Experience

















the Hi-Lite Advantage

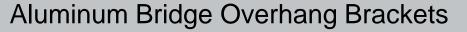






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ALUMINUM BRIDGE OVERHANG BRACKETS

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INTRODUCTION



This edition of Hi-Lite's Aluminum Bridge Brackets Instruction Manual is the latest update on, what we believe, is the most advanced Bridge Bracket system on the market today.

The Bridge Bracket System is primarily a hand-set system. It can also be handled with a crane as a "ganged set". (Consult with Hi-Lite Engineering for design)

This manual is published primarily for our customers, shoring designers and erectors this aluminum Bridge Bracket 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. Each component of the Bridge Bracket is described and illustrated along with the features and benefits of using the system are outlined in depth and key elements are cross referenced to particular components.

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

Barry & Dave Jackson
HI-LITE SYSTEMS







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.





With the same load capacity at half the weight of steel, the Hi-Lite Bridge Overhang Bracket System reduces installation time – every time.

Strong

Compared to conventional steel brackets, spacing is greatly improved with aluminum components. In fact they can be spaced twice as far apart – up to 10 feet – with a resulting weight half that of conventional steel brackets. The use of a screed machine necessitates only a slightly reduced spacing.

Safe

An adjustment rod controls the diagonal strut from above. The bridge bracket can be leveled quickly without going underneath. The safety rail, either lumber or tube-and-clamp, attaches to the Guard Rail Post Holder, which can be adjusted to accommodate sloping decks.

Efficient

Assembly is fast and easy. The adjustment rod is removed easily and the diagonal strut folds against the rest of the bracket. That way the entire bracket takes up very little space during shipping. The aluminum material is also far less likely to damage the bridge girders.





Versatile

The components of the bracket are modular, meaning that the parts are all standard but are highly adjustable. Different overhangs and different bridge shapes therefore present no difficulty and that saves labour and materials.

The upper top chord and the diagonal strut are manufactured with a T-bolt slot all along their length. Because of this the rest of the parts can be attached and stripped easily or the bracket can be flown into position by crane.

A Top Chord Extension can be used to lengthen the upper portion of the bracket.

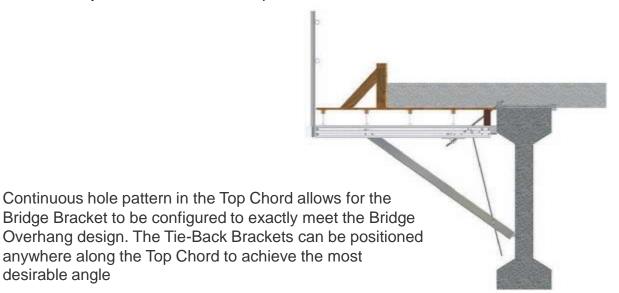
Economical

The Hi-Lite bridge overhang bracket installs and strips quickly, adjusts to most conditions and has a superior load-bearing capacity. The contractor saves on both materials and labour, and the project is not slowed down by unusual conditions. **Better. Faster. Cheaper.**



Product Highlights

- Can be spaced twice as far apart compared to equivalent steel brackets.
- Requires significantly less labor for installation and stripping.
- The Adjustment Rod can be easily and safely turned from above without going underneath.
- The aluminum resting bars are less likely to damage the bridge girders.
- A Top Chord Extension can be used to lengthen the upper portion of bracket.
- Workers no longer need to use scissor lifts or other more injury prone methods to adjust the bridge brackets. HI-LITE's patented Top-Down leveling feature allows them to adjust brackets from the top of the deck – safely and quickly.





The Resting Bars are made of aluminum so that there is a major reduction in the chance of scratching and/or damaging the steel or concrete bridge girders.

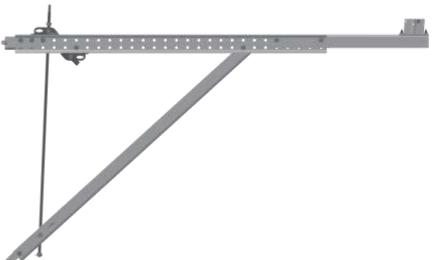
desirable angle





BBRBC – BB Rod Bracket Assembly

Hi-Lite's Aluminum Bridge Brackets utilizes our unique Rod Bracket, that allows for simple and safe adjustment and re-location of the Brackets along the Top Chord without having to split and separate the Top Chords



BBEXTDS42C - BB Extension 42in

When extension of the standard Bridge Bracket is required, Hi-Lite has the solution. Our 42in Extension easily bolts to the Top Chord Sections, and allows for the Guard Rail post holder to be attached to the end, using T-Bolts. Maximum extension is 24inches from the end of the Top Chords.



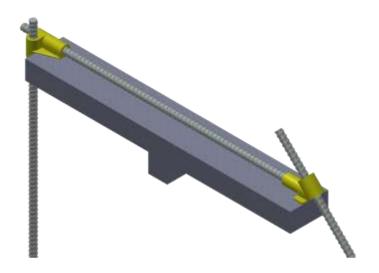


BBHE3/4

17mm – 3/4in hi-strength (18,000 lbs) lag stud rod tie-rod bridge bracket hangers and casting ends



BBHF3/4





APPLICATIONS

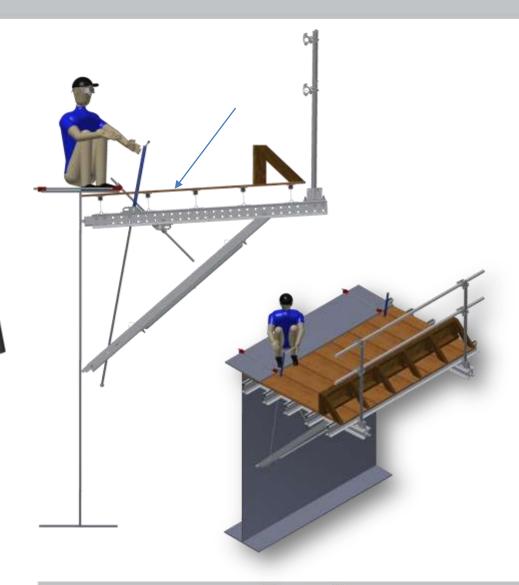
TOP DOWN ADJUSTMENT



The **biggest** single advantage of the Hi-Lite Bridge Bracket is the ability to "Top Down" adjust and "plumb" the brackets after installation and the deck is now loaded with re-bar and other equipment. Workers can safely and effortlessly fine-tune the deck prior to the concrete pour, saving significant time and resources compared to all other systems.

We recommend a 12 point, 9/16 socket, extension and swing bar arrangement as shown.

As the adjustment rod, is protected within the BB-Plastic Tube, sufficient length of extension is required to reach the Hex Head rod end.





HD BRACKET SIZES

HD 12K BRIDGE OVERHANG BRACKET SIZES



STANDARD SIZE BB7

Heavy Duty Aluminum Bridge Overhanging Bracket 7' Long 33.43 kgs / 73.71 lbs

SIZES AVAILABLE UPON REQUEST BB4

Heavy Duty Aluminum Bridge Overhanging Bracket 4' Long 23.64 kgs / 52.12 lbs

BB5

Heavy Duty Aluminum Bridge Overhanging Bracket 5' Long 27.59 kgs / 60.82 lbs

BB6

Heavy Duty Aluminum Bridge Overhanging Bracket 6' Long 30.51 kgs / 67.27 lbs

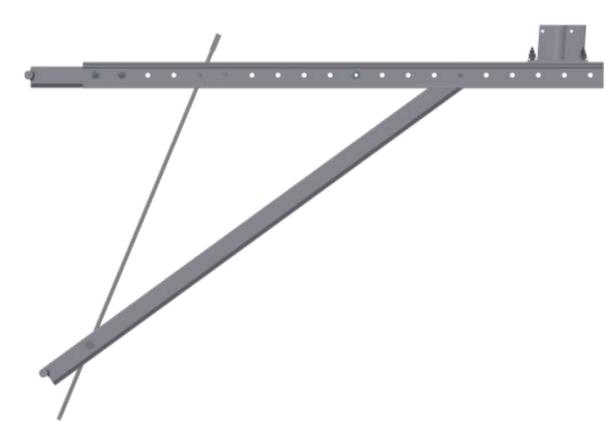
BB8

Heavy Duty Aluminum Bridge Overhanging Bracket 8' Long 36.36 kgs / 80.15 lbs



STANDARD SIZES

6K BRIDGE OVERHANG BRACKET STANDARD SIZES



BBL4

Lite Duty Aluminum Bridge Overhanging Bracket 4' Long 14.8 kgs / 32.63 lbs

BBL₅

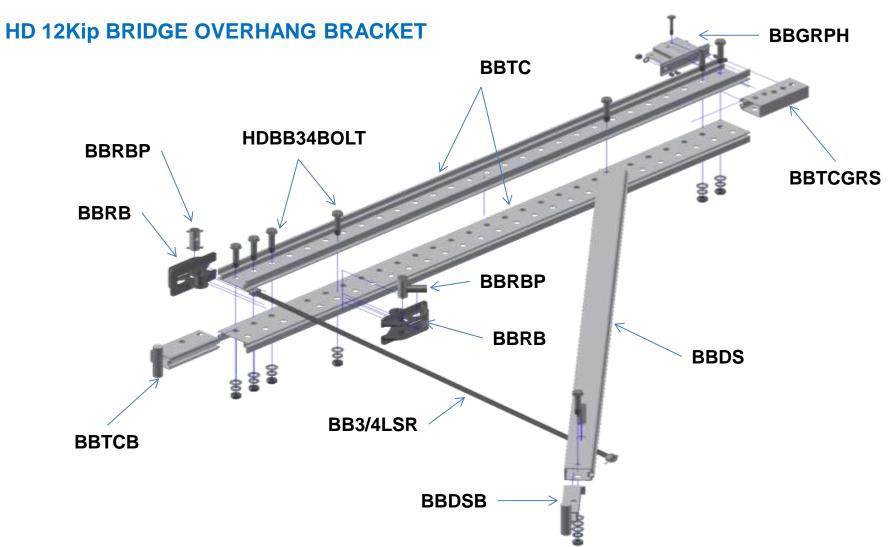
Lite Duty Aluminum Bridge Overhanging Bracket 5' Long 17.2 kgs / 37.92 lbs

BBL₆

Lite Duty Aluminum Bridge Overhanging Bracket 6' Long 19.1 kgs / 42.11 lbs



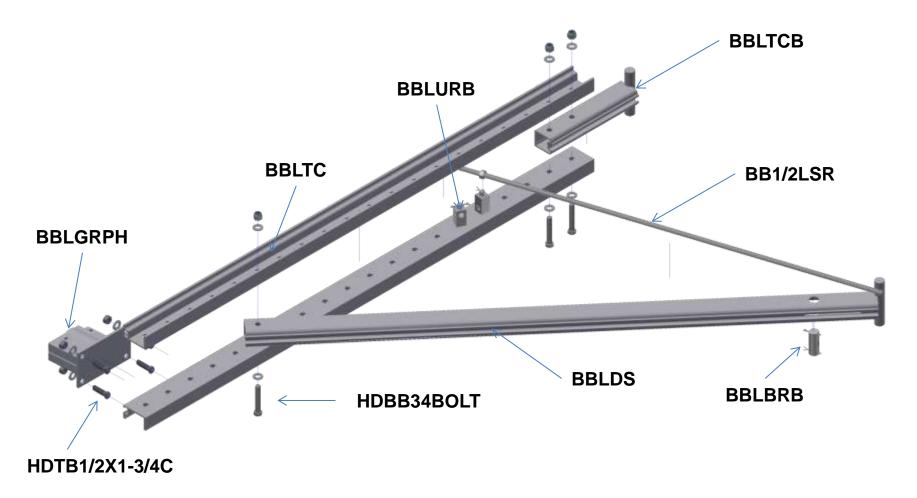
ASSEMBLY





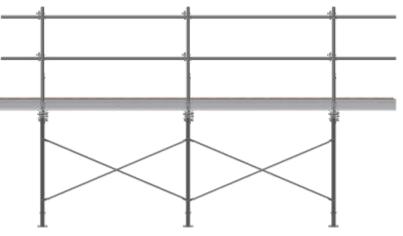


LD 6Kip BRIDGE OVERHANG BRACKET





GANGED BRACKETS



Economical installation of multiple brackets can be achieved by ganging, and flying in as a crane set.

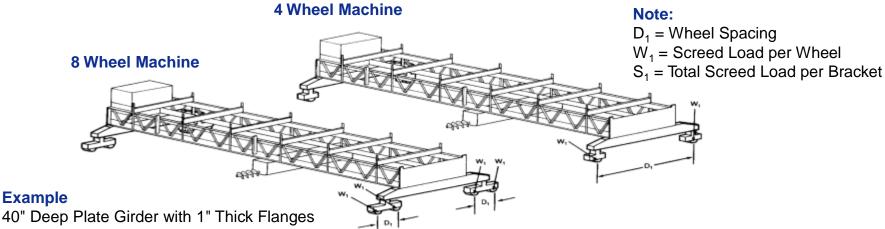
Cross-Bracing is recommended only to maintain parallel spacing of multiple brackets. Bridge-Brackets do not require additional bracing for strength.

BE SURE TO CHECK ALL RELEVANT CODES.





SCREED LOAD



The Aluminum Bridge Bracket in the above example to support a 3'-0"

overhang from a plate girder, the spacing table on page 70 should be used.

The correct "D" dimension (30") is determined by subtracting from the

girder's 40" depth, both flange thicknesses, the overall thickness of the form

lumber plus a clearance allowance of 2" to 6". For the above example it has

been decided to use a trial hanger and bracket spacing of 4'-0". This results

40" Deep Plate Girder with 1" Thick Flanges 3'-0" Overhang 8" Thick Overhang Slab (157 PSF) BB7 Aluminum Bridge Bracket C-60 Type 8-A Pres-Steel Hanger, 4,500 lbs. 8 Wheel Screed Machine = 1'-6" D1

= 650 lbs. Wheel Load

in a total screed load (S_1) per bracket of 1,105 lbs. $\frac{4'-0"}{1}$ Trial Spacing = 2.66, which means the Screed Load Factor (SLF) as shown above is 1.7. 1.5' D₁

Enter the spacing table at 157 PSF design load (8" slab thickness), "D" = 30" and upper row for a 4,500 lb. Pres-Steel Hanger. Follow this row until it intersects the vertical column having a total screed load (S₁) per bracket of 1,250 lbs. The allowable hanger and bracket spacing is 3'-3".

16

 $S_1 = (W_1)(SLF) = 650$ lbs. x 1.7 = 1,105 lbs.

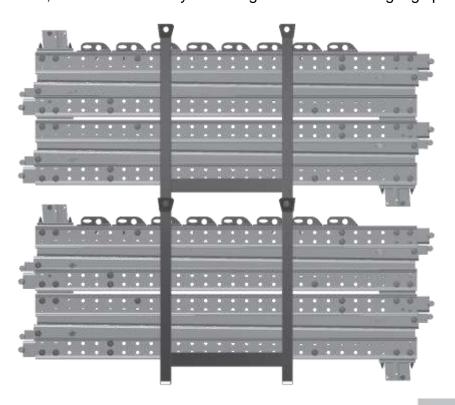
W1

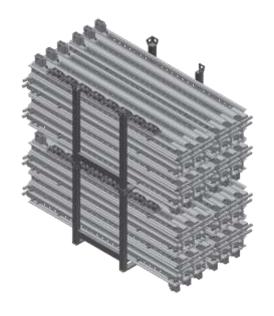


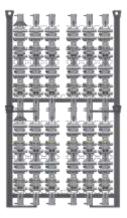
STORAGE & SHIPPING

It is always important to protect your investment in products by taking the time to ensure that good storage and shipping practices are applied.

Hi-Lite provides Bridge Bracket shipping racks, which are collapsible for separate shipping and storage. Racks can be handled with standard yard forklift, and with cranes by attaching chains to the lifting lugs provided.









STORAGE & SHIPPING

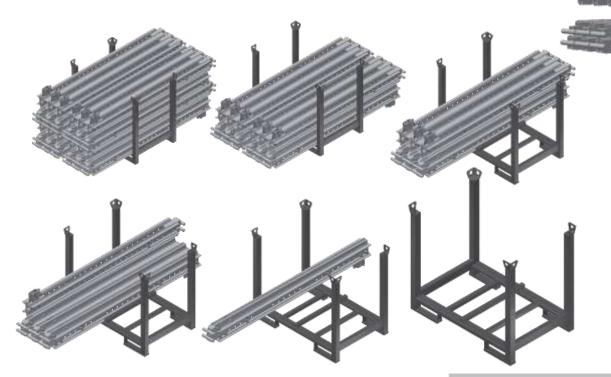


Hi-Lite's Bridge Overhang Brackets conveniently and easily collapse into a 1 piece unit that allows for maximum quantity to be packed into our shipping racks, for yard storage and economical site shipments.



STORAGE & SHIPPING

Hi-Lite provides Bridge Bracket shipping racks, which are collapsible for separate shipping and storage. Racks can be handled with standard yard forklift, and with cranes by attaching chains to the lifting lugs provided.





ALUMINUM BEAMS

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

cost,

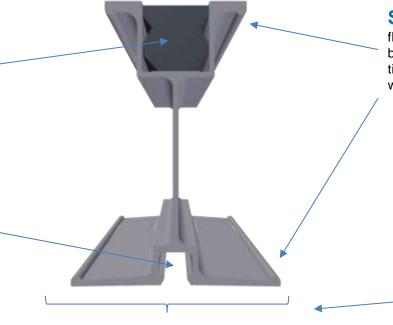
and

lower

transportation 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.



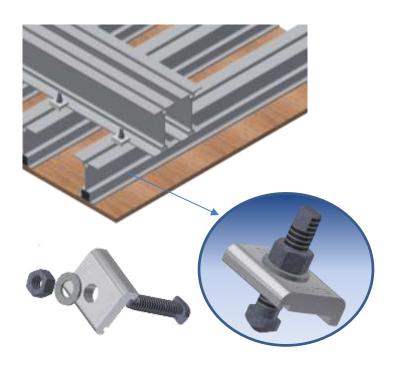
Hi-Lite Aluminum Beams have many other advantages over competing beams. Our designs save time on the job and reduce maintenance. Please refer to our load charts for capacities. Generally speaking, Hi-Lite beams carry more load and usually cost less.

This information is subject to change. Latest information may be obtained from HI-LITE's web site at www.hi-lite-systems.com. Copyright © 2013 by HI-LITE SYSTEMS Inc. All rights reserved. No part of this manual may be used or reproduced in any manner whatsoever without prior written permission.

Experience the Hi-Lite Advantage



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:

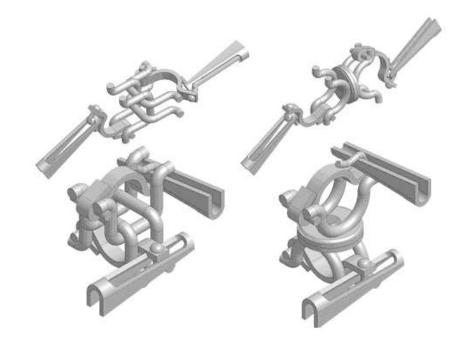
- a) Securing aluminum beams to standard steel Post Shores.
- b) Securing joists to stringers on Wall Forms or rolling tables, or when a sloping slab is to be poured.





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.

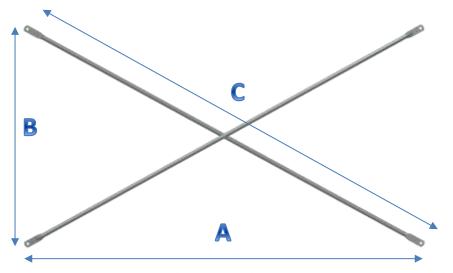
Tube-and-clamp bracing is added to maintain capacity when building a support system of frame towers over 3 tiers high, to give extra stability. The clamps are adequately tightened with moderate blows from a carpenter's hammer.



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CROSS BRACING





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

| | DESCRIPTION | TUB | E | IMPERIAL | | | METRIC | | | | COLOUR CODE | | |
|----------|-------------|----------------|----|-----------|-----------|-------------|---------------|---------|---------|---------|--------------|---------|------|
| PART No. | (A) x (B) | DIA Inches/ | | A Feet | B Feet | C Inches | WEIGHT Lbs | A mm | B mm | C mm | WEIGHT Kg | HI-LITE | USER |
| 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 | |



Economical installation of multiple brackets can be achieved by ganging, and flying in as a crane set.

Cross-Bracing is recommended only to maintain parallel spacing of multiple brackets. Bridge-Brackets <u>do not</u> require additional bracing for strength.

BE SURE TO CHECK ALL RELEVANT CODES.

















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HI-LITE PROJECT

PCL Edmonton, Canada

PROJECT DESCRIPTION

6' overhanging slab with 11" thickness

PROJECT CHALLENGES

To support 6' overhanging slab, 100' high with screed load of 2800lbs.

PROJECT RESULTS

Hi-Lite's heavy duty bridge bracket, which weighs only 58lbs with a 12,000lbs capacity, helped complete the job before deadline due to innovative adjustment feature resulting in **substantial labour savings**.









- · Half the number of brackets were required vs. steel.
- Light and easy to work with required less labour.
- Easily installed the formwork directly on the launching deck, speeding up the process.
- With strongbacks, equal spacing was maintained inside and outside steel girders – saving material and labour.
- Overhang brackets were installed by one person lifting it up on the deck and the second installing it into place.
- Overhang brackets were easily adjustable from the top, enhancing worker safety under difficult conditions.
- A 50m (164') span of brackets installed in just 2 hours!

"We've had great success installing these [Hi-Lite] overhang bridge brackets as well as the interior aluminum strongbacks...a single man was able to lift them into place..."

"On the inside we have 6" deep strongbacks. We were able to install them much quicker than we would have achieved with wood."

Ken Tanner

Flatiron Construction Corp.



HI-LITE PROJECT

Sea to Sky Bridge - Vancouver, Canada

PROJECT DESCRIPTION

Improvement of Sea to Sky Highway

PROJECT CHALLENGES

To support the bridge deck 100' in the air and over a railway track. The safety of the workers was a major issue

PROJECT RESULTS

The fine adjustment feature of the aluminum bridge overhang bracket provided ability for workers to perform fine adjustment operations by sitting on deck.







HI-LITE PROJECT

I-95 Overpass - New Haven CT, USA

PROJECT DESCRIPTION

The completion of several bridges and overpasses on the I-95

PROJECT CHALLENGES

The contractor required a safe and economical bridge bracket solution to win a 2 year project involving the construction of several bridges and overpasses. Hi-Lite's 6K Aluminum Bridge Brackets Solution was chosen

PROJECT RESULTS

Hi-Lite Bridge Bracket Solution significantly increased the contractor's productivity cycle and reduced labour cost. The durable nature of Hi-Lite Aluminum Bridge Brackets made them ideal for use on multiple bridges over an extended period of time.







COMPARISON DATA

| JASCO - ALUMINUM | SYMONS / DAYTON - STEEL C89 | | | | |
|--|---|--|--|--|--|
| Light weight – 75lbs - High productivity for labor | Heavy – 145 lbs - Low productivity due to labor | | | | |
| Aluminum – no rust, paint to maintain. | Steel – higher maintenance. Will rust. | | | | |
| Aluminum – high residual scrap value / High resale value. | 0 scrap value / Lower re-sale value. | | | | |
| 12,000 lbs SWL capacity – spacing wider | 8,000 lbs SWL capacity | | | | |
| Can be ganged to install multiple brackets at one time (flown in) | no | | | | |
| T-Bolts slots allowing for many variation of accessories to be attached. | no | | | | |
| Shipping / Storage Rack for best possible logistic / fright cost | no | | | | |
| Better Rental Rate than Steel Version \$/lbs (kgs) | no | | | | |
| Extensions available | no | | | | |



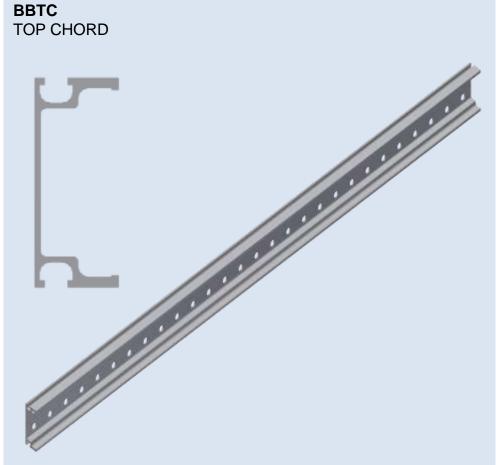
Example of packing



Example of packing



PARTS HD BRACKETS



BBTC48

HD BB Top Chord 1.2 m (48") 3.76 kg / 8.3 lbs

BBTC60

HD BB Top Chord 1.5 m (60") 4.67 kg / 10.3 lbs

BBTC72

HD BB Top Chord 1.8 m (72") 5.62 kg / 12.4 lbs

BBTC84

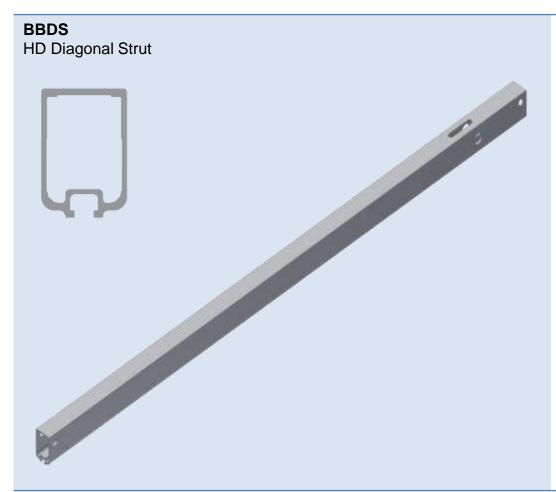
HD BB Top Chord 2.1 m (84") 6.53 kg / 14.4 lbs

BBTC96

HD BB Top Chord 2.4 m (96") 7.48 kg / 16.5 lbs



PARTS HD BRACKETS



BBDS48

HD BB Diagonal Strut 1.2 m (48") 4.17 kg / 9.2 lbs

BBDS60

HD BB Diagonal Strut 1.5 m (60") 5.26 kg / 11.6 lbs

BBDS72

HD BB Diagonal Strut 1.8 m (72") 6.30 kg / 13.9 lbs

BBDS84

HD BB Diagonal Strut 2.1 m (84") 7.35 kg / 16.2 lbs

BBDS96

HD BB Diagonal Strut 2.4 m (96") 8.44 kg / 18.6 lbs



PARTS HD BRACKETS

BB3/4LSR48

BB Welded 3/4 x 48" (1.2 m) Threaded Rod c/w Hdw 2.45 kg / 5.4 lbs

BB3/4LSR60

BB Welded 3/4 x 60" (1.5 m) Threaded Rod c/w Hdw 2.95 kg / 6.5 lbs

BB3/4LSR66

BB Welded 3/4 x 66" (1.68 m) Threaded Rod c/w Hdw 3.22 kg / 7.1 lbs

BB3/4LSR72

BB Welded 3/4 x 72" (1.8 m) Threaded Rod c/w Hdw 3.49 kg / 7.7 lbs

BB3/4LSR120

BB Welded 3/4 x 120" (3 m) Threaded Rod c/w Hdw 5.53 kg / 12.2 lbs

BBTCB

HD Top Chord Bumper 1.0 kg / 2.2 lbs

BBGRPHA

Guard Rail Post Holder 1.1 kg / 2.4 lbs

BBEXT42C

HD BB Extension 42" 3.72 kg / 8.2 lbs

BBRB

HD BB Rod Bracket 2.54 kg / 5.6 lbs





BBDSB

HD Diagonal Strut Bumper 0.95 kg / 2.1 lbs



BBTCGRS

HD BB Top Chord **GRPH Support** 0.68 kg / 1.5 lbs



BBDSP

Diagonal Strut Pin 0.54 kg / 1.2 lbs



BBDH

Double Hanger 2.22 kg / 4.9 lbs





PARTS LD BRACKETS



BBLTC48

BBL Top Chord 1.2 m (48") 2.45 kg / 5.4 lbs

BBLTC60

BBL Top Chord 1.5 m (60") 3.08 kg / 6.8 lbs

BBLTC72

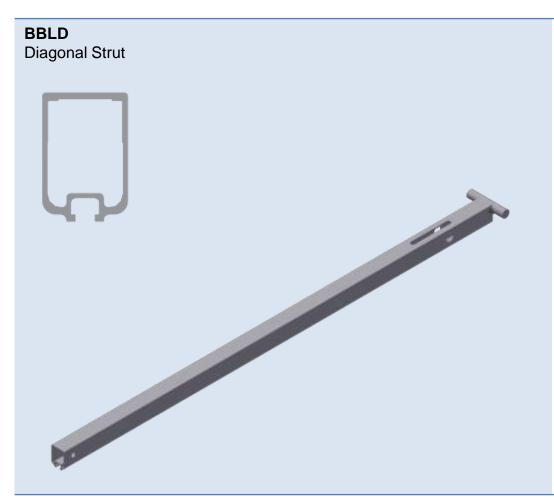
BBL Top Chord 1.8 m (72") 3.67 kg / 8.1 lbs

BBLTC84

BBL Top Chord 2.1 m (84") 4.31 kg / 9.5 lbs



PARTS LD BRACKETS



BBLDS48

BBL Diagonal Strut 1.2 m (48") 4.17 kg / 6.1 lbs

BBLDS60

BBL Diagonal Strut 1.5 m (60") 5.26 kg / 7.6 lbs

BBLDS72

BBL Diagonal Strut 1.8 m (72") 6.30 kg / 9.1 lbs

BBLDS84

BBL Diagonal Strut 2.1 m (84") 7.35 kg / 10.6 lbs



PARTS LD BRACKETS

BBLURB

LD BB Top Chord Hanger Pin 0.68 kg / 1.5 lbs



BB1/2LSR48

LL BB Welded Threaded Rod 1/2 x 48" (1.2 m) c/w Hdw 1.18 kg / 2.6 lbs



BBLGRPH

LD BB Guard Rail Post Holder 1.59 kg / 3.5 lbs



BB1/2LSR60

LL BB Welded Threaded Rod 1/2 x 60" (1.5 m) c/w Hdw 1.63 kg / 3.6 lbs



BBLTCB

LD BB Top Chord Bumper 0.86 kg / 1.9 lbs



BB1/2LSR72

LL BB Welded Threaded Rod 1/2 x 72" (1.8 m) c/w Hdw 1.95 kg / 4.3 lbs



BBLBRB

LD BB diagonal Strut Pin 0.68 kg / 1.5 lbs



BB1/2LSR120

LL BB Welded Threaded Rod 1/2 x 120" (3.0 m) c/w Hdw 3.04 kg / 6.7 lbs





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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.

Experiencethe 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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