

## DESCRIPTION

Ductmate 25/35/45 connection systems consist of roll-formed flanges, corner pieces, gasket and cleat. The flanges attach to the duct wall and have an integral mastic which allows the flange to seal itself to the duct. Corner pieces are used to add rigidity to the flange; hold the ductwork together and provide a sealing surface for the gasket. The gasket serves as a seal between the flanges. The cleat insures even compression of the gasket along the length of the flange.

## BASIC USE

Ductmate 25/35/45 are used to connect rectangular ducts when a rigid, leak-free connection is required.

## SPECIAL CHARACTERISTICS

- Patented downset in corner insures proper sealing (excludes Ductmate '45')
- Patented corner clips ease installation (excludes Ductmate '45')
- Sealing materials meet NFPA 90A & B Class 1 requirements
- The Ductmate '45' system is not recommended for applications with duct gauges heavier than 10 or lighter than 22.
- The Ductmate '35' system is not recommended for applications with duct gauges heavier than 16 GA, or lighter than 26 GA.
- The Ductmate '25' is not recommended for applications with duct gauges heavier than 20 GA or lighter than 26 GA.

## TECHNICAL INFORMATION

Ductmate '45' was tested in accordance with SMACNA testing procedures. No external sealant was employed and the test results reveal: the Ductmate '45' system is comparable to a SMACNA Class K transverse joint; the Ductmate '35' system is comparable to the SMACNA Class "J" transverse joint and the Ductmate '25' system is comparable to the SMACNA Class "F" joint. Ductmate '35' in stainless steel exhibits the same performance as galvanized. Aluminum DM35 is comparable to a SMACNA H connection. DM25 is not available in aluminum or stainless. DC35 corner pieces must be used with aluminum. Aluminized or PVC cleats are used with aluminum flanges. Cleat is not available in aluminum. Do not notch the corners when fabricating ductwork for the Ductmate System.

## PACKAGING INFORMATION

The Ductmate Systems consist of the following components:

- Ductmate '45' flange is roll-formed from 18 GA galvanized steel, with an integral sealant.
- Ductmate '35' flange is roll-formed from 20 GA galvanized steel, with an integral sealant.
- Ductmate '25' flange is roll-formed from 24 GA galvanized steel, with an integral sealant.
- Ductmate '45' electroplated, bolt corner pieces insert into the hollow web of the '45' angle.
- Ductmate DCIII A, DCIII B or DC35 corner pieces insert into the hollow web of the '35' Angle.
- Ductmate DC25 clip or DC25 bolt corner pieces insert into the hollow web of the '25' Angle.
- Ductmate '45' metal cleat is roll-formed from 22 GA galvanized steel.
- Metal cleat is roll-formed from 20 GA galvanized steel. (PVC Cleat is available upon request).
- 440 Butyl Gasket is extruded butyl for use between mating flanges. (Neoprene gasket is available upon request).
- Corner clips are 16 GA galvanized steel. (Use of nuts and bolts optional:  $\frac{3}{8}$ " x 1" for DCIII B,  $\frac{5}{8}$ " x 1" for Ductmate DC25 corners).

## CLEAT

### PVC CLEAT:

Polyvinyl chloride (PVC) is an organic polymer derived from petroleum and salt.

Performance Properties:

Relative high ignition resistance: flash ignition 391°/735°F  
self ignition 454°C/850°F

Low fuel contribution

Lack of flaming drips

High external heat necessary to maintain combustion

UL94-Passes

UL723 (ASTM E-84) Test Data: Flame Spread:10

Fuel Contribution: 0

Smoke Density: 10

Service Temp:

+32°F to +150°F

PVC Cleat is used around perimeter of transverse joint. Not recommended for roof top applications.

### METAL CLEAT:

DM Metal Cleat is roll-formed of 20 GA galvanized steel for application around perimeter of transverse joint.

### DCIII B Corner Piece

Notch for Corner Clip Hole for optional 3/8" bolt  
Flange for Corner Clip

