

Experience



the Hi-Lite Advantage

16K / 25K Aluminum Post Shores



16K / 25K ALUMINUM POST SHORES

Introduction _____	3	Lateral Bracing _____	18
Why Aluminum ? _____	4	Tube & Clamps _____	20
Features & Benefits _____	5		
		Accessories & Parts	
Product Information-25K Post Shores		• 25K Accessories - Parts _____	A1
• 25K Steel SJ Post Shores _____	7	• 16K Accessories - Parts _____	A3
• Special Length 25K Post Shores _____	8	• 16K/25K Accessories - Parts _____	A5
• 25K Capacities _____	9		
Product Information-16K Post Shores			
• 16K Steel SJ Post Shores _____	13		
• 16K Capacities _____	14		



The 16K/25K Aluminum Post Shores are primarily for applications where single leg elements are required and ideally suited for re-shoring of fly forming systems. It can also be handled with a crane, and may also be used quite successfully as a rolling or a flying system. (Consult with Hi-Lite Engineering for design)

This manual is published primarily for our customers, shoring designers and erectors this aluminum shoring system. It is intended only as a guide and should be used in conjunction with “generally accepted shoring design and safety regulations” in effect within the area and country of use.

The purpose of this manual is to simplify the understanding and use of the System. In this manual, each component of the 16K/25K Shoring Systems is fully described and illustrated. The features and benefits of using the Hi-Lite 25K Shoring system are outlined in depth and key elements are cross referenced to particular components.

The Manual covers various setup arrangements of the equipment; the correct use of the system including handling and maintenance of the equipment.

Local authorities and/or a locally registered Professional Engineer should approve all drawing for construction purposes.

Barry & Dave Jackson

JASCO SALES INC. / HI-LITE SYSTEMS



WHY ALUMINUM?



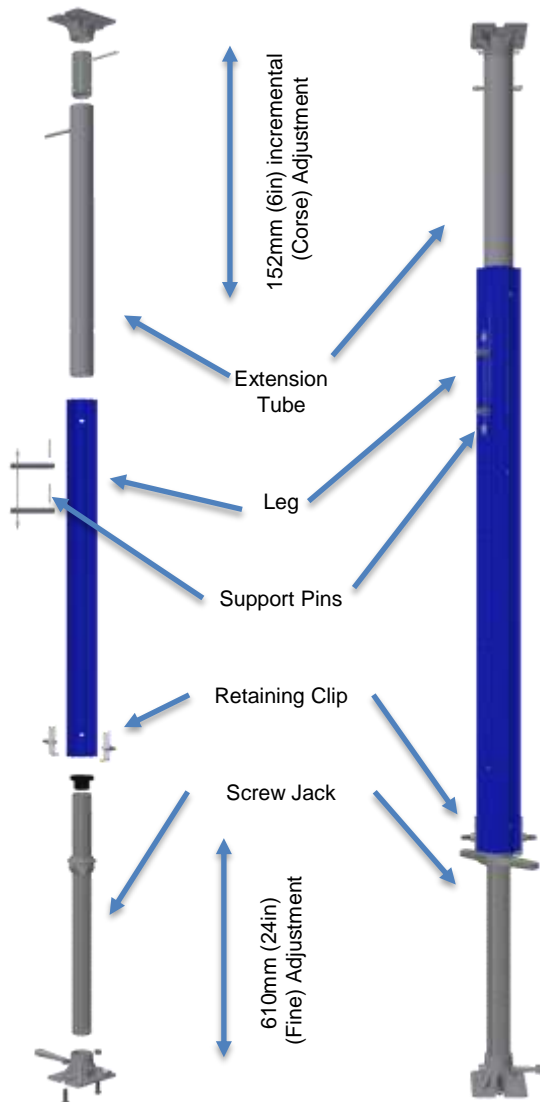
RECYCLABLE, SUSTAINABLE, VERSATILE:



- What exactly does it mean to be green? For a material or product to be considered green, it should have low impact on the environment and therefore favor environmentalism—the practice of protecting and conserving the natural environment and its resources. Aluminum is one such material.
- What makes aluminum a green material? Aluminum is recyclable, sustainable, and versatile; three key qualities for any material being used to construct a green building. Historically, aluminum has proven to be one of the most important materials in successful recycling programs. Aluminum offers high scrap value, widespread consumer acceptance, and aluminum recycling enjoys significant industry support.
- Using recycled building materials saves substantial total energy otherwise used for material production. Producing recycled aluminum building materials reduces pollution emissions and energy use, taking only five percent of the energy needed to produce raw aluminum from bauxite. Jerry Powell, Editor, Resource Recycling says, "Many construction materials are hard, if not impossible, to recycle, and this is a negative factor when wishing to undertake a sustainable construction project. This is not the case, however, for aluminum as a building product. The sizable energy savings attained when scrap aluminum is re-melted makes the recovered metal very valuable."
- Aluminum, one of the most abundant elements in the earth's crust, is an ideal natural materials choice for sustainable construction products.
- From a green design perspective, aluminum's reduced cost over a longer life cycle offers builders a viable economical choice. Aluminum resists the ravages of time, temperature, corrosion, humidity, and warping, adding to its incredibly long life cycle.



16K / 25K PS FEATURES & BENIFITS



HI-LITE ALUMINUM POST SHORES ARE ENGINEERED FOR QUICK AND EASY HANDLING, REQUIRED MINIMAL MAINTENANCE, AND CAN BE EASILY CONVERTED TO SHORING FRAMES

Hi-Lite aluminum Post Shores handle quickly and easily. They are reusable, need minimal maintenance. It all adds up to reduced material coast, lower labour expanse and a job done on schedule.

LOAD CAPACITY

Hi-Lite's 16K/25K Post Shores are built to safely support loads of up to 11.2kN (25,000lb) with a *Factor of Safety* of 2.5:1.

Load capacity depends on the length of the post shore and whether it is braced or un-braced. Please consult our engineering department for details.

EFFICIENT

The light weight means one man can handle, assemble and disassemble, that provides a more streamlined operation and less downtime.

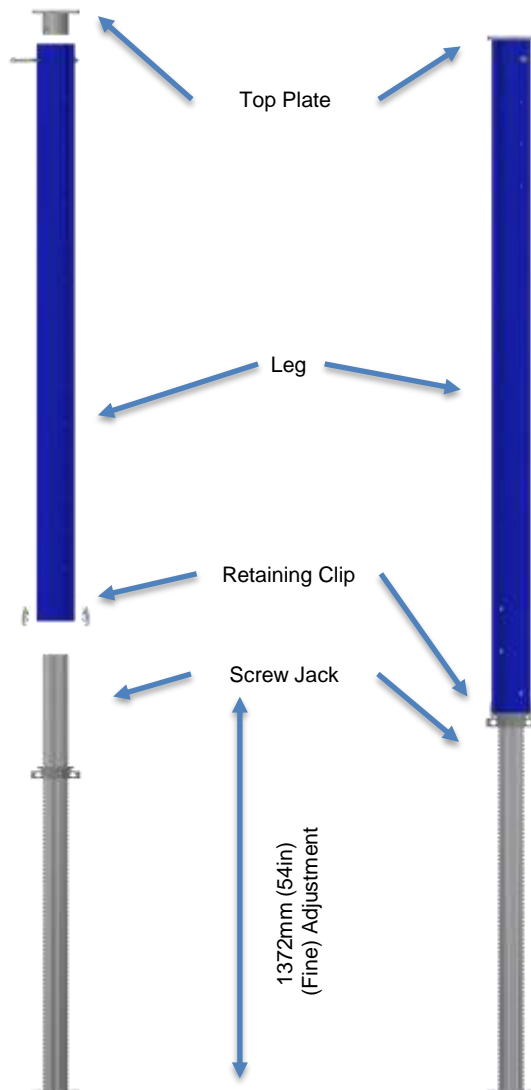
VERSATILE

Post shores convert to frames and back with demountable ledgers. That reduces your inventory even more.

Each post is equipped with a full-length vertical T-bolt slot on all four sides that accepts bolts with three different heads.



16K / 25K PS FEATURES & BENIFITS



ANY CONFIGURATION

All your components can now be fastened in all four directions anywhere along the length of the post using any standard ½" bolt. Almost any configuration – including sloped surfaces – can be accommodated so your team can get on with their work no matter what surprise comes up.



PRODUCT HIGHLIGHTS

- Engineered for quick and easy handling
- 50% of the weight of comparable steel capacity post shores.
- Minimal maintenance required.
- 4 vertical T-bolt slots run the full length of the post shore
- Post shores convert to frames by adding demountable ledgers.



25K STEEL SJ POST SHORES

25PS4&3

25K Post Shore 1.2m (4') Leg
c/w .9m (3') ET
21.9 kgs / 48.28 lbs

25PS5&3

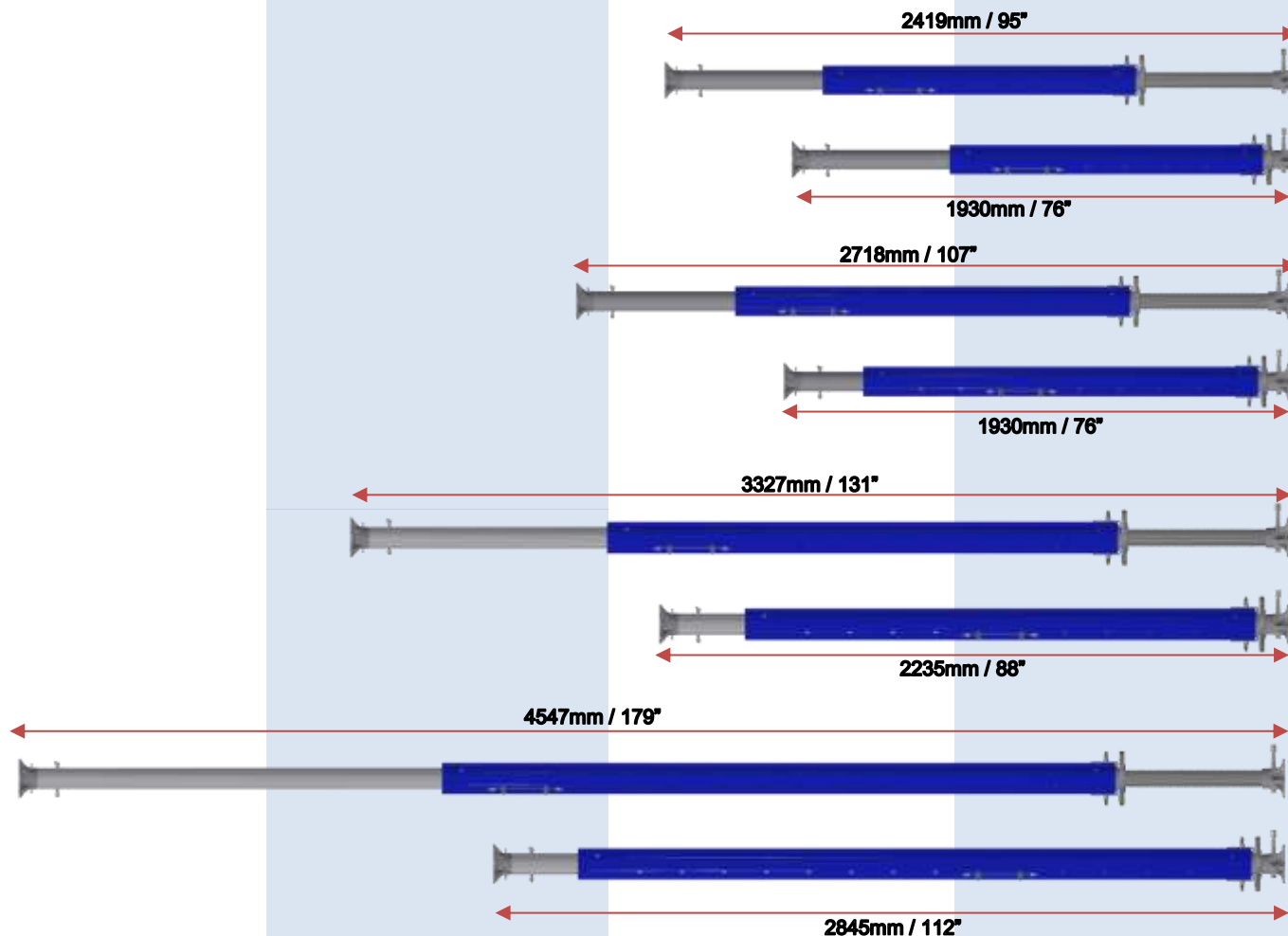
25K Post Shore 1.5m (5') Leg
c/w .9m (3') ET
23.3 kgs / 51.37 lbs

25PS6&4

25K Post Shore 1.8m (6') Leg
c/w 1.2m (4') ET
25.9 kgs / 57.0 lbs

25PS8&6

25K Post Shore 2.4m (8') Leg
c/w 1.8m (6') ET
31.0 kgs / 68.2 lbs





SPECIAL LENGTH 25K POST SHORES

25PS10&8

25K Post Shore 3.0m (10') Leg
c/w 2.4m (8') ET
36.1 kgs / 79.5 lbs

25PS12&10

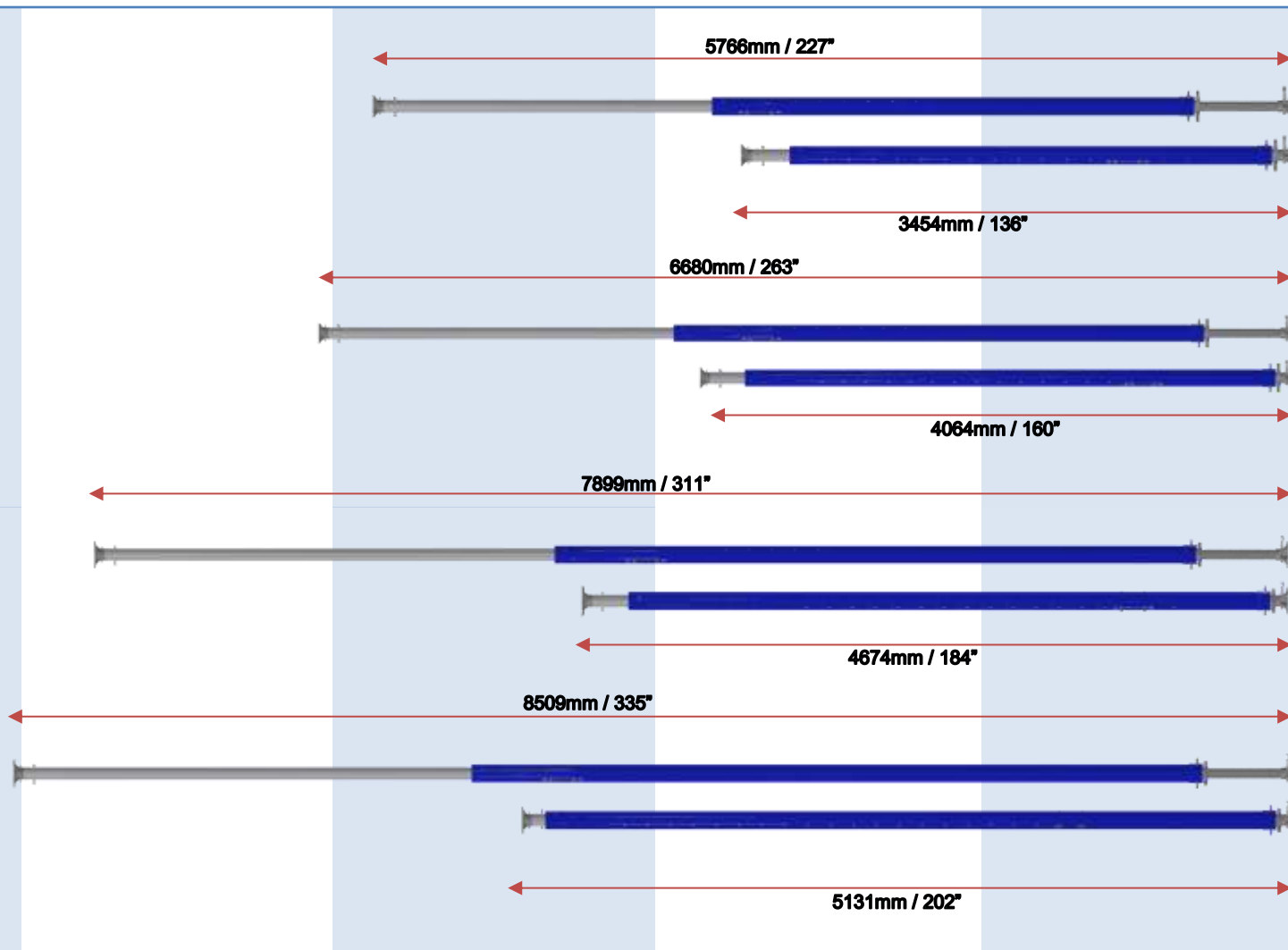
25K Post Shore 3.6m (12') Leg
c/w 3.0m (10') ET
41.2 kgs / 90.7 lbs

25PS14&12

25K Post Shore 4.5m (14') Leg
c/w 3.6m (12') ET
46.3 kgs / 101.9 lbs

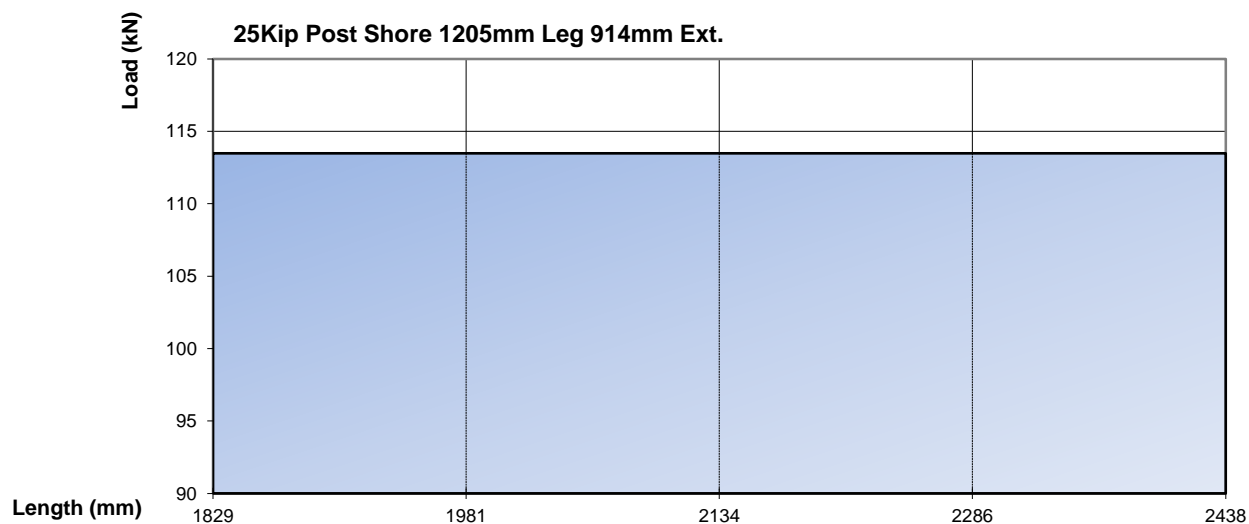
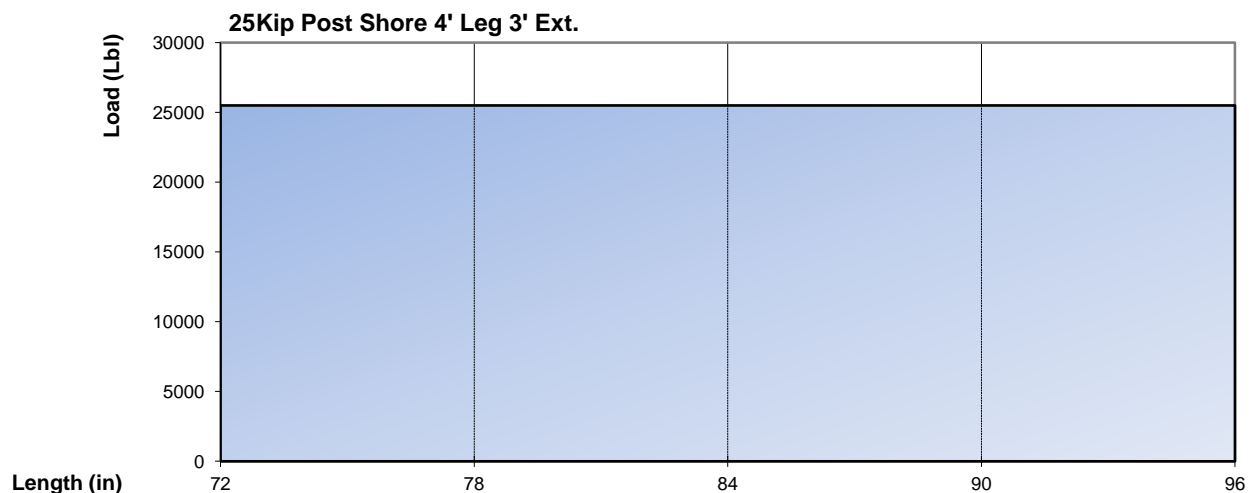
25PS16&12

25K Post Shore 4.8m (16') Leg
c/w 3.6m (12') ET
49.1 kgs / 108.3 lbs





25K PS4&3 - CAPACITIES

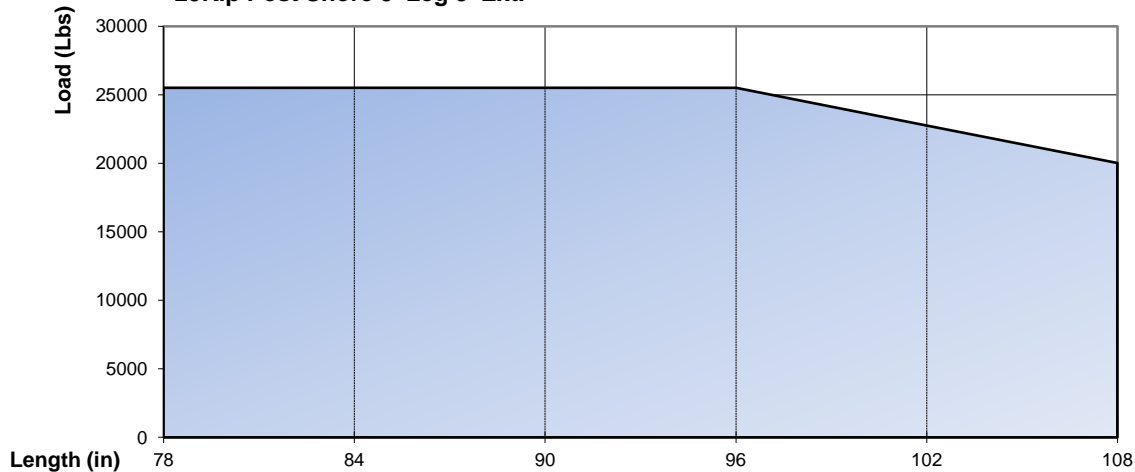


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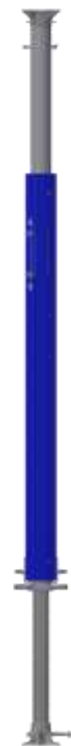
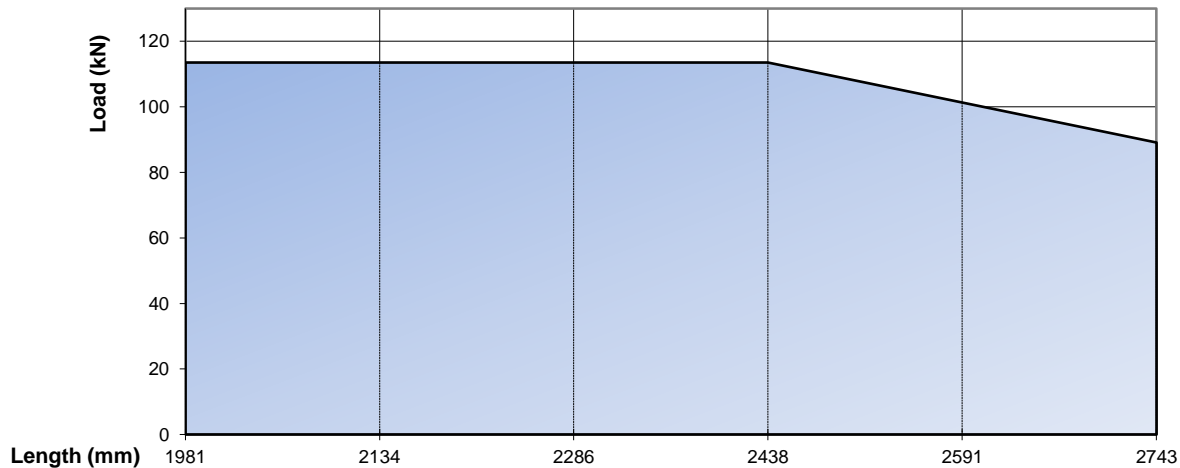


25PS5&3 - CAPACITIES

25Kip Post Shore 5' Leg 3' Ext.



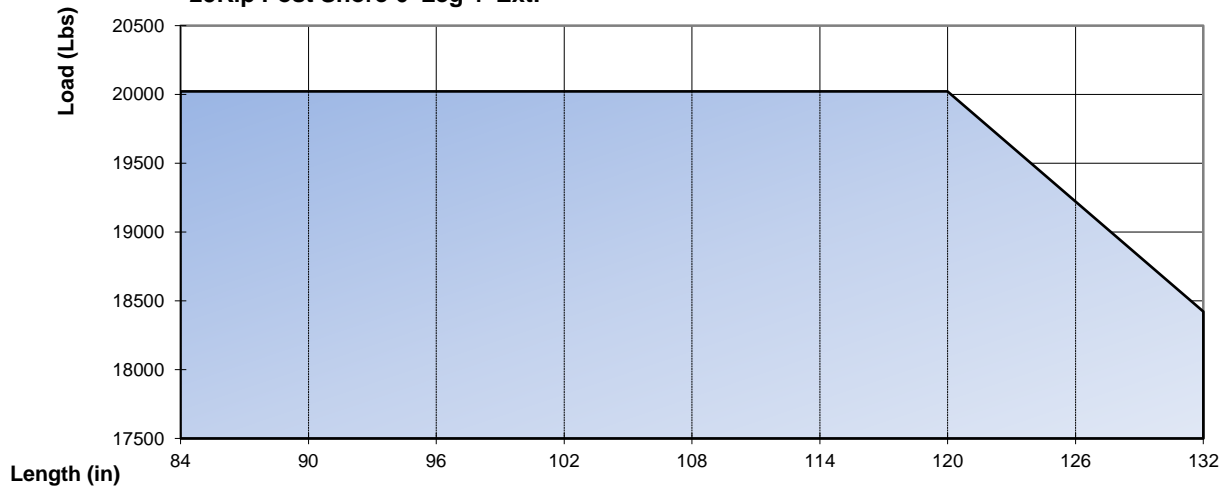
25Kip Post Shore 1510mm Leg 914mm Ext.



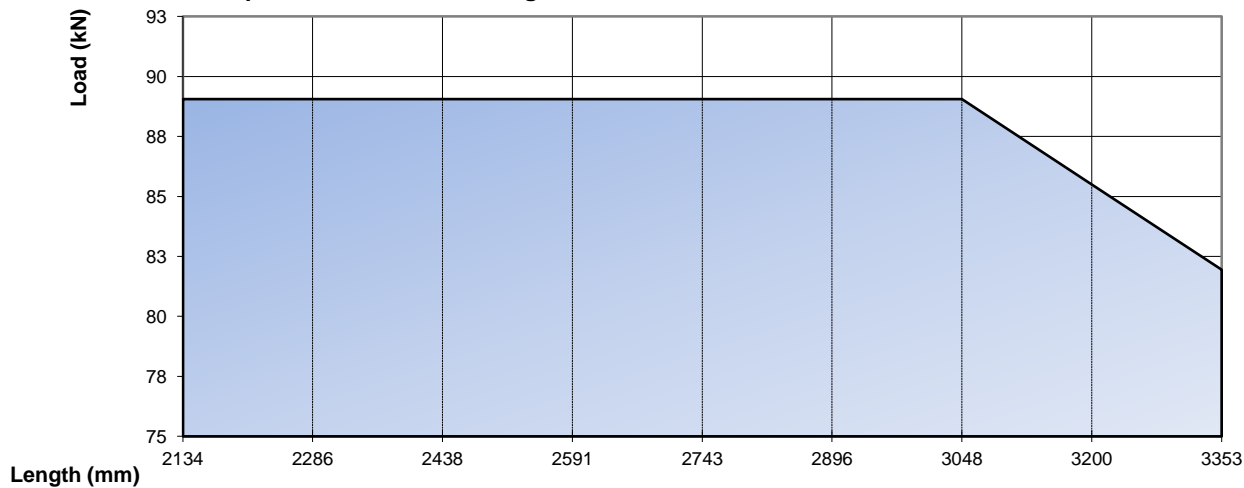


25PS6&4 - CAPACITIES

25Kip Post Shore 6' Leg 4' Ext.



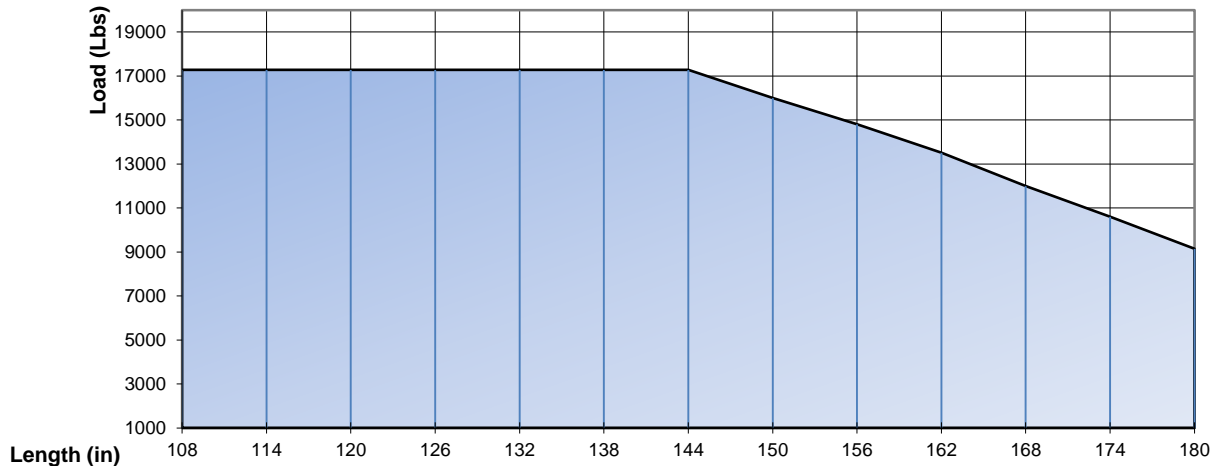
25Kip Post Shore 1815mm Leg 1219mm Ext.



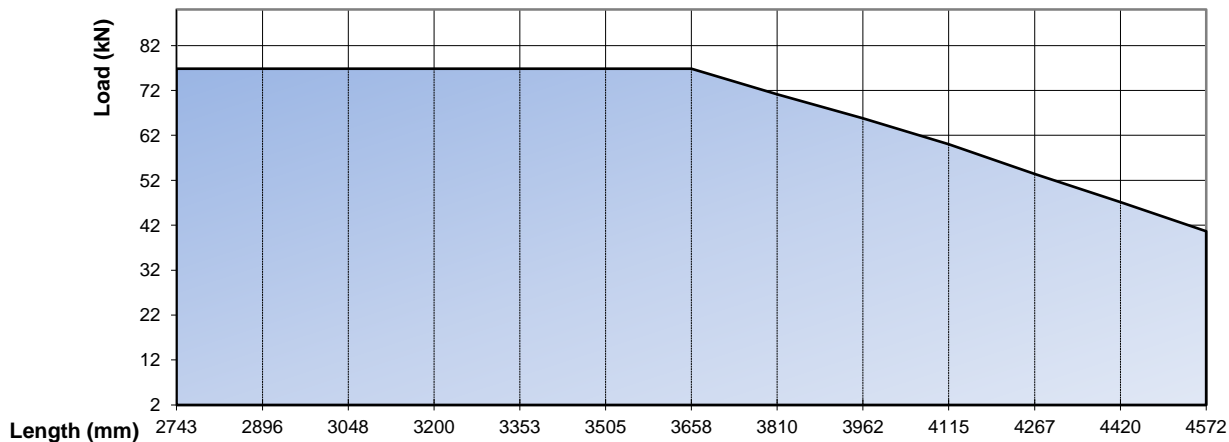


25PS8&6 - CAPACITIES

25Kip Post Shore 8' Leg 6' Ext.



25Kip Post Shore 2425mm Leg 1829mm Ext.





16K STEEL SJ POST SHORES

16PS4&3

16K Post Shore 1.2m (4') Leg
c/w .9m (3') ET
16.kgs / 35.2 lbs

16PS5&3

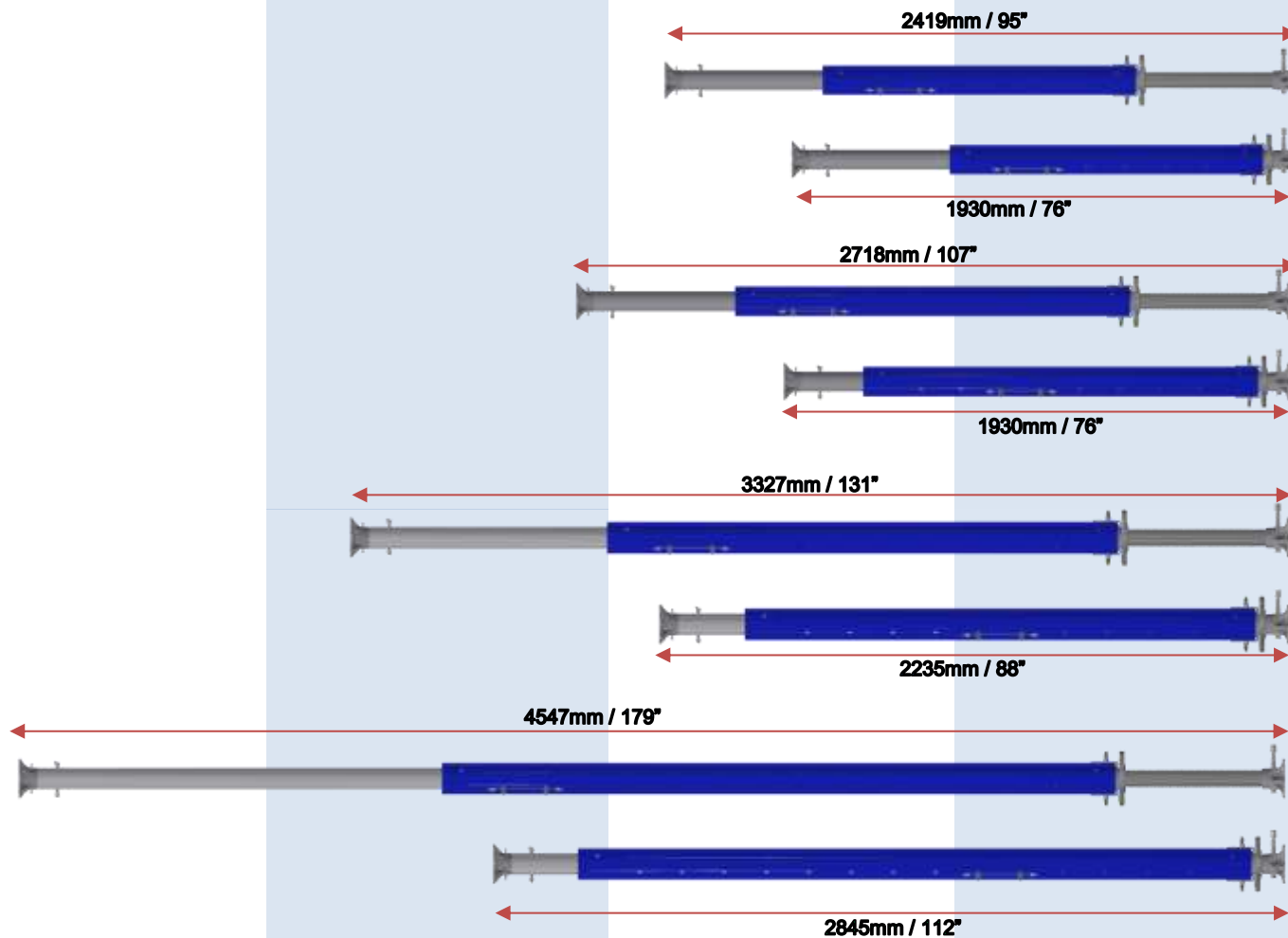
16K Post Shore 1.5m (5') Leg
c/w .9m (3') ET
17.1 kgs / 37.7 lbs

16PS6&4

16K Post Shore 1.8m (6') Leg
c/w 1.2m (4') ET
19.0 kgs / 41.9 lbs

16PS8&6

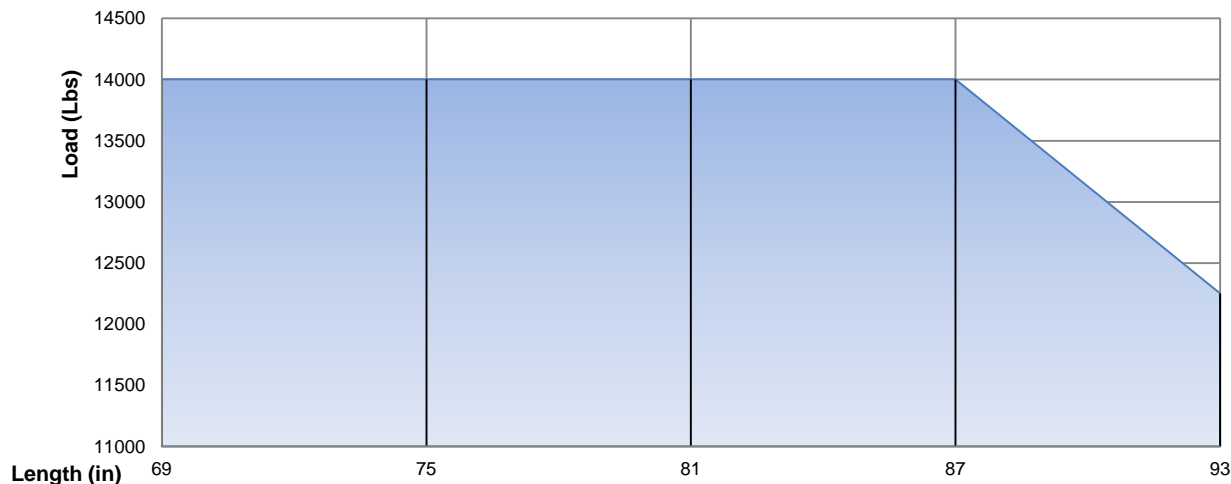
16K Post Shore 2.4m (8') Leg
c/w 1.8m (6') ET
22.8 kgs / 50.3 lbs



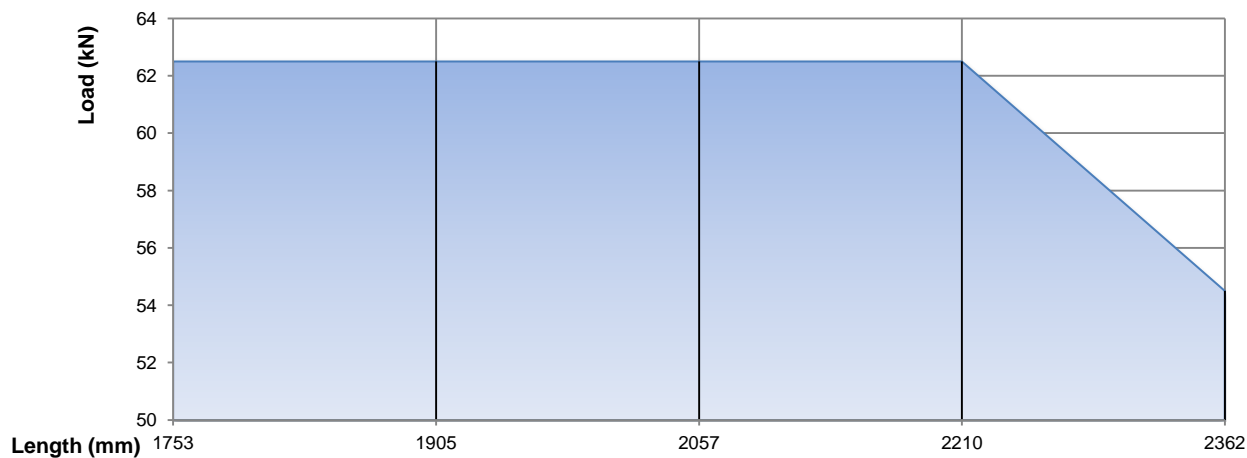


16K PS4&3 - CAPACITIES

16K Post Shor 4' Leg 3' Ext



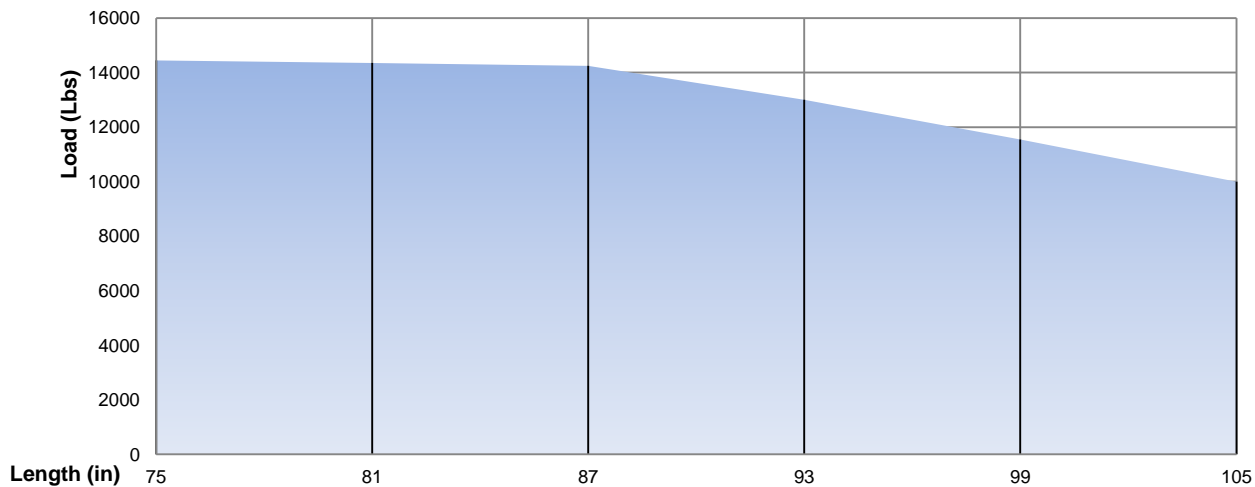
16K Post Shore 1205mm Leg 914 mm Ext.



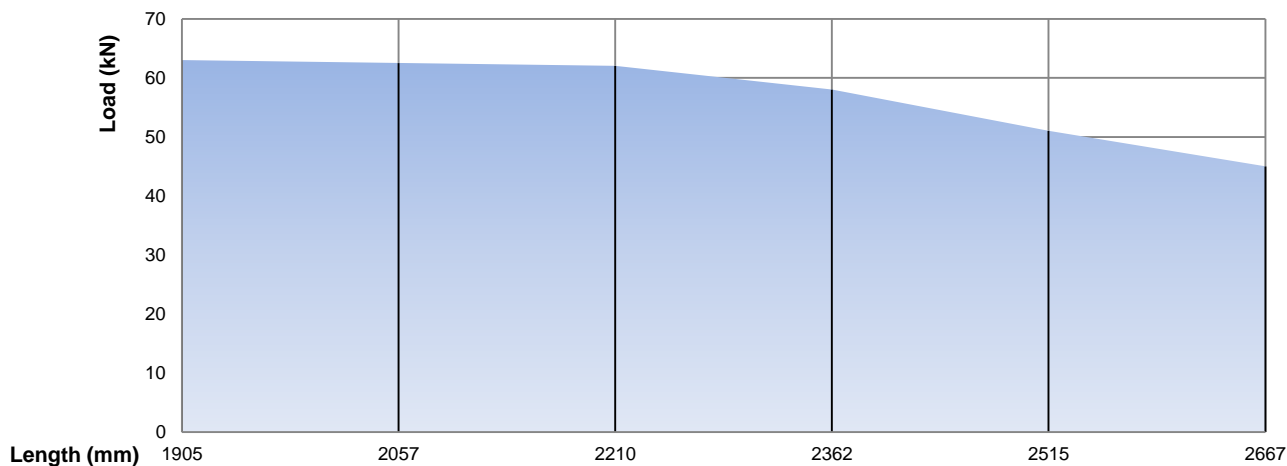


16K PS5&3 - CAPACITIES

16K Post Shore 5' Leg 3' Ext.



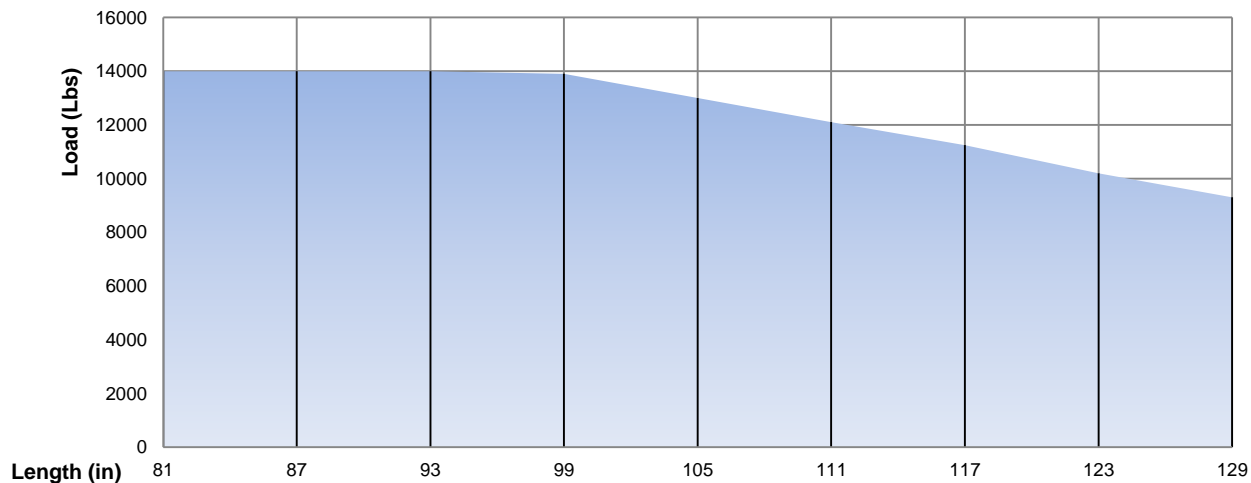
16K Post Shore 1510mm Leg 914mm Ext.



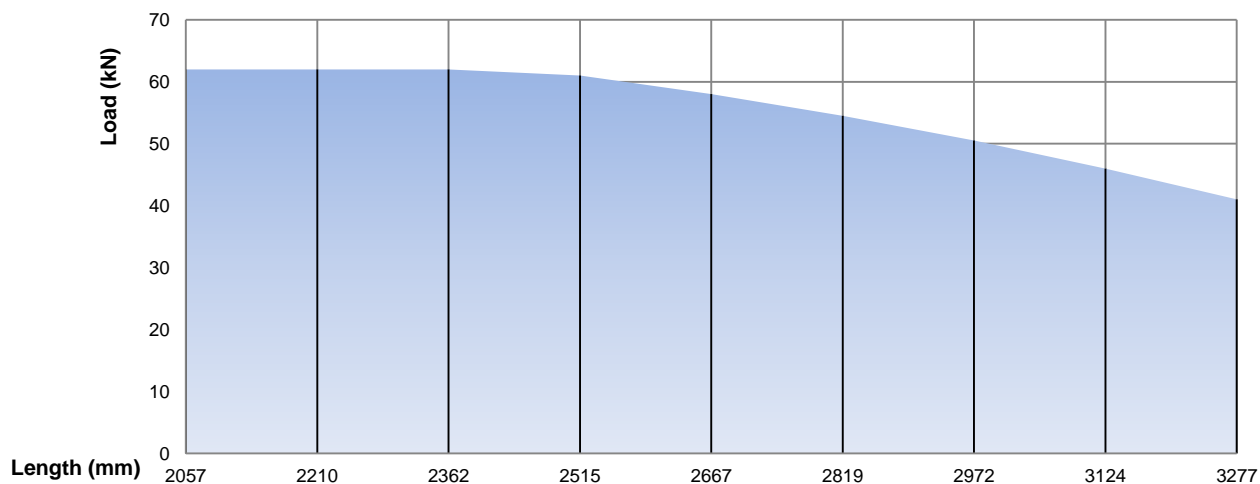


16K PS6&4 - CAPACITIES

16K Post Shore 6' Leg 4" Ext



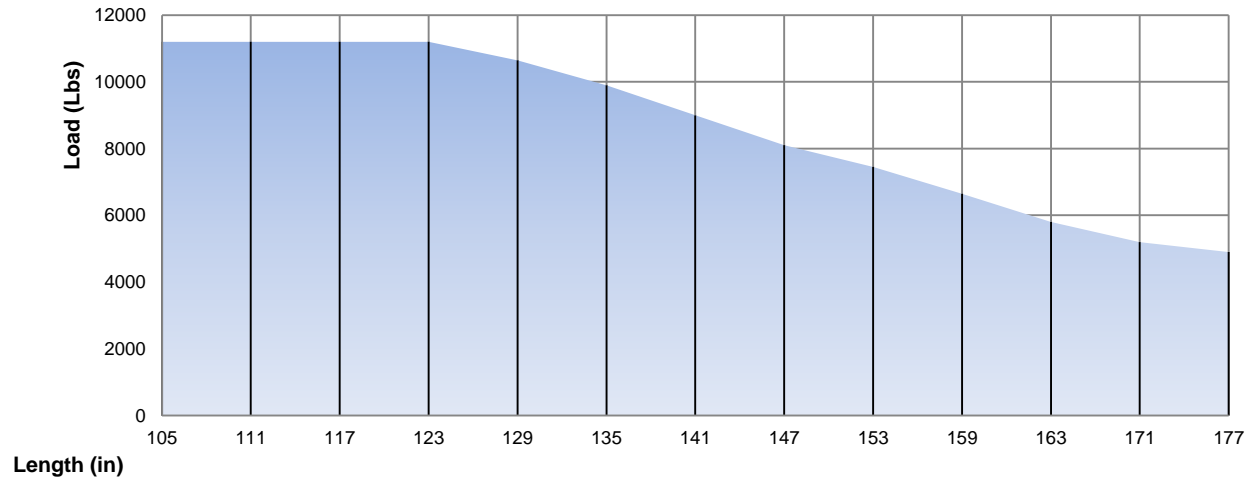
16K Post Shore 1815mm Leg 1219mm Ext



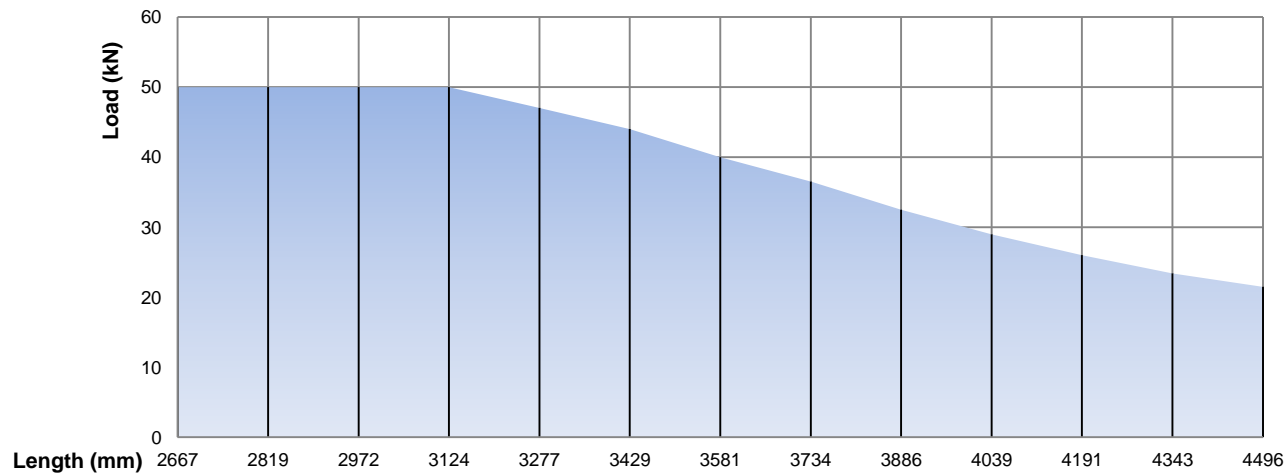


16K PS8&6 - CAPACITIES

16K Post Shore 8' Leg 6' Ext



16K Post Shore 2425mm Leg 1829mm Ext





GENERAL RECOMMENDATIONS

- Lateral bracing shall be designed by a qualified structural engineer in accordance with National Building Codes and Local regulations.
- Towers exceeding the allowable height-to-base ratio shall be braced in both directions.
- Clamping of external bracing shall be at the intersection of vertical legs with the bracing tube.
- Do not connect bracing tubes to the frame's ledgers.
- Whenever possible, the horizontal bracing shall be tied to permanent structures such as walls, columns.
- If no walls or columns are present, guying can be used as an alternative.

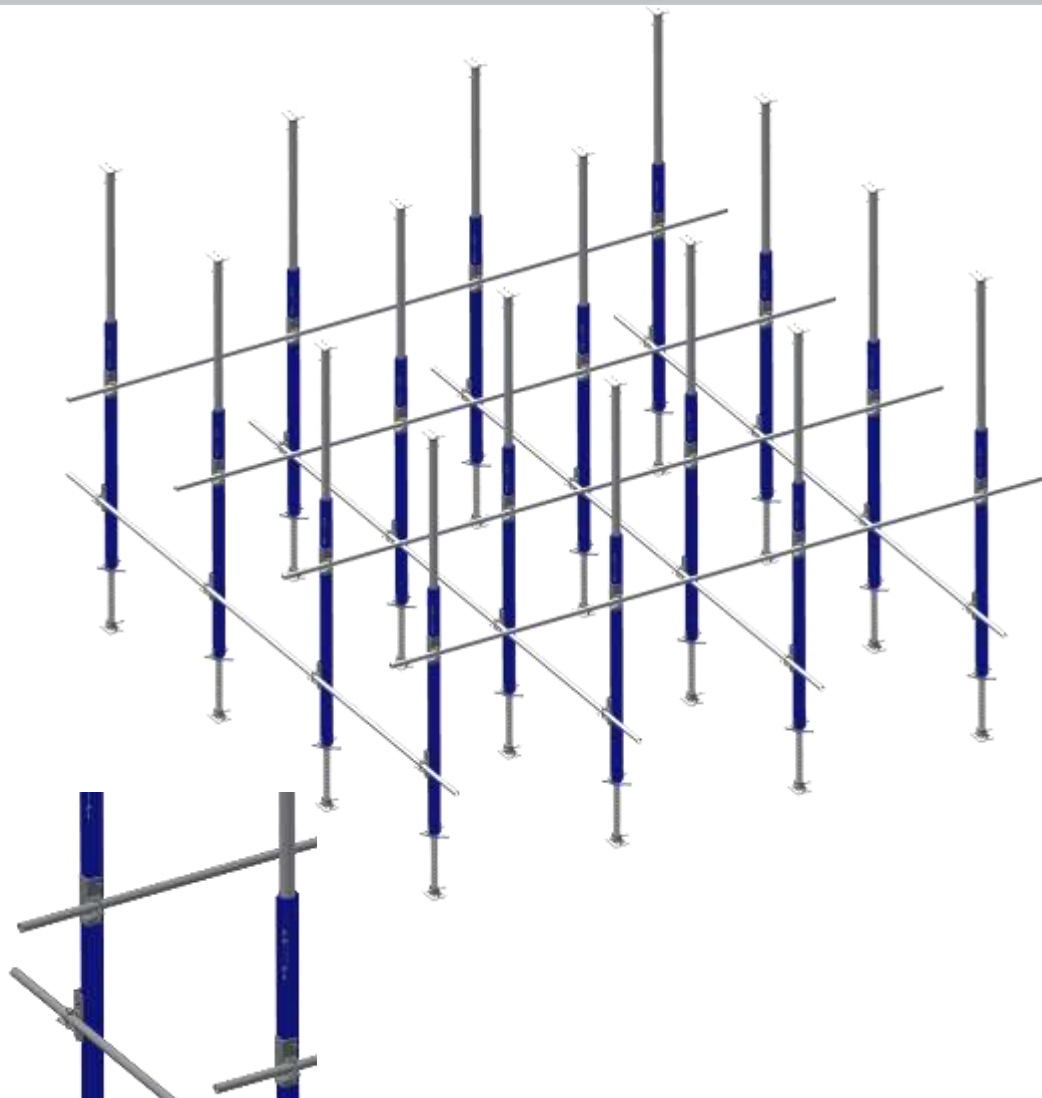
IMPORTANT:

The temporary shoring structures shall be structurally analyzed to include all lateral loads including wind pressure, lateral loads due to motorized equipment, lateral load components due to inclined supports or live and dead loads, etc

If required, consult Hi-Lite Systems Engineering Department.

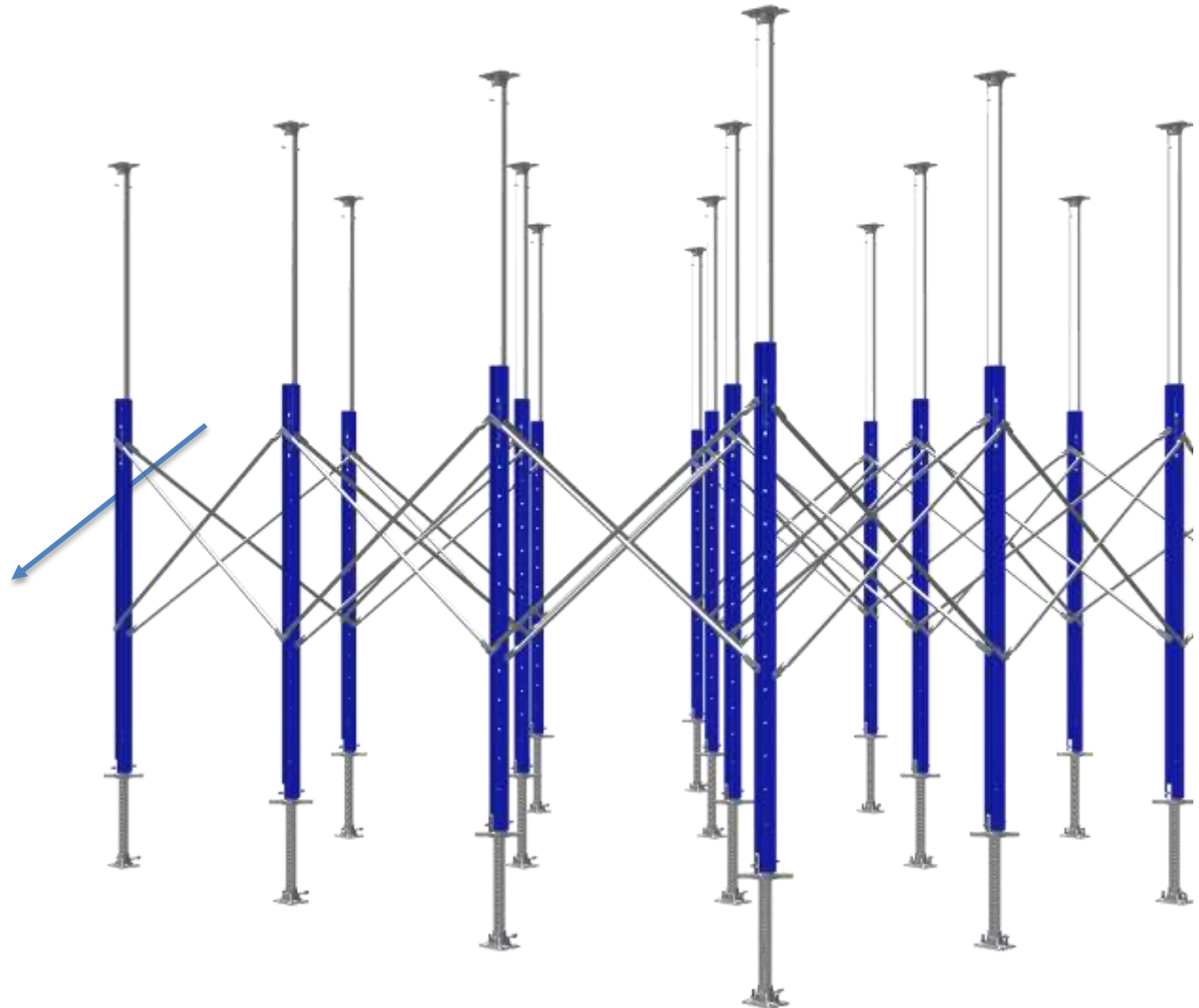
As a Guideline: In Canada, horizontal bracing is placed at a height not exceeding 3 times the minimum base width. In the USA, except for some states, the rule is 4 times the minimum base width.

BE SURE TO CHECK ALL RELEVANT CODES.



SLOPPING SURFACES

- Lateral bracing shall be designed by a qualified structural engineer in accordance with National Building Codes and Local regulations.
- Towers exceeding the allowable height-to-base ratio shall be braced in both directions.
- Clamping of external bracing shall be at the intersection of vertical legs with the bracing tube.
- Do not connect bracing tubes to the frame's ledgers.
- Whenever possible, the horizontal bracing shall be tied to permanent structures such as walls, columns.
- If no walls or columns are present, guying can be used as an alternative.

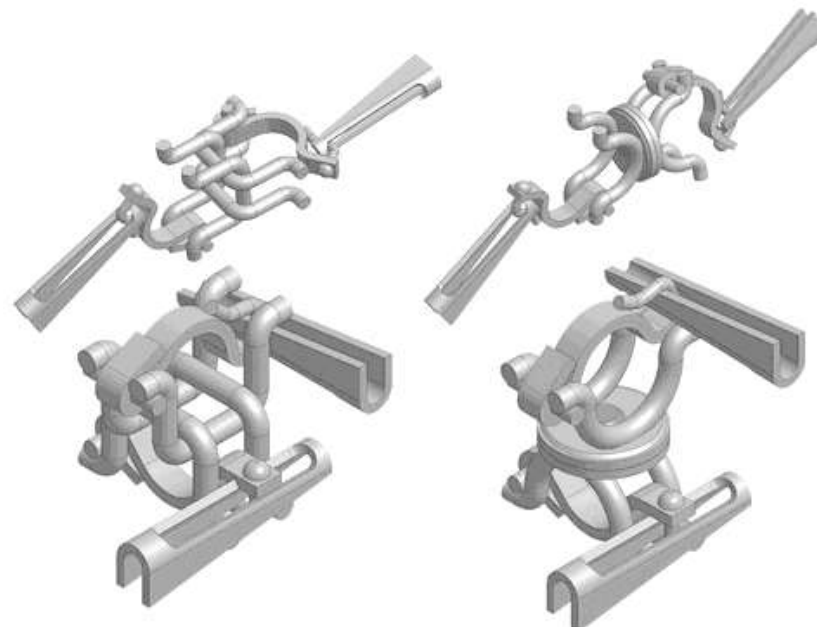




TUBE & CLAMPS

Wedge clamps are used to secure various OD tubing or pipe to each other, to frame legs or Extension Tubes for auxiliary bracing of towers. They are much faster and more convenient to use than conventional bolt clamps. Wedge clamps can be either fixed or swivel type. The fixed wedge clamp secures tubes at right angles to each other. Swivel wedge clamps allow connection of tubes at any angle.

Tube-and-clamp bracing is added to maintain capacity when building a support system of frame towers over 3 tiers high, to give extra stability. The clamps are adequately tightened with moderate blows from a carpenter's hammer.





25K ACCESSORIES - PARTS

25LG4

25K Alum Leg 1.2m (4')
5.8 kgs / 12.7 lbs

25LG5

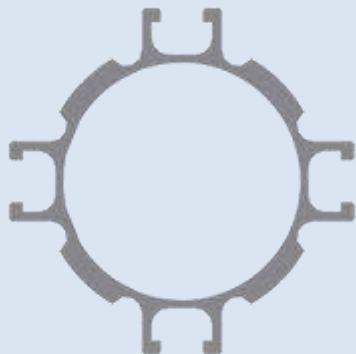
25K Alum Leg 1.5m (5')
7.2 kgs / 15.9 lbs

25LG6

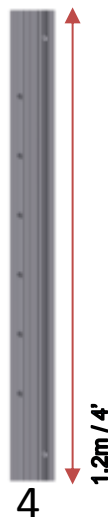
25K Alum Leg 1.8m (6')
8.7 kgs / 19.0 lbs

25LG8

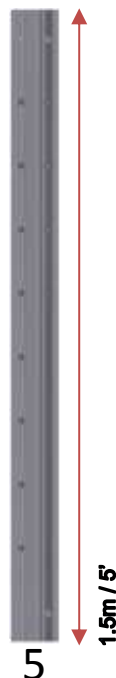
25K Alum Leg 1.8m (8')
11.5 kgs / 25.4 lbs



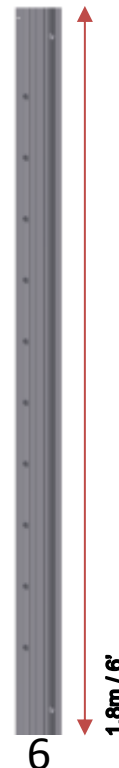
25K LEGS (FRAME / POST SHORE)



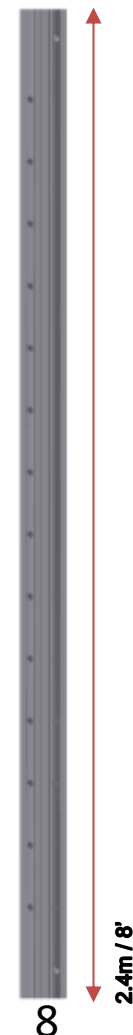
4



5



6



8



25K ACCESSORIES - PARTS

25ET36

25K Extension Tube 0.9m (3')
3.4kgs / 7.4 lbs

25ET48

25K Extension Tube 1.2m (4')
4.5kgs / 9.9 lbs

25ET72

25K Extension Tube 1.8m (6')
6.7kgs / 14.8 lbs

25ET96

25K Extension Tube 2.4m (8')
9.0kgs / 19.7 lbs

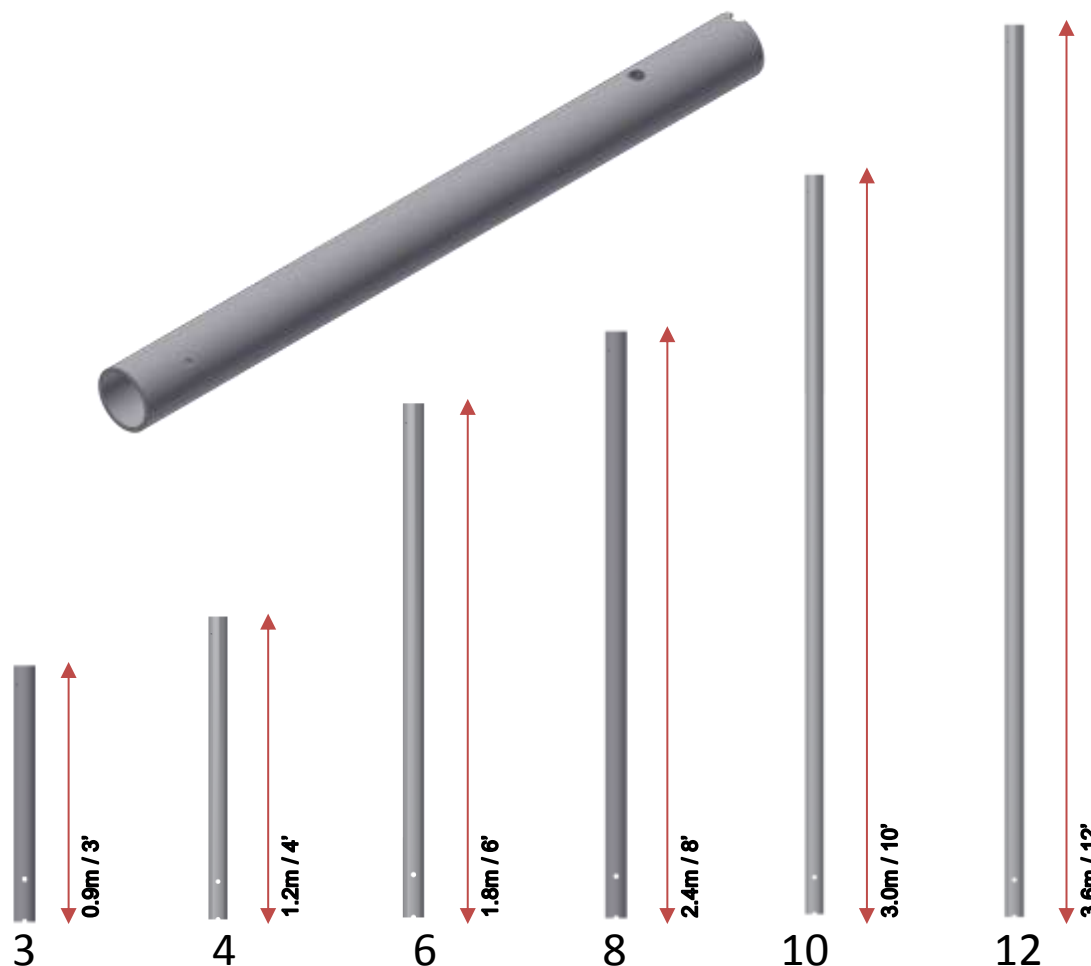
25ET120

25K Extension Tube 3.0m (120')
11.2kgs / 24.6 lbs

25ET144

25K Extension Tube 3.6m (144')
13.4kgs / 29.5 lbs

25K EXTENSION TUBE (FRAME / POST SHORE)





16K ACCESSORIES - PARTS

16LG4

16K Alum Leg 1.2m (4')
4.5 kgs / 9.9lbs

16LG5

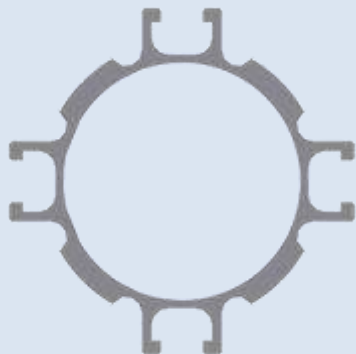
16K Alum Leg 1.5m (5')
5.7 kgs / 12.4 lbs

16LG6

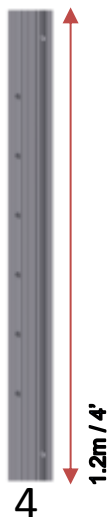
16K Alum Leg 1.8m (6')
6.8 kgs / 14.9 lbs

16LG8

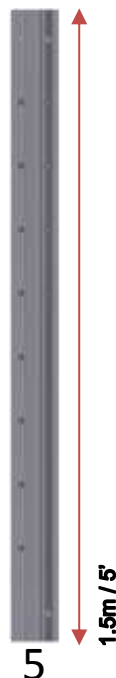
16K Alum Leg 1.8m (8')
9.0 kgs / 19.8 lbs



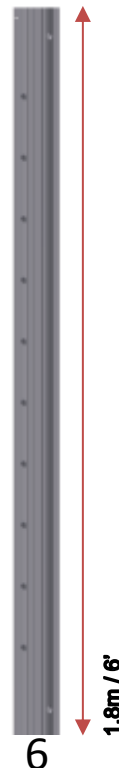
16K LEGS (FRAME / POST SHORE)



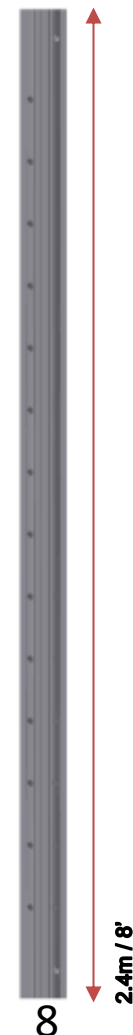
4



5



6



8



16K ACCESSORIES - PARTS

16ET36

16K Extension Tube 0.9m (3')
2.4kgs / 5.3 lbs

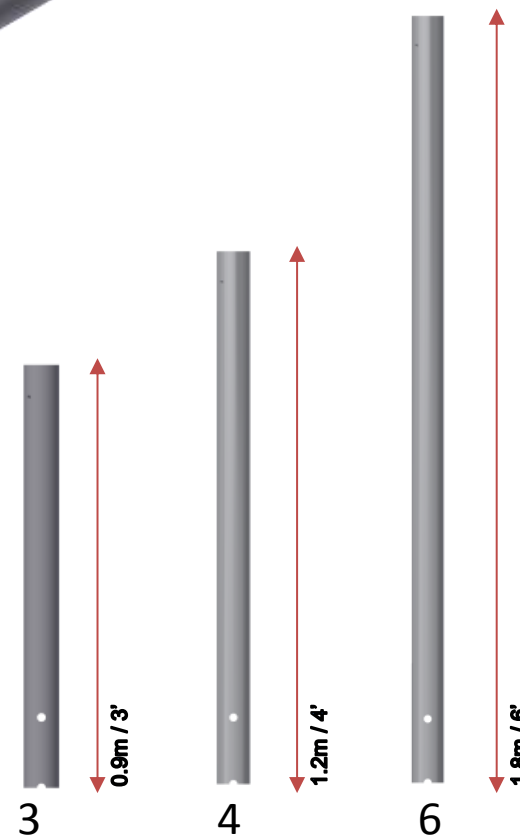
16ET48

16K Extension Tube 1.2m (4')
3.2 kgs / 7.0 lbs

16ET72

16K Extension Tube 1.8m (6')
4.8 kgs / 10.5 lbs

16K EXTENSION TUBE (FRAME / POST SHORE)





16K/25K ACCESSORIES - PARTS

SJRC

Screw Jack Retaining Clip
0.18 kgs / 0.4 lbs



25SP

25K Extension
Support Pin
0.4kgs / 0.8lbs



HDPR1/8

R Pin 1/8in
0.001kgs / 0.002lbs



SJ60FX

60mm Screw Jack c/w BP,
Taper Pin / Cap
6.6kgs / 14.7 lbs



SJ60SH

48mm (1.9) SJ Shaft
3.7 kgs / 8.2 lbs



SH60AD

12/16/25K Adapter Stl
152mm (6in)
0.3 kgs / 0.6 lbs



SH60BP

12/25K/25K Base Plate
2.6 kgs / 5.7 lbs



CL25LG48

25K Leg Clamp 48mm
Swivel c/w T-Bolts
2.6kgs / 5.7lbs



SJ60BPFX

60mm SJ BP Fixed
2.64 kgs / 5.82 lbs



SJ60S

1.9in Screw Jack
6.6kgs / 14.7 lbs

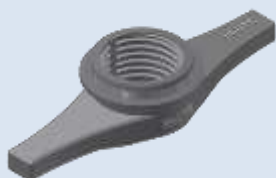




16K/25K ACCESSORIES - PARTS

SJ60N

60mm Screw Jack Nuts
1.3 kgs / 2.92 lbs



SJ60TP

60mm SJ Taper Pin
0.39 kgs / 0.88 lbs



SJ60SCBLA

60mm SJ Stabilizer Cap
Black
0.05 kgs / 0.1 lbs



HDTB1/2X1-3/4C

T-Bolt c/w Hex Nut Crp
1/2x1-3/4in
0.07 kgs / 0.16 lbs



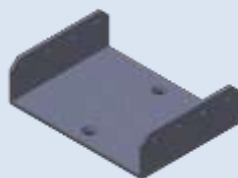
HDCTP5/16X3-1/2

COTTER PIN 5/16X3-1/2
0.04 kgs / 0.09 lbs



SJUH108

Screw Jack U Head
10x8in Heavy Duty
6.8kgs / 15 lbs



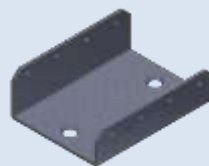
SJUH88

Screw Jack U Head 8x8in
5.4kgs / 12 lbs



SJUH58

Screw Jack U Head 5x8in
2.3kgs / 5 lbs



BMALCLPC

Alum Beam Clip c/w Hi-Lite T-Bolt
0.2kgs / 0.3lbs



SHSPU

16K Extension
Support U Pin
0.4kgs / 0.8lbs





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Hi-Lite products are utilized by contractors in over thirty countries around the world.

Experience

the Hi-Lite Advantage.

Experience

the Hi-Lite Advantage.

Call 1-877-HILITE-1 (1-877-445-4831) to request a demonstration of our Hi-Lite Aluminum Systems.

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