Experience



the Hi-Lite Advantage

Aluminum Wall Forming System





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ALUMINUM WALLFORMS

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Experience the Hi-Lite Advantage

INTRODUCTION





The Aluminum Wall Forming System is primarily a hand-set system. 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 <u>only as a guide</u> 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 Hi-Lite Aluminum Wall Form System is fully described and illustrated. The features and benefits of using the Hi-Lite Aluminum Wall Form 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

HI-LITE SYSTEMS

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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 remelted 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 GANG FORMS

This Manual provides the user with product descriptions and part numbers. As well numerous examples of applications are included to demonstrate the product in use. These include setups and pressure diagrams for concrete loads contained by the forms.

- The Forms are engineered for quick and easy assembly into various configurations with styles to suit every application
- The high strength of aluminum components provides tie spacing's equal to steel systems, but the aluminum form weighs only 1/3 as much.
- By using common components such as Aluminum Strongbacks and Beams, Tie-Rod spacing is maximized.
- Any size of joist beams can be used 4 1/2", 5 1/2", 6 1/2", and 7 1/2" to produce wall forms in any length or height required. The larger the beams that are used, the fewer, but stronger ties are required.
- Strongbacks 3", 6" and 7 1/4" deep are available in many lengths. Splices are also available.
- Most form sizes can be provided, since the system can be assembled in lengths or heights required.
- Using plywood as the face material allows much flexibility, as many types of plywood can now be selected.
 - A highly economical feature of Hi-Lite's conventional wall form system is the choice of beam sizes and the spacing to accommodate the varying pressures
 - Hi-Lite "Gang" forming of walls is more economical than hand setting wherever there is sufficient repetition and where cranes are available to handle them.

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ALUMINUM GANG WALLFORM SYSTEMS



HI-LITE ALUMINUM GANG FORMS AVAILABLE IN TWO SYSTEMS

1. The mid-range system – must be gang set.

It uses a smaller number of medium strength tie rods and medium size of strongbacks. This system uses vertical joists and horizontal beams or stringers which are all medium size.

2. The heavy duty gang system

Is also gang set and uses the least number of tie rods spaced the furthest apart. This system uses tie rods, strongbacks vertical joists and horizontal beams / stringers which are all heavy-duty.

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ACCESSORIES ARE AVAILABLE TO COMPLETE THE REQUIREMENTS OF ANY APPLICATION. THEY INCLUDE:

- 1. Catwalk Brackets attached to joists or strongbacks;
- 2. Post Sockets fit standard tube or 2x4 lumber;
- 3. Tie Plates 50 Kps and smaller;
- 4. Push pull props;

- 5. Leveling Plates;
- 6. Clamps for guard rails;
- 7. Lifting Lugs;
- 8. Beam Clips.

HI-LITE HAS THREE ALUMINUM STRONGBACK SYSTEMS. NOTE: ALL OF OUR STRONGBACKS CAN BE SPLICED IF REQUIRED.

1. Heavy Duty Gang System

HI-LITE's 185mm (7-1/4") Heavy Duty Aluminum Strongback Beam is usually used in combination with our 190mm (7-1/2") or our 165mm (6-1/2") Aluminum Joist Beam requiring a minimum amount of tie rods spaced the furthest distance apart. These strongbacks are not only great at wall forming but they can also be used as Stringers and/or Joists in Concrete Slab Construction.

2. Mid Range Gang System

HI-LITE's 152mm (6") Aluminum Strongback are also used as HI-LITE's Fly Form Top Chords. They can be used in combination with our 165mm (6-1/2"), 140mm (5-1/2") or the 114mm (4-1/2") Aluminum Joist Beams requiring a medium strength tie rods at a slightly closer spacing than with 185mm (7-1/4") Strongback.

SYSTEM COMPONENTS







STRONGBACKS / WAILERS

184mm (7.25"): Heavy Duty Stringer / Strong back used primarily with the 165mm (6.5") and 140mm (5.5") aluminum beams. 1.8m (72") horizontal Tie Spacing.

FFTC / 152mm (6"): Telescopic Fly Form Top Chord doubles as an excellent Vertical Strongback member. The feature maximizes inventory utilization as all components have multiple re-use applications. 1.5m (60") horizontal Tie Spacing.

FLTC / 140mm (5.5"): (Telescopic) Fly Lite & Drop Leg Fly Form Top Chord doubles as an excellent Vertical Strongback member. The feature maximizes inventory utilization as all components have multiple re-use applications. 1.5m (60") horizontal Tie Spacing.



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CORE WALLFORMS SYSTEM

Hi-Lite's Core Walls System utilizing Hi-Lite Gang Wall Forms with stripping corners and working platform with flippers.

Please contact our Engineering department for additional information.







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ALUMINUM PUSH-PULL PROPS

Aluminum Push-pull Props used for alignment of the gang wall form systems. Not used as a structural component.

Shipped complete with connecting brackets and hardware.

Aluminum Push-Pull Props must be bolted onto Beams or Strongbackes by T-bolts.

Bottom Shoe must be anchored to slab, or wood sill.



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CATWALK BRACKETS & LIFTING BRACKETS

CATWALK BRACKETS

The Hi-Lite Catwalk Bracket provides a working platform that is 762mm (30") wide for pouring purposes or for installation / removal of the form work ties. The brackets is hooked onto and bolted to a horizontal beams using T-bolts. Brackets are installed at 2.43m (8'-0") c/c max. and are designed to work with 165mm (6.5"), 140mm (5.5") and 114mm (4.5") beams. The catwalk brackets is shipped complete with post socket. The post socket is designed to accept a 38mm x 89mm (2" x 4") wood post, or a 48mm (1.9") diameter tube.



LIFTING BRAKETS

The Hi-Lite Lifting Brackets used with the gang form systems as a lifting lug.

Lifting Brackets can be used with strongback elements in the vertical position. Shipped complete with connecting bolts and shackle.







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 ($\frac{1}{2}$ ") 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.

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T-BOLTS & BEAM CLIPS





Note: The sharp corners very effectively secure one beam to another, preventing all movement. Beam Clips will secure any beam that has a 12.7mm (1/2in) T-bolt slot.

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 s 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.

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2.4M/8FT-DESIGN DETAILS

Experience the Hi-Lite Advantage



-	А	В	С
гуре	184mm I Beam (Pair)	152mm (6") FFTC C Channel (Pair)	140mm (5.5") FLTC C Channel (Pair)
mm / in	1828 / 72	1524 / 60	1524 / 60

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2.4M/8FT-DESIGN DETAILS

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Part	ts List DESCRIPTION FLY FORM TOP CHORD 120IN	MATERIAL Auminum 6351-76	DRAWN DGJ CHECKED	30/10/2013	11	UTC	1689 Bonhill Rd., Mississawga, ON, Tei: 105477-4032 / Fax: 105477-453 Web Stor: www.hilte-systems.com E-mail: jasco@hilta-systems.com	TOM Canada, LST 1C8
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ITEM

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QTY

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15

4

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FFTC120

FFSPCR

WGFR152

HDWF1/2 HDNH1/2NC

WGTP6X8x1_2S

HDFF34BOLT

HDWF3/4SAE

ANSI 818.2.2 - 3/4 - 10

ANSI B18.21.1 - 0.75

PART NUMBER

ANSI B18.2.1 - 1/2-13 UNC - 1.25



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T	А	В	С
Гуре	184mm I Beam (Pair)	152mm (6") FFTC C Channel (Pair)	140mm (5.5") FLTC C Channel (Pair)
mm / in	1828 / 72	1524 / 60	1524 / 60

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3.0M/10FT-DESIGN DETAILS



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3.0M/10FT-DESIGN DETAILS





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3.6M/12FT-DESIGN DETAILS





Turne	Α	В	С
гуре	184mm I Beam (Pair)	152mm (6") FFTC C Channel (Pair)	140mm (5.5") FLTC C Channel (Pair)
mm / in	1828 / 72	1524 / 60	1524 / 60

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3.6M/12FT-DESIGN DETAILS

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3.6M/12FT-DESIGN DETAILS



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EM 1 2 3 4	QTY 2 FF 2 FF 2 FF 8 FF 1 W0	PART NUMBER TG120 TG38 TGSP SPCR 389169	ELSCRIPTION FLY FORM TOP CHORD 120IN FLY FORM TOP CHORD 36IN FLY FORM TOP CHORD SPLICE PLATE FLY FORM TOP CHORD SPACER	MATERIAL Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351-T6 Aluminum-6351-T6 Aluminum-6351-T6	25,771 Ibmass 7,700 Ibmass 4,721 Ibmass 0,402 Ibmass 0,938 Ibmass	DRAWN Dave CHECKED JJ APPROVED	31/10/2013	HI-LITE	1680 Bonhill Rd., Mississauga, ON, Canada Tel: 995-677-4932 / Fax: 995-677-4542 Web Site: www.hite-systems.com E-mail: jasco@hi-fita-systems.com © JAGCD SALCS INC Tel: Sauchies In the Guester Increasery of Jacco.
EM 1 2 3 4 5	QTY 2 FF 2 FF 2 FF 8 FF 1 WG 8 PF	PART NUMBER TC120 TC38 TC5P SPCR SPCR SPR152	DESCRIPTION FLY FORM TOP CHORD 120IN FLY FORM TOP CHORD 120IN FLY FORM TOP CHORD SPLICE PLATE FLY FORM TOP CHORD SPACER	MATERIAL Aluminum 6351-76 Aluminum 6351-76 Aluminum 6351-76 Aluminum 661 Stant Mitt	KINOS 25,771 lbmass 7,700 lbmass 4,721 lbmass 0.402 lbmass 0.938 lbmass 0.733 lbmass	DRAWN Dave CHECKED JJ APPPROVED VB	31/10/2013	HI-LITE	1440 Bonhill Rd., Mississauga, OH, Canadi Tei: 935-637-4932 / Fax: 935-637-4542 Web Site: www.hi-fite-systems.com © II-S0260 SALES INC. Tei: Source State State Tei: Source State St
EM 1 2 3 4 5 6 7	QTY 2 FF 2 FF 2 FF 8 FF3 1 WG 8 HD	PART NUMBER TC120 TC38 TC5P SPCR	DESCRIPTION RLY FORM TOP CHORD 120IN RLY FORM TOP CHORD 32IN FLY FORM TOP CHORD SPLICE PLATE FLY FORM TOP CHORD SPACER FLY FORM 3/4IN X 4 11/16IN BOLT EAT WASHED 3/4IN 7 4 51	MATERIAL Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6061 Steel, Mid	KINOS 25.771 lomass 7.700 lomass 4.721 lomass 0.402 lomass 0.938 lomass 0.753 lomass 0.753 lomass 0.755 lomass	DRAWN Dave CHECKED JJ APPROVED VB FILE NAME	31/10/2013		1680 Blochill Rd., Mississauga, OK, Canadi Tel: 905-677-4932 / Fax: 905-677-4542 Web Site: www.hi-fite-systems.com E-mail: jascogth-fite-systems.com © IAGCO SALES No. Com or csisco. No swathersize site, com or csisco. No swathersize site, com or csisco. No swathersize site, com or csisco.
EM 1 2 3 4 5 6 7	QTY 2 FF 2 FF 2 FF 8 FF3 1 WG 8 HD 30 HD	PART NUMBER TC120 TC38 SPCR SPCR SPR152 #F34804.T WF34804.E SP15948.94	EVEN DESCRIPTION FLY FORM TOP CHORD 120M FLY FORM TOP CHORD 320M FLY FORM TOP CHORD 320M FLY FORM TOP CHORD SPACER FLY FORM 540N X 4 11160N BOLT FLAT WASHER 340N (S.A.E.) How Not (S.A.E.)	MATERIAL Alumhium 6351-T6 Alumhium 6351-T6 Alumhium 6351-T6 Alumhium 6601 Steel, Mild Steel, Mild Steel, Mild	MNOS 25.771 bmass 7.700 bmass 4.721 bmass 0.432 bmass 0.938 bmass 0.753 bmass 0.456 bmass 0.456 bmass	DRAWN Dave CHECKED JJ APPROVED VB FILE NAME FFTC156A 12FT-W.iam	31/10/2013	CHI-LITE	1680 Bonhill Rd., Missiessuga, ON, Canadi Tel: 995-677-4932 / Fax: 995-677-4542 Web Ster: www.hite-systems.com E-mail: jasco@H-Hite-systems.com @ JACCO SALES JNC. @ IACCO SALES JNC. The ROMAGE STORE ACCOUNTS OF DATA The ROMAGE AND ACCOUNTS OF DATA The ROMAGE AND ACCOUNTS OF DATA RONG BACK ASSEMBL
EM 1 2 3 4 5 6 7 8	QTY 2 FF 2 FF 2 FF 3 FF 1 WG 30 HD 30 HD 8 AN	PART NUMBER TC120 TC38 TCSP SPCR 3FR152 FF73460LT WF348AE ISI B18.2.2 · 34 · 10	DESCRIPTION FLY FORM TOP CHORD 120M FLY FORM TOP CHORD 38IN FLY FORM TOP CHORD SPLICE PLATE FLY FORM TOP CHORD SPACER FLY FORM 3/4IN X 4 111/6IN BOLT FLAT WASHER 3/4IN (S.A.E) Hex Nuts (Inch Series) Hex Nut	MATERIAL Auminum 6351-76 Aluminum 6351-76 Aluminum 6351-76 Aluminum 6351-76 Aluminum 6361 Steel, Mid Steel, Mid Steel, Mid	MMAGO 25,771 bmass 7,700 bmass 4,721 bmass 0,402 bmass 0,402 bmass 0,402 bmass 0,938 bmass 0,045 bmass 0,045 bmass 0,045 bmass	DRAWN Dave CHECKED JJ APPROVED VB FILE NAME FFTC156A 12FT-W.iam	31/10/2013	HI-LITE	1440 Boohill Rd., Missiessuga, OH, Canadi Tel: 935-617-4322 / Fax: 905-617-4542 Web Site: www.hi-file=systems.com E-mail: jasco@hi-file=systems.com @ IsoCO SALES INC. Tel: dearways is the inclusion incontent of sector the reflection income.com RONG BACK ASSEMBL
EM 1 2 3 4 5 6 7 8 9	QTY 2 FF 2 FF 2 FF 8 FF3 1 WG 8 HD 30 HD 8 AN 8 AN	PART NUMBER TC120 TC38 SPCR	DESCRIPTION RLY FORM TOP CHORD 120IN RLY FORM TOP CHORD 32IN FLY FORM TOP CHORD SPLICE PLATE FLY FORM TOP CHORD SPACER FLY FORM 3/4IN X 4 11/16IN BOLT FLAT WASHER 3/4IN (S.A.E) Hex Nuts (Inch Saries) Hex Nut Helical Spring Lock Washers	MATERIAL Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6061 Steel, Mild Steel, Mild Steel, Mild	MMAGO 25.771 Ibmass 7.700 Ibmass 4.721 Ibmass 0.402 Ibmass 0.938 Ibmass 0.938 Ibmass 0.938 Ibmass 0.938 Ibmass 0.938 Ibmass 0.939 Ibmass 0.945 Ibmass	DRAWN Dave CHECKED JJ APPROVED VB FILE NAME FFTC156A 12FT-W.iam PROJECT NAME	31/10/2013	DRAWING TITLE 152MM STF	Hello Biochill Rd., Mississauga, OK, Canadi Tel: 905-677-4632 / Fax: 905-677-4542 Web Site: www.hi-fite-systems.com E-mail: jascogth-lite-systems.com Tel: Galactic State State Comparison of the State State Tel: State State State State State Tel: State
EM 1 2 3 4 5 6 7 7 8 9 10	QTY 2 FF 2 FF 2 FF 8 FF 1 WG 0 HD 30 HD 8 AN 8 AN 3 WG	PART NUMBER TC120 TC38 PCR SPCR	DESCRIPTION FLY FORM TOP CHORD 120IN FLY FORM TOP CHORD 38IN FLY FORM TOP CHORD 38IN FLY FORM TOP CHORD SPLICE PLATE FLY FORM TOP CHORD SPACER FLY FORM 34IN X 4 111/6/N BOLT FLAT WASHER 34IN (S.A.E.) Hex Nuts (Inch Series) Hex Nut Helical Spring Lock Washers TIE PLATE 6 X 8	MATERIAL Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6061 Steel, Mild Steel, Mild Steel, Mild Steel, Mild Steel, Mild	MM-SS 25.771 Ibmass 7.700 Ibmass 4.721 Ibmass 0.402 Ibmass 0.938 Ibmass 0.938 Ibmass 0.938 Ibmass 0.139 Ibmass 0.139 Ibmass 0.139 Ibmass 0.04287 Ibmass 6.960 Ibmass	DRAWN Dave CHECKED JJ APPROVED VB FILE NAME FFTC156A 12FT-W.iam PROJECT NAME	31/10/2013	DRAWING TITLE 152MM STE SHEET SIZE PART NO.	1680 Bonhill Rd., Mississauga, ON, Canada Tel: 905-677-4932 / Fax: 905-677-4542 Web Ski: www.hite-systems.com E-mail: jasco@H-lite-systems.com Tel: Ski: Ski: Ski: Com Construction Tel: Ski: Ski: Com Construction Tel: Ski: Ski: Com Construction Tel: Ski: Ski: Com Construction Tel: Ski: Com Com Construction Tel: Ski: Com Com Construction Tel: Ski: Com Com Construction Tel: Ski: Com
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EM 1 2 3 4 5 6 7 8 9 10 11 12	QTY PF 2 FF 2 FF 2 FF 8 FF 1 WG 30 HD 8 AN 8 AN 3 WG 2 HD	PART NUMBER TC120 TC38 TC5P SPCR	DESCRIPTION RLY FORM TOP CHORD 120IN RLY FORM TOP CHORD 32IN FLY FORM TOP CHORD SPLICE PLATE FLY FORM TOP CHORD SPACER FLY FORM 3/4IN X 4 11/16IN BOLT FLAT WASHER 3/4IN (S.A.E) Hex Nuts (Inch Sarles) Hex Nut Helical Spring Lock Washers TIE FLATE 6 X 8 FLAT WASHER 1/2 HEX NUT 1/2IN NC	MATERIAL Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6361 Steel, Mid Steel, Mid Steel, Mid Steel, Mid Steel, Mid Steel, Mid Steel, Mid	MMAGO 25.771 lbmass 7.700 lbmass 4.721 lbmass 0.452 lbmass 0.938 lbmass 0.938 lbmass 0.139 lbmass 0.139 lbmass 0.04287 lbmass 0.04287 lbmass 0.003 lbmass 0.003 lbmass 0.003 lbmass	DRAWN Dave CHECKED JJ APPROVED VB FILE NAME FFTC156A 12FT-W.iam PROJECT NAME	31/10/2013	DRAWING TITLE 152MM STF SHEET SIZE PART NO. B FFT SCALE LUNTS	tief 0 Boochill Rd., Mississauga, ON, Canada Tel: 905407-4932 / Fax: 905407-4542 Web 3Hz: www.hi-fite-systems.com E-mail: Jacob Skr.55 McC. Tel: Source Bit - Browners room Tel: Source Bit - Bit - Bit - Bit - Bit - Bit - Bit - Source Bit - Bit - Bit - Bit

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Experience the Hi-Lite Advantage



4.2M/14FT-DESIGN DETAILS

Experience the Hi-Lite Advantage





Turne	А	В	С
туре	184mm I Beam (Pair)	152mm (6") FFTC C Channel (Pair)	140mm (5.5") FLTC C Channel (Pair)
mm / in	1828 / 72	1524 / 60	1524 / 60

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4.2M/14FT-DESIGN DETAILS



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4.2M/14FT-DESIGN DETAILS

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						(8)	7	5			12 6	"
			Parts List			(8)	7 (1	5	and the second s		12 6 BOT	II)
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1 1 2		PART NUMBER	Parts List DESCRIPTION FLY FORM TOP CHORD 120M FLY FORM TOP CHORD 60M	MATERIAL Aluminum 6351-T6 Aluminum 6351-T6	MASS 25.771 Britada 12.857 Ibritada	(8)	7	5	entre and a second seco		12 6 BOTT	гом
1 1 2 3	QTY 2 2 2	PART NUMBER	Parts List DESCRIPTION FLY FORM TOP CHORD 1200N FLY FORM TOP CHORD 500N FLY FORM TOP CHORD 5PLICE PLATE	MATERIAL Aluminum 6351-T6 Aluminum 6351-T6	MASS 25 771 brase 12 857 brase 4.721 brase	DRAWN DRAWN	7 1	5		Test Boorhill H.d. N	12 6 BOT	FOM
11 2 3 4	QTY 2 2 8	PART NUMBER PFTC120 FFTC50 FFTC50 FFTC5P FFSPCR	Parts List DESCRIPTION FLY FORM TOP CHORD 120IN FLY FORM TOP CHORD 60IN FLY FORM TOP CHORD 60LOCE PLATE FLY FORM TOP CHORD 5PLOCE PLATE FLY FORM TOP CHORD 5PLOCE	MATERIAL Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351 T6	MASS 25 771 briasa 12.677 briasa 4.721 briasa 0.402 briasa	DRAWN DGJ DGJ	7 1	5		1580 Bonhill Rd., N Tel: 005-677-6032 Web Site: www.th4	12 6 BOTT	TOM
1 1 2 3 4 5	QTY 2 2 8 1	PART NUMBER FFTC120 FFTC59 FFSPCR WGFR152	Parts List DESCRIPTION FLY FORM TOP CHORD 120M FLY FORM TOP CHORD 60M FLY FORM TOP CHORD SPACER	MATERIAL Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6051 Aluminum 6061	MASS 25.771 Bridash 12.857 Dimoss 4.721 Brinass 0.402 Brinass 0.4038 Brinass	DRAWN DGJ OHECKED BW/1	7 1 30/10/2013 03/11/2013	5		1680 Bonhill Rd, R	12 6 BOTT	FOM
1 1 2 3 4 5 6	QTY 2 2 8 1 8	PART NUMBER FFTC120 FFTCSP FFSPCR WGFR152 HDFF34BOLT	Parts List DESCRIPTION FLY FORM TOP CHORD 120M FLY FORM TOP CHORD SPLICE PLATE FLY FORM TOP CHORD SPACER FLY FORM 344N X 4 11/16IN BOLT	MATERIAL Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351 Aluminum 6051 Steel, Mild	MASS 25.771 Emissi 12.857 Emissi 4.721 Emissi 0.402 Emissi 0.408 Emissi 0.408 Emissi 0.408 Emissi 0.408 Emissi 0.408 Emissi	DRAWN DGJ CHECKED BWJ APPROVED	7 1 30/10/2013 03/11/2013	5	LITE	1580 Bonhill Rd., N Tel: 005-017-032 Web Site: www.hi- e-mdil: issco@hill 0: JASCO SALES Inc	12 6 BOTT	FOM anada, LST 1C8
1TEM 1 2 3 4 5 6 7	QTY 2 2 2 8 1 8 32	PART NUMBER PFTC120 PFTC80 FFTC8P FFSPCR WOFR152 HDFF3480LT HDWF348AE	Parts List DESCRIPTION FLY FORM TOP CHORD 1201N FLY FORM TOP CHORD 601N FLY FORM TOP CHORD SPACER FLY FORM TOP CHORD SPACER FLY FORM 3141N X 4 11/161N BOLT FLAT WASHER 341N (S.A.E)	MATERIAL Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351 T6 Aluminum 6061 Steel, Mild Steel, Mild	MASS 25.771 Emission 12.857 Emission 4.721 Emission 0.402 Emission 0.402 Emission 0.403 Emission 0.703 Emission 0.645 Emission	DRAWN DGJ CHECKED BWJ APPROVED VB	7 1 30/10/2013 03/11/2013 03/11/2013	5		1580 Bonhill Rd., N Tel: 005677-0032 Web Ster7-0032 Web Ster7-0032 Hemail: 15800Bhill Malci Datable Mr Hemail: 004000 (13 Html	12 6 BOTT	FOM anada, LST 1C8 2 10 BL MAGE WETHOUT
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1 1 2 3 4 5 6 7 8 9 10	QTY 2 2 2 8 1 8 32 6 6 6 4	PART NUMBER PFTC120 PFTC80 FFTCSP FFSPCR WOFR152 HDFF348AE ANSI B18.22 - 3/4 - 10 ANSI B18.20 - 10 ANSI B	Parts List DESCRIPTION FLY FORM TOP CHORD 120IN FLY FORM TOP CHORD 50IN FLY FORM TOP CHORD SPLICE PLATE FLY FORM 314IN X 4 11/16IN BOLT FLAT WASHER 3MIN (S.A.E) Hex Nuts (Inch Series) Hex Nut Helical Spring Lock Washers TIE PLATE 6 X 8	MATERIAL Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6061 Steel, Mild Steel, Mild Steel, Mild Steel, Mild Steel, Mild Steel, Mild Steel, Mild	MASS 25.771 Emission 12.857 Emission 4.721 Emission 4.402 Emission 4.402 Emission 4.403 Emission 4.403 Emission 4.404 Emission 4.404 Emission 4.404 Emission 4.404 Emission 4.407 Emission 6.808 Emission 6.808 Emission	DRAWN DGJ CHECKED BWJ APPROVED VB FILE NAME FFTC 180A 14FT-W.iam	7 1 30/10/2013 03/11/2013 03/11/2013	5 DRAWING TITLE 1521		1550 Bornhill Rd., A Toti 60567 4000 Web Bornhill Rd., A Toti 60567 40002 Web Bornhill Rd., A Toti 60567 40002 Web Bornhill Rd., A Toti 60567 40002 Meb Bornhill Rd., A Toti 60567 4000 Meb Bornhill Rd., A Toti 60567 40000 Meb Bornhill Rd., A Toti 60567 40000 Meb Bornhill Rd., A Toti	12 6 BOTT Histissauga, ON, C (Fas: 940697-466 Weighterns.com His-systems.com His-systems.com His-systems.com Histissauga.com, C (Case of the system of the s	FOM anada, LST 1C8 20 BI HADE WETHOUT IBLY
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1 2 3 4 5 6 7 8 9 10 11 11 12	QTTY 2 2 2 8 1 8 32 6 6 4 2 2 2	PART NUMBER FFTC120 FFTC80 FFTC80 FFSPCR WGFR152 HDWF348AE ANSI 818.2.2 - 34 - 10 ANSI 818.2.2 - 34 - 10 HDWF12 HDWF12 HDWF12	Parts List DESCRIPTION FLY FORM TOP CHORD 120N FLY FORM TOP CHORD 60IN FLY FORM TOP CHORD SPLICE PLATE FLY FORM TOP CHORD SPACER FLY FORM 314IN X 4 11/16IN BOLT FLAT WASHER 34IN (SA.E) Hax Nuts (Inch Soriog) Hax Nut Holical Spring Lock Washers TIE PLATE 6 X 8 FLAT WASHER 1/2 HEX NUT 1/2IN NC	MATERIAL Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6351-T6 Aluminum 6061 Steel, Mild Steel, Mild Steel, Mild Steel, Mild Steel, Mild Steel, Mild Steel, Mild Steel, Mild	MASS 25.771 Britasa 12.657 Dimoss 4.721 Ibriasa 0.402 Ibriass 0.403 Ibriass 0.405 Ibriass 0.4050 Ibriass 0.4050 Ibriass 0.4050 Ibriass 0.4050 Ibriass 0.4050 Ibriass 0.4051 Ibriass 0.403 Ibriass 0.403 Ibriass 0.403 Ibriass	DRAWN DGJ CHECKED BWUJ APPROVED VB FILE NAME FTC180A 14FT-W.iam PROJECT NAME WALLFORMS	7 1 30/10/2013 03/11/2013 03/11/2013	5 DRAWING TITLE 1521 SHEET SIZE PAU		 1680 Borthill Rd., R 1680 Borthill Rd., R	12 6 BOTT Hasissaaga, ON, C (Fac: 166-677-466 Bott Ba-systems.com ba-systems.com Calculated and a Calculated a Calculated a Calculated a Calculated a Calculated a Calculated a	TOM anada, LST 1C8 20 HAGE WETHOUT IBLY REV NO.
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4.8M/16FT-DESIGN DETAILS



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4.8M/16FT-DESIGN DETAILS

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4.8M/16FT-DESIGN DETAILS

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			Porte List			_			10 8) (14)	and it	sk -	
ITEM	OTY	PART NUMBER	DESCRIPTION	MASS	MATERIAL	-			\bigcirc		18	9	
1	2	FFTC120	FLY FORM TOP CHORD 120IN	25.771 lbmass	Aluminum 6351-T6	-						BOTT	TOM
2	2	FFTO60	FLY FORM TOP CHORD 50IN	12.857 Ibmass	Aluminum 6351-T6								
з	2	FFTC36	FLY FORM TOP CHORD 36IN	7.700 lbmass	Aluminum 6351-T6								
4	4	FFTCSP	FLY FORM TOP CHORD SPLICE PLATE	4.721 Ibmass	Aluminum 6351-T6		DRAWN	30/10/2013	- manager		1680 Bonhill Rd., B	lississauga, ON, Ca	neda, LST 1C8
6	11	FFSPCR	FLY FORM TOP CHORD SPACER	0.402 lbmass	Aluminum-6351 T6		DGJ		-		Tel: 905-677-4032 Web Site: www.hi-l	rax: 905-677-4542 ite-systems.com	
6	1	WGFR152		0.938 ibmass	Aluminum 6061		CHECKED DIA/1	03/11/2013			E-mail: jasco@hi-li	te-systems.com	
7	11	HDFF34BOLT	FLY FORM 3/4IN X 4 11/16IN BOLT	0.753 lbmass	Steel, Mild		BWJ	200110-00010			@ JASCO SALES INC	/11	
8	42	HDWF34SAE	FLAT WASHER 3/4IN (S.A.E)	0.045 lbmass	Steel, Mild		VB	03/11/2013	- Andrew Street	1.1	THIS DRAWING IS THE IN NO UNAUTHORIZED USE.	CLUSIVE PROPERTY OF JRIG COPY OR DESCLOSURE IS TO	0. DE MADE WETHOUT
9	9	ANSI B18.2.2 - 3/4 - 10	Hex Nuts (Inch Series) Hex Nut	0.139 lbmass	Steel, Mild		FLENAME		DRAWING TITL	F	THE PERMEMBINE PACEN IN	ulicit).	
10	9	ANSI B18.21.1 - 0.75	Helical Spring Lock Washers	0.04207 lbmass	Steel, Mild	_	FFTC216A-16FT-W.iam		152	MM STRON	G BACK A	SSEMBI	Y 8FT
11	2	HDNH34NC	HEX NUT 3/4IN NC	0.137 lbmess	Steel, Mild		DDO IF OT LUDIE		1021				
12	2	HDWL34	LOCK WASHER 3/4 IN	0.041 lbmass	Steel, Mid	_	PROJECT NAME				WALL		
13	4	WGTP6X8x1_2S	TIE PLATE 6 X 8	6.896 ibmass	Steel, Mild	_			SHEET SIZE	PART NO.			REV NO.
54	2	HDWF1/2	FLAT WASHER 1/2	0.003 lbmass	Generic	_			В	FFTC	216A-16F	T-W	0
15	2	HONH1/2NC	HEX NUT 1/2IN NC	0.043 Ibmass	Steel, Mild	_	GENERAL TOLERANCE		SCALE	UNITS	JOB NO.	eurer 3	0F 4
16	2	ANSI B18.2.1 - 1/2-13 UNC - 1.25	Hex Cap Screw	0.111 Ibmass	Steel, Mild	4						SHEET	vr

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January 2019

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STRONGBACK – 140mm / FLTC





STRONGBACK – 152mm / FFTC











WGPP25K64A

25K Push Pull Prop Assembly c/w 6' 25K Leg & 4' Ext. Tube 34.25 kg / 75.5 lbs

WGPP25K86A

25K Push Pull Prop Assembly c/w 8' 25K Leg & 6' Ext. Tube 39.33 kg / 86.7 lbs

WGPP25K108A

25K Push Pull Prop Assembly c/w 10' 25K Leg & 8' Ext. Tube 44.41 kg / 97.9 lbs

WGPP25K64A

25K Push Pull Prop Assembly c/w 12' 25K Leg & 10' Ext. Tube 49.53 kg / 109.2 lbs

WGPP25K64A

25K Push Pull Prop Assembly c/w 16' 25K Leg & 12' Ext. Tube 57.47 kg / 126.7 lbs

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BM165P

6-1/2" (165 mm) Aluminum Beam c/w Plastic Insert 6.3 kgs per meter / 4.3 lbs per LF



BM152S 6" Strongback/Top Chord (Pair)

??? kgs per meter / 5.4 lbs per LF (Pair)

BM140P

5-1/2" (140 mm) Aluminum Beam c/w Plastic Insert ??? kgs per meter / 3.4 lbs per LF



BM140S

5-1/2" Strongback/Top Chord (Pair) ??? kgs per meter / 3.6 lbs per LF (Pair)

BM184S

7-1/4" Strongback (Pair) ??? kgs per meter / 8,8 lbs per LF (Pair)



WGOCSB Outside Corner Strongback ??? kgs per meter / 1.4 lbs per LF





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WGTPC

Tie Plate 48,000 lbs c/w T-Bolt 3.18 kgs / 7.0 lbs



WGCW Catwalk Bracket 7.08 kgs / 15.6 lbs



DESCRIPTION:

THIS CAST HEAVY DUTY TIE PLATE IS DESIGNED WITH BUILT IN LOCATING TABS TO PROVIDE THE EXACT DISTANCE BETWEEN THE STRONGBACK PAIRS.

APPLICATIONS:

TO BE USED FOR HEAVY DUTY WALL FORM APPLICATIONS WITH THE 165MM BEAM AND THE 184MM STRONGBACK. SHIPPED COMPLETE WITH T-BOLTS. IT HAS A SAFE WORKING LOAD OF 182KN (41 KIPS) CAPACITY. (SF 2:1)

DESCRIPTION:

DESCRIPTION: THE HI-LITE CATWALK BRACKET PROVIDES A WORKING PLATFORM THAT IS 762MM (30") WIDE

APPLICATIONS:

USED WITH GANGED WALL FORM SYSTEMS TO PROVIDE A WALKWAY FOR POURING PURPOSES OR FOR INSTALLATION / REMOVAL OF FORM WORK TIES. THE BRACKET IS HOOKED ONTO AND T-BOLTED TO A HORIZONTAL BEAM USING HI-LITE T-BOLT. BRACKETS ARE INSTALLED AT 2.43M (8'-0") C/C MAX. AND ARE DESIGNED TO WORK WITH THE 165MM (6.5"), 140MM (5.5"), AND THE 114M (4.5") BEAMS. THE CATWALK BRACKET IS SHIPPED COMPLETE WITH POST SOCKET. THE POST SOCKET IS DESIGNED TO ACCEPT A 38MMX89MM (2"X4") WOOD POST, OR A 48MM (1.9") DIAMETER TUBE

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WGSBLB184

7-1/4" SB Lifting Bracket 8.80 kgs / 19.4 lbs



APPLICATIONS:

USED WITH THE GANGED WALL FORM SYSTEMS AS A LIFTING LUG. USED WITH THE 184MM (7.25") STRONGBACK UNITS, IN THE VERTICAL POSITION. SHIPPED COMPLETE WITH CONNECTING BOLTS, AND SHACKLE.

CAPACITY: 13kN (3000 lbs.)

WGSLB2

6" SB Lifting Bracket 7.60 kgs / 16.8 lbs

APPLICATIONS:

USED WITH THE GANGED WALL FORM SYSTEMS AS A LIFTING LUG. USED WITH THE 152MM (6") STRONGBACK UNITS, IN THE VERTICAL POSITION. SHIPPED COMPLETE WITH CONNECTING BOLTS, AND SHACKLE.

CAPACITY: 13kN (3000 lbs.)

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WGSBFR 7-1/4" Strongback Foot Rest Aluminum 1.63 kgs / 3.6 lbs

APPLICATIONS:

USED WITH SMALL GANGED PANELS IN APPLICATIONS WHERE BEAMS ARE USED VERTICALLY. THE BRACKET IS BOLTED TO THE WEB OF THE BEAM USING TWO 12MM (1/2") DIAMETER BOLTS. AVAILABLE FOR 165MM AND 140MM BEAMS.

CAPACITY: 7kN (1500 lbs.)

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AEWASCS

ALUMINUM INSIDE STRIPING CORNER 140mm x 140mm (5.5" x 5.5") 7.3 kgs/m (4.9 lbs/ft)



WMCTA CORNER TIE ROD ASSEMBLY 8 kgs / 18 lbs

COMPONENTS:

90 DEGREE ALUMINUM CORNER SECTION C/W SIDE STRIPPING SECTIONS AND HARDWARE.

APPLICATIONS:

USED WITH ANY WALL FORM SYSTEMS USING 17.5mm (11/16") PLYWOOD TO FORM AN INSIDE CORNER. THE SIDE STRIPPING SECTIONS ARE SECURED TO THE PLYWOOD USING SCREWS AT 152mm (6") ON CENTER AS WELL AS 8mm (5/16") DIAMETER CARRIAGE BOLTS AT ONE METER (39") CENTERS. STRIPPING UNITS ARE T-BOLTED TO THE CORNER AT 610mm (24") ON CENTER

COMPONENTS:

CORNER TIE ROD BRACKETS C/W T-BOLTS COIL THREAD TIE ROD C/W NUTS AND WASHERS, 12mm (1/2") DIAMETER.

APPLICATIONS:

USED TO TIE TOGETHER TWO ALUMINUM OUTSIDE CORNER STRONGBACKS ON GANGED WALL FORM TO FORM A 90 DEGREE OUTSIDE CORNER. CORNER TIE ROD BRACKETS AND TIE RODS ARE CONNECTED TO THE CORNER STRONGBACK AT A SPACING OF 610mm (2'-0") MAX.

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