

Proto PVC fitting covers are designed for use on typical piping systems. For applications above ambient temperature, care should be taken to ensure that the PVC fitting cover is not exposed to temperatures above 150°F (66°C). Temperature is controlled by installing the correct thickness of Proto inserts and by keeping the PVC fitting cover away from direct or radiant heat. The installed fiberglass insert should be the same thickness as that of the pipe insulation. As a general guideline, one Proto insert should be installed for each inch of pipe insulation thickness. This will ensure that the thermal performance of Proto's insulation system matches that of the installed fiberglass pipe insulation.



Proto PVC fitting covers with inserts are designed for quick installation over elbows, tees, valves, and other types of fittings. These fitting covers are designed to fit pipe insulation sized per ASTM C585.



Place pre-cut Proto insert(s) around the fitting, positioning the insert on the inside radius of the elbow. In some cases, the insert can be secured and held in place with Proto PVC tape or filament tape.



The edge of the Proto insert should be butted against the end of the pipe covering. Tuck and fold the insulation so it covers all bare surfaces. Care should be taken to not over-compress the insert. The insert(s) should be the same thickness as the adjacent pipe insulation.

Installation Guide

Hot Pipe System - Above Ambient Temperatures and Indoor Conditioned Spaces



Insert stainless steel serrated tacks (2+ tacks per fitting) approximately 1/4" (6mm) from one of the lap edges of the fitting cover. For large or specialty fitting covers, use additional tacks to obtain a smooth, uniform fit. To assist with tack installation, form a small hole on one side of the fitting cover (using an awl or hole punch).



Once the fitting cover is in place, push the tack through the opposite side of the fitting cover. The serrated tack will firmly lock the fitting cover into place.



For an attractive finish, apply Proto's PVC tape around the circumference of the butt joints.



Proto PVC fitting covers with inserts provide a thermally efficient and clean, finished appearance for the entire system.

ASHRAE 90.1 has established insulation thickness guidelines for various applications and should be used to obtain the desired thermal efficiency. Separate thermal calculations should be made to ensure that the external temperature of the system is at or below 150°F (66°C).

Quality Assurance

Proto Corporation recommends the use of the NIA Thermal Certified Inspector Program, which utilizes inspectors who maintain current certification by NIA to inspect and verify the materials used are, and the total insulation system has been, installed correctly in accordance with the Specifications; throughout the project.

The physical and chemical properties of the products listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Please contact customer service at 800.875.7768 to assure current information.