

'C' Series Mechanical Dock Leveler

Model

'FMC'



85 Heart Lake Road South
Brampton, ON, Canada L6W 3K2
Phone: 905-457-3900 • Fax: 905-457-2313
www.BlueGiant.com

AUTHORIZED DISTRIBUTOR

BLUE GIANT EQUIPMENT CORPORATION

Standard Selections - Check Here After Submittal Completion

Dock Leveler Standard Features Unless Specified Otherwise:

- Vertical Travel: +/-12" Above / Below Dock Level
- Toe Protection: Working Range Toe Guards

Model: _____

Nominal Size:

- 6' W x 6' L
 6' W x 8' L
 6'6" W x 6' L
 6'6" W x 8' L
 7' W x 6' L
 7' W x 8' L

Standard Capacity:

- 25,000 lbs.
 30,000 lbs.
 35,000 lbs.

Lip Size:
 16" (Standard)
 18"
 Lip Width:
 Full Width
 Taper Lip

Bumpers:
 Laminated DB411 (4.5" x 14" x 10")
 Molded DB13 (4" x 10" x 13")
 Dock Paint:
 Blue
 Black
 Gray

Special Notations: _____

General Options - Check Here After Options Reviewed

Facility Safety Accessories

- Manual Light Package (NEMA 12 Control With On/Off Toggle Switch For 115V/1PH/60HZ)
- Automatic Light Package (NEMA 12 Control With On/Off Toggle Switch For 115V/1PH/60HZ. Note: Light Activated By Dock Lip Extension)
- Key Switch Control For Light Package
- Cast-In-Place Mounting Plate (For Future Restraint Install)
- Wheel Chock c/w 15' Chain

Dock Leveler

- Full Operating Range Toe Guards
- Mechanical Fall Safe
- Clean Pit Frame
- Other Bumper Model _____ (See Bumper Submittal)
- Steel Face Plate For Bumper
 - Laminated Bumper
 - Molded Bumper

Pit Accessories

- Curb Angles;
 - 4 PC 6 PC 8PC
- Pour-In Pans;
 - 3-Sides 3-Sides W/Bottom
- Pit-Kit

Weatherseals

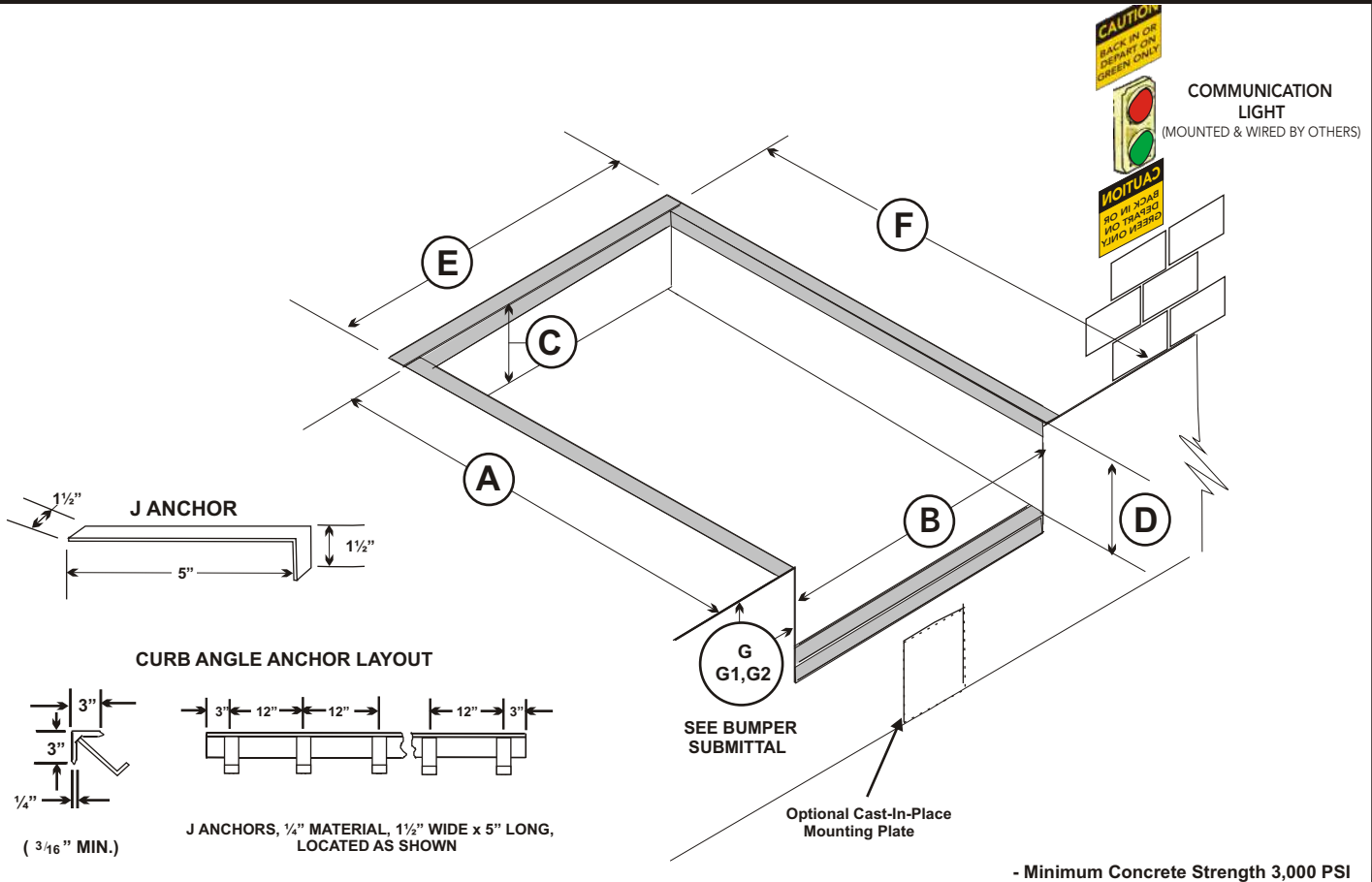
- Rubber Sides Rear
- Brush Sides Rear

Paint And Finish

- Other Paint Color For Dock (Specify Pantone / ICI Code _____)
- Rust Inhibiting Primer For Dock
- Non-Skid Grit Surface For Deck
- Foam Insulated Deck
- Hot Dipped Galvanized;
 - Curb Angle Pans
- Cold Spray Galvanizing;
 - Curb Angle Pans
 - Pit Kit

| | | | |
|-----------------------|---------------------------|---------------------|-------------|
| MODEL: _____ | QTY: _____ | BG ORDER #: _____ | DATE: _____ |
| CUSTOMER: _____ | | | |
| STREET ADDRESS: _____ | | | |
| CITY: _____ | STATE/PROVINCE: _____ | ZIP / POSTAL: _____ | |
| PROJECT: _____ | GENERAL CONTRACTOR: _____ | | |
| ARCHITECT: _____ | DEALER: _____ | | |
| APPROVED BY: _____ | APPROVAL DATE: _____ | | |

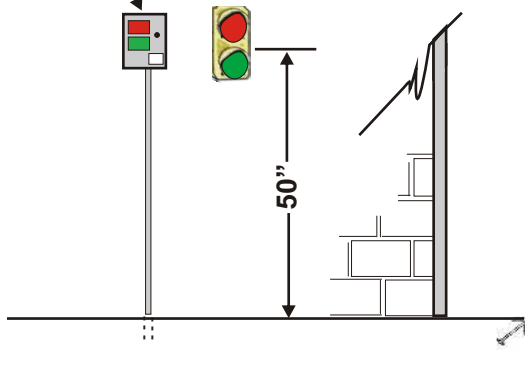
The following artist renderings & information supplied subject to change without notice or liability. Please refer to owners/installation manuals where applicable.



ELECTRICAL REQUIREMENTS -

- MOUNT PUSH BUTTON STATION TO WALL AND IF APPLICABLE, SIGNAL LIGHTS AND DRIVER WARNING SIGNS (BY OTHERS)
- INSTALL WIRING FROM PUSH BUTTON STATION TO POWER PACK (BY OTHERS)
- INSTALL WIRING FROM PUSH BUTTON STATION TO POWER SUPPLY (BY OTHERS)

COMMUNICATION LIGHT CONTROL STATION
(MOUNTED DRIVER'S SIDE)

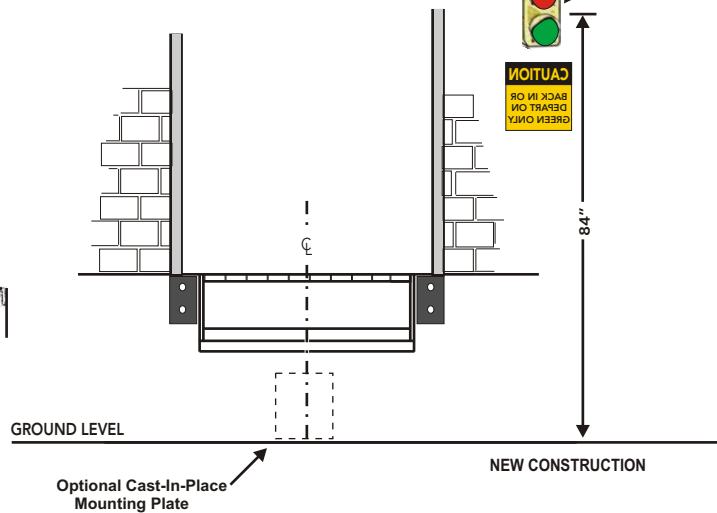


VIEW A
(INSIDE BUILDING)

CAUTION
BACK IN OR DEPART ON GREEN ONLY

COMMUNICATION SIGNS
(MOUNTED DRIVER'S SIDE)

COMMUNICATION LIGHTS
(MOUNTED DRIVER'S SIDE)



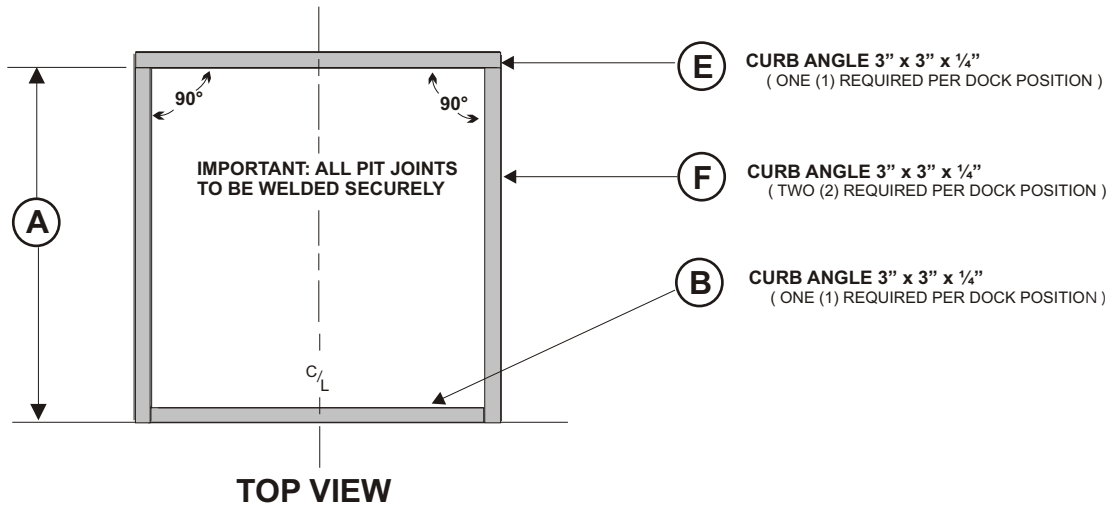
FRONT ELEVATION VIEW

* DRAWINGS NOT TO SCALE

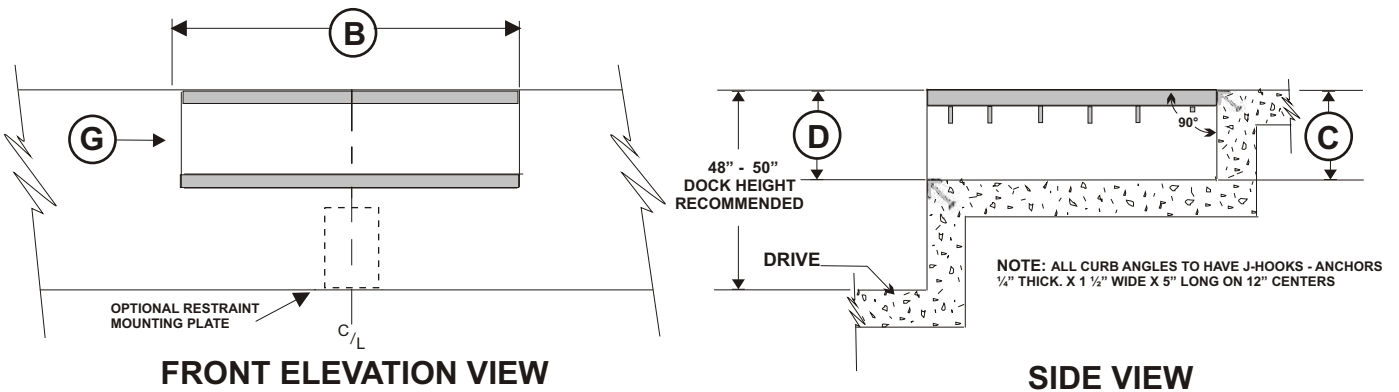
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INSTALLATION DETAIL - ENSURE DOCK LEVELER IS SHIMMED PROPERLY AND UNIT IS FLUSH WITH CROSS-TRAFFIC FLOOR



ELECTRICAL DETAILS - ALL INTERIOR AND EXTERIOR ELECTRICAL AND HYDRAULIC CONDUITS, WIRING, DISCONNECT AND CONNECTION TO POWER TO BE SUPPLIED BY OTHERS IN COMPLIANCE WITH LOCAL CODES.



* DRAWINGS NOT TO SCALE

DOCK LEVELER PIT DIMENSIONS

| NOMINAL DOCK LEVELER SIZE | | 6' x 6' | 6' x 8' | 7' x 6' | 7' x 8' | 6'6" x 6' | 6'6" x 8' |
|---------------------------|-------------------|---------|---------|---------|---------|-----------|-----------|
| PIT LENGTH | DIM."A" | 61.25" | 85.25" | 61.25" | 85.25" | 61.25" | 85.25" |
| PIT WIDTH | DIM."B" | 74" | 74" | 85" | 85" | 80" | 80" |
| PIT DEPTH REAR | DIM."C" | 19.5" | 19.5" | 19.5" | 19.5" | 19.5" | 19.5" |
| PIT DEPTH FRONT | DIM."D" | 20" | 20" | 20" | 20" | 20" | 20" |
| Qty. | | | | | | | |
| 1 | CURB ANGLE FRONT | DIM."B" | 74" | 74" | 85" | 85" | 80" |
| 1 | CURB ANGLE REAR | DIM."E" | 80" | 80" | 91" | 91" | 86" |
| 2 | CURB ANGLE SIDE | DIM."F" | 61.25" | 85.25" | 61.25" | 85.25" | 61.25" |
| 2 | CURB ANGLE BUMPER | DIM."G" | *19.75" | *19.75" | *19.75" | *19.75" | *19.75" |

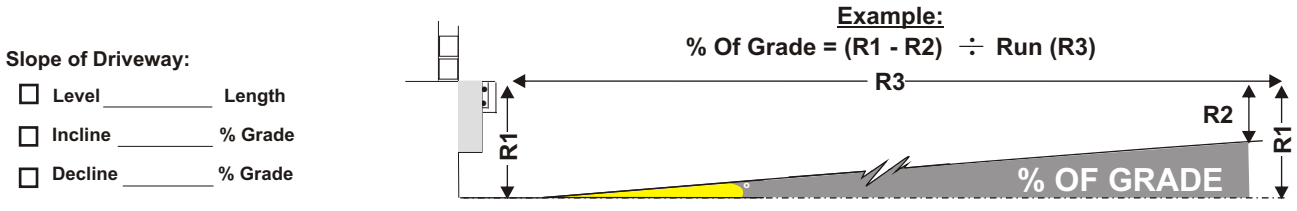
*NOTE: VERTICAL PIECES NOTCHED & WELDED FOR FULL CLOSURE

CURB ANGLE REQUIREMENT FOR NOMINAL PIT SIZES SUPPLY BY OTHERS SUPPLY BY BLUE GIANT DEALER

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SLOPED DRIVEWAY APPROACH FORMULA: % OF GRADE = RISE (R₁ - R₂) DIVIDED BY RUN (R₃)

- Rise is the difference in elevation between the dock and point in front of dock, e.g. 50'
- Run is the actual distance on the driveway that the rise is measured e.g. 50' to match the average "over-the-road" trailer length
- To determine this on site, use a 50' string line. Restrict access to dock leveler and loading dock position take all safety precautions, secure string line to top of lip spool of dock leveler when in the cross-traffic position or loading dock floor. Walk out 50' and measure vertical drop to grade. Use level for accurate height level.



Slope of Driveway:

Level _____ Length

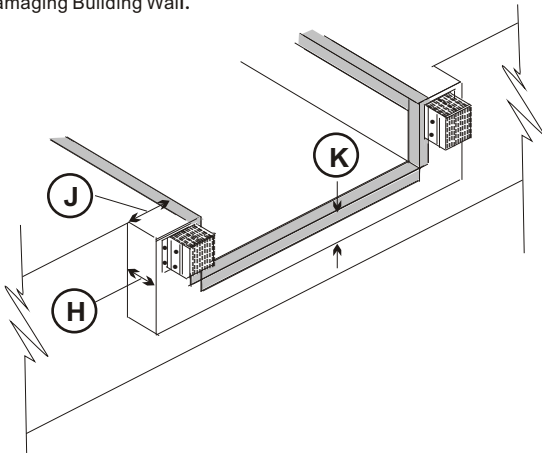
Incline _____ % Grade

Decline _____ % Grade

Please State The Following In Round Numbers Same Unit of Measurement R₁ = _____ R₂ = _____ Run (R₃) = _____

PROJECTED PIT

For Decline Docks, Prevents Backing Trucks From Damaging Building Wall.



- H** Projection Length Increases Proportionally To The Amount Of Decline + 4" Standard Bumper (See Chart).
- J** Width Of Pit Bumper Projection To Suit Size & Style Of Bumper Selected. For Laminated Bumper Allow 4" Extra Beyond Bumper Width. Recommend 18" For Blue Giant Standard Bumper.
- K** Minimum 6"- 8" Reinforced Concrete

RECOMMENDED - PROJECTED PIT

| GRADE % | PIT PROJECTION | + MIN BUMPER | = TOTAL PROJECTION |
|---------|----------------|--------------|--------------------|
| 0% | LEVEL | 4" | 4" |
| 1% | 2" | 4" | 6" |
| 2% | 3" | 4" | 7" |
| 3% | 4" | 4" | 8" |
| 4% | 5" | 4" | 9" |
| 5% | 6" | 4" | 10" |
| 6% | 7" | 4" | 11" |
| 7% | 8" | 4" | 12" |
| 8% | 9" | 4" | 13" |
| 9% | 10" | 4" | 14" |
| 10% | 11" | 4" | 15" |

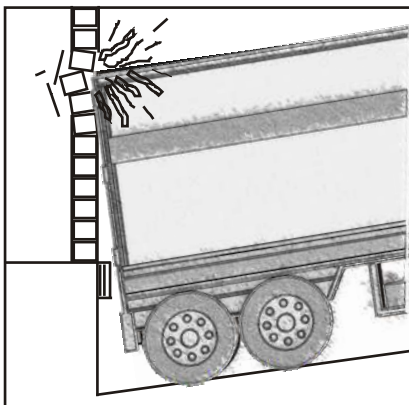
* It Is Strongly Recommended For 1% - 3% Of Grade, Bumper Projection May Be Required Using Build Out Blocks, Extensions Or Thicker Bumpers. Consideration Of Lip Purchase Is Required If Existing Installation. Minimum 4" -6" Lip Purchase On Trailer Bed Is Required.

! WARNING

Spotting Tractors (Yard Jockeys) When Used At The Loading Dock To Switch Trailers, Creates A Momentary Decline Slope. This Is Due To The Front Of The Trailer Being Lifted, Which In Turn Tilts The Back Of The Trailer To The Building. This Creates Lack Of Bumper Projection, Which Can Damage The Building And Injure Personnel. Please Contact Blue Giant For Further Information At (800) 668 - 7078.

IMPROPER BUMPER PROJECTION

! WARNING



Can Damage Building And Injure Personnel

SAFETY

! WARNING

CODE COMPLIANCE

NEED TO MEET OSHA & ANSI STANDARDS

To Meet OSHA*, ANSI Requirements And To Remove Some Legal/Insurance Issues That May Arise, It Is Required To Use At Minimum Wheel Chocks Anytime Loading Equipment Is Used At The Dock To Load/Unload Vehicles. However, With The High Overall Cost Of Wheel Chocks And Their Effectiveness Low, We Recommend OSHA Accepted Alternative To Wheel Chocks, The Mechanical Means Of Securing Trucks In Position To The Dock. We Recommend For Your Consideration The Leading Technology From Blue Giant In Manual Restraints Or Powered Push Button Activated Restraints For Employees Safety And Providing Your Company A Modern Safe Dock.

Provided Safety: Model _____

Wheel Chocks Manual Restraint Powered Restraint

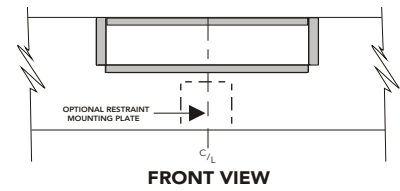
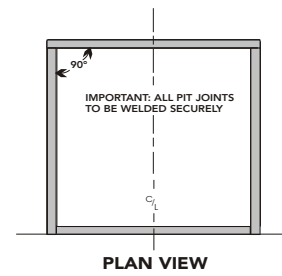
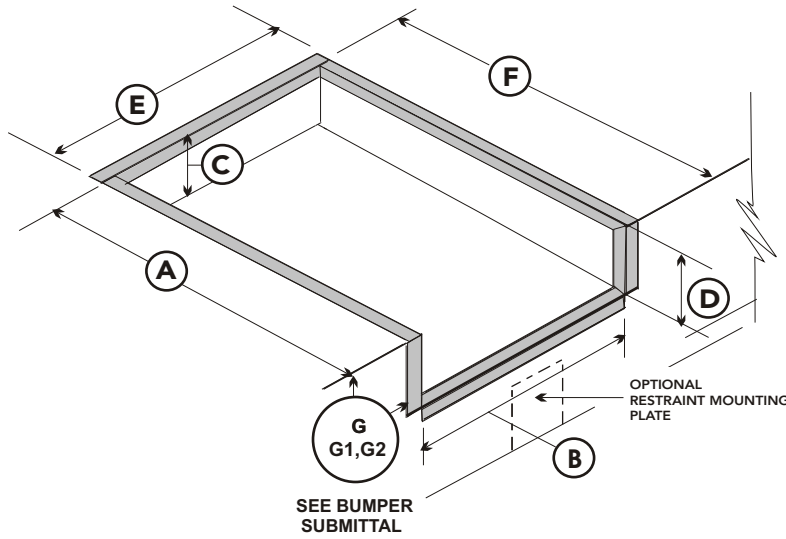
None By Others

* Reference OSHA 1910.178 (k) (1) And OSHA 1910.178 (m) (7)

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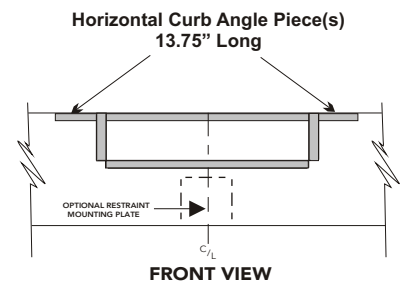
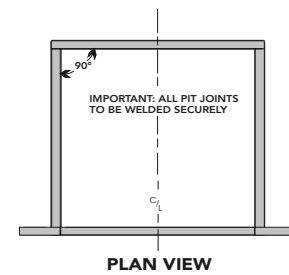
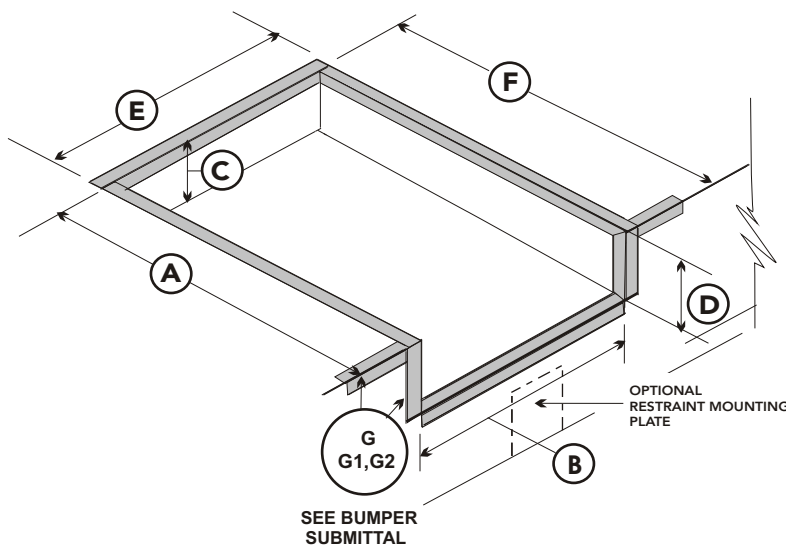
Six (6) Piece Curb Angle Set



- Minimum Concrete Strength 3,000 PSI

SIX (6) PIECE CURB ANGLE SET

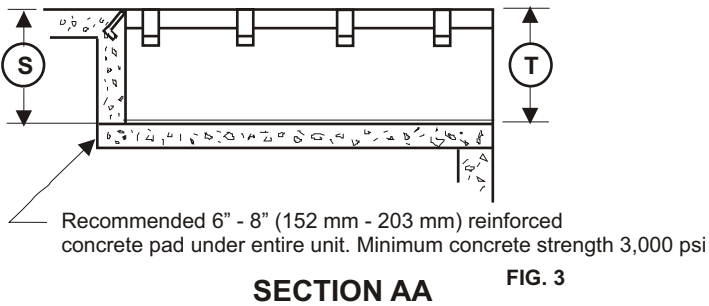
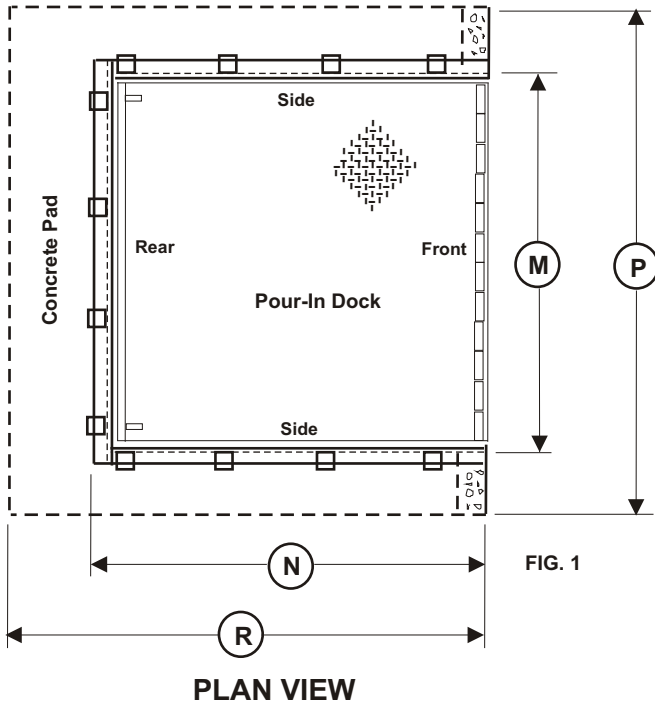
Eight (8) Piece Curb Angle Set



- Minimum Concrete Strength 3,000 PSI

EIGHT (8) PIECE CURB ANGLE SET

- Pour-In Pans
 3-Sides 3-Sides W/Bottom



NOTES:

- Dimension tolerances ± 0.25 (6mm).
- Dim. P and R applicable only when breaking out dock leveler opening(s) in existing buildings.

**POUR-IN DOCK
INSTALLATION INSTRUCTIONS**

Includes -

Dock leveler installed in Pour-In four (4) sided all steel construction form. BLUE GIANT dock leveler is delivered ready for installation.

1. Site and pour (float finish) to a height below the finished floor (see FIG 3). It is recommended that 6" (150 mm) of concrete be poured under the entire unit. The back of the pit floor should be approximately 1/2" (12 mm) higher

DOCK LEVELER DIMENSION REFERENCE

| MODEL (WxL) | M | | N | | P* | | R* | | S | | T | |
|----------------|----|------|--------|------|-----|------|-----|------|------|-----|----|-----|
| | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| 5' x 6' | 66 | 1676 | 64.25 | 1632 | 85 | 2159 | 78 | 1981 | 19.5 | 495 | 20 | 508 |
| 6' x 6' | 78 | 1981 | 64.25 | 1632 | 97 | 2464 | 78 | 1981 | 19.5 | 495 | 20 | 508 |
| 6' x 8' | 78 | 1981 | 88.25 | 2242 | 97 | 2464 | 102 | 2591 | 19.5 | 495 | 20 | 508 |
| 6' x 10' | 80 | 2032 | 112.25 | 2851 | 97 | 2464 | 126 | 3200 | 19.5 | 495 | 20 | 508 |
| 6' x 12' | 80 | 2032 | 136.25 | 3461 | 97 | 2464 | 150 | 3810 | 19.5 | 495 | 20 | 508 |
| 6'6" x 6' | 84 | 2134 | 64.25 | 1632 | 103 | 2616 | 78 | 1981 | 19.5 | 495 | 20 | 508 |
| 6'6" x 8' | 84 | 2134 | 88.25 | 2242 | 103 | 2616 | 102 | 2591 | 19.5 | 495 | 20 | 508 |
| 6'6" x 10' | 86 | 2184 | 112.25 | 2851 | 103 | 2616 | 126 | 3200 | 19.5 | 495 | 20 | 508 |
| 6'6" x 12' | 86 | 2184 | 136.25 | 3461 | 103 | 2616 | 150 | 3810 | 19.5 | 495 | 20 | 508 |
| 7' x 6' | 89 | 2261 | 64.25 | 1632 | 108 | 2743 | 78 | 1981 | 19.5 | 495 | 20 | 508 |
| 7' x 8' | 89 | 2261 | 88.25 | 2242 | 108 | 2743 | 102 | 2591 | 19.5 | 495 | 20 | 508 |
| 7' x 10' | 91 | 2311 | 112.25 | 2851 | 108 | 2743 | 126 | 3200 | 19.5 | 495 | 20 | 508 |
| 7' x 12' | 91 | 2311 | 136.25 | 3461 | 108 | 2743 | 150 | 3810 | 19.5 | 495 | 20 | 508 |

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Pour-In Pans

- 3-Sides
- 3-Sides W/Bottom

1. - **continued**
than the front to allow for drainage.
2. - The Pour-In Dock is complete with lifting lugs (see FIG. 5) located on top of the Pour-In Dock ramp (see FIG. 5). Do not use any other method than the use of the lifting lugs to place the Pour-In Dock. Bend the Pour-In Dock sides and rear J-hooks (see FIG. 5) out to a 45° angle. Set the Pour-In Dock onto the cured concrete pit floor. Be sure the front of the Pour-In Dock front angle (subframe - see FIG. 6) is square, level and flush with the finished pit floor while insuring the Pour-In Dock is centrally located. Shimming if required for side and rear angles to be flush and level with final finished floor surface.

3. - Ramset or otherwise secure the bottom of the Pour-In Dock to the concrete pit floor.

IMPORTANT: Pour-In Dock subframe must be flush with dock face. Top of Pour-In Dock form to be flush and level with finished dock floor (see FIG. 6).

4. - Form the front of the dock face and brace (see FIG. 6). This will prevent bowing of the panels under the weight of the wet concrete. Slowly pour the concrete to form the pit walls. Do not pour the concrete fast. Ensure the J-hooks are securely embedded in the concrete. For Hydraulic Docks, it is necessary to install conduit(s) for electrical and possibly hydraulic lines - See BLUE GIANT pit dimension drawings. Allow sufficient cure time for the concrete then remove front forms.

5. - Refer to the BLUE GIANT Owners Manual for proper procedure to install bumpers (see FIG. 7) and complete dock leveler installation.

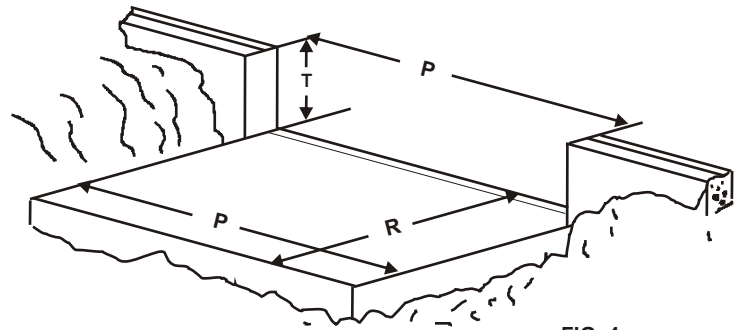


FIG. 4
Rear view of pour concrete pit floor before Pour-In Dock installation (detail for concrete remodeling projects)

- Minimum Concrete Strength 3,000 PSI

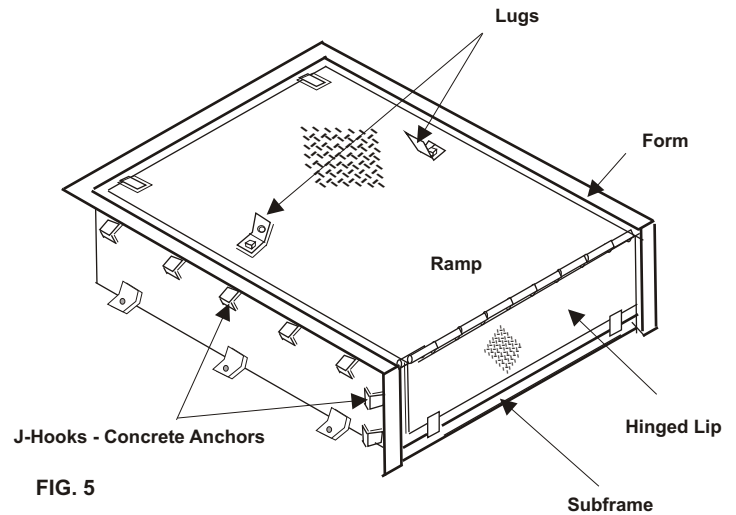
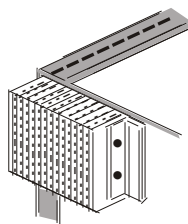


FIG. 5



Bumper Installation

FIG. 7

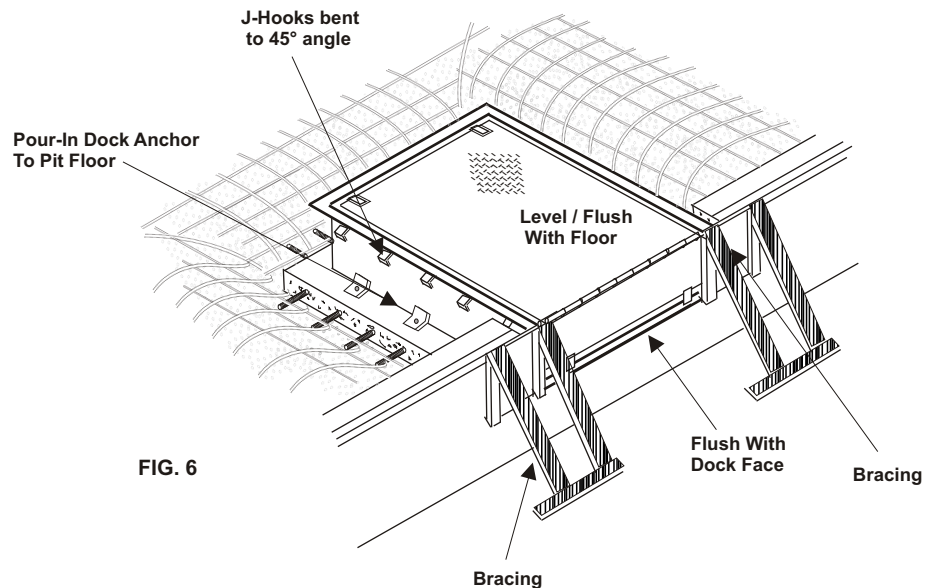


FIG. 6

☐ Pit-Kit

DOCK LEVELER PIT KIT
INSTALLATION INSTRUCTIONS

Includes -

Four (4) piece all steel construction (see FIG. 1) consisting of: pit walls with curb angles welded to steel side panels (left side, right side and rear) plus front curb angle

Provides-

All the construction advantages of a pour-in dock leveler while eliminating the problems of handling and positioning the dock leveler months before it is needed. Ensures accurate pit dimensions and squareness

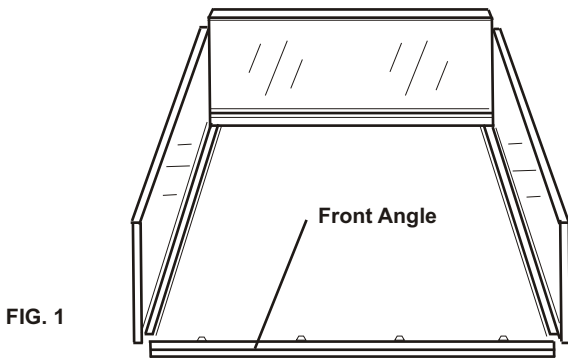


FIG. 1

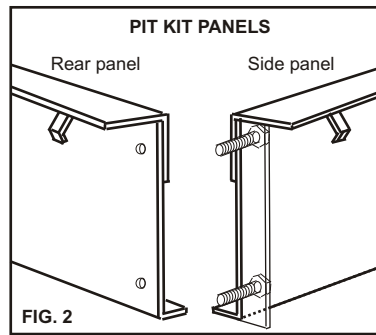


FIG. 2

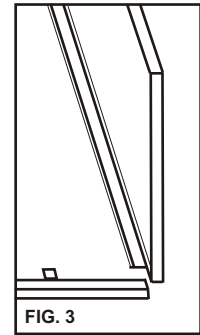


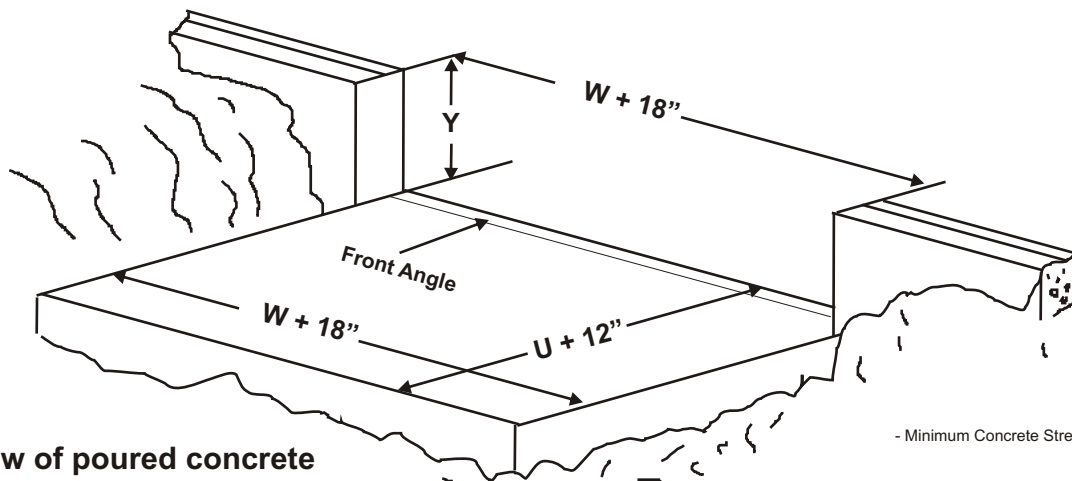
FIG. 3

Procedures -

1. Site and pour (float finish) to a height below the finished floor (see FIG. 6). It is recommended that 6" (150mm) of concrete be poured under the entire unit. The back of the pit floor should be approximately 1/2" (12mm) higher than the front to allow for drainage. **While the base slab is being poured, locate the front angle (see FIG. 1 and FIG. 6). Be sure the front angle is square level and centrally located for the Pit Kit assembly. Ensure the J-hooks are securely embedded in the concrete.**

2. Assemble the Pit Kit panels by bolting the rear corners together (see FIG. 2). Weld the side panels to the front angle (see FIG. 3) and ramset or otherwise secure the bottom of the assembled Pit Kit panels to the slab. The front of the side panels should be flush with the front angle. Shimming if required for side and rear angle to be flush and level with final finished floor surface..

IMPORTANT: Pit Kit must be kept square to allow for dock assembly.



- Minimum Concrete Strength 3,000 PSI

Rear view of poured concrete pit floor before Pit Kit installation

FIG. 4

Pit-Kit

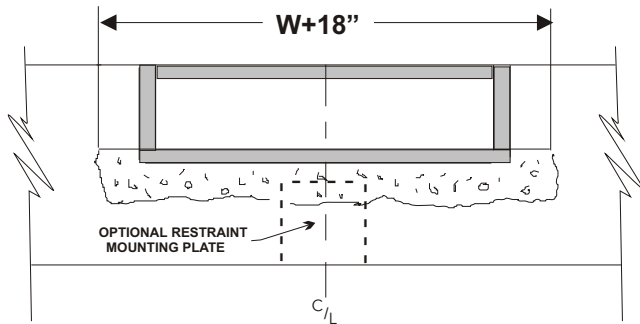


FIG. 5 FRONT ELEVATION

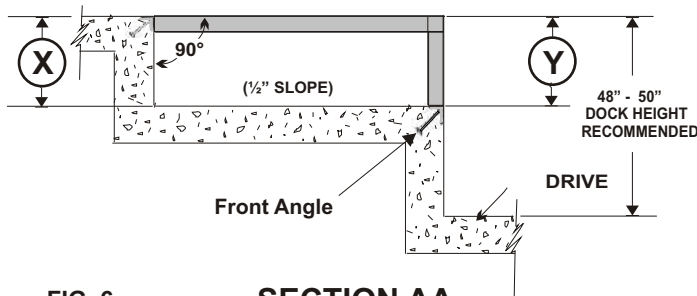


FIG. 6 SECTION AA

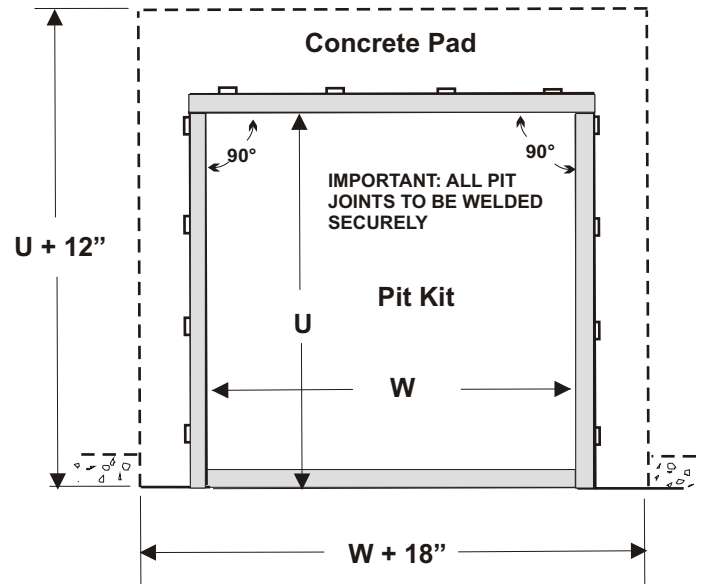


FIG. 7 PLAN VIEW

3. Form the front of the dock face and cross brace the Pit Kit panels (see FIG. 8). This will prevent bowing of the panels under the weight of the wet concrete. Slowly pour the concrete to form the pit walls. Do not pour the concrete fast. Ensure the J-hooks are securely embedded in the concrete. For Hydraulic Docks, it is necessary to install conduit(s) for electrical and possibly hydraulic lines - see BLUE GIANT pit dimension drawings. Allow sufficient cure time for the concrete then remove forms.
4. Refer to the BLUE GIANT Owners Manual for proper procedure to install the leveler into the pit.

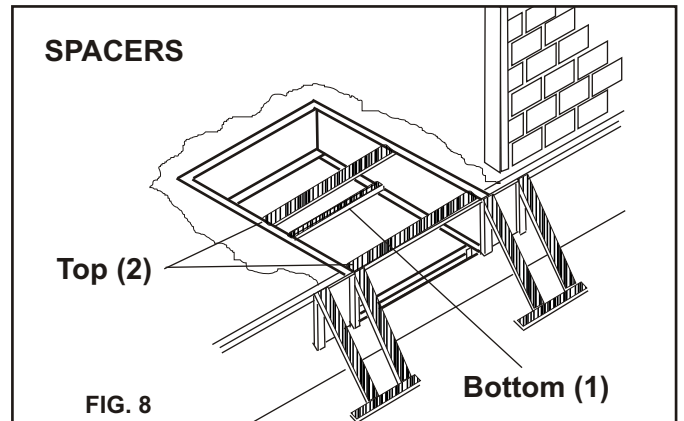


FIG. 8

DOCK LEVELER PIT DIMENSIONS

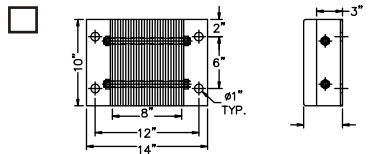
| NOM. DOCK LEVELER SIZE | | 5'x6' | 6'x6' | 6'x8' | 6'x10' | 6'x12' | 7'x6' | 7'x8' | 7'x10' | 7'x12' | 6'6"x6' | 6'6"x8' | 6'6"x10' | 6'6"x12' |
|------------------------|----------|---------|---------|---------|----------|----------|---------|---------|----------|----------|---------|---------|----------|----------|
| PIT LENGTH | DIM. "U" | 61 1/4" | 61 1/4" | 85 1/4" | 109 1/4" | 133 1/4" | 61 1/4" | 85 1/4" | 109 1/4" | 133 1/4" | 61 1/4" | 85 1/4" | 109 1/4" | 133 1/4" |
| PIT WIDTH | DIM. "W" | 62" | 74" | 74" | 74" | 74" | 85" | 85" | 85" | 85" | 80" | 80" | 80" | 80" |
| PIT DEPTH REAR | DIM. "X" | 19 1/2" | 19 1/2" | 19 1/2" | 19 1/2" | 19 1/2" | 19 1/2" | 19 1/2" | 19 1/2" | 19 1/2" | 19 1/2" | 19 1/2" | 19 1/2" | 19 1/2" |
| PIT DEPTH FRONT | DIM. "Y" | 20" | 20" | 20" | 20" | 20" | 20" | 20" | 20" | 20" | 20" | 20" | 20" | 20" |

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LAMINATED

MOLDED



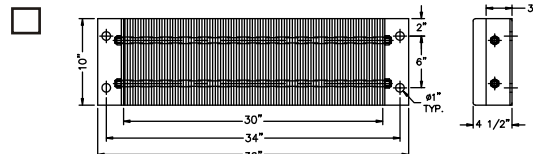
- MODEL DB-411, PART #796-142A
- MODEL DB-511, PART #796-141A

SPECIFY THICKNESS

- 4.5" Thick
- 5.5" Thick

OPTION:

- Steel Face



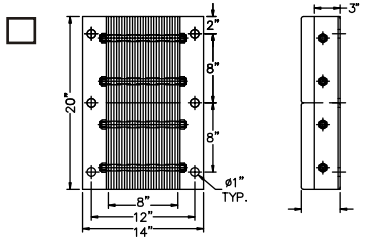
- MODEL DB-431, PART #796-138A
- MODEL DB-531, PART #796-137A

SPECIFY THICKNESS

- 4.5" Thick
- 5.5" Thick

OPTION:

- Steel Face



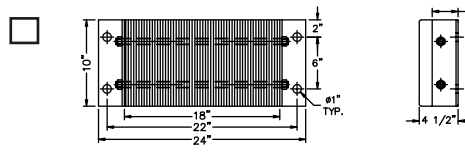
- MODEL DB-412, PART #796-136A
- MODEL DB-512, PART #796-135A

SPECIFY THICKNESS

- 4.5" Thick
- 5.5" Thick

OPTION:

- Steel Face



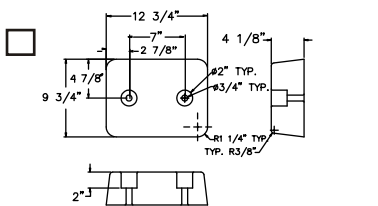
- MODEL DB-421, PART #796-140A
- MODEL DB-521, PART #796-139A

SPECIFY THICKNESS

- 4.5" Thick
- 5.5" Thick

OPTION:

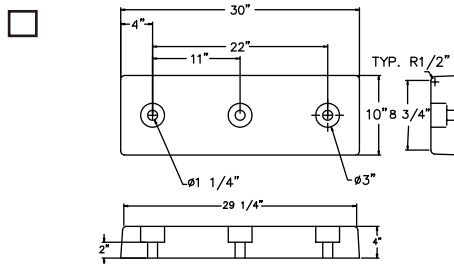
- Steel Face



- MODEL DB13, PART #110-886

OPTION:

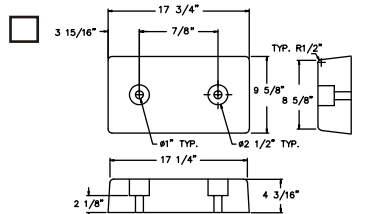
- Steel Face



- MODEL DB30, PART #090-821

OPTION:

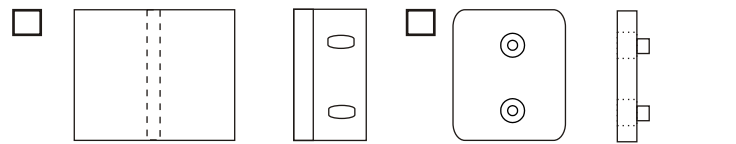
- Steel Face



- MODEL DB18, PART #090-600

OPTION:

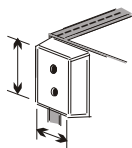
- Steel Face



STEEL FACE FOR LAMINATED BUMPER

STEEL FACE FOR MOLDED BUMPER

G - STANDARD - CURB ANGLE DETAIL



BUMPER SIZE
(NOMINAL)

WIDTH _____

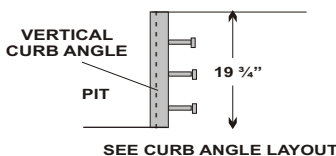
HEIGHT _____

PROJECTION _____

Standard Bumper Selection

- Blue Giant Supplied Molded Bumpers;
Two (2) DB413 (4.5 D x 10 W x 13 H)
- Blue Giant Supplied Laminated Bumpers;
Two (2) DB411 (4.5 D x 14 W x 10 H)

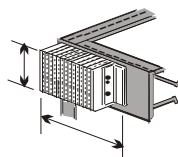
ANCHOR LAYOUT



SEE CURB ANGLE LAYOUT

GOOD

G1 - ALTERNATE 1 - PLATE MOUNTING DETAIL



BUMPER SIZE
(NOMINAL)

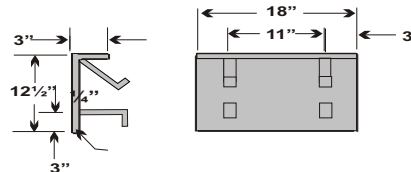
WIDTH _____

HEIGHT _____

PROJECTION _____

Note: Mounting Plate(s)
Provided By Others.

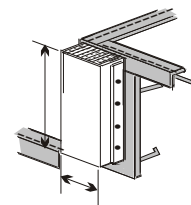
ANCHOR LAYOUT



STEEL FACE BUMPERS RECOMMENDED
FOR HIGH TRAFFIC APPLICATIONS

BETTER

G2 - ALTERNATE 2 - PLATE MOUNTING VERTICAL DETAIL



BUMPER SIZE
(NOMINAL)

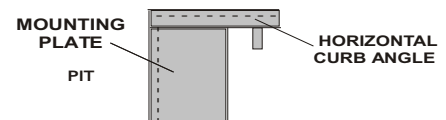
WIDTH _____

HEIGHT _____

PROJECTION _____

Note: Mounting Plate(s)
Provided By Others.

ANCHOR LAYOUT



VERTICAL BUMPERS RECOMMENDED
FOR AIR RIDE TRAILER APPLICATIONS
DUE TO TRAILER RISE AND FALL

BEST

Please Return All Submittal Approvals To Blue Giant Stamped/Signed And Dated

Initial _____ Date / /