AERLITE-iX™ Low-Density Cellular Concrete (LDCC)

1. GENERAL
   1. DESCRIPTION
      1. Work Included: This work shall consist of batching, mixing, and placing AERLITE-iX LDCC of the appropriate density as indicated by the specifications or as directed by the engineer. A trained AERLITE-iX LDCC installer shall furnish labor, material, equipment, and supervision for the installation of the AERLITE-iX LDCC in accordance with the drawings and specifications.
   2. QUALITY ASSURANCE
      1. Use skilled labor that is thoroughly trained, experienced, and familiar with the specified requirements and the methods for proper performance of this work.
      2. The AERLITE-iX LDCC installer shall be approved in writing by Aerix Industries.
   3. SUBMITTALS
      1. The prime contractor shall list the product and qualified installer of the AERLITE-iX LDCC and shall not employ any product or producer without the prior approval of the engineer.
      2. Product data: within 30 calendar days after award of the contract, the prime contractor shall submit for approval by the engineer:
         1. Manufacturer’s specifications, catalog cut sheet, and other engineering data needed to demonstrate to the issuing authority compliance with the specified requirements.
2. PRODUCTS
   1. MATERIALS
      1. Foam Liquid Concentrate: AERLITE-iX shall be supplied by Aerix Industries and shall comply with the standard specifications of ASTM C 869 when tested in accordance with ASTM C 796.
      2. Cement: the portland cement shall comply with ASTM C 150. Other supplemental cementitious materials, such as fly ash, may be used when approved by the project engineer. Supplementary cementitious materials should be tested prior to the start of the project for compatibility with the foaming agent.
      3. Admixtures: admixtures for accelerating, water reducing, and other specific properties may be used when specifically approved by the project engineer. Admixtures should be tested prior to the start of the project for compatibility with the foaming agent.
      4. Water: use water that is potable and free from deleterious amounts of alkali, acid, and organic materials, which would adversely affect the setting or strength of the AERLITE-iX LDCC.
   2. PROPERTIES
      1. The AERLITE-iX LDCC shall meet the following properties:

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| --- | --- | --- | --- |
| Cast Density, pcf (ASTM C 796) | 30 | 36 | 42 |
| Average Compressive Strength, psi  (ASTM C 495) | 40 – 140 | 80 - 210 | 120 - 330 |

1. EXECUTION
   1. SUBGRADE CONDITIONS
      1. Examine the areas and conditions under which work of this section will be performed. Correct conditions that may be determined to be detrimental to timely and proper completion of the work. Do not proceed until satisfactory conditions are established.
      2. The area to be filled shall not have any standing water in it prior to placement of AERLITE-iX LDCC.
      3. Any items to be encased in AERLITE-iX LDCC shall be properly set and stable prior to the installation.
   2. WEATHER CONDITIONS
      1. Avoid freezing before the initial set of AERLITE-iX LDCC occurs.
      2. Do not place at temperatures lower than 32 degrees Fahrenheit or when freezing conditions are expected in less than 24 hours.
      3. If these conditions cannot be met, consult Aerix Industries to determine precautions necessary to assure acceptable installation.
   3. MIXING AND CONVEYING
      1. Use the job site proportioning, mixing, and placing equipment approved by project engineer.
      2. Mix the materials according to the mix design and convey promptly to point of final placement.
      3. Avoid excess handling of AERLITE-iX LDCC according to industry standards.
      4. Place AERLITE-iX LDCC in lifts not to exceed 48 inches in depth, unless otherwise recommended by Aerix Industries and approved by the engineer.
      5. Backfill or other usual loadings on the AERLITE-iX LDCC shall not be permitted until the LDCC has attained a compressive strength of at least 20 psi.
2. TESTING
   1. WET DENSITY
      1. During placement of the initial batches, check the density and adjust the mix as required to obtain the specified cast density at the point of placement per ASTM.
      2. Four (4) specimens shall be taken for each 100 cubic yards of AERLITE-iX LDCC or as recommended per project engineer.
3. MEASUREMENT AND PAYMENT
   1. MEASUREMENT
      1. AERLITE-iX LDCC shall be measured on a cubic yard basis.
   2. PAYMENT
      1. Payment for AERLITE-iX LDCC shall be made at contract unit prices for quantities determined as specified above.

ITEM NO. PAYMENT UNIT

LDCC CY

*Last revision 06/2018*

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