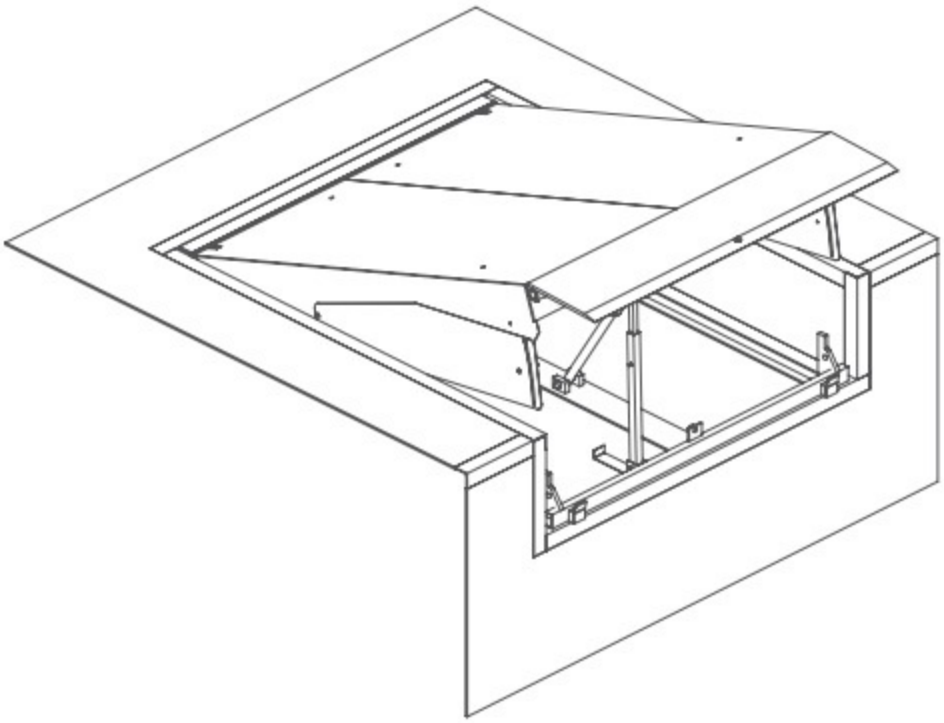
Hydraulic Dock Leveler Installation (TR)

Written By: Trent Borgardt



TOOLS:

- Forklift (1)
- Welding Equipment (1)

PARTS:

- Hydraulic Dock Leveler (1)

Step 1 — Safety Message

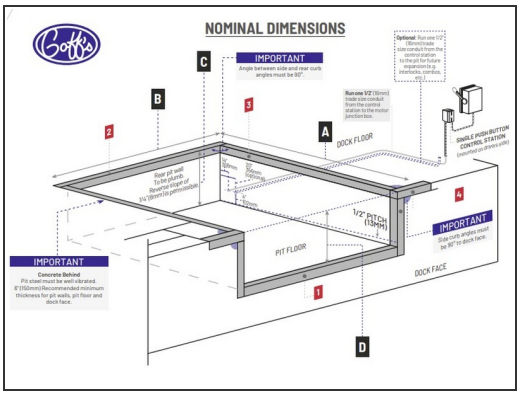


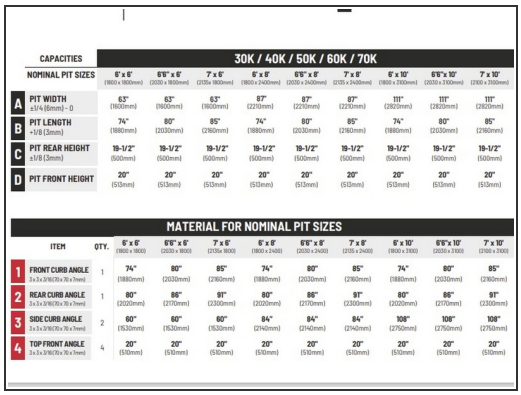


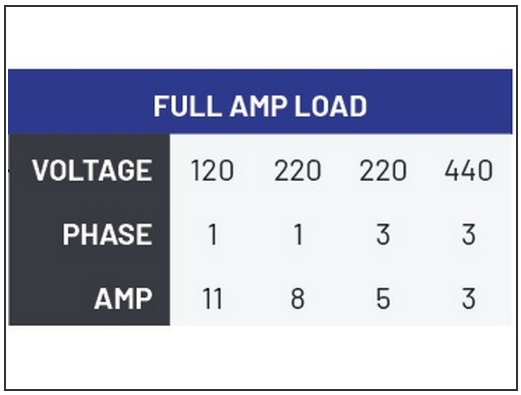
ⓘ Throughout this manual, you will find colour-coded safety messages designed to clarify instructions and indicate areas of potential hazard. To prevent any possibility of equipment damage, serious injury or even fatality, it is essential that you strictly follow the directions and warnings provided in these messages.

⚠ Should warning labels become damaged or missing, replace them immediately. Prevent incidents by anticipating dangerous procedures or situations before they occur

Step 2 — The Pit





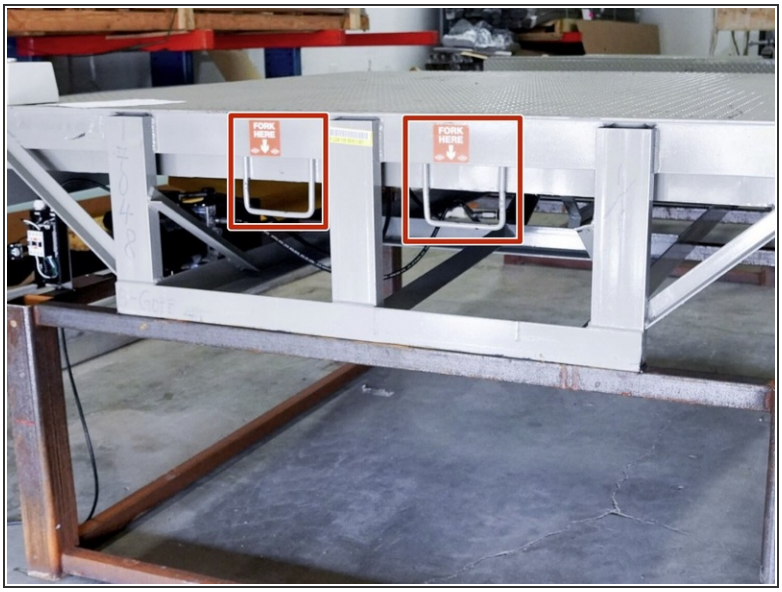


FULL AMP LOAD				
VOLTAGE	120	220	220	440
PHASE	1	1	3	3
AMP	11	8	5	3

- ☑ Always use architectural plans when they are available. Check the dimensions of the pit area, to make sure that the required space is available.
- ⚠ All levelers must be installed in concrete with a resistance of 250 kg/cm2, and a minimum thickness of 15cm (6”).
- ⚠ If the concrete installed does not comply with this specification, inform the personnel in charge and do not proceed with the installation of the leveler.
- ☑ Visually inspect the pit area for cracks or defects in the Concrete.
- ⚠ If any defects in the concrete are found, inform the supervisor or personnel in charge of the finding and do not proceed with the installation until the necessary repairs have been made.

Step 3 — Handling the Leveler



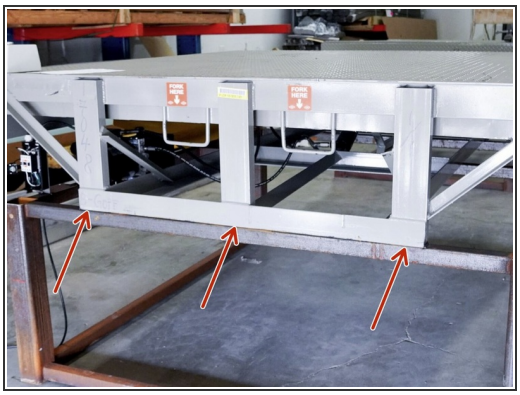


- Dock levelers come equipped with fork pockets located at the rear of the unit for safe and convenient handling.

⚠ To ensure that the dock leveler does not experience any unnecessary damage, always lift from the rear fork pockets when using a forklift

Step 4 — A note about shimming





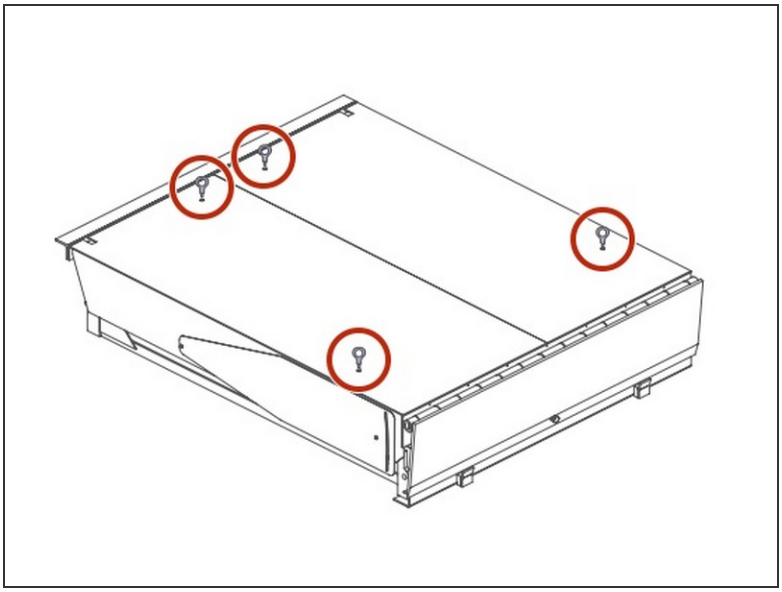


- When shimming the leveler to the proper height (deck sitting flush with the pit's steel frame), shims must be added directly underneath ALL vertical support structures, and wherever force is transferred vertically through the frame.

ⓘ In most cases, this will be between 5 and 7 shims.

Step 5 — Eye Bolts (Included)

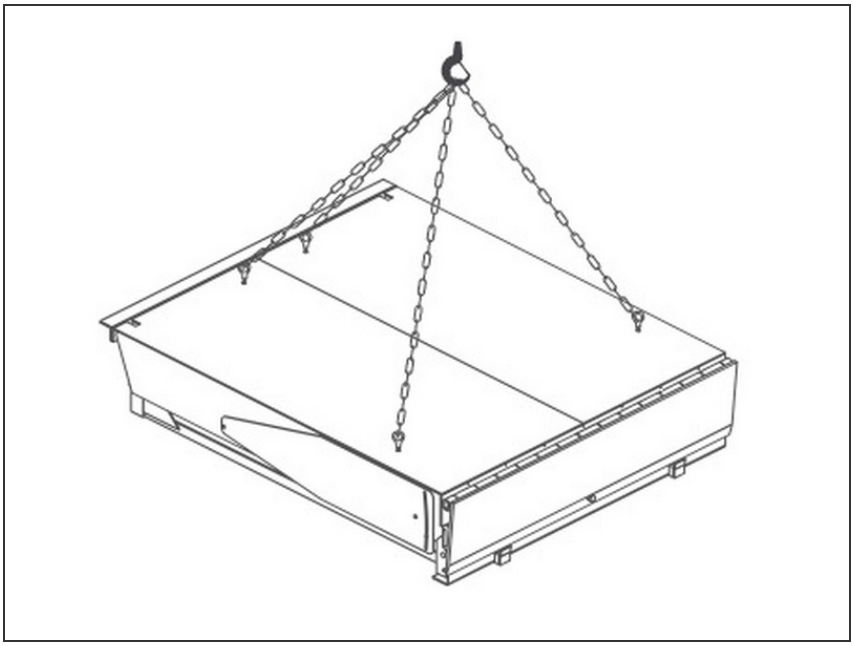




- Screw the included eyebolts into the deck.

⚠ Some levelers only have 2 eyebolt lifting lugs.

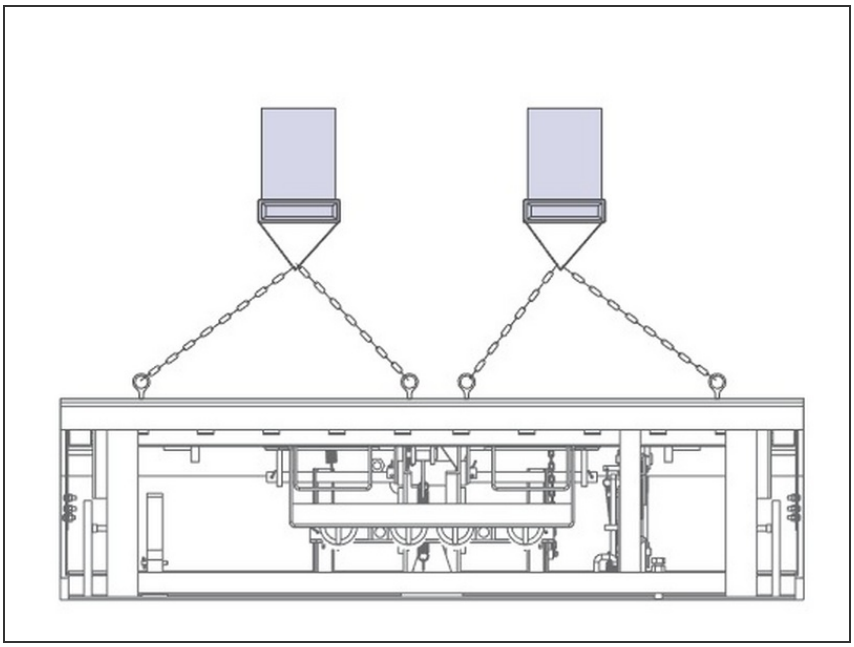
Step 6 — Slings or Chains



- Secure slings or chains to the eyebolts.

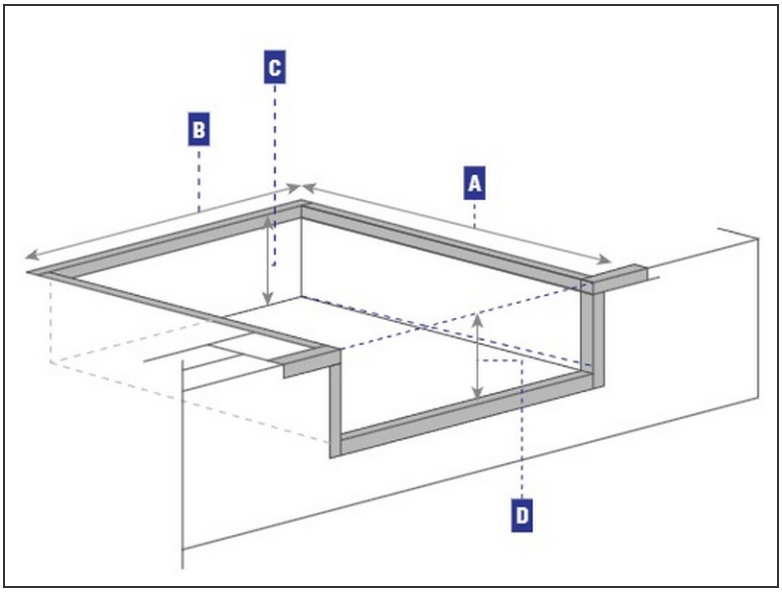
⚠ Some levelers only have 2 eyebolt lifting lugs.

Step 7 — Lifting or Craning



- Hoist your leveler with a forklift or crane.

Step 8 — Confirm Pit Dimensions



CAPACITIES		30K / 40K / 50K / 60K / 70K								
NOMINAL PIT SIZES		6' x 6' (1800 x 1800mm)	6'6" x 6' (2030 x 1800mm)	7' x 6' (2135x 1800mm)	6' x 8' (1800 x 2400mm)	6'6" x 8' (2030 x 2400mm)	7' x 8' (2135 x 2400mm)	6' x 10' (1800 x 3100mm)	6'6"x 10' (2030 x 3100mm)	7' x 10' (2100 x 3100mm)
A	PIT WIDTH ±1/4 (6mm) - 0	63" (1600mm)	63" (1600mm)	63" (1600mm)	87" (2210mm)	87" (2210mm)	87" (2210mm)	111" (2820mm)	111" (2820mm)	111" (2820mm)
B	PIT LENGTH +1/8 (3mm)	74" (1880mm)	80" (2030mm)	85" (2160mm)	74" (1880mm)	80" (2030mm)	85" (2160mm)	74" (1880mm)	80" (2030mm)	85" (2160mm)
C	PIT REAR HEIGHT ±1/8 (3mm)	19-1/2" (500mm)	19-1/2" (500mm)	19-1/2" (500mm)	19-1/2" (500mm)	19-1/2" (500mm)	19-1/2" (500mm)	19-1/2" (500mm)	19-1/2" (500mm)	19-1/2" (500mm)
D	PIT FRONT HEIGHT	20" (513mm)	20" (513mm)	20" (513mm)	20" (513mm)	20" (513mm)	20" (513mm)	20" (513mm)	20" (513mm)	20" (513mm)

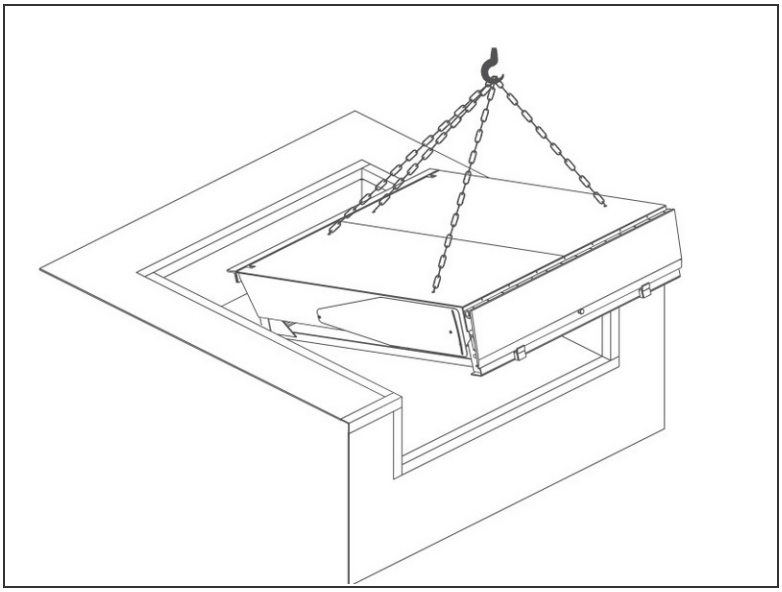
MATERIAL FOR NOMINAL PIT SIZES										
ITEM	QTY.	6' x 6' (1800 x 1800)	6'6" x 6' (2030 x 1800)	7' x 6' (2135x 1800)	6' x 8' (1800 x 2400)	6'6" x 8' (2030 x 2400)	7' x 8' (2135 x 2400)	6' x 10' (1800 x 3100)	6'6"x 10' (2030 x 3100)	7' x 10' (2100 x 3100)
1 FRONT CURB ANGLE 3 x 3 x 3/16(70 x 70 x 7mm)	1	74" (1880mm)	80" (2030mm)	85" (2160mm)	74" (1880mm)	80" (2030mm)	85" (2160mm)	74" (1880mm)	80" (2030mm)	85" (2160mm)
2 REAR CURB ANGLE 3 x 3 x 3/16(70 x 70 x 7mm)	1	80" (2020mm)	86" (2170mm)	91" (2300mm)	80" (2020mm)	86" (2170mm)	91" (2300mm)	80" (2020mm)	86" (2170mm)	91" (2300mm)
3 SIDE CURB ANGLE 3 x 3 x 3/16(70 x 70 x 7mm)	2	60" (1530mm)	60" (1530mm)	60" (1530mm)	84" (2140mm)	84" (2140mm)	84" (2140mm)	108" (2750mm)	108" (2750mm)	108" (2750mm)
4 TOP FRONT ANGLE 3 x 3 x 3/16(70 x 70 x 7mm)	4	20" (510mm)	20" (510mm)	20" (510mm)	20" (510mm)	20" (510mm)	20" (510mm)	20" (510mm)	20" (510mm)	20" (510mm)

⚠ Measure and confirm all pit dimensions before dropping the leveler into the pit.

ⓘ Reference the beginning of this manual for full-size versions of these images.

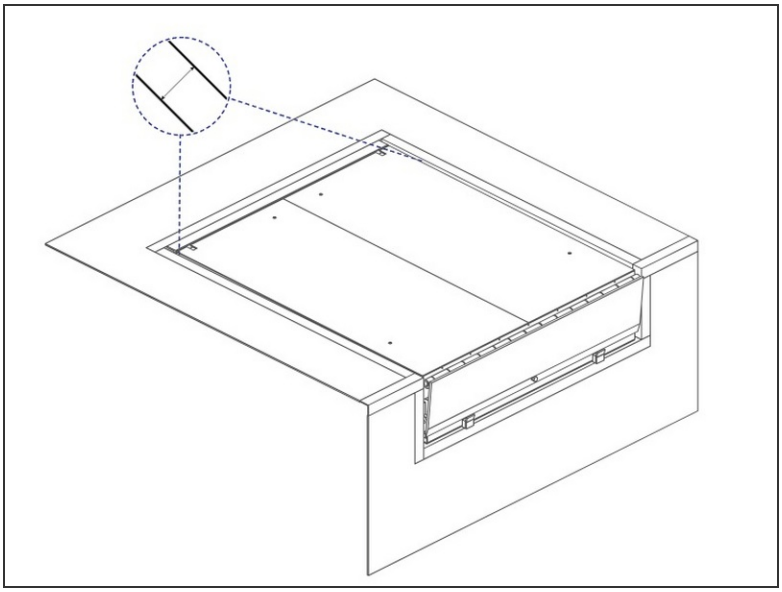
Step 9 — Loading the pit





- Slowly, and carefully lower your leveler into the pit.

Step 10 — Center the leveler in the pit

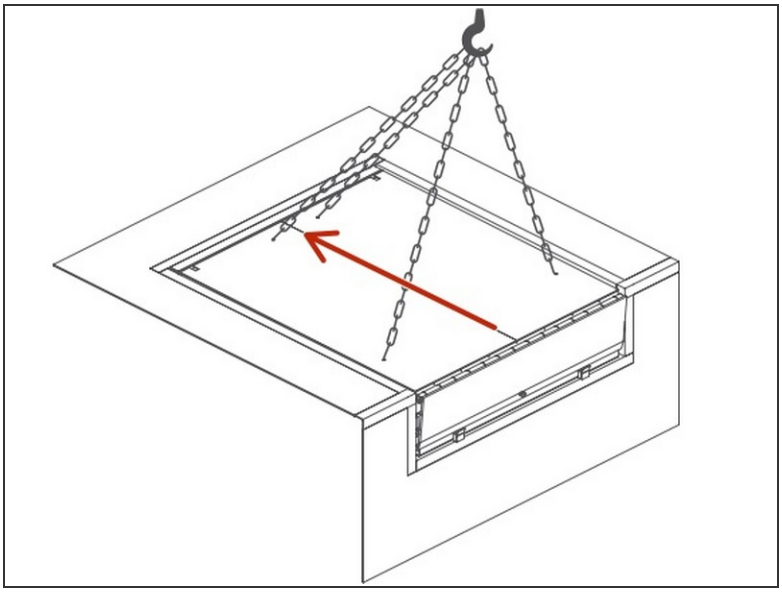




- Make sure to leave even spacing on both sides of the leveler.
  - ⓘ Use a 3-5ft crowbar to move the lift.

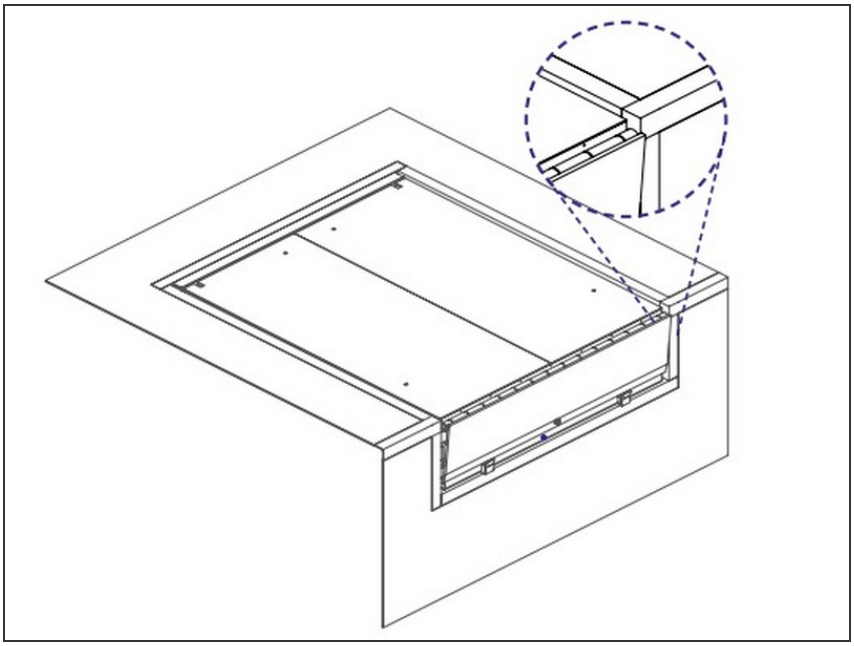
Step 11 — Adjust the leveler in the Pit - Part One





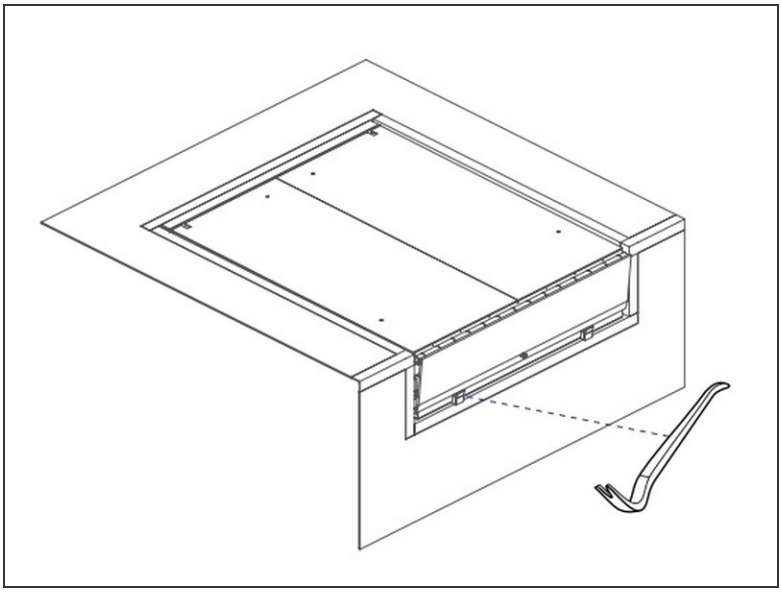
- Carefully shift the leveler so that it sits tight up against the steel frame at the back of the pit.

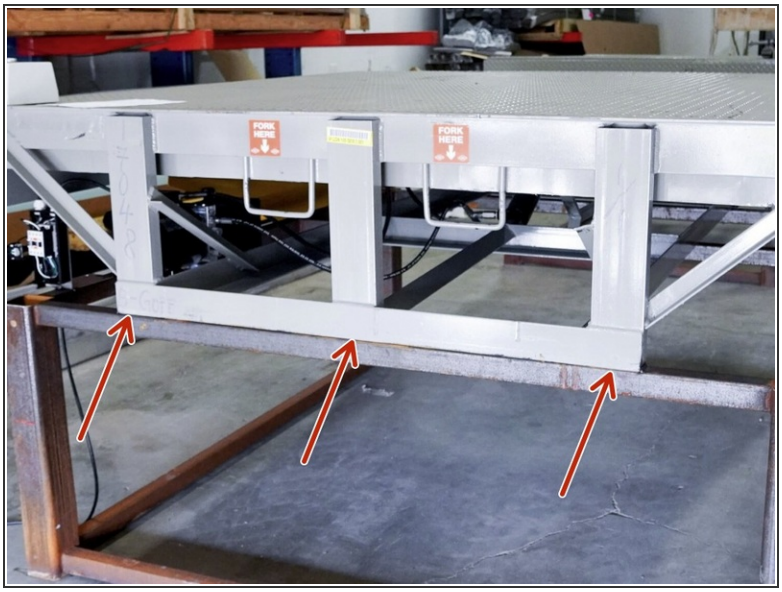
Step 12 — Adjust the leveler in the Pit - Part Two



- Check if the deck is flush with the pit's frame.

Step 13 — Adjust the leveler in the Pit - Part Three





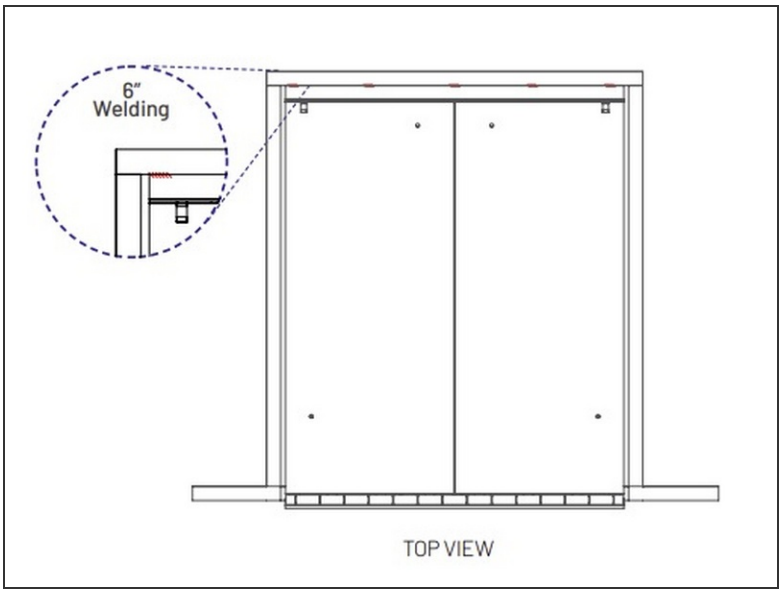
- Use the forklift/crane, and/or a crowbar to lift the ramp to the appropriate height (flush with pit's frame).
- Place shims at the front, rear and center of the ramp base.

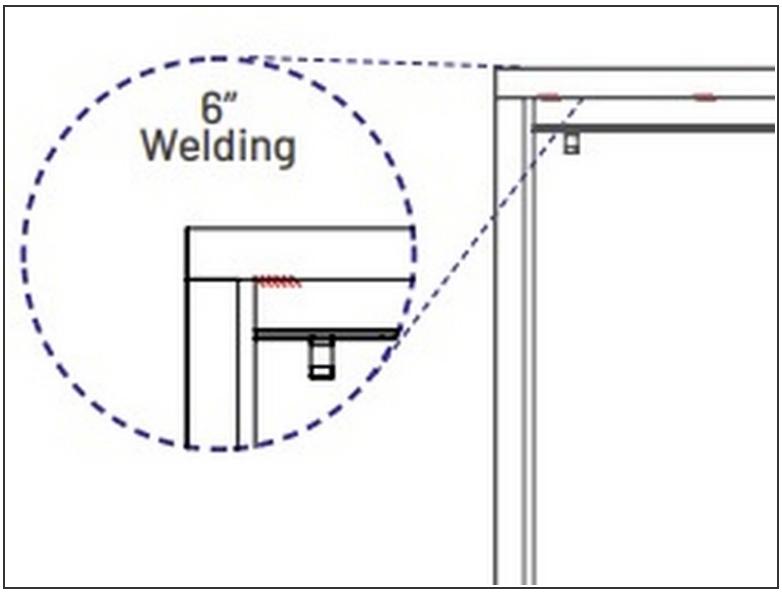
⚠ When shimming the leveler to the proper height (deck sitting flush with the pit's steel frame), shims must be added directly underneath ALL vertical support structures, and wherever force is transferred vertically through the frame.

ⓘ In most cases, this will be between 5 and 7 shim locations.

⚠ Make sure the leveler is completely level before moving on.

Step 14 — Weld

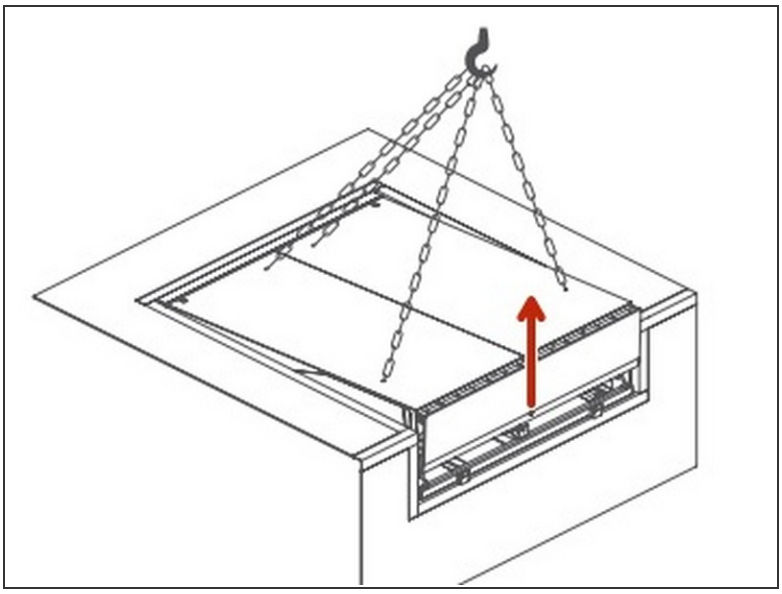


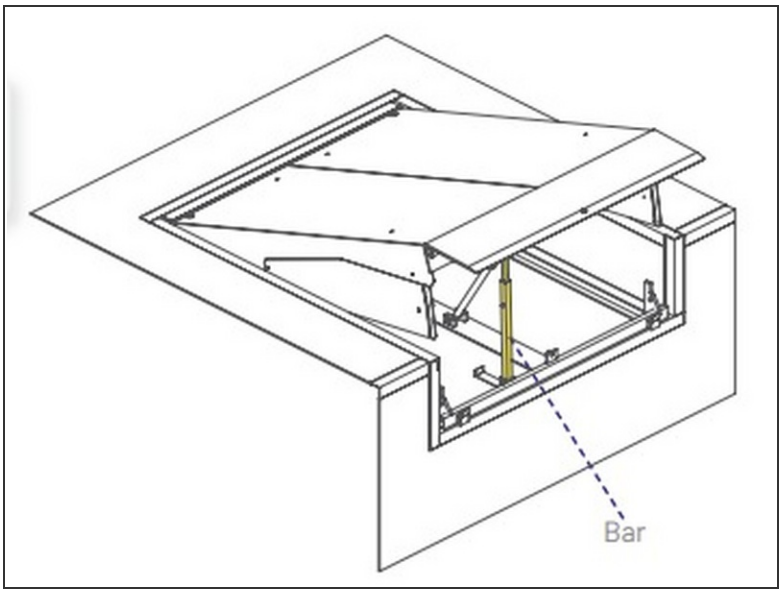


- Weld the shims to the leveler's frame.
- Next, weld the rear transition angle to the rear pit steel at floor level.

⚠ Use a series of (5) 6" welds across the transition angle.

Step 15 — Raise the Platform

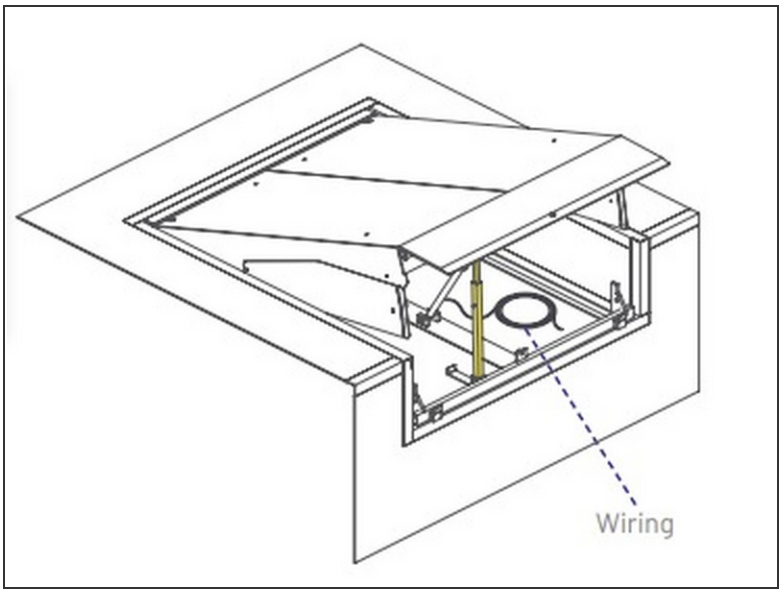


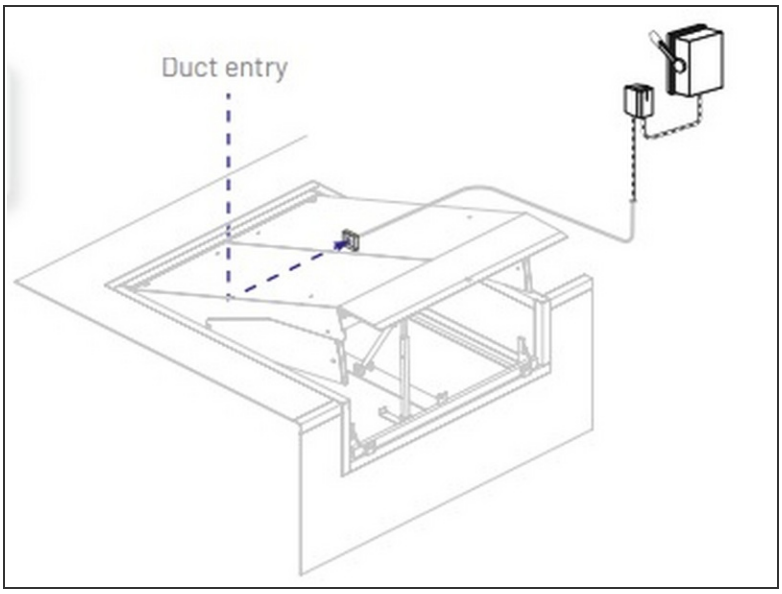


- Raise the levelers deck/platform using a forklift or crane.

⚠ Always put up the maintenance strut before working underneath your leveler.

Step 16 — Motor Cable

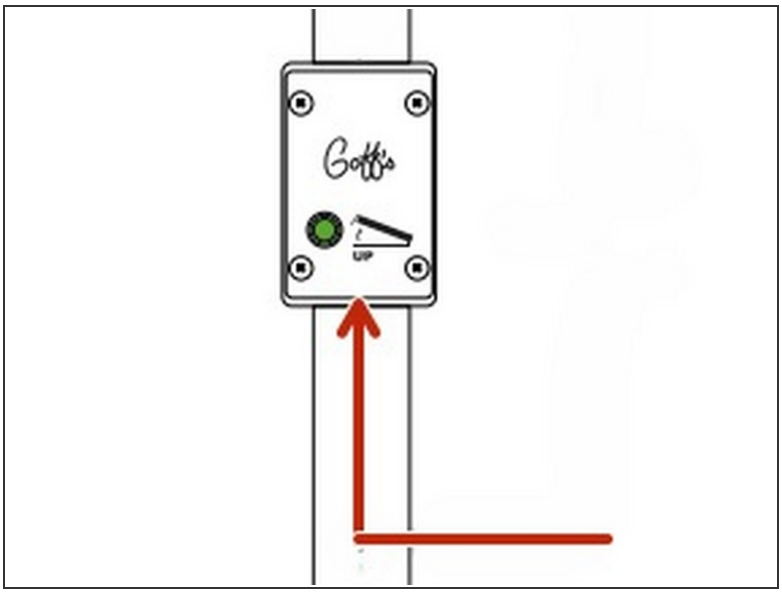


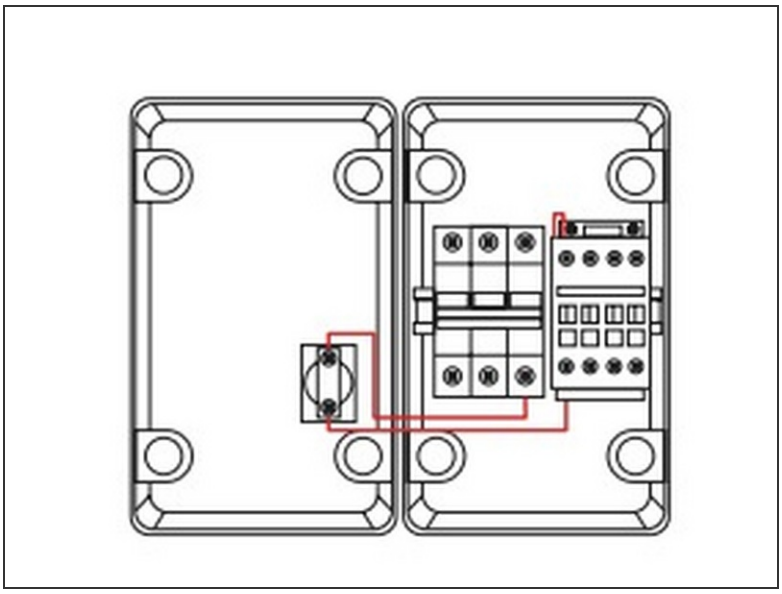


- Locate the motor's wiring and run it through the proper electrical installation:
- Feed the cable out of the pit as necessary, until you reach the location where you´ll install the control box

⚠ All local electrical codes and requirements must be followed. Hire an electrician if you are not sure how to proceed.

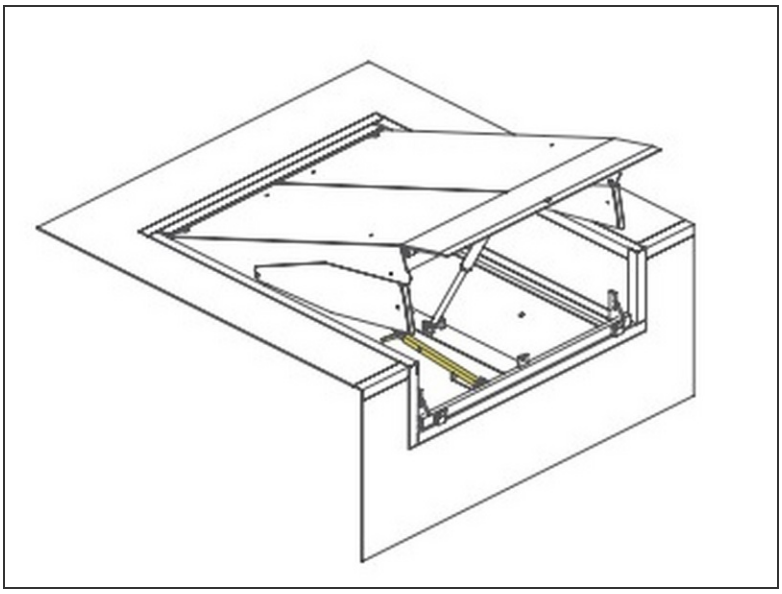
Step 17 — Installing the Control Box

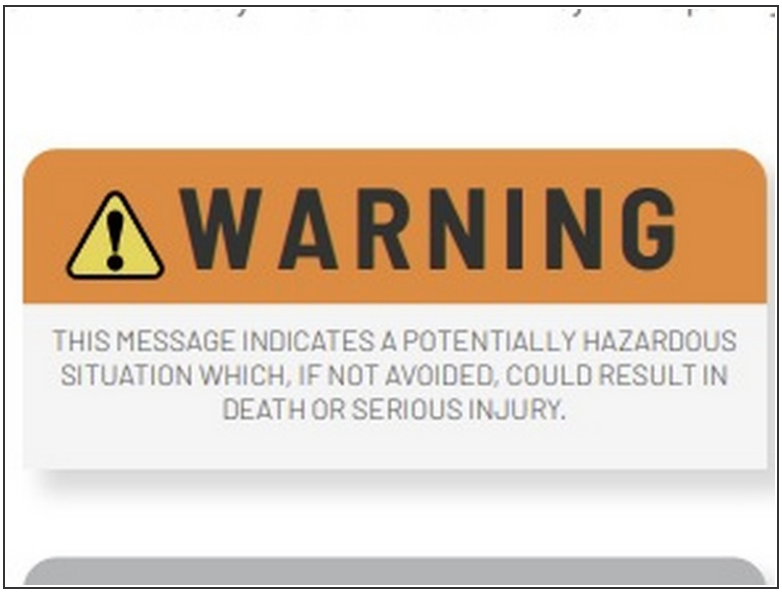




- Mount the control box in a desirable location, close to the leveler.
  ⚠ Make sure to use best practices when mounting the control box on your wall/surface.
- Drill into the bottom of the control box to feed the power and motor cables inside.
  ⚠ DO NOT drill holes in the top of the control box as this compromises the enclosures water resistance.
- Connect the wires according the wiring diagram included with your leveler.
- When you are done, install the control box cover using the included screws.

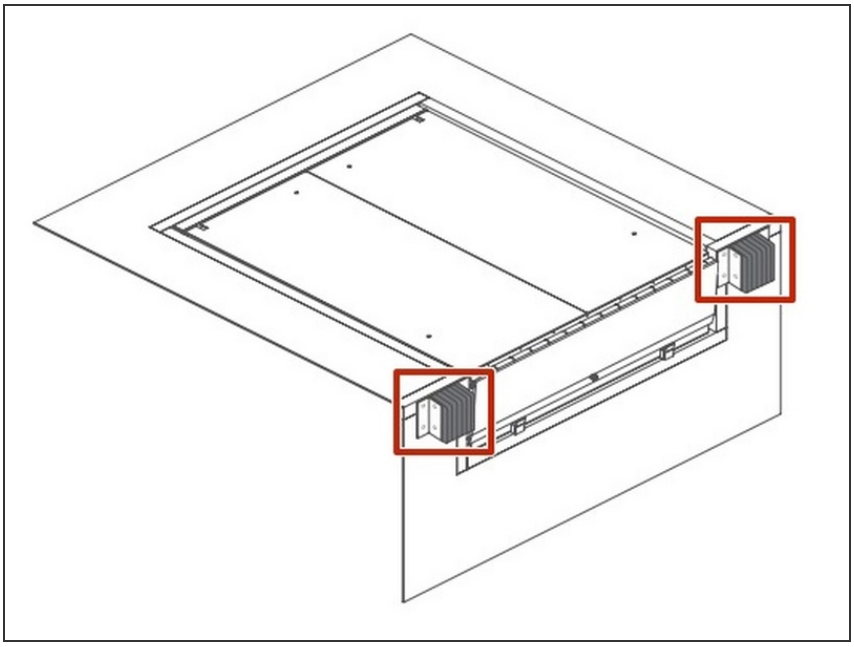
Step 18 — Lower the Leveler





⚠ To lower the leveler, you must first raise it, and place the maintenance strut into its folded position.

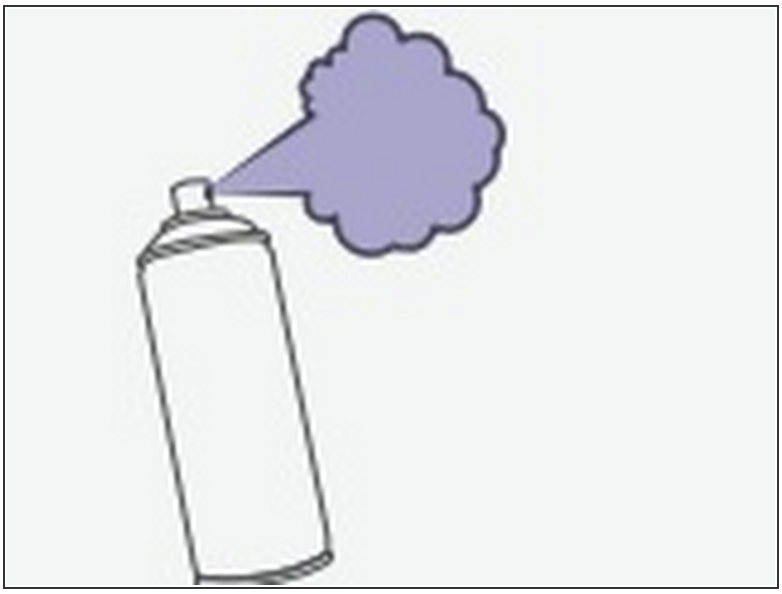
Step 19 — Install the Bumpers

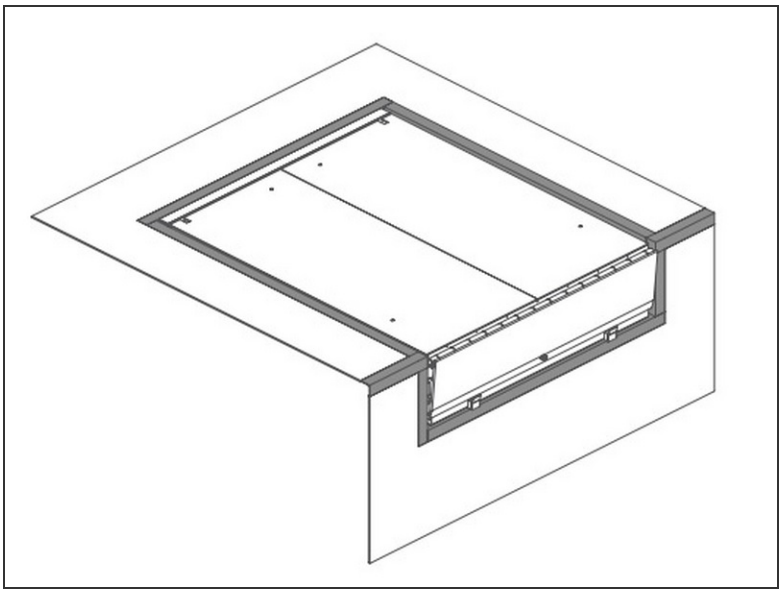


- Use a combination of welding and material-appropriate fasteners to secure the dock bumpers onto your building.

⚠ Always mount the inside edge of bumper mounting plate flush with the edges of the pit.

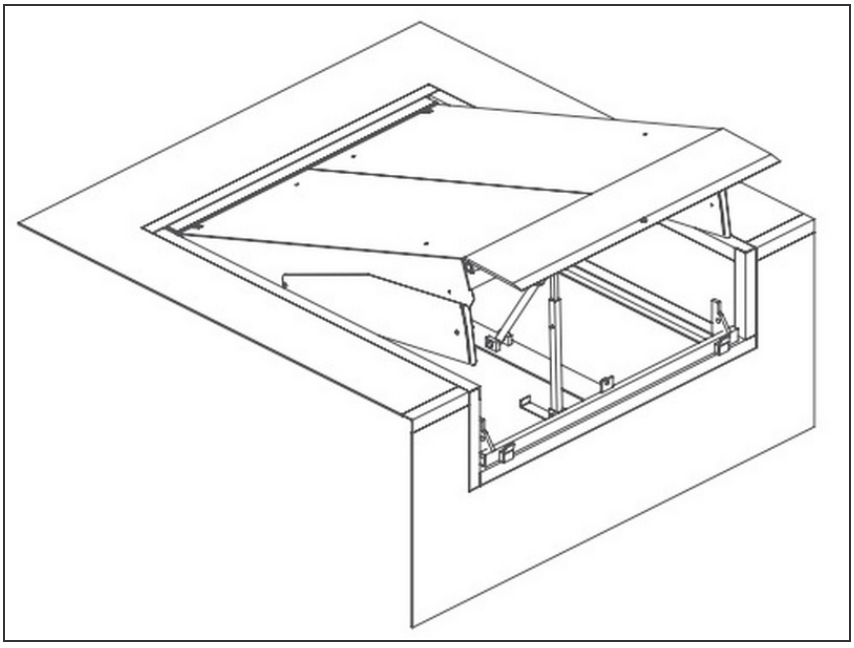
Step 20 — Paint the Welds





- Retouch the areas where you welded with spray paint.

Step 21 — Ready to use.



- Your hydraulic dock leveler is ready to use!