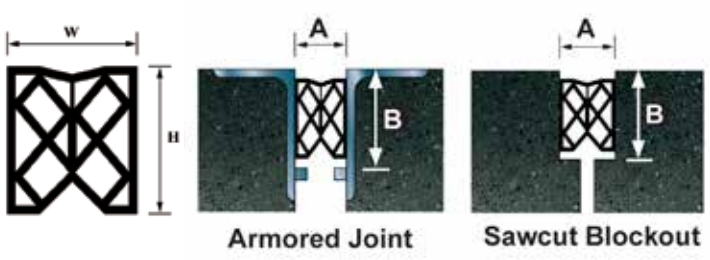

Expansion Joint Systems

# Delastic® Preformed Compression Seals

## *CV & CA Characteristics & Properties*




| Delastic® Seal Catalog No. | Delastic® Seal Characteristics Nominal Width (W) | Nominal Height (H) | Maximum Movement | Joint Design Criteria Narrowest Opening[A] | Widest Opening[A] | Minimum Depth[B] |
|---|---|---|---|---|---|---|
| CV-1250 | **1.25** (32) | **1.25** (32) | **0.50** (13) | **0.56** (14) | **1.06** (27) | **2.00** (51) |
| CV-1625 | **1.63** (41) | **1.88** (40) | **0.66** (17) | **0.72** (18) | **1.38** (35) | **2.50** (64) |
| CV-1752 | **1.75** (44) | **1.75** (44) | **0.68** (17) | **0.81** (21) | **1.49** (38) | **2.75** (70) |
| CV-2000 | **2.00** (51) | **2.00** (51) | **0.82** (21) | **0.88** (22) | **1.70** (43) | **2.95** (75) |
| CV-2250 | **2.25** (57) | **2.33** (59) | **0.85** (22) | **1.06** (27) | **1.91** (49) | **3.25** (83) |
| CV-2502 | **2.50** (64) | **2.50** (64) | **1.00** (25) | **1.13** (29) | **2.13** (54) | **3.50** (89) |
| CV-3000 | **3.00** (76) | **3.25** (83) | **1.30** (33) | **1.25** (32) | **2.55** (65) | **4.25** (108) |
| CV-3500 | **3.50** (89) | **3.50** (89) | **1.60** (41) | **1.38** (35) | **2.98** (76) | **5.25** (133) |
| CV-4000 | **4.00** (102) | **4.00** (102) | **1.83** (46) | **1.57** (40) | **3.40** (86) | **5.75** (146) |
| CA-4500 | **4.50** (114) | **4.50** (114) | **2.27** (58) | **1.56** (40) | **3.83** (97) | **6.25** (159) |
| CA-5001 | **5.00** (127) | **5.00** (127) | **2.41** (61) | **1.84** (47) | **4.25** (108) | **6.75** (171) |
| CA-6000 | **6.00** (152) | **6.00** (152) | **3.10** (79) | **2.00** (51) | **5.10** (129) | **8.50** (216) |

Bold numbers represent inches; metric (mm) shown in parentheses.
Joint opening dimensions (A) are based on minimum and maximum pressured allowed in ASTM D3542.
Minimum depth dimensions (B) include a 0.25 inch (6mm) recess below the roadway surface.
Compression seals are not recommended on skewed angles over 15 degrees. Consult with a D.S. Brown Sales Representative on joint options for higher skews.



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## *CV & CA Characteristics & Properties*



| Properties | ASTM D3542-08 - Physical Requirements for Preformed Elastomeric Joint Seals<br>Requirements | ASTM Test Method |
|---|---|---|
| Tensile Strength, min, psi (MPa) | 2000 (13.8) | D412 |
| Elongation at Break, min, % | 250 | D412 |
| Hardness, Type A durometer, points | 55±5 | D2240 (modified)[A] |
| Oven Aging, 70 h at 212°F (100°C) | | D573 |
| Tensile Strength, loss, max, % | 20 | |
| Elongation, loss, max, % | 20 | |
| Hardness, Type A durometer, points change | 0 to 10 | |
| Oil Swell, ASTM Oil No. 3, 70 h at 212°F (100°C) | | |
| Weight change, max, % | 45 | D471 |
| Ozone Resistance[B]: 20% strain, 303 mPa of ozone in air (the volume fraction of ozone is 300 pphm in air at 1 atm), 70 h at 104°F (40°C), wiped the toluene to remove surface contamination | no cracks | D1149[C] |
| Low-Temperature Recovery[C], 72 h at +14°F (-29°C), 50%; | | |
| Deflection, min, % | 88 | Section 8.2[D] |
| Low-Temperature Recovery[C], 22 h at -20°F (-29°C), 50% | | |
| Deflection, min, % | 83 | Section 8.2[D] |
| High-Temperature Recovery[C], 70 h at 212°F (100°C), 50% | | |
| Deflection, min, % | 85 | Section 8.2[D] |
| Compression-Deflection Properties: | | D575 Method A (modified)[E] |
| LC Min., in (mm) | See 8.3.5 | |
| LC Max., in (mm) | See 8.3.5 | |
| Movement Range, in (mm) | See 8.3.5 | |

[A] The term “modified” in the table relates to the specimen preparation. The use of the joint seal as the specimen source requires that more plies than specified in either of the modified test procedures be used. Such specimen modification shall be agreed upon between the purchaser and the supplier prior to testing. The hardness test shall be made with the durometer in a durometer stand as recommended in Test Methods D2240.

[B] Sample prepared in accordance with Method A of Test Method D518.

[C] Cracking, splitting or sticking of a specimen during a recovery test shall mean that the specimen has failed the test.

[D] The reference section and subsections are those of specification *D 3542 – 08 Preformed Polychloroprene Elastomeric Joint Seals for Bridges*.

[E] Speed of testing shall be 0.5 ± 0.05 in. (13 ± 1.3 mm), minimum at room temperature of 73°F ± 4°F (23 ± 2.2°C). The sheets of sandpaper are not used.



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