FOR BOILER DUCTING

Metallic Expansion joints are of Round Corner type and used in boiler ducting systems of Cold / Hot Air and Flue Gas to absorb thermal expansion.

Size

Minimum 600x600mm to maximum 14000x7000 mm

Material

Carbon Steel (Air ducting) : IS 513 D (1.6 mm) / IS 1079 D (2.5 mm) Corten Steel (Gas Ducting) : ASTM A588Gr.A (1.6 mm / 2.5 mm)

TYPE

Type of Corner - Rou Type of Profile

- Round Corner

1. Full Size (2.5 mm Thickness)

2. Half Size (1.6 mm Thickness)

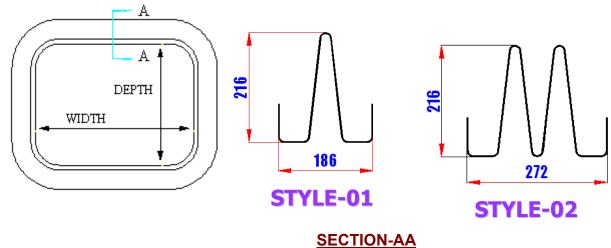
No. of convolutes: 1. Single

2. Double

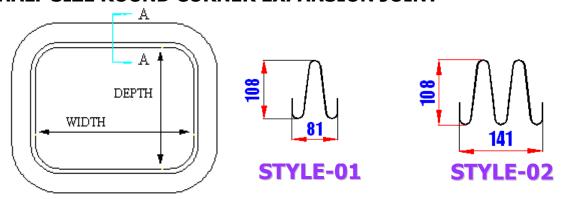
3. Multiples of double (Four & Six)

The round corner expansion joints are designated as **style 1**, **style 2**, **style 4 and style 6**, the style number being the indication for the number of convolutions. For style 4, two numbers of style 2 joints will be connected by a corner stiffener. Various styles for Full round corner expansion joint is shown below:

FULL SIZE ROUND CORNER EXPANSION JOINT



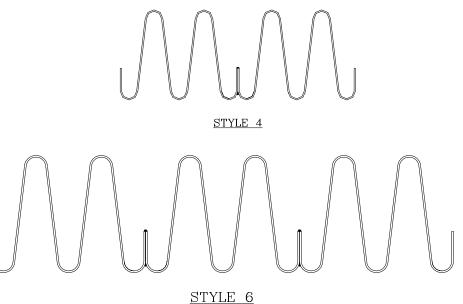
HALF SIZE ROUND CORNER EXPANSION JOINT



SECTION-AA

Width of expansion joint :

FULL SIZE ROUND CORNER EXPANSION JOINT Width (mm)		HALF SIZE ROUND CORNER EXPANSION JOINT Width (mm)	
Style 1	186	Style 1	81
Style 2	272	Style 2	141
Style 4	554	Style 4	282
Style 6	836	Style 6	423



CORNER PIECES OF ROUND CORNER EXPANSION JOINT



Corner pieces are made separately and joined with straight pieces of required length to make full expansion joints.

Corner pieces of half size joints are of 302 mm radius Corner pieces of Full size joints are of 605 mm radius

Corner pieces detail dimensions are as per the enclosed Drg.No. SK-DT-RCEJ.

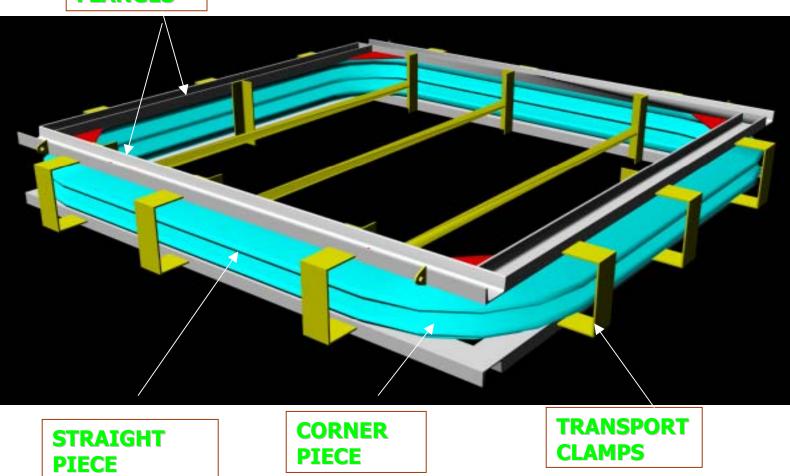
FLANGES

Expansion joints are shipped with the connecting flanges (Flanges are bolted to Expansion joints). Flanges are also split along with expansion joints and joined at site.

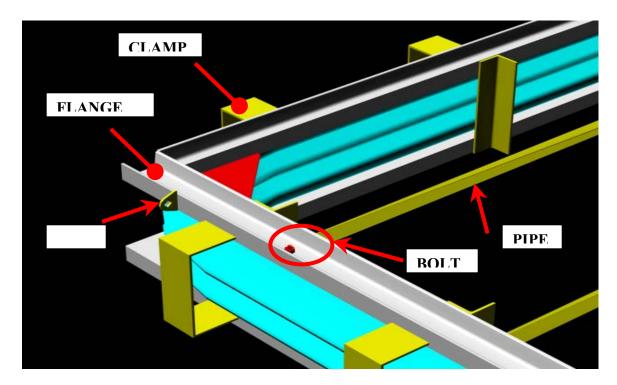
Also transport clamps / strut tubes are to be provided along with flanges.

ROUND CORNER EXPANSION JOINT

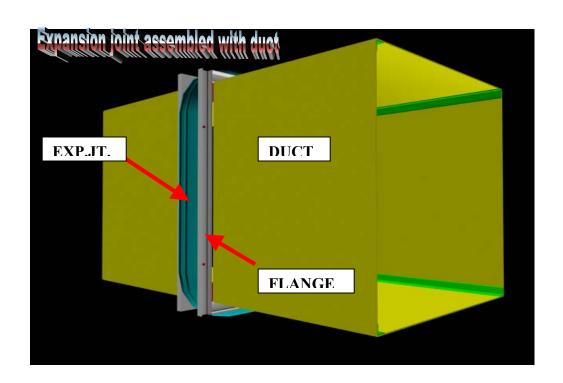
FLANGES



DETAILS OF ROUND CORNER EXPANSION JOINT



ROUND CORNER EXPANSION JOINT PROVIDED BETWEEN DUCTS WITH FLANGES



SPLITING THE EXPANSION JOINTS

The expansion joints are shipped as a single piece for size up to 2000 mm. For the sizes above 2000mm expansion joints are shipped in split condition. Splits joints are assembled at site prior to installation.

