

## **SECTION 071700 - BENTONITE WATERPROOFING**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. Section Includes: Bentonite waterproofing applied to the following surfaces:

1. Exterior face of elevator pit walls and under elevator pit slabs.
2. Other locations as indicated.

#### **1.2 PREINSTALLATION MEETINGS**

- A. Preinstallation Conference: Conduct conference at Project site.

#### **1.3 ACTION SUBMITTALS**

- A. Product Data: For each type of product.
- B. Shop Drawings: Include installation details for waterproofing, penetrations, and interface with other work.

#### **1.4 INFORMATIONAL SUBMITTALS**

- A. Product Certificates: For each type of waterproofing material.
- B. Sample Warranty: For manufacturer's special warranty.

#### **1.5 WARRANTY**

- A. Special Warranty: Manufacturer agrees to repair or replace components of bentonite waterproofing system that fail in materials or workmanship within specified warranty period.
1. Warranty Period: 5 years from date of Substantial Completion.

### **PART 2 - PRODUCTS**

#### **2.1 GEOTEXTILE/BENTONITE SHEETS**

- A. Regular Geotextile/Bentonite Sheet: Minimum of 1.0 lb/sq. ft. (5 kg/sq. m) of bentonite clay granules between two layers of polypropylene geotextile fabric, one woven and one nonwoven, needle punched and heat fused together.
1. Basis-of-Design Product: Subject to compliance with requirements, provide Carlisle Coatings & Waterproofing; CCW MiraCLAY
  2. Grab Tensile Strength: 95 lbf (422 N) according to ASTM D 4632.
  3. Puncture Resistance: 100 lbf (445 N) according to ASTM D 4833.

#### **2.2 ACCESSORIES**

- A. General: Manufacturer's standard accessories recommended for intended use and compatible with bentonite waterproofing.

## PART 3 - EXECUTION

### 3.1 INSTALLATION, GENERAL

- A. Prepare substrates, voids, cracks, and cavities; and install waterproofing and accessories according to manufacturer's written instructions.
- B. Install protection course before backfilling or placing overburden when recommended in writing by waterproofing manufacturer.

### 3.2 GEOTEXTILE/BENTONITE SHEET INSTALLATION

- A. Install a continuous layer of waterproofing sheets directly against surface to be waterproofed. Lap ends and edges a minimum of 4 inches (100 mm) on horizontal and vertical substrates unless otherwise indicated. Stagger end joints between sheets a minimum of 24 inches (600 mm). Fasten seams by stapling to adjacent sheet or nailing to substrate.

END OF SECTION