PolyDome™ Quick Mount

Scope

This specification covers the material, physical/aesthetic dimensions, and mechanical properties of the cable tag as manufactured by ACP International.

This product is meant to be an easily applicable marking solution for the purpose of labeling cables.

Technical Descriptions, Design, and Materials

The PolyDome, as manufactured by ACP International, shall consist of a single piece, injection molded top portion (PolyDome), and a steel u-channel post as a bottom portion. The top portion of the ACP PolyDome quick mount shall be made from a high density polyethylene with a marlex rating of 9018.

The dome portion of the PolyDome quick mount shall be corona-treated to accept printing and/or decal application. Printing shall be done through a silk screen process with UV resistant enamel inks.

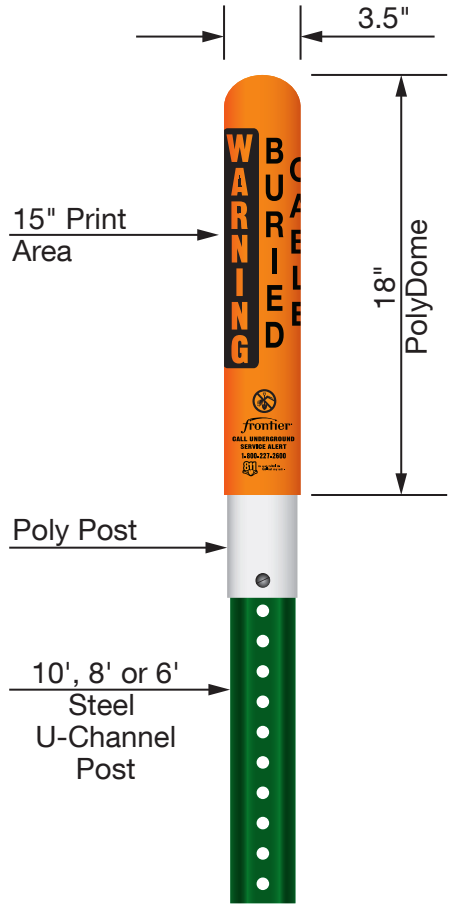
The dome shall be adhered to the post with a 3/8" screw of at least 4" so as to extend beyond both sides of the overall dimensions of the PolyDome, but optionally be adhered with steel, self flaring drive rivets for greater stability and longevity.

The PolyDome quick mount shall alternatively come with an inner poly post (as pictured below and right) manufactured from high density polyethylene.

The lifespan of the poly-dome quick mount, assuming average UV and climate exposure, shall remain bold for at least 10 years in an outdoor environment.

During installation, the fully-assembled poly-dome quick mount shall be driven 2 feet into the ground to ensure maximum stability.





IMPORTANT NOTICE: ACP International trusts that the user of the product has the most accurate knowledge of how the product might be most efficiently or safely utilized in any given application or environment.

ACP International trusts that the above technical data and product information is based on thorough and accurate testing of the product, but is not liable for any loss or damage to the product (or any other product, employee, or building from which the product might come into direct or indirect contact) resulting from an intentional or unintentional mishandling of the product.

Engineering Specifications

Quick Mount PolyDome™

ACP INTERNATIONAL	Drawn By:	Approved By:	Date:
	J.Y. Rollins	M. Prince	07/07/16

PolyDome™ Quick Mount

Dimensions

ACP International PolyDome shall be be available in heights of 6', 7', and 8' (as indicated in the part number). The PolyDome itself shall be 18" long and have a print area of 15". The opening of the PolyDome shall have a 3 ½" inside diameter and have an ⅛" wall thickness.

The u-channel post shall be 2 lbs/sq. foot and have ⅜" holes on 1" centers.

The optional poly post shall fit snugly inside the PolyDome and also have ⅛" wall thickness.

Mechanical Properties

The top portion of the ACP International PolyDome quick mount shall have the following mechanical properties:

Property	Test Method (ASTM)	Typical Values
Density	D1505	0.952 g/cm3
Melt Index, 190/2.16	D1238	20.0 g/10 min
Tensile Strength at Yield, 2 in min, Type IV bar	D638	27 MPa
Flexural Modulus Tangent - 16:1 span:depth, 0.5 in/min	D790	1,200 MPa
ESCR, Condition B (100% Igepal), F50	D1693	<10 h
Durometer Hardness, Type D (Shore D)	63	D2240
Vicat Softening Temperature Loading 1, Rate A	D5125	122ºC
Brittleness Temperature, Type A, Type 1 specimen	D746	<-75ºC

The bottom portion shall have the following mechanical properties:

Property	Test Method (ASTM)	Typical Values
Minimum Yield Strength	A-499 Grade 60	60,000 psi
Minimum Tensile Strength	A-499 Grade 60	90,000 psi

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