

# Experience



the Hi-Lite Advantage

Telescopic Aluminum Fly Form System

January 2021



## TELESCOPIC ALUMIUM FLY FORM

Introduction_____	3	• Telescopic Advantage_____	12
Why Aluminum ?_____	4	• Fly Form Studs_____	13
Features & Benefits _____	5	• Wedge Units & Blocking_____	14
Product Information – Telescopic Fly Form		• Plan Bracing _____	15
• Truss Components_____	6	• High Truss Bracing _____	16
• Truss Height Range_____	8	• Cross Bracing_____	17
• Moving Equipment_____	9	• Aluminum Beams_____	18
• Re-Shoring_____	10	• Beam Clips_____	19
• Edge & Drop Beams_____	11	Standard Truss Configurations_____	A1
		Parts List_____	A8



# INTRODUCTION

The Telescopic Aluminum Fly Form System is a ganged or large area formwork system. It is flown with a crane, and may also be used quite successfully as a rolling shoring 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. Each component of the Telescopic Aluminum Fly Form Systems is described and illustrated in Section I. (General Information). The features and benefits of using the Hi-Lite Telescopic Aluminum Fly Form System are outlined in depth and key elements are cross referenced to particular components.

The Manual in Section II (Assembly and Instructions) 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*

**HI-LITE SYSTEMS**



# WHY ALUMINUM?



## RECYCLABLE, SUSTAINABLE, VERSATILE:



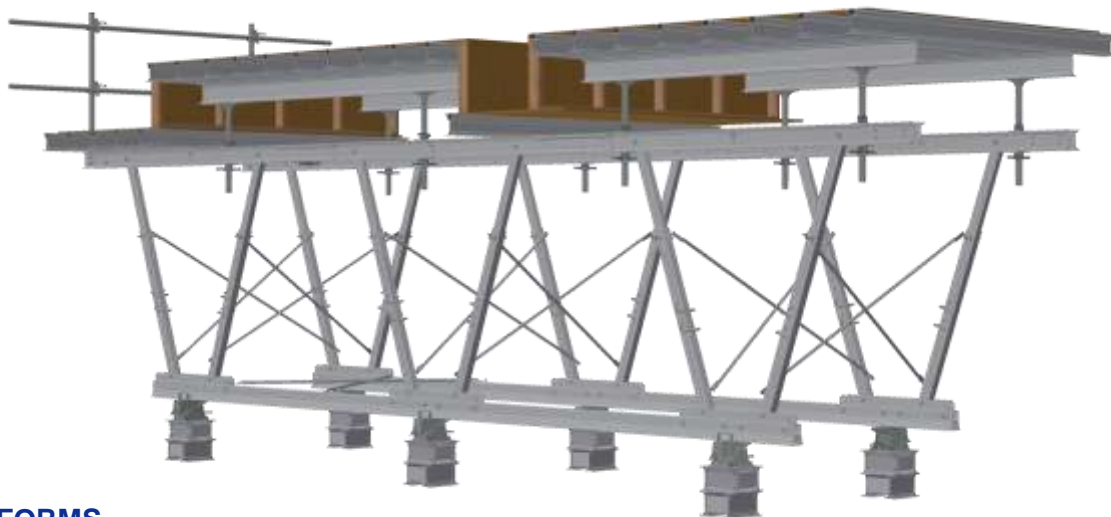
- What exactly does it mean to be green? For a material or product to be considered green, it should have low impact on the environment and therefore favor environmentalism—the practice of protecting and conserving the natural environment and its resources. Aluminum is one such material.
- What makes 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.



# FEATURES & BENIFITS

**HI-LITE Aluminum Fly Forms** are ideally suited for any multiple-story application. Condominiums, apartments, townhouses, large bay shopping malls, below grade structures and tunnels can also be constructed faster.

**The HI-LITE Aluminum Fly Form** is the most efficient Fly Forming System available today. The telescopic modular concept reduces the skilled labor required for assembly and use. It also reduces the cost of filler strips and minimizes material wastage by being able to easily move the form up against one wall and only use filler strips on the other side. Crane time is also reduced significantly.



## BENEFITS OF HI-LITE'S TELESCOPIC FLY FORMS

- Manufactured in HI-Strength & LITE-Weight aluminum.
- Engineered with unique telescopic features for superior flexibility of use.
- Ideally suited for any multiple re-use application.
- Average weight of 8 lbs. per sq. foot permit larger surface areas compared to steel.
- Rapid and simple telescopic truss height adjustment for different floor heights.
- Unique mobile accessories eliminating positioning by crane. Fly and drop reducing crane time.
- No costly lowering on flat slab structures.
- Wedges replace time-consuming flip screw jacks.
- Can be telescopically lowered Mechanically in minutes to go under edge beams.
- Modular components for simple, quick assembly and disassembly for storage or transport.
- Uses standard Aluminum Beams.
- Average panel weight is approximately 39 Kgs/m<sup>2</sup> (8 lbs/ft<sup>2</sup>).
- Requires minimal maintenance
- Versatile and economical to use.
- Eliminates the loss of Crane time in placement.
- Designed to get the most out of 17.5 mm (11/16") plywood.





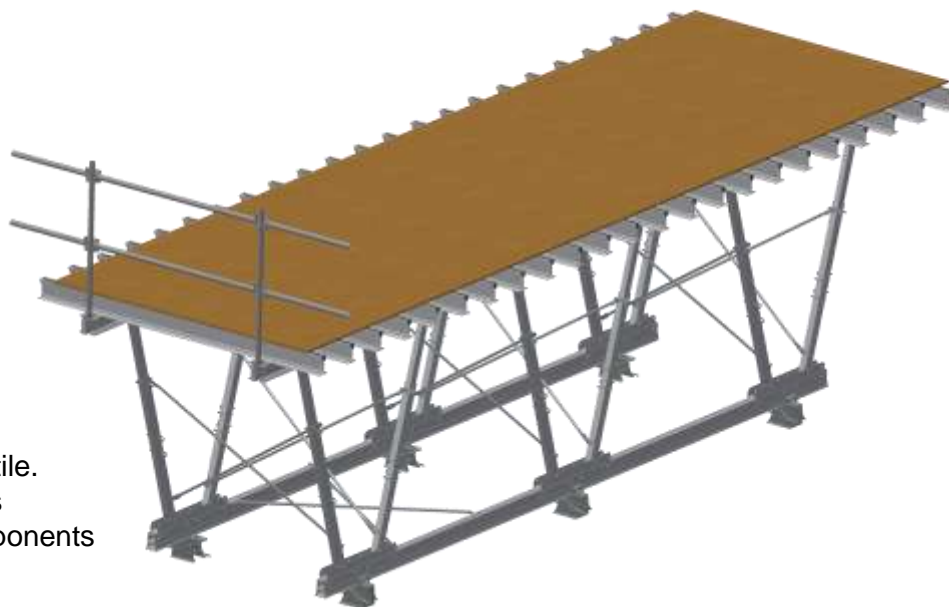
## GENERAL INFORMATION

This section of Telescopic Fly Form manual is intended to show the component parts of the form with part numbers and weights. Pictures or drawings are included as appropriate for easy identification

### Complete Basic Unit

The HI-LITE Telescopic Fly Form is designed to be very versatile. The components are built to complement each other as well as being able to adjust to accommodate future projects. The components necessary for a basic fly form are:

- a) 2 – 3 truss units (product part code FFTU##-NN)
- b) 1 – 2 cross brace(s) for every strut (depending on height) plus 1 or 2 across the bottom chords for squaring the form (depending on length)
- c) wedge unit (product part code FFWDG) & wedge hook (product part code FFWDGH) for every “v” intersection on each truss unit
- d) pick brackets (product part code FF PICK)
- e) guard rail post holders (product part code FFGRPH) for every truss end that extends outside the building
- f) guard rail post for every guard rail post holder- 48mm (1.9”) tubes or 38mm×89mm (2”×4”) lumber
- g) guard rails the width of the truss
- h) 48mm x 48mm (1.9”×1.9”) aluminum right angle clamps (product part code CL##) for each guard rail post.
- i) # HI-LITE aluminum beams (product part code ALBM##) (for quantity see the Beam Manual)
- j) A more in-depth description of the components follows.

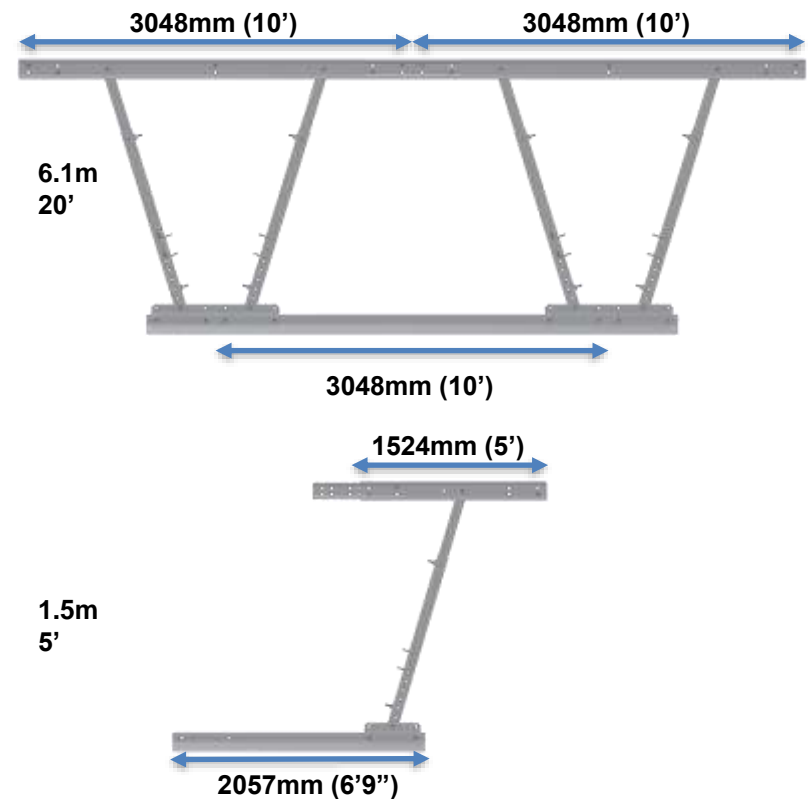
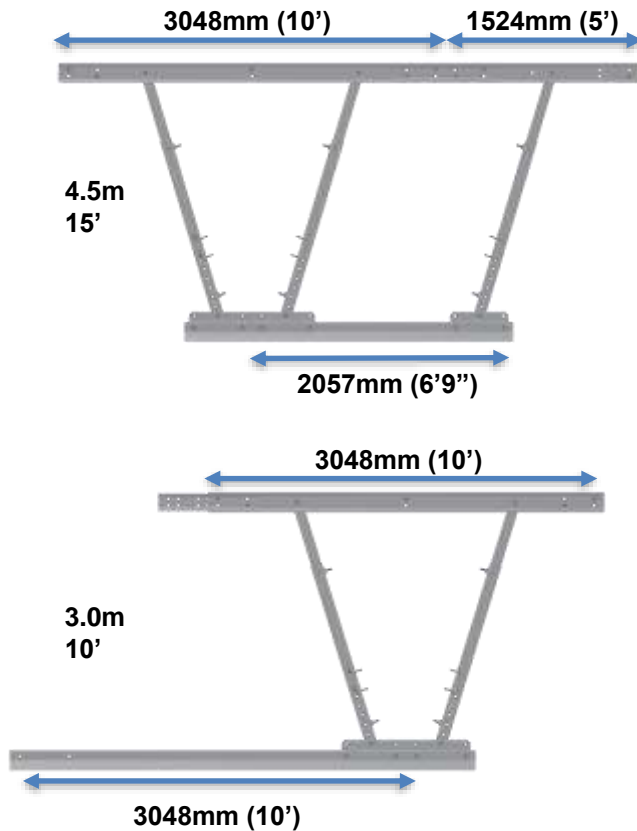




# COMPONENTS

## Truss Length Identification


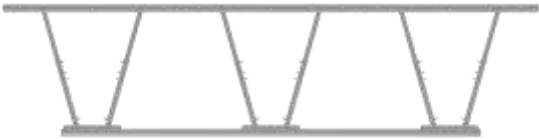
Trusses from 15 to 55 ft long are built up from four basic configurations of truss components, a 15ft stand-alone unit and a 20 ft. stand alone basis truss unit as well as two truss extensions of 5 ft. and 10 ft. as illustrated below. Longer units are made up by joining 15 and/or 20 ft sections with appropriate lengths of extensions.





# TELESCOPIC TRUSS HEIGHT RANGE

## MINIMUM & MAXIMUM TRUSS HEIGHT (Excluding Plywood, Beams, Wedges)

STRUT SIZE (Nominal)		MINIMUM HEIGHT		MAXIMUM HEIGHT	
					
M	FT	M	FT	M	FT
0.90	3	0.827	32.6" (2' 8")	1.512	59.5" (4' 11")
1.20	4	1.274	50.2" (4' 2")	2.158	85" (7' 1")
1.50	5	1.646	64.8" (5' 5")	2.785	109.7" (9' 2")
1.80	6	1.992	78.4" (6' 6")	3.406	134.1" (11' 2")
2.40	8	2.651	104.4" (8' 10")	4.637	182.6" (15' 2")
3.00	10	3.280	129.5" (10' 10")	5.860	230.9" (19' 3")

## FLY FORM STRUT RANGE CONFIGURATIONS

The Telescopic height range of a Fly Form shown in the table above permits users to use the **same** product to deal with a wide range of finished floor heights by varying the height of the adjustable struts., a key benefit to minimizing costs and speeding cycle time.

Maximum and minimum heights of the Fly Form are measured from the bottom of the bottom chord to the top of the top chord, excluding wedge units, aluminum joist beams and plywood.

The choice of strut for the product is determined by the range of floor heights that are proposed for the project. Note that these are multiple combinations that can be chosen as the ranges overlap.

Consult HI-LITE Engineering with the specifics of your project.





# MOVING EQUIPMENT

## FMFMS44 - FF 4x4 Solid Form Mover

Form movers are basically crowbars with wheels that are specially designed to compliment the grooves on the underside of the bottom chord. Used to lift the form off wood blocks and either lower on to the rollout rollers or move the form sideways, away from walls and/or columns.



## FMRR – Rollout Roller

Small light weight roll out rollers with special side guides that keep the fly form moving straight. Form rollout rollers are placed under the bottom chord of the fly form and are used to roll the fly form out of a bay to the pick up position for flying.



## FMLJD – Mechanical Jack Dollie

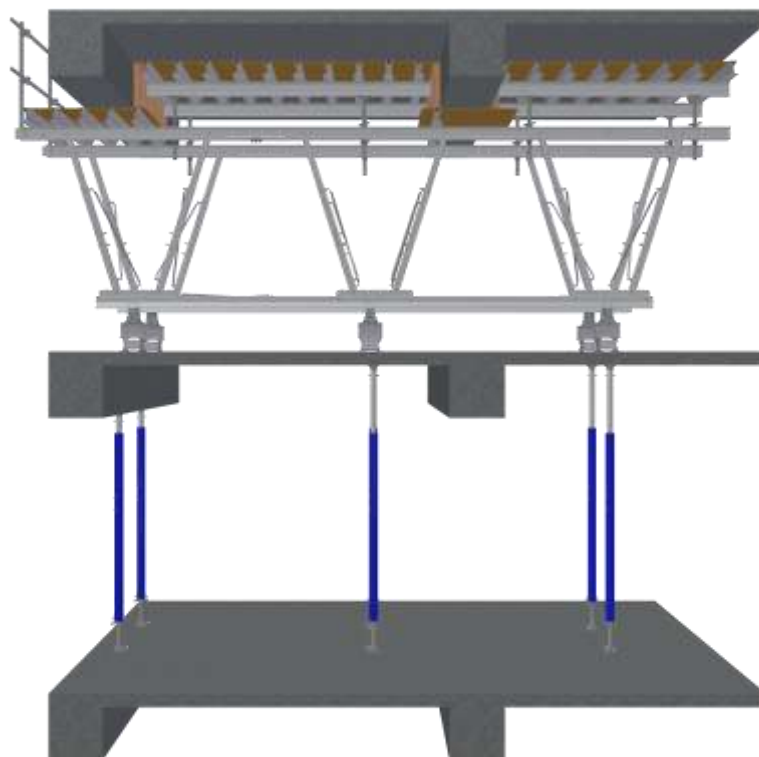
Mechanical jack dollies raise or lower the truss from 533mm (21") down to 90mm (3.5"). The jack dollies enable the form to be easily moved in any direction for exact positioning and quick leveling. The jack is rolled around the slab and, when necessary.





## Re-Shoring

Reshoring is required directly underneath every Wedge Unit for at least 2 floors below the current concrete pour floor. A single Hi-Lite's Aluminum Post Shore is designed to carry the required load transfer from the floor directly above and the load passed down, through two Struts ( up to 50kN / 11 Kips each) onto a single Wedge Unit (combined 100kN / 22.5Kips) from the poured concrete.



## Efficient

- Engineered for quick and easy handling.
- 50% of the weight of a comparable steel capacity shores.
- Minimal maintenance required.
- The light weight also means one man can handle, assemble and disassemble and that provides a more streamlined operation and less downtime.

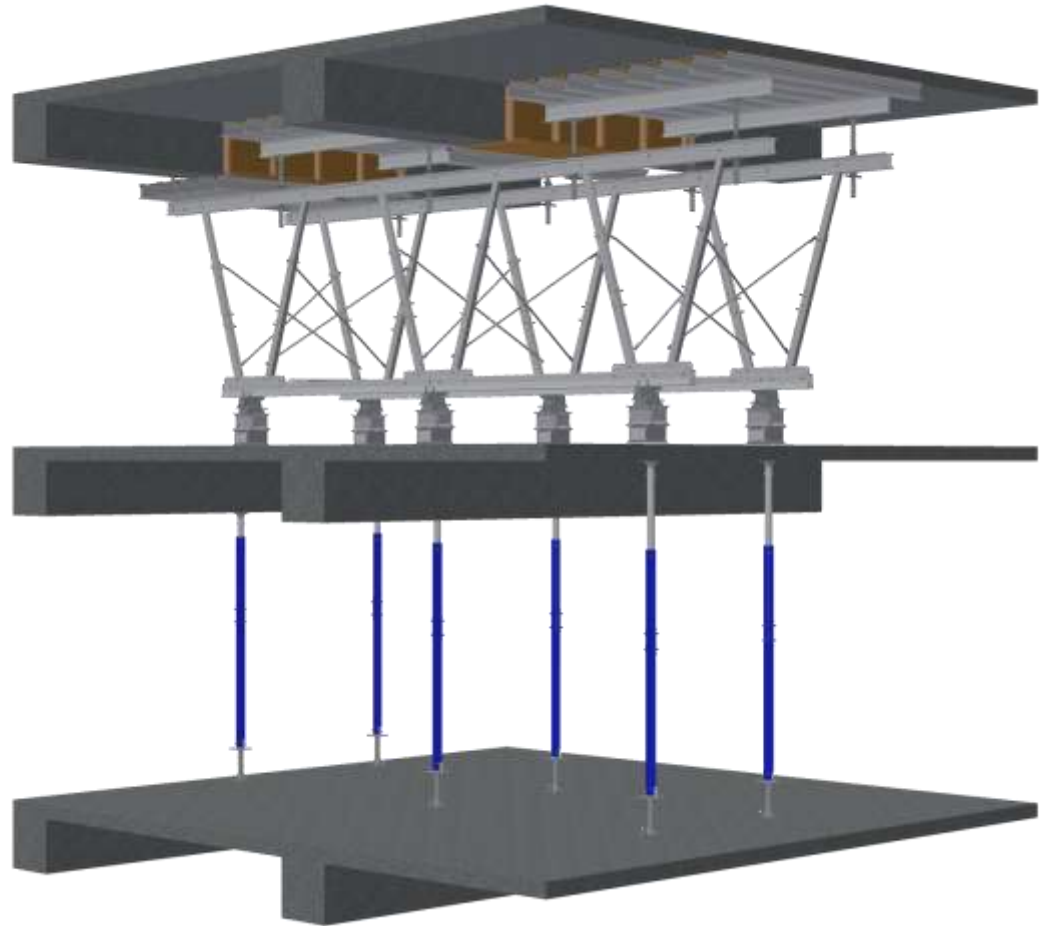
## Versatile

- Post shores convert to frames and back with demountable ledgers. That reduces your inventory even more.
- Each post is equipped on all four sides with a full-length vertical T-bolt slot that accepts bolts with three different heads. This feature alone will save you frustration, along with time and money.
- All of your components can now be fastened in all four directions anywhere along the length of the post using any standard 1/2" bolt. Almost any configuration – including sloped surfaces – can be accommodated and your staff can get on with their work no matter what surprise comes up.



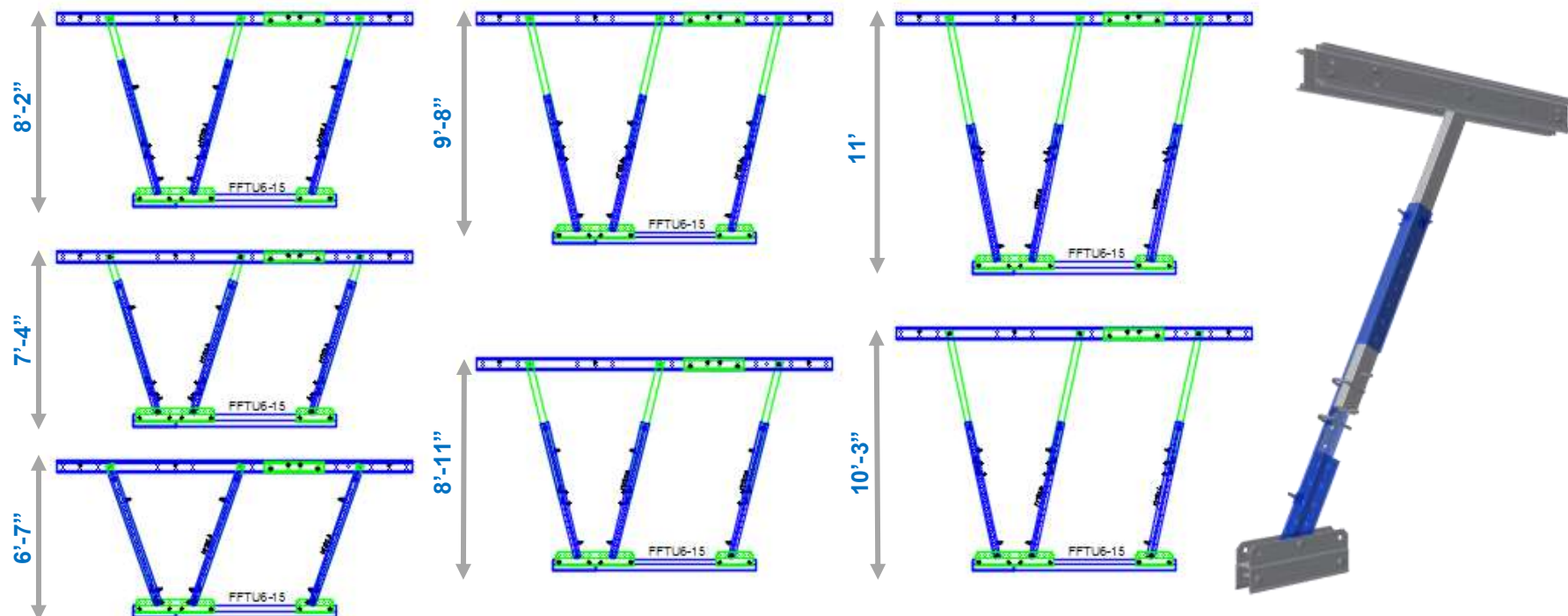
Hi-Lite's Telescopic Fly Forms can easily adapt to complex slab designs that use edge and drop beams by utilizing top chord screw jacks.

The top chord screw jacks are used to support a stringer/ledger beam above the top chord. This is required when tables are used for beam/slab design, when the top chord is below the beam bottom and the ledger are picking up the slab. Screw jacks can be used in place of packing on the top chord..





# TELESCOPIC ADVANTAGE



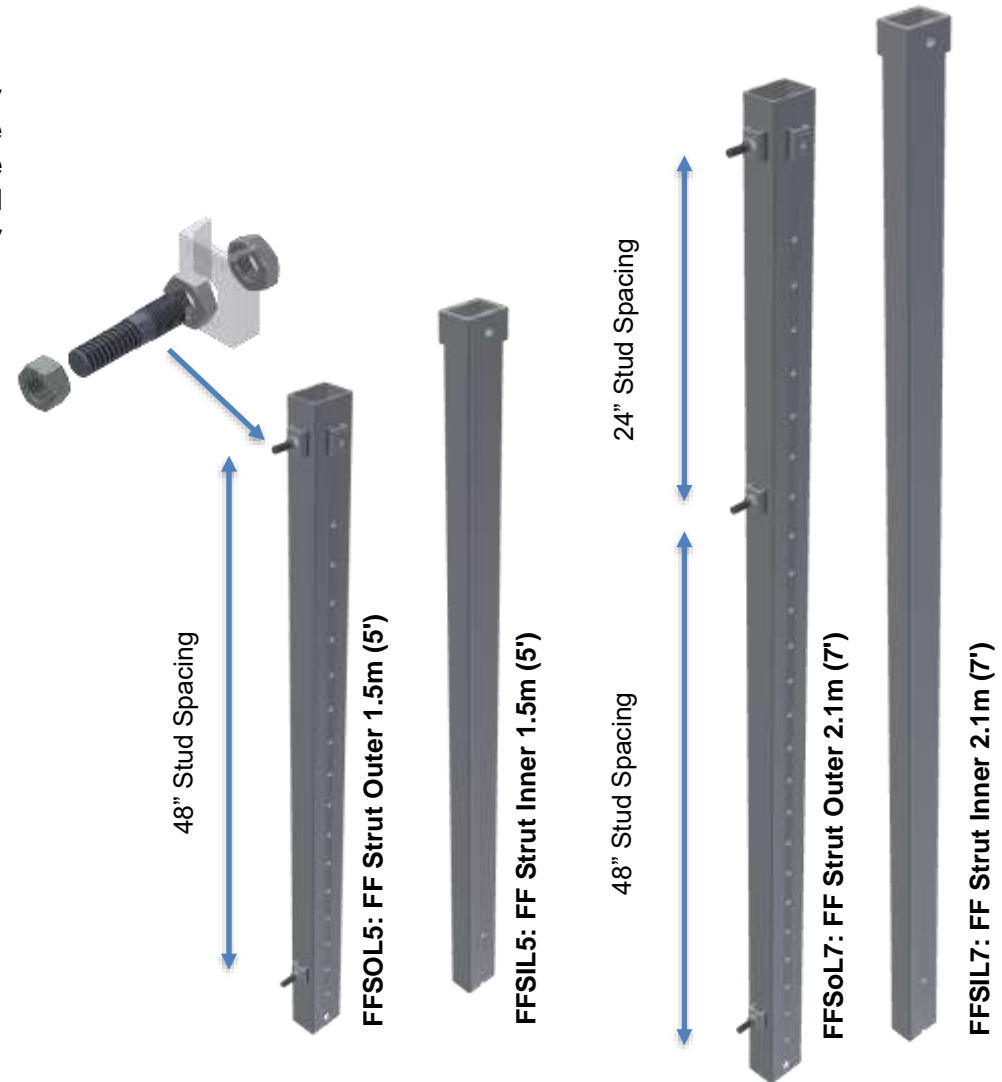
Hi-Lite's Telescopic Fly Forms can easily adapt to various slab elevation changes due to our exclusive feature of using telescopic struts. (refer to strut range tables for specifications).

The Outer Strut features holes every 152mm (6") which allows for a wide range of telescoping strut lengths. There are also (typically) 2 jet locks which allow cross bracing to be attached easily. There is also a jet lock to be installed at the top end to accommodate the telescopic horizontal strut brace. The Inner Strut easily slides into the outer strut to give additional height to the telescopic fly form in 152mm (6") increments. The telescopic struts come in standard sizes of 1.2m (4'), 1.5m (5'), 1.8m (6'), 2.4m (8') & 3.05m (10') with the 1.5m (5') strut being the most common.



# FLY FORM STUDS

This unique fastener is standard on all Hi-Lite Fly Form Systems. The Studs are installed at appropriate locations to allow Cross Braces to be attached to the struts quickly and securely. Studs are easily replaced in the field (if necessary) as they are held in place by standard hex jam nuts.

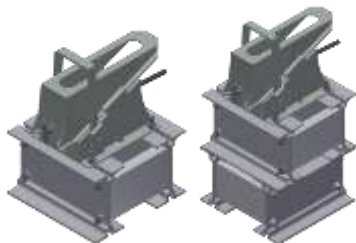




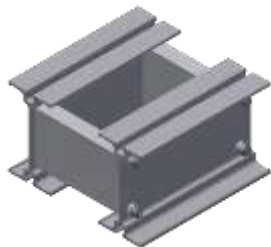
## WEDGE UNITS & BLOCKING



Wedge units are used to provide fine height adjustment to the fly form truss, in place of flip jacks. The wedge has an adjustable height from 130mm (5") up to 200mm (8"). However with the telescopic feature of the HI-LITE truss, normally very little adjustment of the wedge is required.



Wedge unit hooks allow for easy attachment of the wedge units to the truss when stripping and flying the tables, ensuring that the wedge units fly with the tables and are available immediately for the workers to set and level tables on the next level.

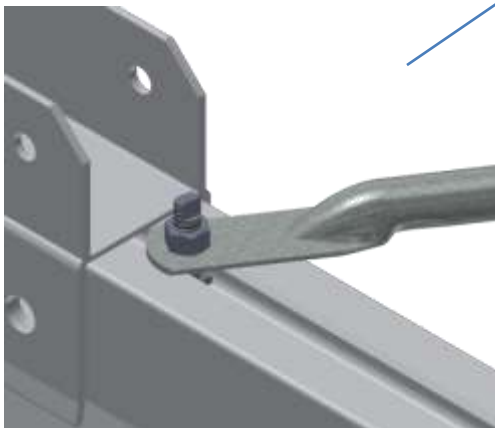
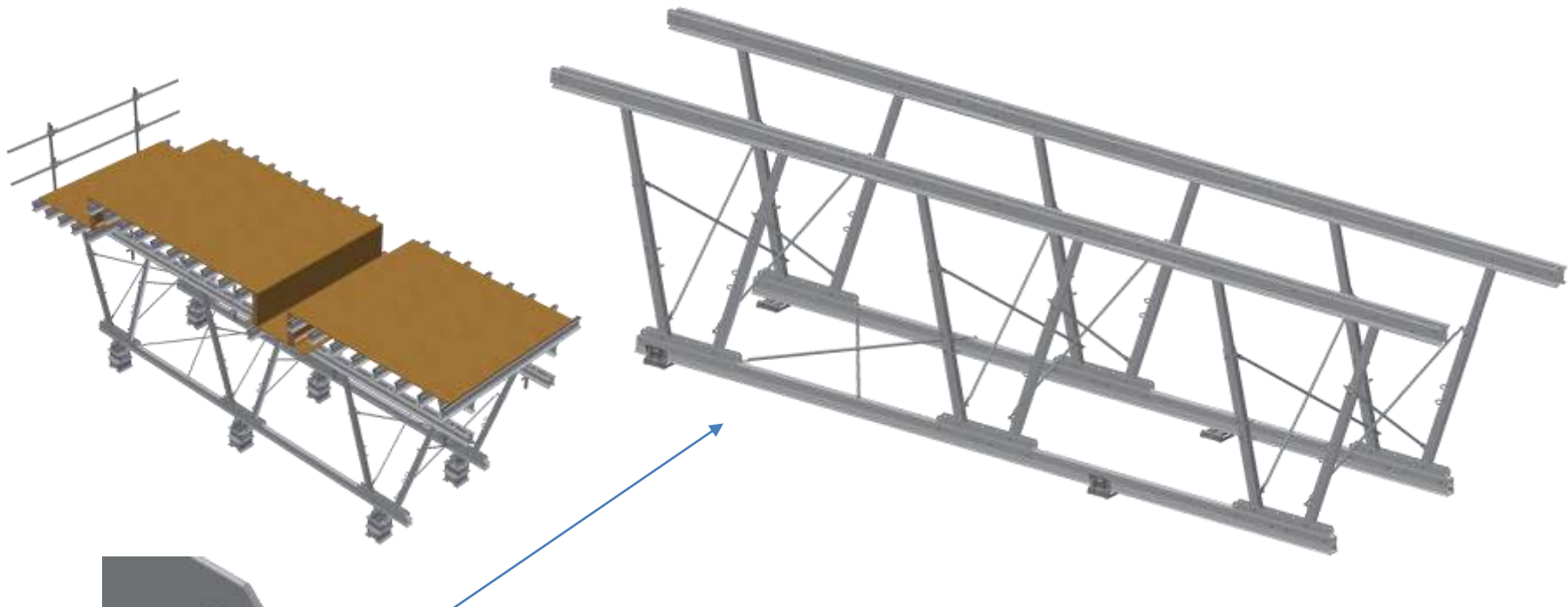


The standard wedge unit block is a bolted assembly that "T-Bolts" to the bottom of the wedge unit. This assembly can be stacked if required to create varying heights.

**NOTE: ONLY HI-LITE 184 MM (7 1/4") BEAMS MUST BE USED AS BLOCKING.**

Blocking is used when there are small drop beams, less than 648mm (25 1/2") below ceiling height; when the fly form needs to be higher than the truss can telescope, or, if there is an up turn on the slab. If the drop required is greater than 660mm (26") then usually advisable to telescope the fly form.





Plan Braces easy to attach to the bottom chord using T-Bolts.  
If the cross brace is attached to the other truss in the exact same location, this will force the trusses to be square.

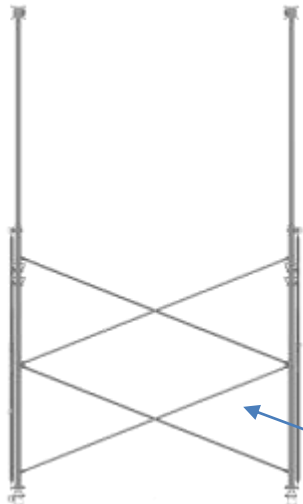
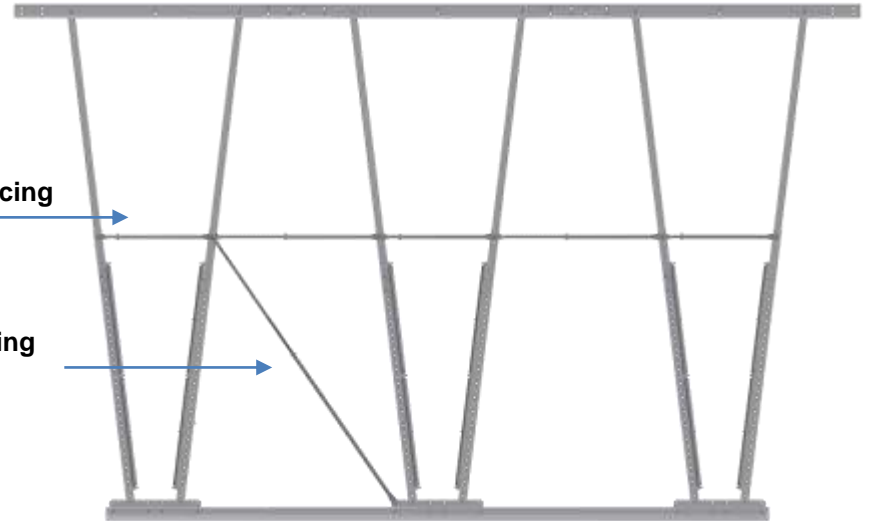


# HIGH TRUSS BRACING



Horizontal Strut Bracing

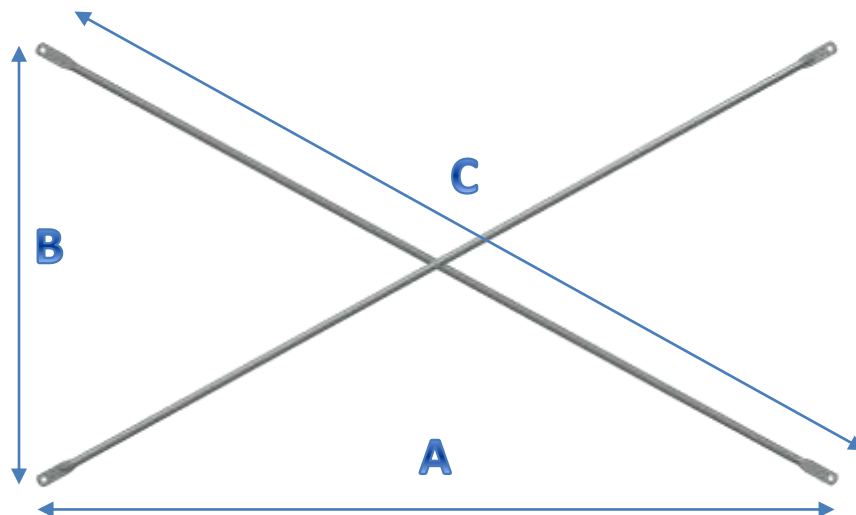
Diagonal Strut Bracing



When projects require high truss designs, long outer / inner struts can be used such as the 8ft (2.4m) and 10ft (3.1m). These struts are designed to use 2 sets of standard cross bracing, plus adding the horizontal strut braces, hi working loads can be maintained safely.

2 sets of cross bracing





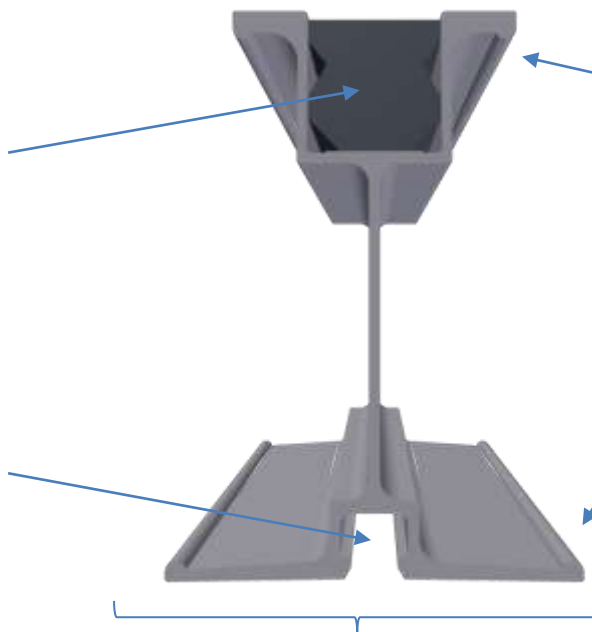
- 9/12" (14.3MM) HOLE
- SIZES ARE STAMPED ON ENDS
- HI TENSILE PRE GALVANIZED TUBES FOR LONG LIFE AND DURABILITY

PART No.	DESCRIPTION	TUBE		IMPERIAL				METRIC				COLOUR CODE	
	(A) x (B)	DIA.		A	B	C	WEIGHT	A	B	C	WEIGHT	HI-LITE	USER
		Inches/mm		Feet	Feet	Inches	Lbs	mm	mm	mm	Kg		
CB42	4' x 2'	1	25	4	2	53 5/8	6.0	1220	610	1361	2.72	Orange	
CB44	4' x 4'	1	25	4	4	67 13/12	7.5	1220	1220	1722	3.40	Yellow	
CB52	5' x 2'	1	25	5	2	64 9/12	7.2	1524	610	1241	3.27	White	
CB54	5' x 4'	1	25	5	4	76 13/12	8.5	1524	1220	1951	3.86	Silver	
CB62	6' x 2'	1	25	6	2	75 7/8	8.4	1828	610	1928	3.81	Black	
CB64	6' x 4'	1	25	6	4	86 1/2	9.5	1828	1220	2197	4.31	Red	
CB72	7' x 2'	1	25	7	2	87 5/12	9.6	2134	610	2218	4.35	Blue	
CB74	7' x 4'	1	25	7	4	96 3/4	10.6	2134	1220	2456	4.81	Grey	
CB82	8' x 2'	1	25	8	2	98 15/12	10.9	2438	610	2512	4.94	Green	
CB84	8' x 4'	1	25	8	4	107 5/12	11.8	2438	1220	2725	5.35	Orange	
CB102	10' x 2'	1	25	10	2	122 3/8	13.4	3048	610	3109	6.08	Yellow	
CB104	10' x 4'	1	25	10	4	129 1/4	14.1	3048	1220	3282	6.40	Grey	



**MORE VERSATILE:** Plastic or wood insert allows for nailing or screwing down plywood decking. Less subject to damage than wooden beams. Reusable. It all adds up to less inventory, less storage, lower transportation cost, and lower carrying costs.

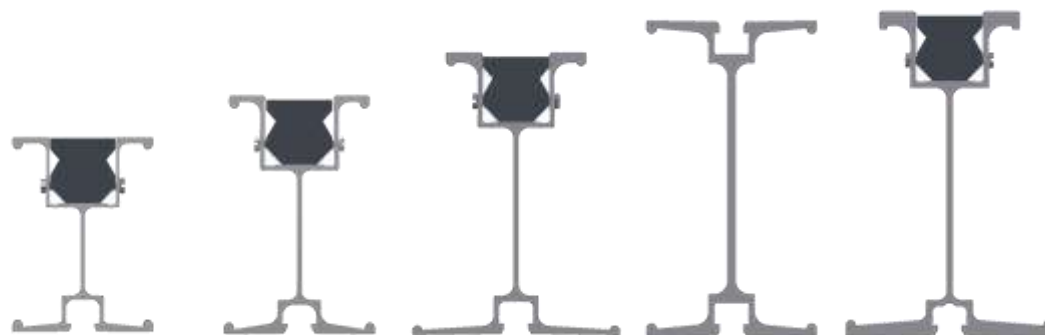
**MORE ECONOMICAL:** 12.7mm (½") T-bolt slots provide for easy fastening of beams and stringers to their supports or to each other. Your workers will be more productive and the lower labour costs will be reflected in your bottom line.

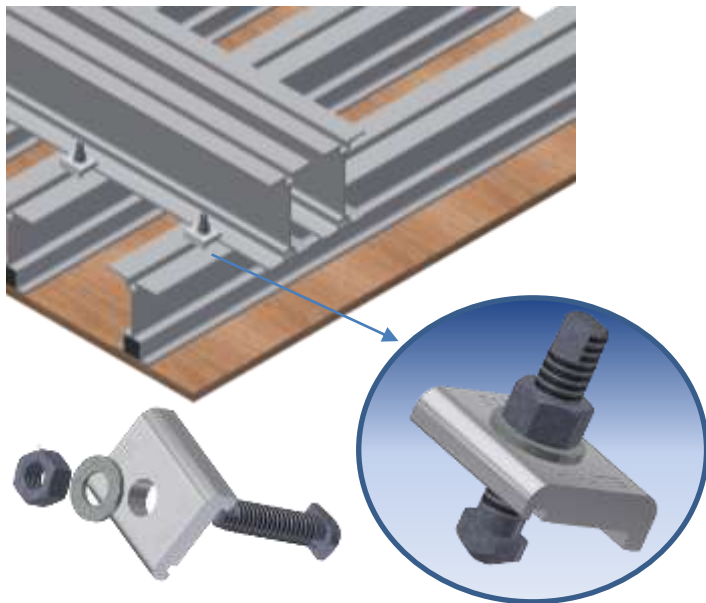


**STRONGER:** Reinforced side flanges resist bending and retain beam clips. Employees spend less time repairing and more time working.

**SAFER:** Wider flanges resist overturning. Fewer accidents and injuries mean less employee downtime and lower insurance costs.

**Hi-Lite Aluminum Beams** have many other advantages over competing beams. Our designs save time on the job and reduce maintenance. Please refer to our load charts for capacities. Generally speaking, Hi-Lite beams carry more load and usually cost less.





The T-bolt is forged from steel to provide for its special head, which guides the T-bolt into the beam slot. It is 12mm (1/2in) diameter by 45mm (1-3/4in) long, giving enough length to accommodate most uses. The thread is a special coarse Acme thread designed to eliminate seizing up as normal standard threads do.

The nut is loosely fitted on the bolt to provide for easy turning of the nut and still provide full strength of the bolt.

The Beam Clip plate is made from specially-formed high-strength aluminum

When the Beam Clip is assembled with T-bolt and hex nut as an assembly the bolt is crimped to prevent loss of the nut. The assembly is used to tie aluminum beams securely together.

Some other uses of the Beam Clip are:

- a) Securing aluminum beams to standard steel Post Shores.
- b) Securing joists to stringers on Wall Forms or rolling tables, or when a sloping slab is to be poured.

**Note:** The sharp corners very effectively secure one beam to another, preventing all movement. Beam Clips will secure any beam that has a 12mm (1/2in) T-bolt slot.



# TELESCOPIC FLY FORM – STANDARD CONFIGURATIONS

## **FFTU4-15**

FF 4.6m (15') Truss - 4' Strut - UA  
98.93 kgs / 218.1 lbs

## **FFTU5-15**

FF 4.6m (15') Truss - 5' Strut - UA  
103.42 kgs / 228 lbs

## **FFTU56-15**

FF 4.6m (15') Truss - 5'6" Strut - UA  
105.73 kgs / 233.1 lbs

## **FFTU6-15**

FF 4.6m (15') Truss - 6' Strut - UA  
107.77 kgs / 237.6 lbs

## **FFTU7-15**

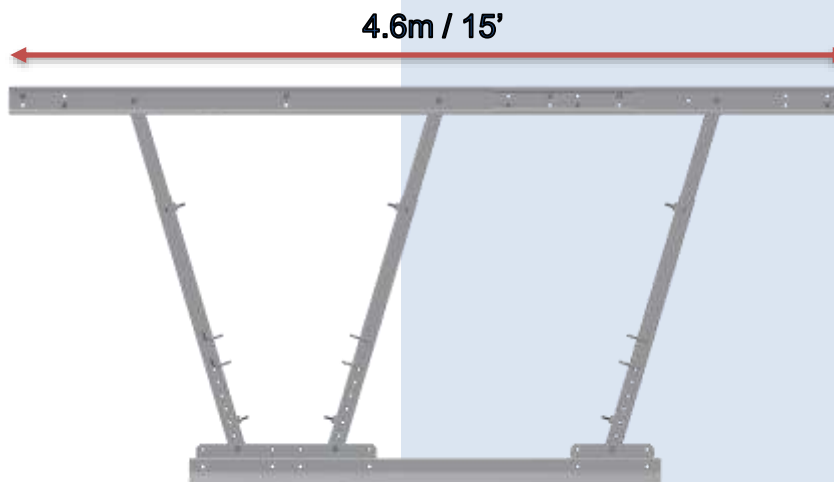
FF 4.6m (15') Truss - 7' Strut - UA  
112.67 kgs / 248.4 lbs

## **FFTU8-15**

FF 4.6m (15') Truss - 8' Strut - UA  
117.03 kgs / 258.0 lbs

## **FFTU10-15**

FF 4.6m (15') Truss - 10' Strut - UA  
125.87 kgs / 277.5 lbs







# TELESCOPIC FLY FORM – STANDARD CONFIGURATIONS

## **FFTU4-20**

FF 6.1m (20') Truss - 4' Strut - UA  
138.8 kgs / 306.0 lbs

## **FFTU5-20**

FF 6.1m (20') Truss - 5' Strut - UA  
144.79 kgs / 319.2 lbs

## **FFTU56-20**

FF 6.1m (20') Truss - 5'6" Strut - UA  
147.87 kgs / 326.0 lbs

## **FFTU6-20**

FF 6.1m (20') Truss - 6' Strut - UA  
150.59 kgs / 332.0 lbs

## **FFTU7-20**

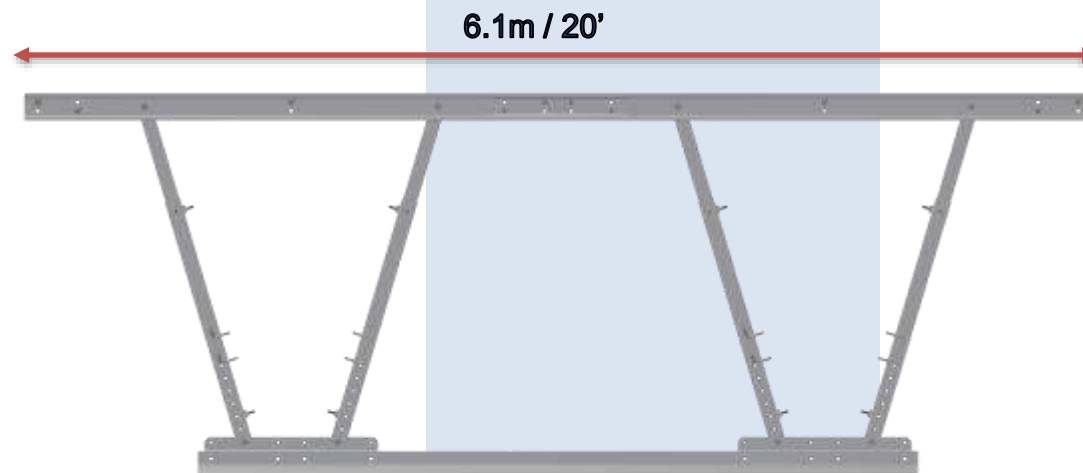
FF 6.1m (20') Truss - 7' Strut - UA  
157.12 kgs / 346.4 lbs

## **FFTU8-20**

FF 6.1m (20') Truss - 8' Strut - UA  
162.93 kgs / 359.2 lbs

## **FFTU10-20**

FF 6.1m (20') Truss - 10' Strut - UA  
174.72 kgs / 385.2 lbs





# TELESCOPIC FLY FORM – STANDARD CONFIGURATIONS

## **FFTU4-25**

FF 7.6m (25') Truss - 4' Strut - UA  
179.53 kgs / 395.8 lbs

## **FFTU5-25**

FF 7.6m (25') Truss - 5' Strut - UA  
187.02 kgs / 412.3 lbs

## **FFTU56-25**

FF 7.6m (25') Truss - 5'6" Strut - UA  
190.87 kgs / 420.8 lbs

## **FFTU6-25**

FF 7.6m (25') Truss - 6' Strut - UA  
194.27 kgs / 428.3 lbs

## **FFTU7-25**

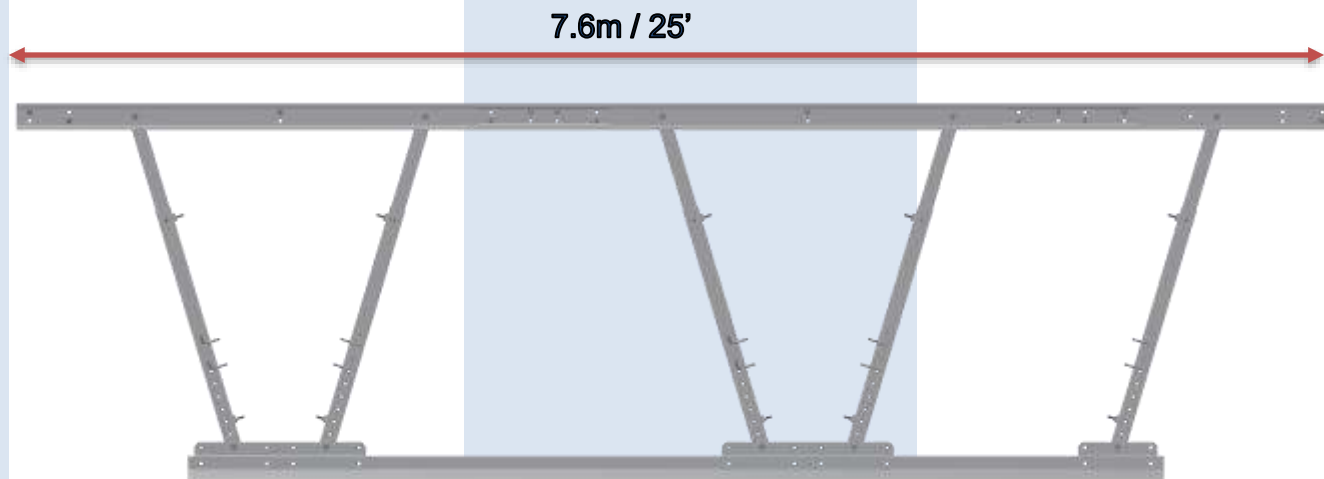
FF 7.6m (25') Truss - 7' Strut - UA  
202.44 kgs / 446.3 lbs

## **FFTU8-25**

FF 7.6m (25') Truss - 8' Strut - UA  
209.7 kgs / 462.3 lbs

## **FFTU10-25**

FF 7.6m (25') Truss - 10' Strut - UA  
226.25 kgs / 498.8 lbs





# TELESCOPIC FLY FORM – STANDARD CONFIGURATIONS

## FFTU4-30

FF 9.1m (30') Truss - 4' Strut - UA  
219.40 kgs / 483.7 lbs

## FFTU5-30

FF 9.1m (30') Truss - 5' Strut - UA  
228.4 kgs / 503.5 lbs

## FFTU56-30

FF 9.1m (30') Truss - 5'6" Strut - UA  
233.0 kgs / 513.7 lbs

## FFTU6-30

FF 9.1m (30') Truss – 6' Strut – UA  
237.1 kgs / 522.7 lbs

## FFTU7-30

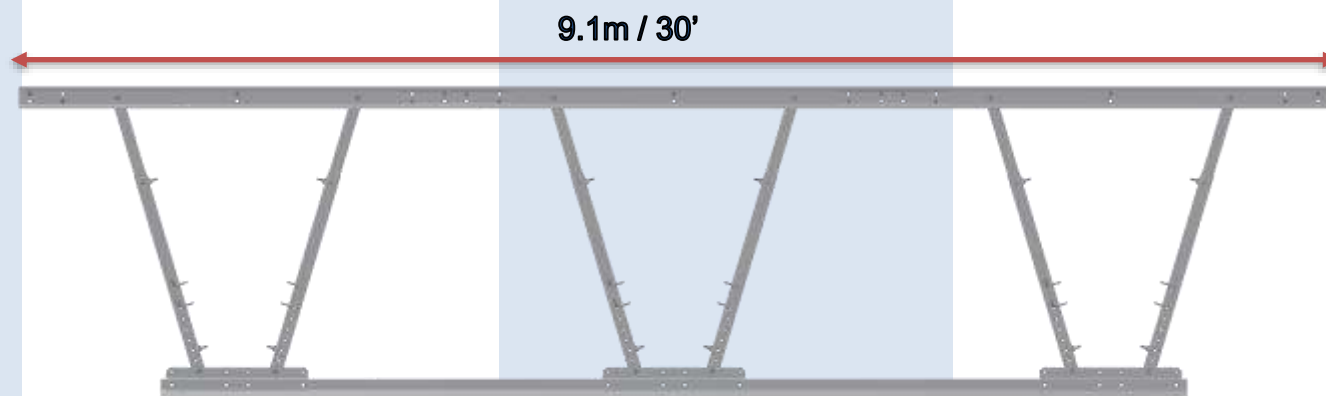
FF 9.1m (30') Truss – 7' Strut – UA  
246.9 kgs / 544.3 lbs

## FFTU8-30

FF 9.1m (30') Truss – 8' Strut – UA  
255.6 kgs / 563.5 lbs

## FFTU10-30

FF 9.1m (30') Truss – 10' Strut – UA  
273.3 kgs / 602.5 lbs





# TELESCOPIC FLY FORM – STANDARD CONFIGURATIONS

## FFTU4-35

FF 10.7m (35') Truss - 4' Strut - UA  
260.14 kgs / 573.5 lbs

## FFTU5-35

FF 10.7m (35') Truss - 5' Strut - UA  
270.61 kgs / 596.6 lbs

## FFTU56-35

FF 10.7m (35') Truss - 5'6" Strut - UA  
276.01 kgs / 608.5 lbs

## FFTU6-35

FF 10.7m (35') Truss - 6' Strut - UA  
280.77 kgs / 619.0 lbs

## FFTU7-35

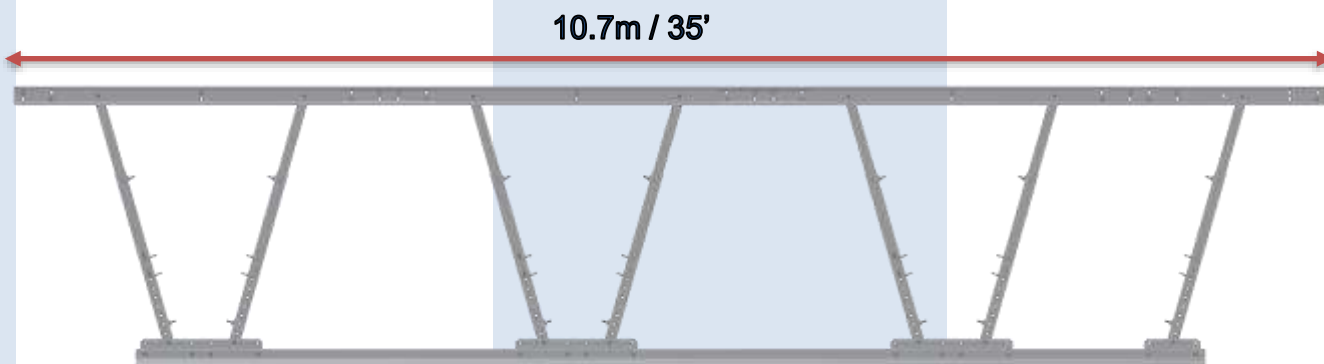
FF 10.7m (35') Truss - 7' Strut - UA  
292.2 kgs / 644.2 lbs

## FFTU8-35

FF 10.7m (35') Truss - 8' Strut - UA  
302.36 kgs / 666.6 lbs

## FFTU10-35

FF 10.7m (35') Truss - 10' Strut - UA  
323.0 kgs / 712.1 lbs





# TELESCOPIC FLY FORM – STANDARD CONFIGURATIONS

## FFTU4-40

FF 12.2m (40') Truss - 4' Strut - UA  
300.01 kgs / 661.4 lbs

## FFTU5-40

FF 12.2m (40') Truss - 5' Strut - UA  
311.98 kgs / 687.8 lbs

## FFTU56-40

FF 12.2m (40') Truss - 5'6" Strut - UA  
318.15 kgs / 701.4 lbs

## FFTU6-40

FF 12.2m (40') Truss - 6' Strut - UA  
323.59 kgs / 713.4 lbs

## FFTU7-40

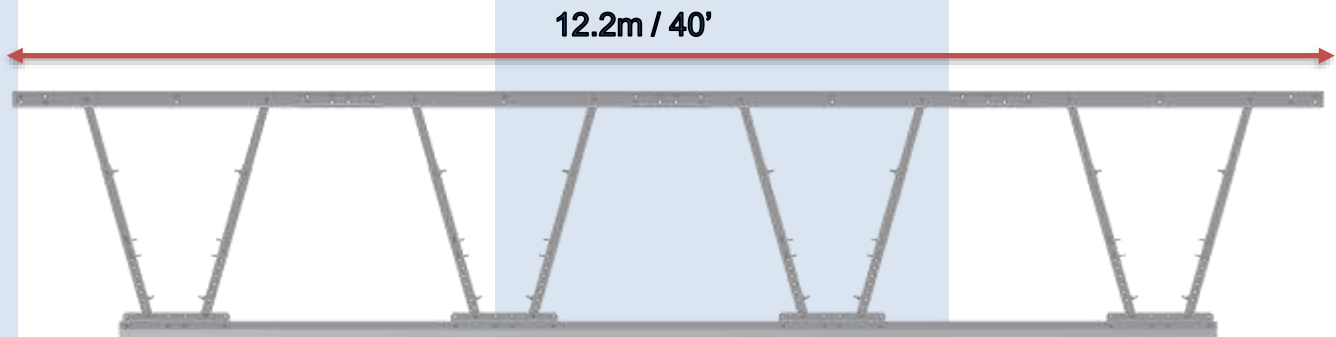
FF 12.2m (40') Truss - 7' Strut - UA  
336.66 kgs / 742.2 lbs

## FFTU8-40

FF 12.2m (40') Truss - 8' Strut - UA  
348.27 kgs / 767.8 lbs

## FFTU10-40

FF 12.2m (40') Truss - 10' Strut - UA  
371.86 kgs / 819.8 lbs





# TELESCOPIC FLY FORM – STANDARD CONFIGURATIONS

## **FFTU4-45**

FF 13.7m (45') Truss - 4' Strut - UA  
340.69 kgs / 751.1 lbs

## **FFTU5-45**

FF 13.7m (45') Truss - 5' Strut - UA  
354.16 kgs / 780.8 lbs

## **FFTU56-45**

FF 13.7m (45') Truss - 5'6" Strut - UA  
361.1 kgs / 796.1 lbs

## **FFTU6-45**

FF 13.7m (45') Truss - 6' Strut - UA  
367.23 kgs / 809.6 lbs

## **FFTU7-45**

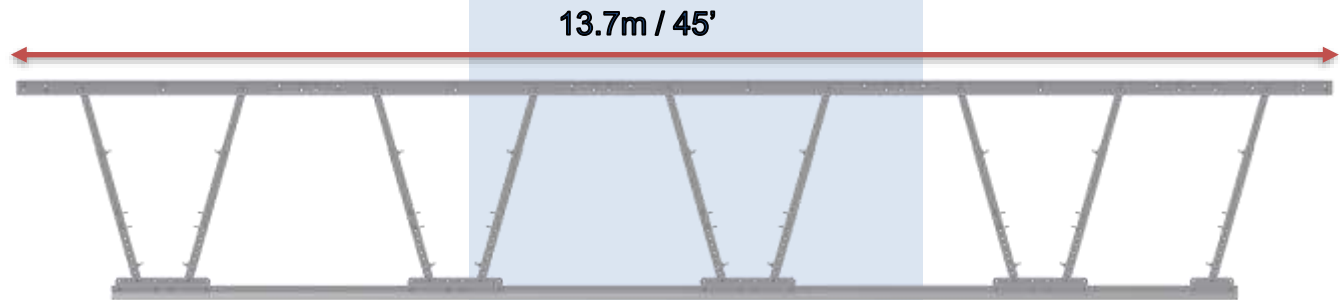
FF 13.7m (45') Truss - 7' Strut - UA  
381.93 kgs / 842.0 lbs

## **FFTU8-45**

FF 13.7m (45') Truss - 8' Strut - UA  
394.99 kgs / 870.8 lbs

## **FFTU10-45**

FF 13.7m (45') Truss - 10' Strut - UA  
421.52 kgs / 929.3 lbs







# TELESCOPIC FLY FORM – STANDARD CONFIGURATIONS

## **FFTU4-50**

FF 15.2m (50') Truss - 4' Strut - UA  
380.56 kgs / 839.0 lbs

## **FFTU5-50**

FF 15.2m (50') Truss - 5' Strut - UA  
395.53 kgs / 872.0 lbs

## **FFTU56-50**

FF 15.2m (50') Truss - 5'6" Strut - UA  
403.24 kgs / 889.0 lbs

## **FFTU6-50**

FF 15.2m (50') Truss - 6' Strut - UA  
410.05 kgs / 904.0 lbs

## **FFTU7-50**

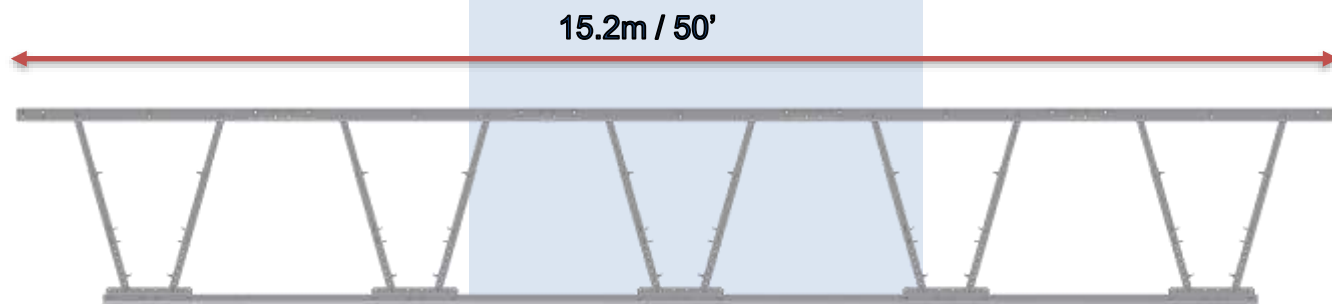
FF 15.2m (50') Truss - 7' Strut - UA  
426.38 kgs / 940.0 lbs

## **FFTU8-50**

FF 15.2m (50') Truss - 8' Strut - UA  
440.89 kgs / 972.0 lbs

## **FFTU10-50**

FF 15.2m (50') Truss - 10' Strut - UA  
470.38 kgs / 1,037.0 lbs





# TELESCOPIC FLY FORM - PARTS

The top chord is designed to be very versatile. As well as being used on the fly form it can also be used as a strongback for aluminum gang wall forms. The top chord is used in pairs of either 914mm, 1524mm or 3048mm (3', 5' or 10') lengths. They can be easily joined together to assemble fly forms of different lengths. The top chord features a t-bolt slot on the top and bottom which is very useful for attaching, pick brackets, top chord jacks, aluminum beams, etc.



## FFTC120

FF Top Chord 3.05m (10')  
12.16 kgs / 26.8 lbs

3.05m / 10'

## FFTC60

FF Top Chord 1.5m (5')  
6.08 kgs / 13.4 lbs

1.5m / 5'

## FFTC36

FF Top Chord 0.91m (3')  
3.67 kgs / 8.1 lbs

.91m / 3'



# TELESCOPIC FLY FORM - PARTS

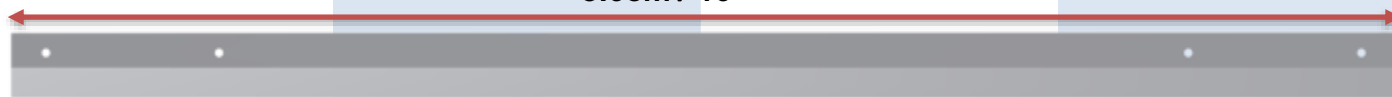
The HI-LITE bottom chord is primarily designed for strength and movability. The top of the bottom chord features a T-bolt slot for attaching cross braces, form stabilizers, HI-LITE post shores etc. The bottom of the bottom chord has two rounded grooves that complement the design of the form movers. Note there is no left or right, top chord or bottom chord.



## FFBC120

FF Bottom Chord 3.05m (10')  
25.7 kgs / 56.6 lbs

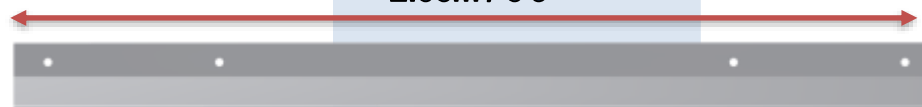
3.05m / 10'



## FFBC81

FF Bottom Chord 2.06m (6'9in)  
14.7 kgs / 32.5 lbs

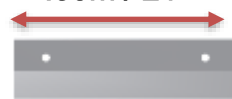
2.06m / 6'9"



## FFBC21

FF Bottom Chord 0.53m (21")  
4.5 kgs / 9.9 lbs

.53m / 21"

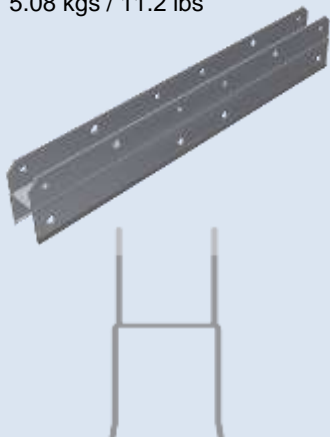




# TELESCOPIC FLY FORM - PARTS

## FFH39

FF H-Section 1m (39in)  
5.08 kgs / 11.2 lbs



## FFH18

FF H-Section .457m (18in)  
2.36 kgs / 5.2 lbs



## FFTCSP

FF TC Splice Channel .76m (30in)  
2.27 kgs / 5.0 lbs



## FFGPH

FF Guard Rail Post Holder  
0.6 kgs / 1.3 lbs



## FFSPCR

Top Chord Spacer  
0.18 kgs / 0.4 lbs



The horizontal and diagonal strut brace is adjustable to accommodate the spacing between the vertical struts (at any angle). The braces are attached to the outer legs at the upper jet lock location (perpendicular to the truss).

The telescopic horizontal and diagonal strut brace is used to provide lateral bracing to the vertical struts. Bracing is required when loads on the struts are high, and when the struts are close to full extension. For design applications refer to the fly form design charts "WITH BRACING".

## FFTHSB

FF Telescopic Horizontal  
Strut Brace  
4.5 kgs / 9.9 lbs



## FFTDSB

FF Telescopic Diagonal Strut  
Brace  
6.8 kgs / 15.0 lbs





# TELESCOPIC FLY FORM - PARTS

**FFSOL4**

FF Strut Outer 1.2m (4')  
2.9 kgs / 6.4 lbs

**FFSOL5**

FF Strut Outer 1.5m (5')  
3.58 kgs / 7.9 lbs

**FFSOL56**

FF Strut Outer 1.5m (5'6")  
3.94 kgs / 8.7 lbs

**FFSOL6**

FF Strut Outer 1.8m (6')  
4.3 kgs / 9.4 lbs

**FFSOL7**

FF Strut Outer 2.1m (7')  
5.1 kgs / 11.2 lbs

**FFSOL8**

FF Strut Outer 2.4m (8')  
5.8 kgs / 12.7 lbs

**FFSOL10**

FF Strut Outer 3.0m (10')  
7.2 kgs / 15.7 lbs

**FFSIL4**

FF Strut Inner 1.2m (4')  
3.13 kgs / 6.9 lbs

**FFSIL5**

FF Strut Inner 1.5m (5')  
3.95 kgs / 8.7 lbs

**FFSIL56**

FF Strut Inner 1.5m (5'6")  
4.35 kgs / 9.6 lbs

**FFSIL6**

FF Strut Inner 1.8m (6')  
4.72 kgs / 10.4 lbs

**FFSIL7**

FF Strut Inner 2.1m (7')  
5.53 kgs / 12.2 lbs

**FFSIL8**

FF Strut Inner 2.4m (8')  
6.3 kgs / 13.9 lbs

**FFSIL10**

FF Strut Inner 3.0m (10')  
7.89 kgs / 17.4 lbs

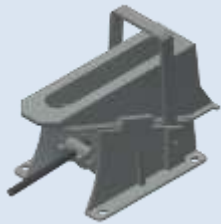




# TELESCOPIC FLY FORM - PARTS

## FFWDG

FF Wedge Units  
9.52 kgs / 21 lbs



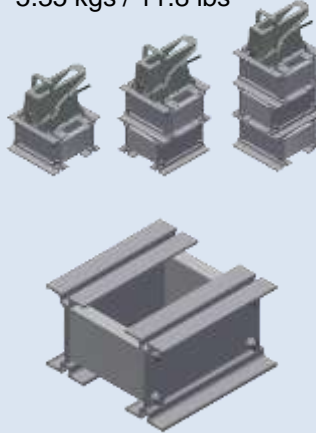
## FFWDGH

FF Wedge Unit Hook  
0.09 kgs / 0.2 lbs



## FFWB184

Wedge Block 184mm High  
5.35 kgs / 11.8 lbs



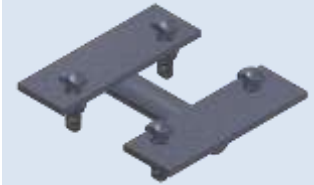
## FFSLP

Strut Safety Lock Pins  
1.04 kgs / 2.3 lbs



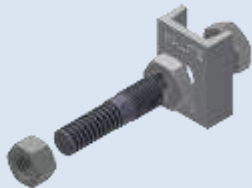
## FFPICK

FF Pick Bracket c/w Bolts  
1.54 kgs / 3.4 lbs



## HDFFSTUDA

FF Strut Stud c/w 2 Jam  
Nuts & Hex Nut  
0.2 kgs / 0.44 lbs



## HDFF34BOLT

FF Hex Cap Screw 3/4in NC  
0.32 kgs / 0.7 lbs



## HDWF3/4SAE

3/4 Washer SAE  
0.05 kgs / 0.1 lbs



## HDWL3/4

3/4 Lock Washer  
0.05 kgs / 0.1 lbs



## HDNH3/4NC

Hex Nut 3/4in NC  
0.1 kgs / 0.2 lbs



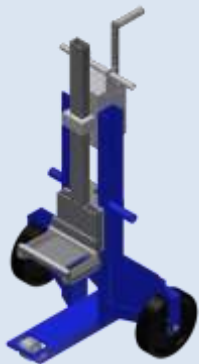




# TELESCOPIC FLY FORM - PARTS

## FMMJD

Mechanical Jack Dolly  
36.29 kgs / 80 lbs



## FMMD

FF Moving Dolly c/w Castors  
25.4 kgs / 56.0 lbs



## FMFMS44

FF 4x4 Solid Form Mover  
9.07 kgs / 20.0 lbs



## FFTCSJ

FF Top Chord Screw Jack c/w  
Nuts and Plates  
9.43 kgs / 20.8 lbs



## FMRR

Roll Out Roller  
9.66 kgs / 21.3 lbs



## FFHINGE

FF Beam Hinge Bracket  
4.08 kgs / 9.0 lbs



## CL4848SS

48x48mm (1.9x1.9) Swivel Stl  
(Wedge Type)  
1.5 kgs / 3.3 lbs



## BMALCLPC

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





### Sales and Manufacturing Facilities

**HI-LITE SYSTEMS / JASCO SALES INC**  
Mississauga, Ontario, Canada  
+1-905-677-4032

**TARGET HI-LITE**  
Abu Dhabi, United Arab Emirates  
+971-2-6727452

**SHOR-SCAF USA INC.**  
Las Vegas, Nevada, U.S.A.

**HI-LITE CHINA**  
Tianjin, China

**HI-LITE INDIA**  
Chennai, India

Supported by five regional offices.

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.

**Hi-Lite Systems  
International Inc.**

1680 Bonhill Road  
Mississauga, Ontario  
Canada L5T 1C8

Tel: 1-905-677-4032

Toll-free: 1-877-HILITE-1 [North America]  
(1-877-445-4831)

Fax: 1-905-677-4542

Web Site: [www.hi-lite-systems.com](http://www.hi-lite-systems.com)

E-mail: [hilite@hi-lite-systems.com](mailto:hilite@hi-lite-systems.com)

