

## SECTION 430

### SCREEN END TREATMENT FOR CORRUGATED STEEL PIPE

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#### **430.01 SCOPE**

This specification covers the requirements for the supply and installation of a screen to the end of a corrugated steel pipe culvert or to the inlet of a corrugated steel pipe (CSP) storm sewer.

#### **430.02 MATERIALS**

Screens shall consist of 3.8 millimetre galvanized steel mesh welded to a standard pipe coupling of such size as to fit the size of pipe for which the screen is required. A drawing of a typical screen is shown on Form 1225.

Coupler, nuts and bolts shall be composed of galvanized steel.

After fabrication, the screen shall be rust proofed with cold galvanizing compound.

When corrugated steel pipe is cut, drilled, or welded the pipe shall be thoroughly cleaned with a wire brush to remove scale, rust, slag residue, weld splatter, etc., and wiped clean. The cleaned surface shall receive at least one application of metal conditioner to de-oxidize, de-grease, and phosphatize the metal surface to be treated if the surface is oily. Premixed, ready-to-apply, liquid-zinc compound should be applied to the prepared clean dry metal surface. The cold-galvanizing compound must be of a type that imparts cathodic action against corrosion. The cold-galvanizing compound should have a minimum 50 millimetre overlap of the surrounding undamaged galvanized metal.

All cut edges and any damage to metallic coatings shall be ground smooth and recoated in accordance with CSA G401.

All materials including: steel mesh, pipe coupling, cold galvanizing compound, nuts and bolts shall be supplied by the Contractor.

#### **430.03 FABRICATION AND INSTALLATION**

The screen shall be fabricated to such size that it will fit over, and be capable of being secured to the CSP for which it is required. The screen shall be constructed as shown in the drawings and then rust proofed as outlined above.

After all treatments are thoroughly dry, the screen shall be securely bolted to the end of the corrugated steel pipe.

#### **430.04 MEASUREMENT FOR PAYMENT**

Measurement for payment for screen and treatment for corrugated steel pipe shall be by the number of screen end treatments of a particular size and type installed.

Screen end treatment sizes are specified in the unit price table in terms of the size of the pipes to which they will be connected.

#### **430.05 BASIS OF PAYMENT**

Payment at the contract price for each screen end treatment of the type and size specified shall be compensation for all labour, materials, and equipment use required to: supply the steel mesh and pipe coupling, to fabricate and rust proof the screen as outlined above, to supply nuts and bolts, and to secure the screen to the corrugated steel pipe, together with such unwatering provisions as may be necessary to carry out the work.