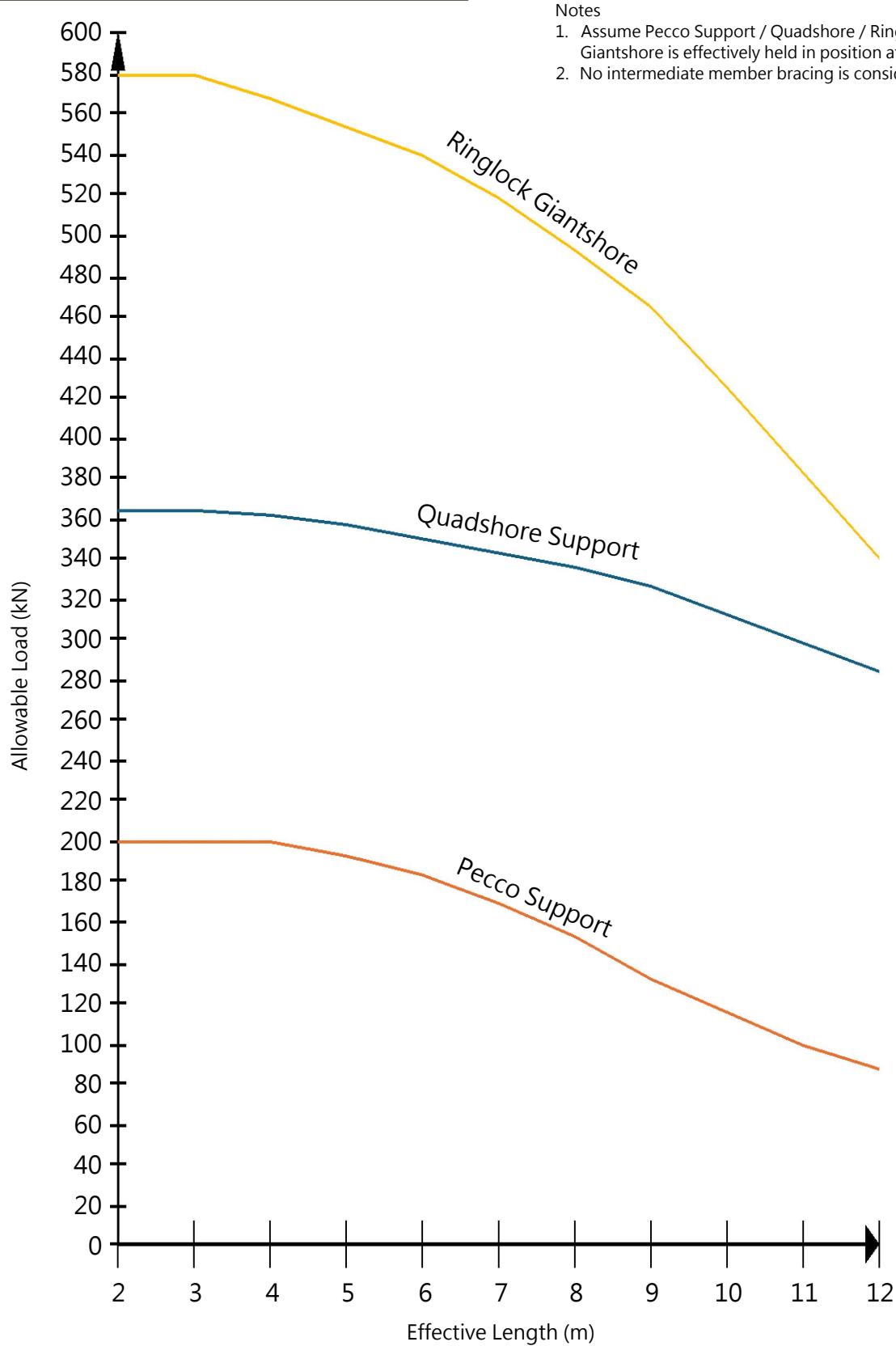
Standard Ringlock rosette spacing at 500mm provided on vertical tubes.



The Ringlock rosette design allows for both horizontal and diagonal bracing to be efficiently connected.



Pecco Support / Quadshore / Ringlock Giantsshore Load Chart

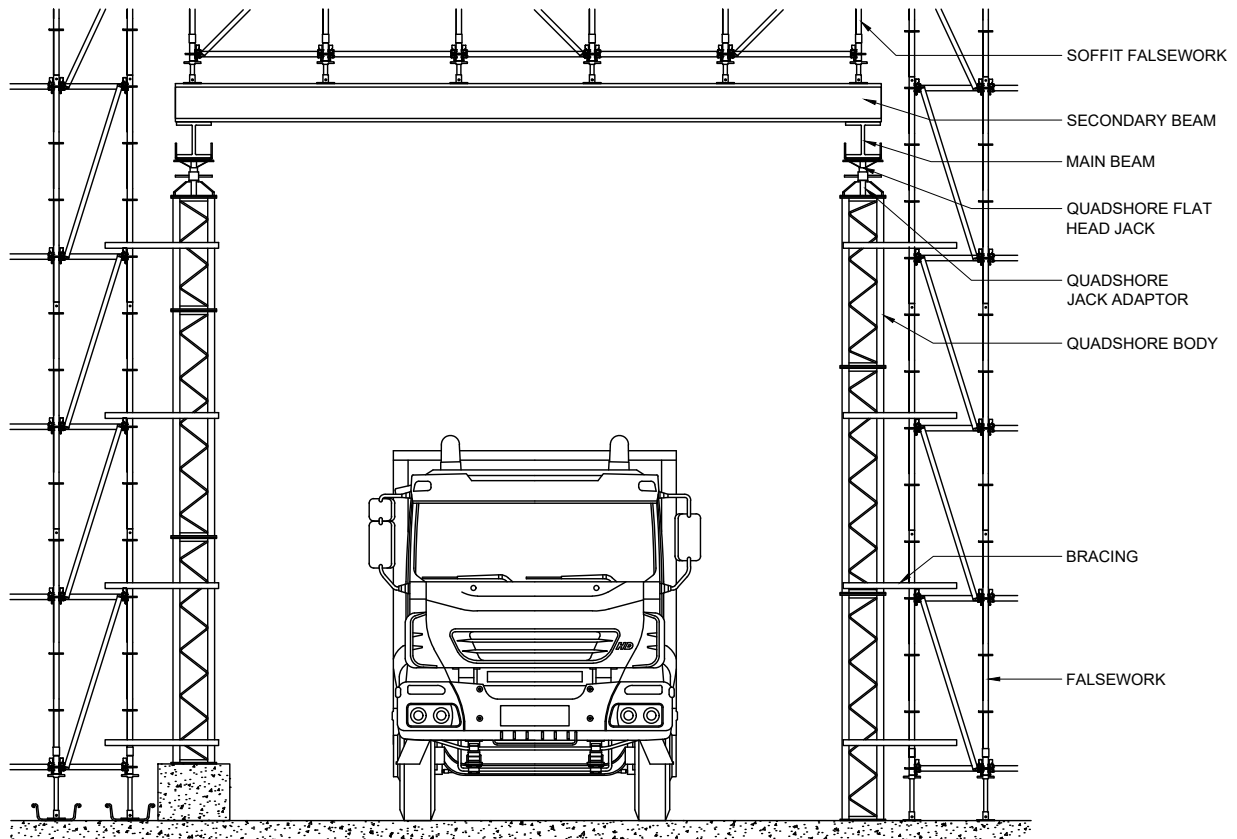


Notes

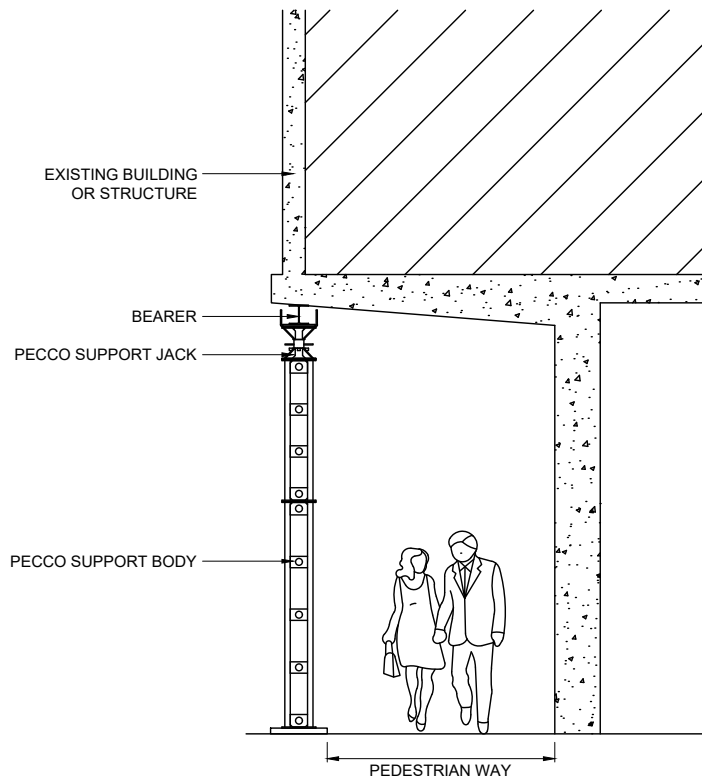
1. Assume Pecco Support / Quadshore / Ringlock Giantsshore is effectively held in position at both ends.
2. No intermediate member bracing is considered.



Temporary Vehicular Opening



Backpropping



Main Contractor	Contract / Project Site
Able Contractors Limited	Contract No. SS F501 Design and Construction of Redevelopment of Queen Mary Hospital at Pok Fu Lam Road, Hong Kong, Phase 1 - Main Works
China State Construction Engineering (Hong Kong) Ltd	Construction of Public Rental Housing Development at Shatin Area 52 Phases 3 & 4
Gammon Construction Ltd	TKW/1/002 - Redevelopment at Ma Tau Wai Road / Chun Tin Street Project
Gammon Engineering & Construction Co Ltd	Residential Development at KIL 11257, Sheung Shing Street, Ho Man Tin
Gammon Engineering & Construction Co Ltd	Residential Development at TPTL No. 214, Fo Yin Road, Pak Shek Kok, Tai Po
Leighton Contractors (Asia) Ltd	H2634 - Contract No. SS C505 - Construction of Liantang / Heung Yuen Wai Boundary Control Point
New World Construction Company Limited	New World Centre Remodeling
Nishimatsu Construction Co Ltd	Contract 902 Nam Fung Tunnel and Ventilation Buildings
Hip Hing Construction Co Ltd	Proposed Residential Development at Lohas Park Package 5, Tseung Kwan O
Chun Wo Construction Co Ltd	Design and Construction of Redevelopment of Kwai Chung Hospital (Phase 1)
Shui On Building Contractors Ltd	Construction of Public Rental Housing Development at Shek Kip Mei Estate Phase 3, 6 & 7
Yau Lee Construction Co Ltd	Contract No. SSD502 Design and Construction of Kwun Tong Staff Quarters at 4 Tseung Kwan O Road, Kowloon
CR Construction Company Limited	Building Construction - Composite Development Project in Kwun Tong
China Overseas Building Construction Ltd	Proposed Residential Development at S.T.T.L. 605, Lok Wo Sha Lane, Ma On Shan
Unistress Building Construction Ltd	Carcass Works Contract for URA Hai Tan Street / Kweilin Street and Pei Ho Street Development at NKIL 6506, Sham Shui Po, Kowloon
Dragages Hong Kong Limited	Contract no. CV/2012/08 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works
Leader Joint Venture	Contract 1106 Diamond Hill Station Extension



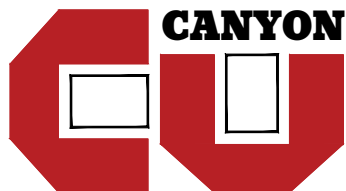
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ENGINEERING DEPT.: **d-e@canyonhk.com**

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