

SECTION 05501 - IN-PLANT GUARDING SYSTEMS

PART 1 GENERAL

1.1 SUMMARY

- A. This section includes the following:
 - 1. Ideal Shield Goal Post System (Dock Door Protection)

1.2 SUBMITTALS

- A. Product Data for products used in Guardrail, bumper post, or handrail fabrication or installation including anchor bolts, concrete and grout.
- B. Shop drawings showing fabrication and illustrating erection of bumper post, handrail or guardrail. Include plans, elevations, sections and details showing component connections and anchorage. Provide templates for anchors installed under other sections.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. IDEAL SHIELD
2525 Clark Street
Detroit, Michigan 48209-1355
Phone: (877) 325-0769

2.2 MATERIALS

- A. Rolled Plates and Shapes: ASTM A36.
- B. Steel Pipe: ASTM A53, Grade B, Type E or S, Schedule 40 unless otherwise noted.
- C. Tubing: Cold formed shapes per ASTM A500 or hot-formed shapes per ASTM A501. Wall thickness for either category shall be in accordance with the thickness and tolerances specified in ASTM A501.
- D. Bolts: ASTM A307, Grade A, with hexagon heads or nuts where exposed in the finish work, with flat heads for countersinking where flush bolting is specified or required.
- E. Plastic Cover: Polyethylene Thermoplastic (HDPE) tubes having ultra-violet resistance and anti static properties, nominal thickness 0.250 inches. Color shall be OSHA yellow unless otherwise noted. Size covers for pipe diameters.
- F. Grout: Nonshrink, nonmetallic type per CE CRD-621 and ASTM C1107. Grout shall be pre-mixed and factory-packaged. Formulation shall be nonstaining, noncorrosive, nongaseous properties. Provide grout similar to Dayton Superior "Sure-Grip Utility Grout" or as recommended by grout manufacturer for interior or exterior applications.
- G. Concrete: Provide 3000 PSI, 28-day strength concrete unless noted otherwise. ASTM C94, slump of 4 inches \pm 1 percent.
 - 1. Exterior Concrete: Include air-entrainment of 6 percent \pm 1 percent.
 - 2. Cement: ASTM C150, Type 1.
 - 3. Aggregates: ASTM C33 normal weight, natural coarse aggregate, maximum 3/4-inch diameter.
 - 4. Water: Potable.

2.3 GOAL POST SYSTEM

- A. Provide goal post system complying with the following requirements:
 - 1. Posts constructed of 6 inch scheduled 40 steel posts and 4-inch schedule 40 steel rails.
 - 2. Post sleeve: high-density polyethylene thermoplastic nominal thickness 0.250 inch.
 - 3. Color: OSHA yellow

2.4 FINISHES

Standard Finish

- 1. Sleeved in High-Density Polyethylene Thermoplastic

Optional Finishes (Only Available Upon Request)

2. Galvanized: Applying protecting zinc coating to prevent rusting
3. Primed: Prevent corrosion and oxidation of the steel

PART 3 EXECUTION

3.1 INSTALLATION

- A. Contact Ideal Shield for instructions

END OF SECTION