

DIVISION 3

Common Work Results
for Concrete 03 05 00

CONCRETE EXPANSION JOINT

PRODUCT No. 6917-05

PRODUCT DESCRIPTION

QUIKRETE® Concrete Expansion Joint is a soft, compressible foam insert for expansion and isolation joints in concrete construction.

PRODUCT USE

QUIKRETE® Concrete Expansion Joint can be used in all standard concrete construction, such as highways, runways, parking garages, driveways, sidewalks, and floor slabs. Concrete Expansion Joint can also be used as a buffer between dissimilar materials such as columns, manhole covers, and adjacent constructions. Meets ASTM D 1752* and D 4819 Type II.

FEATURES

- Extruded from a high quality closed-cell polyethylene foam
- Will not break or crack when used around curves or columns
- Approximately 10 times lighter than traditional expansion joints
- Will not rot over time due to the near-zero water absorption
- Easy to cut and handle on the jobsite

SIZES

- QUIKRETE® Concrete Expansion Joint – 50' rolls (15.2 M), 4" (100 mm) high.

TECHNICAL DATA

APPLICABLE STANDARDS

ASTM International

- ASTM D545 *Test Methods for Preformed Expansion Joint Fillers for Concrete Construction (Nonextruding and Resilient Types)*
- ASTM D3575 *Test Methods for Flexible Cellular Materials Made from Olefin Polymers*
- ASTM D1752 *Specification for Preformed Sponge Rubber Cork and Recycled PVC Expansion Joint Fillers for Concrete Paving and Structural Construction* (*With the compressive requirement of Section 5.3 modified to 10 psi minimum and 25 psi maximum due to the material type)
- ASTM D4819 *Specification for Flexible Cellular Materials Made From Polyolefin Plastics*

QUIKRETE® Concrete Expansion Joint meets the requirements of ASTM standards D4819 Type II (Suffixes D4, B5, T13, T24, G2, W1, L1). Typical physical properties, when tested with the appropriate ASTM standard, are shown in Table 1.



INSTALLATION

Unroll expansion material and cut to needed length. Attach to adjacent material (brick, block, existing concrete, etc.) using QUIKRETE® Polyurethane Construction Adhesive (#9902-10), nails or staples before pouring new concrete. The top of the expansion joint should be at the same level as the new concrete being placed. Pour concrete mix and finish.

Note: The expansion joint comes with a perforated tear off strip called a 'zip cap'. The 'zip cap' design allows the top of the expansion joint to be removed to provide space for a caulk bead. If caulking is not desired, install the expansion joint with the 'zip cap' on the bottom.

TABLE 1 TYPICAL PHYSICAL PROPERTIES

Recovery, ASTM D 545	98.6%
Extrusion, ASTM D 545	0.16" (4 mm)
Compressive Strength, ASTM D545	
Vertical Direction, Suffix D @ 50%	12.3 psi (84 kPa)
Compression Set, ASTM D 3575 (Suffix B)	16%
Tensile Stress, ASTM D 3575	44 psi (300 kPa)
Suffix T MD / CMD	26 psi (180 kPa)
Elongation, ASTM D 3575	79%
Suffix T MD / CMD	65%
Tear Resistance, ASTM D 3575	10 lb/in (0.18 kg/mm)
Suffix G MD / CMD	15 lb/in (0.27 kg/mm)
Density Range, ASTM D 3575	1.7 lb/ft3 (nominal)
Water Abs., ASTM D 3575 (Suffix L)	<0.1 lb/ft2 (<0.49 kg/m2)

WARRANTY

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping

companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

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** Refer to www.quikrete.com for the most current technical data, MSDS, and guide specifications*