

PRECAST CONCRETE STRUCTURE WITH 6" OR THICKER FLOOR INSTALLATION GUIDELINES/INSTRUCTIONS

THE ITEMS LISTED HERE ARE BASIC GUIDELINES/INSTRUCTIONS. THE EXCAVATOR/INSTALLER MUST PERFORM THE WORK, BUT ONLY IN AREAS OF THEIR OWN COMPETENCE. IF ANY PORTION OF THE PROCESS OR CRITERIA FALLS OUTSIDE OF YOUR AREA OF COMPETENCE, PLEASE CONSULT WITH A REGISTERED ENGINEER.

SITE CONDITIONS

THE SITE MUST BE ACCESSIBLE TO LARGE, HEAVY TRUCKS.

THE SITE MUST BE FREE OF ITEMS LIKE TREES, OVERHEAD WIRES & BUILDINGS THAT COULD INTERFERE WITH ACCESS TO THE EXCAVATION. PLACEMENT OF THE STRUCTURE REQUIRES THE BACK OF OUR DELIVERY TRUCKS TO BE ON STABLE GROUND AND WITHIN THE FOLLOWING REACHES:

- MONORAIL TRUCK DELIVERIES: 7'-6" FROM THE BACK OF OUR MONORAIL TRUCK ON STABLE GROUND TO THE CENTER OF THE EXCAVATION

- BOOM TRUCK DELIVERIES: 12'-0" FROM THE BACK OF OUR BOOM TRUCK ON STABLE GROUND TO THE CENTER OF THE EXCAVATION

ALL STRUCTURES MUST SET DIRECTLY OFF THE BACK OF OUR TRUCKS. EACH DELIVERY TRUCK IS APPROXIMATELY 45 FT. LONG AND 14 FT. HIGH.

EXCAVATION

EXCAVATION SHOULD ALLOW FOR APPROXIMATELY 8" (MINIMUM) TO 18" OF CLEARANCE ON EACH SIDE OF THE STRUCTURE TO ALLOW FOR REMOVAL OF OUR LIFTING APPARATUS. THIS MAY VARY WITH SOIL CONDITIONS. NEVER ENTER AN UNSAFE EXCAVATION.

BEDDING

PROPER USE OF BEDDING MATERIAL IS IMPORTANT TO ENSURE SERVICE LIFE OF THE STRUCTURE. BEDDING AND SOIL BENEATH THE STRUCTURE MUST BE STABLE AND CAPABLE OF BEARING THE WEIGHT OF THE STRUCTURE, ITS CONTENTS AND THE SOIL AND OTHER ITEMS COVERING THE TOP OF THE STRUCTURE. BEDDING MATERIALS SHALL HAVE THE ABILITY TO 100% PASS THROUGH A $\frac{3}{4}$ " SCREEN. BEDDING THICKNESS SHALL BE A MINIMUM OF 4" COMPACTED. THICKNESS MAY NEED TO BE INCREASED DEPENDANT UPON EXISTING SOIL CONDITIONS. IT IS THE EXCAVATOR/INSTALLER'S RESPONSIBILITY TO HAVE A SOIL ANALYSIS AND ENGINEERING DONE IF THEY ARE UNSURE IF THE SOIL IS SUITABLE. IT IS CRITICAL THAT THE BEDDING DOES NOT HAVE ANY HIGH SPOTS IN THE CENTER THAT WOULD CAUSE UNDUE STRESS AT ANY POINT ON THE STRUCTURE FLOOR.

JOINT SEALANT (IF USED)

JOINT SURFACE NEEDS TO BE CLEAN AND SEALANT NEEDS TO BE PLACED ACCORDING TO MANUFACTURERS RECOMMENDATIONS. IT IS IMPERATIVE TO OVERLAP THE JOINTS OF THE SEALANT, ONE DIRECTLY ON TOP OF THE OTHER AT LEAST 1 $\frac{1}{2}$ " (NOT SIDE BY SIDE) TO ENSURE A WATER TIGHT SEAL.

WATER TABLE

STRUCTURES PLACED WHERE WATER LEVELS CAN POTENTIALLY BE HIGHER THAN THE ELEVATION OF THE STRUCTURE FLOOR OR TOP, MUST BE BROUGHT TO THE ATTENTION OF VAUGHN CONCRETE PRODUCTS, INC. PRIOR TO ORDERING THE STRUCTURE.

ADDITIONAL INSTALLATION INSTRUCTIONS SUCH AS BALLAST AND COATING MAY BE REQUIRED.

WATER LEAK OR VACUUM TESTING

TO ENSURE THAT THE STRUCTURE IS WATER TIGHT, IT MUST BE WATER OR VACUUM TESTED PRIOR TO BACKFILL !

BACKFILL MATERIAL

THE SIDE WALLS OF STRUCTURES REQUIRE DRY BACKFILL MATERIALS THAT HAVE THE ABILITY TO 100% PASS THROUGH A 2" SCREEN. A MINIMUM OF 8" OF SUITABLE BACKFILL MATERIAL ON ALL SIDES IS REQUIRED FROM THE BOTTOM TO THE TOP OF THE STRUCTURE. EXPANSIVE BACKFILL MATERIAL SHOULD NOT BE USED. BACKFILL MATERIAL SHALL BE PLACED WITH A BACKHOE OR OTHER MEANS THAT WILL AVOID IMPACT LOADS ON THE SIDE WALLS OF THE STRUCTURE. MINIMAL COMPACTION OF BACKFILL MATERIAL IS PERMITTED ON THE SIDE WALLS OF THE STRUCTURE. CARE MUST BE USED AS COMPACTION OR WHEEL COMPACTION CAN CAUSE EXCESSIVE PRESSURES TO THE SIDE WALLS OF THE STRUCTURE AND CAN CAUSE FAILURE. IF MORE THAN 85% PROCTOR COMPACTION IS REQUIRED, USE $\frac{3}{8}$ " OR $\frac{3}{4}$ " GRAVEL OR OTHER SELF-COMPACTING MATERIAL FOR YOUR BACKFILL MATERIAL.

COVER MATERIAL

COVER MATERIAL SHALL BE DRY SOIL, SAND OR GRAVEL MATERIAL THAT HAS THE ABILITY TO 100% PASS THROUGH A 2" SCREEN. CARE MUST BE USED AS COMPACTION OR WHEEL COMPACTION CAN CAUSE EXCESSIVE PRESSURES TO THE TOP OF THE STRUCTURE AND CAN CAUSE FAILURE.

COVER MATERIALS SHALL BE MOUNDED OVER THE STRUCTURE AND AROUND RISERS TO DIRECT RUN-OFF AWAY FROM BOTH.

PLEASE CONSULT WITH A VAUGHN CONCRETE PRODUCTS REPRESENTATIVE WITH ANY QUESTIONS OR CONCERNS TOLL FREE @ 1-877-827-8255

VISIT US ON THE WEB @ www.vaughnconcreteproducts.com

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INSTALLATION GUIDELINES-6 INCH.FWG
DATE CREATE: 12/08

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