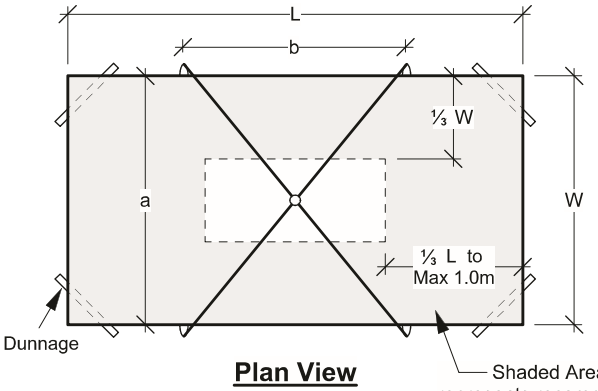
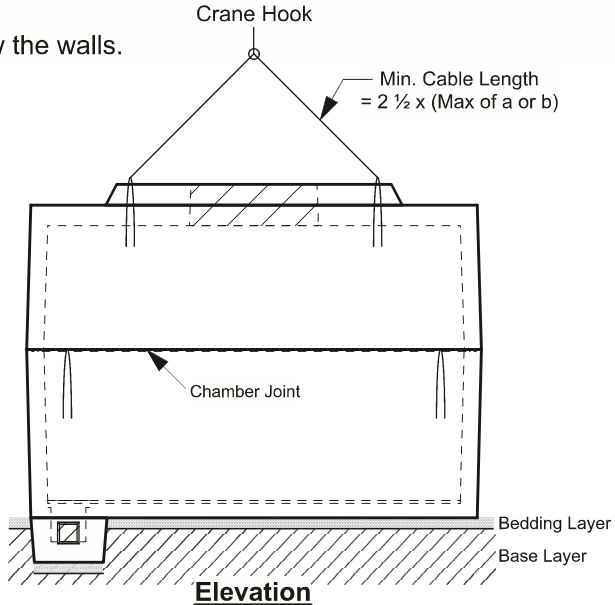
Chamber Installation:

1. **This information is a guideline only -** Please ensure you comply with local safety codes and regulations. Locate and protect all above and below ground utilities prior to beginning installation.
2. Review project specifications for the excavation and to select the appropriate base material, thickness & compaction for the site location as approved by the Project Engineer. (Typically 150-300mm Thick of 40mm minus Clear Aggregate Base)
3. Excavate for Chamber with reference to dimensions on the armtec shop drawings. For ease of installation, allow 300 to 600mm of Space on all sides of chamber walls. Allow adequate depth for base and bedding layers for any sump protrusions as well as risers and castings. Use shoring as required by WCB regulations.
4. Minimum 50mm thick Bedding Layer of 20mm Road Mulch suggested. Slope Bedding Material 0.5% to Sump End. Compact Bedding Layer for Perimeter of chamber footprint area only. *(See Sketch)* eg: Centre Area under chamber Not Compacted.
5. Double Check excavation depth to product assembled height, prior to placing bottom section.
6. Ensure Minimum Cable Length = 2 ½ times the Longest Distance Between Lift Points (a or b) or use spreader bar to lift vertically above lift points. Confirm distances for **Each** section. Place Bottom Section using the Lift Points detailed on the shop drawings.
7. Install components as required eg: Piping, Thrust Blocks Designed & Supplied by Others.
8. Install Joint Mastic in Perimeter Keyway. Ensure keyway is clear of all debris before applying. Butt joints (NOT overlap) & knead together.
9. Place Top Section, Ensuring Correct Keyway Alignment.
10. Apply Non-Shrink Grout to Inside & Outside of Chamber Joint.
11. Backfill around chamber evenly and in standard lifts to the required grade.
    Note: Contact armtec if the Depth of Bury increases by more than 300mm from the armtec Shop Drawings.
    Backfill should be of a good compacting material to prevent the occurrence of point loads.
    No voids should remain between the vault walls and native soil of excavation.
    All backfilling is the responsibility of the customer/contractor.
12. If storage Required prior to installation -
    Ensure Dunnage is placed across 4 corners, directly below the walls.



Plan View



Elevation

Please Note:
Standard armtec Chambers are designed for:
- H-20 Traffic Loads or CSA-S6 (CL-625)
- To a Maximum 2.0m Bury Below Grade
- Water Table at Grade
- Subject to Required Openings (Size, Quantity, Orientation & Location)
- Buoyancy Only Reviewed upon Request
- Thrust Blocks are to be Designed & Supplied by Others and the Loads Transfered to the Perimeter Ceiling, Walls & Floor.

AE CONCRETE
19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com

Chamber Installation Template

Scale: NTS | Rev: 07Jun17

Dwg#: **VCZZ-INST-CH-C**