

# CSBG-Series (Below Grade)

## Description

The Contour Seal Below Grade (CSBG) is composed of a durable, closed cell ethylene vinyl acetate (EVA) foam. It was developed to perform under extreme conditions such as those found in vertical and horizontal applications including bridge and parking structure type expansion joints.

The CSBG provides a watertight, dustproof, airtight, UV stable, chemically resistant, soundproof and insulated urethane primary seal. It is a preformed, compressible system that is impermeable to water and when bonded in place provides a watertight seal.

Once the CSBG is installed in the joint, the material adapts to the width of the joint and the irregularities of the substrate, provided such profile changes are not sudden or extreme. It is permanently resilient. The material will expand and contract with the movement of the joint under any weather condition.

## Features and Benefits

- Can accommodate rapid rates of joint movement
- Made from a monolithic piece of foam that will not delaminate like multi-layer products
- Consistent depth of product
- Used for joints up to 12" wide
- Allows for up to 50% ( $\pm 25\%$ ) movement
- Can be permanently bonded to the joint substrate
- Not based on asphaltic or bitumastic impregnation
- Environmentally safe; no ChloroFluoroCarbons (CFCs)
- Sizes available in 1/4" increments

## Physical Properties

Tensile Elongation	ASTM D3575, 250%
Tensile Strength	ASTM D3575, 120 psi
Tear Resistance	ASTM D624, 21.5 lbs/in
Density	ASTM D3575, 2-3 lb/cu. ft.
Water absorption	ASTM D3575, <.02 lbs/sqft

### Chemical Resistance (core foam material):

Isopropyl Alcohol	Linseed Oil
Naptha	Motor Oil #30
Clorox	Acetic Acid 5%
Ethylene Glycol	Hydrochloric Acid Concentrated
Butyl/ethyl Acetate	Nitric Acid

### ALL EXCELLENT RESISTANCE



**CONTACT EMS FOR PROPER SIZING - Supplied material should be approx. 25% larger than the intended joint opening.**

PRODUCT	DEPTH OF SEAL IN (MM)	MIN. WIDTH IN (MM)	MID-RANGE IN (MM)	MAX. WIDTH IN (MM)	TOTAL MOVEMENT IN (MM)
CSBG-050	1.00" (25.4)	0.38" (9.5)	0.50" (12.7)	0.63" (15.9)	0.25" (6.4)
CSBG-100	1.50" (38.1)	0.75" (19.1)	1.00" (25.4)	1.25" (31.8)	0.50" (12.7)
CSBG-150	2.00" (50.8)	1.13" (28.6)	1.50" (38.1)	1.88" (47.6)	0.75" (19.1)
CSBG-200	2.00" (50.8)	1.50" (38.1)	2.00" (50.8)	2.50" (63.5)	1.00" (25.4)
CSBG-250	2.00" (50.8)	1.88" (47.6)	2.50" (63.5)	3.13" (79.4)	1.25" (31.8)
CSBG-300	3.00" (76.2)	2.25" (57.2)	3.00" (76.2)	3.75" (95.3)	1.50" (38.1)
CSBG-350	3.00" (76.2)	2.63" (66.7)	3.50" (88.9)	4.38" (111.1)	1.75" (44.5)
CSBG-400	3.00" (76.2)	3.00" (76.2)	4.00" (101.6)	5.00" (127.0)	2.00" (50.8)
CSBG-500	3.00" (76.2)	3.75" (95.3)	5.00" (127.0)	6.25" (158.8)	2.50" (63.5)
CSBG-600	3.00" (76.2)	4.50" (114.3)	6.00" (152.4)	7.50" (190.5)	3.00" (76.2)
CSBG-700	3.00" (76.2)	5.25" (133.4)	7.00" (177.8)	8.75" (222.3)	3.50" (88.9)
CSBG-800	3.00" (76.2)	6.00" (152.4)	8.00" (203.2)	10.00" (254.0)	4.00" (101.6)