

SECTION - 07723 ROOFTOP PIPE SUPPORTS

PART 1 - GENERAL

1.01 SECTION INCLUDES:

- A. The work of this contract consists of the furnishing of all labor, equipment, materials and devices required in conjunction with the installation of supports for all Mechanical, Electrical, Plumbing and Gas piping or conduit, HVAC Air Ducts and HVAC Equipment.
- B. Manufacturer must supply 100 % molded recycled rubber curbs.
- C. Manufacturer must supply Vibration Isolator and Cushion system with minimum shock transmission to the substrate, allowing free movement, no pipe tension or binding.

1.02 RELATED SECTIONS:

- A. Division 7 - Roofing
- B. Division 15 - Mechanical
- C. Division 16 - Electrical

1.03 REFERENCES:

- A. American Society for Testing and Materials (ASTM):
 1. A 123-89a Zinc (Hot-Dip Galvanized) Coating on Iron and Steel Products.
 2. A 153-82 Zinc Coating (Hot-Dip) Steel and Iron Hardware.
 3. A 167-92b Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet and Plate.
 4. A 570-92 Steel, Sheet and Strip, Carbon, Hot-Rolled, Structural Quality.
 5. D 412-92 Rubber Tensile Strength.
 6. D 575 Rubber Compression and Recovery.
 7. D 624-91 Rubber Tear Resistance.
 8. D 2240-91 Rubber Property - Durometer Hardness.
 9. G23-88 Rubber UV Aging.
- B. Manufacture's Standardization Society of the Valve and Fittings Industry, Inc. (MSS)
 1. SP-58 Pipe Hangers and Supports, Materials, Design and Manufacture.
 2. SP-69 Pipe Hangers and Supports, Selection and Application.
- C. National Roofing Contractor's Association (NRCA): NRCA Roofing and Waterproofing Manual, current edition.
- D. Sheet Metal and Air Conditioning Contractor's Association, Inc. (SMACNA): Architectural Sheet Metal Manual, current edition.

1.04 SUBMITTALS:

- A. Product Data: Submit manufacturer's product data sheets. Including installation instructions for each fabricated unit. Curb design must be molded from recycled rubber.

1.05 QUALITY CONTROL:

- A. The Manufacturer or his representative on request will inspect the completed installation and report in writing that the design requirements meet with the Manufacture's approval.

1.06 WARRANTY:

- A. The Product Manufacturer shall provide a full system material warranty necessary to cover all cost of repairs and/or replacement of all components of the system against defects in manufacturing for the same period and duration as specified in Division 7 roofing warranty. Warranty will include Acts of God, vandalism, neglect, metal finish or improper spacing or installation of equipment.

PART 2 - PRODUCTS

2.01 MANUFACTURER:

- A. The support system shall be manufactured by RoofTop Accessories
P.O. Box 1671 Tomball, Texas 77377 phone 866.536.5506 fax 281.516.9002 www.rooftopaccessories.com

2.02 MATERIALS:

- A. Curb: Molded Recycled Rubber.
 1. Dimensions: 3 1/2" high - 6" wide - 9" lengths.
- B. Frame: Pre-Galvanized Zinc coated 14 Gage channel (ASTM. A653).
- C. Hangers: Clevis and/or Band type as per pipe requirements.
- D. Accessories: Cadmium plated threaded rods, clamps, nuts, bolts and washers.
- E. Rollers: Non Binding Heavy Duty Plastic.

2:03 RELATED PRODUCTS:

- A. Isolation Pads are not required with molded recycled rubber curb.
- B. Pad or slip sheet shall conform to the existing roof manufacturers system if required.

2:04 PIPE SUPPORTS:

- A. Curb: Molded Recycled Rubber.
 1. Type: KeyCurb, Model (KC9) Molded Recycled Rubber pipe curb. Curb dimensions are 3 1/2" high - 6" wide - 9" long. Curb is to be used in the place of wood blocking for conduit supports.
 2. Type: KeyCurb Strut, Model (KS) Designed to support piping up to 8" in diameter. Curb is to be used with strut clamps. Curb is a Model KC with a framing channel.
 3. Type: KeyCurb Strut Adjustable, Model (KSA) Designed to support piping up to 8" in diameter. Curb is to be used with strut clamps. Curb is a Model KC with a framing channel and adjustable with threaded rods.
 3. Type: KeyCurb Strut Hanger, Model (KSH) Designed to support piping up to 4" in diameter. Curb is a Model KC with a framing channel and adjustable with threaded rods and a 4" swivel hanger.
 4. Type: KeyCurb Roller, Model (KR4) Designed to support piping up to 4" diameter. Curb is a Model KCM with rubber roller. Roller support will be used with water or gas piping for low profile pipe.
 5. Type: KeyCurb Roller Adjustable, Model (KRA4) Designed to support piping up to 4" diameter. Curb is a Model KC with heavy duty rubber roller, adjustable with threaded rods. Roller support will be used with water or gas piping.
 6. Type: KeyCurb Bridge, Model (KCB) Designed to support all type of piping. Curb is to be used with strut clamps or roller accessories. Model KCB consists two KeyCurbs and framing channel.
 7. Type: KeyCurb Bridge Adjustable, Model (KCBA) Designed to support all type of piping. Curb is to be used with strut clamps or roller accessories. Model KCBA consists two KeyCurbs and framing channel and four threaded rods.
 8. Type: KeyCurb Adjustable Support Bridge, Model (ASB) Designed to support piping up to 12". Four (4) KeyCurb Model KC9 with steel clevis and/ or swivel hangers, adjustable with threaded rods. Hanger support will be used with water or gas piping.
 9. Type: KeyCurb Adjustable Support, Model (AS) Designed to support piping and a/c ducts. Two (2) KeyCurbs Model KS with cross bar to suspend hangers or adjustable rollers placed on top or cross bar.

PART 3 - EXECUTION

3.01 PREPARATION:

- A. Verify that substrate is smooth and clean to extent needed to receive work.
- B. Review approved shop drawing for locations of support system.
- C. Clean surfaces to receive support system.
- D. Supports can be placed on completed gravel roof systems.

3.02 INSTALLATION:

- A. Field customize to fit existing condition or as specified herein.
- B. Set curbs and support framing in locations specified or required herein as per drawings and site conditions but not to exceed 10' spacing. No Isolation pads are required under the support curbs. Sweep any loose gravel before setting supports, apply slip sheet or pad if required by roofing manufacturer.
- C. Adjust all frame structures to required height and weight, assemble framing, supports, and hangers to configuration indicated.
- E. Adjust each required hanger, roller or clamp to its desired height, check each support for equal weight disbursement.