**SECTION 06 60 10**

 **PERFORATED PLASTIC PANELS**

**\*\*\*\*\* Ametco® Manufacturing Corporation manufacturers several basic construction materials including perforated metal and plastic panels, expanded metal panels, wire cloth, steel and aluminum bar gratings, safety gratings, stair treads, and ladder rungs. Ametco® Manufacturing Corporation also manufactures several types of ornamental metal fencing.**

**This guide specification can be used to specify various perforated PVC and polypropylene plastic panels. These basic sheet materials have numerous uses and applications. Perforated plastic panels can be specified as a separate section. However, it is more likely that they would be specified as part of another building element. Hence, paragraphs from this guide specification need to be inserted into the section specifying the element constructed with perforated panels. \*\*\*\*\***

**The specifier will need to edit this guide specification to reflect the options and applications being used. Most editing can be accomplished by deleting unnecessary requirements. Options are indicated by [ ]. Notes to assist the specifier in selecting options and editing the guide specification are printed in bold and indicated with \*\*\*\*\*. For final editing, all brackets and notes will need to be deleted from the guide.**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**PART 1 - GENERAL**

**1.1 SUMMARY**

 A. Section includes: Perforated plastic sheet panels used to fabricate [grilles] [screens] [display and storage panels] [cabinets] [\_\_\_\_\_] specified in Section [\_\_\_\_\_] - [\_\_\_\_\_].

**1.2 REFERENCES**

**\*\*\*\* List by number and full title reference standards referred to in remainder of the specification section. Delete non-applicable references. \*\*\*\*\***

 A. ASTM International (ASTM):

 1. ASTM D4216 - Rigid Poly (Vinyl Chloride) (PVC) and Related PVC and Chlorinated Poly (Vinyl Chloride) (CPVC) Building Products Compounds.

 2. ASTM D5857 - Polypropylene Injection and Extrusion Materials Using ISO Protocol and Methodology.

**1.3 SUBMITTALS**

 A. Provide in accordance with Section 01 33 00 - Submittal Procedures:

 1. Product data for perforated plastic panels.

 2. Sample: [8 by 10 inches] [203 by 254 mm] minimum size sample in selected perforation pattern.

**PART 2 - PRODUCTS**

**2.1 ACCEPTABLE MANUFACTURERS**

 A. Ametco Manufacturing Corporation, 4326 Hamann Parkway, P.O. Box 1210, Willoughby, Ohio 44096; 800-362-1360.

 B. Requests to use equivalent products of other manufacturers shall be submitted in accordance with Section 01 25 13 - Product Substitution Procedures.

**2.2 PERFORATED PLASTIC PANELS**

**\*\*\*\*\* Ametco® Manufacturing Corporation fabricates perforated polyvinyl chloride (PVC) and polypropylene sheets. Other plastic sheets can be provided by the customer for perforation and processing only. Edit the following paragraphs to indicate required plastic. \*\*\*\*\***

 A. Material: [Polyvinyl chloride (PVC), ASTM D4216, Type 1, Class 1, dark gray.] [Polypropylene (PP), ASTM D5857.]

**\*\*\*\*\* Stock sheet thickness for perforated plastic panels are 1/16, 1/8, 3/16, and 1/4 inch (2, 3, 5, and 6 mm). Refer to Ametco® product literature for thicknesses available for specific perforation patterns. \*\*\*\*\***

 1. Thickness: [[1/16] [1/8] [3/16] [1/4] inch] [[2] [3] [5] [6] mm].

**\*\*\*\*\* Standard stock plastic sheet size is 48 by 96 inches (1219 by 2438 mm). Contact Ametco® Manufacturing Corporation for availability of other sizes and custom cut sheets. \*\*\*\*\***

 2. Sheet size: [48 by 96 inches.] [1219 by 2438 mm.]

**\*\*\*\*\* Ametco® Manufacturing Corporation can provide full perforated sheets or can custom cut square, rectangular, round, triangular, or other shaped panels of various sizes. Include the following paragraph if factory cut perforated panels are required. \*\*\*\*\***

 B. Panel shape and size: Factory cut perforated sheets into [\_\_\_\_\_] by [\_\_\_\_\_] [inches] [mm] panels.

 C. Perforations:

**\*\*\*\*\* Plastic panels are provided with round holes either 3/32, 1/8, 3/16, 3/8, or 1/2 inch (2, 3, 5, 6, 10, or 13 mm) diameter. Both straight line and staggered hole spacing is available. Refer to Ametco® product literature for listing and illustrations of standard perforation patterns. Edit the following paragraphs to indicated required perforation pattern. \*\*\*\*\***

 1. Round: [\_\_\_\_\_] [inch] [mm] diameter holes [spaced at [\_\_\_\_\_] [inch] [mm] centers] in [straight line] [staggered] pattern and providing [\_\_\_\_\_] percent open area with [\_\_\_\_\_] holes per [square inch] [square mm].

**\*\*\*\*\* Polypropylene sheets are available with perforation patterns suitable for pegboard storage systems. Two hole sizes are available for pegboard. Sheet with 3/16 inch (5 mm) diameter holes is 1/8 inch (3 mm) thick. Sheet with 9/32 inch (7 mm) diameter holes is 1/8 inch (3 mm) thick. Include the following pattern for pegboard application. \*\*\*\*\***

 2. Pegboard: Pattern suitable for pegboard storage system with [[3/16] [9/32] [inch]] [[5] [7] mm] diameter holes spaced at [1 inch] [25 mm] centers in straight line pattern.

**\*\*\*\*\* In additional to the above standard perforation patterns, Ametco® Manufacturing Corporation can provide other custom patterns. Contact Ametco® Manufacturing Corporation for available options and assistance in specifying. \*\*\*\*\***

 3. Custom perforation pattern: Shape as indicated on Drawings and spaced at [\_\_\_\_\_] [inch] [mm] providing [\_\_\_\_\_] percent open area.

**PART 3 - EXECUTION**

**\*\*\*\*\* Perforated plastic panels manufactured by Ametco® Manufacturing Corporation have many uses and applications. If perforated plastic panels are specified in a separate section, this article should cross reference to other sections where the panels will be used. As an alternative, the material requirements can be inserted into the section specifying the perforated panel application. \*\*\*\*\***

**3.1 INSTALLATION**

 A. Preparation: Prior to panel fabrication, field verify required dimensions.

 B. Provide perforated panels specified in this Section for fabrication of [pegboard storage system] [screens] [\_\_\_\_\_] as specified in Section [06 20 00] [\_\_\_\_\_] - [Finish Carpentry] [\_\_\_\_\_].

 C. Install in accordance with manufacturer's installation instructions and approved shop drawings.

 **END OF SECTION**