

SWELLSTOP

CONTROLLED EXPANSION WATERSTOP



✓ **Easy**

✓ **Effective**

✓ **Engineered**

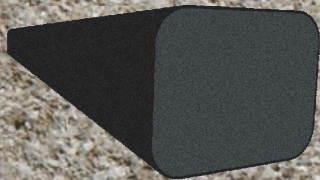
✓ **Economical**

SWELLSTOP is a highly versatile, strip-applied waterstop for nonmoving concrete joints. Formulated to encapsulate hydrophilic materials into a rubber base, SWELLSTOP creates a controlled, moisture-activated, compression seal.

SWELLSTOP's structural integrity conforms well to the underlying substrate and exhibits self-healing properties when needed. Unlike many traditional clay-based products, SWELLSTOP will not expand to a point at which the waterstop itself is destroyed. Field experience has proven that products, which continually expand, lose much of their structural integrity and can actually erode when subjected to a constant flow of water.

Furthermore, the controlled expansion properties engineered into SWELLSTOP, reduce the internal pressures created in cast-in-place applications, which can cause spalling in foundations and wall structures.

SWELLSTOP is ideal for a variety of nonmoving joint applications, including:



SWELLSTOP

3/4" x 1"

16'-8" roll

6 rolls/box

100'/box



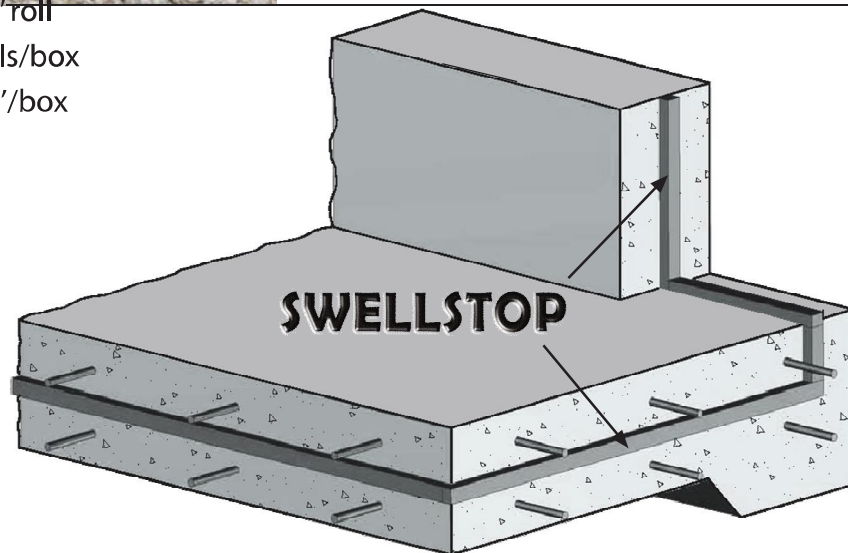
SWELLSTOP II

3/8" x 3/4"

25' roll

6 rolls/box

150'/box



SWELLSTOP

CONTROLLED EXPANSION WATERSTOP



PHYSICAL PROPERTIES

Description	Value
Color	Black
Specific Gravity ASTM D71	1.60 ± 5%
Volatile Matter ASTM D6	1% maximum
Penetration, cone at 77°F 15 gm; 5 sec. ASTM D217	40 ± 5%
Application Temperature	-10°F to 125°F
Service Temperature	-30°F to 180°F

LIMITATIONS, CONSIDERATIONS, AND PRECAUTIONS

- SWELLSTOP should be used in below grade, nonmoving joints only and is not appropriate for expansion joint applications!
- Cracking and/or spalling of the concrete can be caused by the expansion pressure of SWELLSTOP. A minimum 2" of concrete coverage is recommended. Increase this coverage if using lightweight or low strength concrete (< 3,500 PSI compressive strength)!
- SWELLSTOP requires the presence of moisture to initiate and maintain expansion. The expansion process begins immediately when SWELLSTOP contacts water.
- SWELLSTOP Primer Adhesive and SWELLSTOP Waterstop should be applied on the same day.
- Inspect SWELLSTOP for premature swell, discontinuity, and debris contamination immediately prior to the 2nd concrete pour. If swelling and/or damage has occurred, remove and replace the material with new.
- Do not remove separation paper from SWELLSTOP until just prior to the 2nd concrete pour.
- Store material in a cool, dark, dry environment.

BASIC INSTALLATION IN A NONMOVING JOINT

SWELLSTOP is installed in and along the joint after the first concrete pour and just before the second pour.

A keyway may be formed with a slight draft angle at the joint face to accept the SWELLSTOP, this will reduce the risk of the profile shifting during concrete placement. This may increase the chance of SWELLSTOP being exposed to pooling water.

The concrete surface should be smooth, dry, and cured for a minimum of 24 hours prior to SWELLSTOP application.

Brush apply a 2" wide coat of SWELLSTOP Primer Adhesive along the joint and allow it to dry for two hours before applying the SWELLSTOP Waterstop.

Press SWELLSTOP firmly and continuously in place over and along the primed area. SWELLSTOP can be mechanically fastened to concrete using concrete nails in vertical or overhead applications. This should be done in addition to using the primer adhesive. Suggested fastener spacing is approximately 12" on center.

SWELLSTOP should be spliced by butting the ends together with no separation and no air pockets. Do not overlap the ends of the waterstop.



SWELLSTOP Primer Adhesive is available in one gallon pails.



Complete Installation Guidelines and CSI Format, Three Part Specifications are available in print or online. Please consult a Sika Greenstreak Engineer for further information.



KCI Construction Company, Inc.
10315 Lake Bluff Drive
St. Louis, MO 63123
O: 314.894.8888 | F: 314.894.7418

Submittal Cover Page

Webster University

Interdisciplinary Science Building

8274 Big Bend Blvd

Webster Groves, MO 63119

KCI Project #: 16-008

Specification Section: 03 3000 - Cast-In-Place Concrete

Submittal: Waterstops

Subcontractor: Carter-Waters

Paragraph #	Description	Type
2.6 B.	Greenstreak: #773 - Ribbed Flat Waterstop	Product Data: Cut Sheet
	*FOR ALL VERTICAL CONCRETE WALL POUR JOINTS	
	Greenstreak: #667 - Retrofit Waterstop System	Product Data: Cut Sheet
	*FOR CONNECTIONS TO EXISTING CONCRETE JOINTS	
	Greenstreak: 7300 Epoxy	Product Data
	*FOR CONNECTIONS TO EXISTING CONCRETE JOINTS	
2.6 C.	Greenstreak: Swellstop	Product Data
	*FOR ALL HORIZONTAL FOOTING AND CONCRETE WALL POUR JOINTS	
	Greenstreak: Swellstop Primer Adhesive	Product Data
	*FOR ALL HORIZONTAL FOOTING AND CONCRETE WALL POUR JOINTS	
2.6	Greenstreak: Waterstop Catalog	Product Data
	Greenstreak: Data Sheet	Product Data

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

PROJECT NAME	
ADDRESS	
NUMBER	
OWNER	
ARCHITECT / ENGINEER	
SUBMITTED BY	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
CRITICAL	

ITEM BEING SUBMITTED (check only one)

- | | | |
|---|--|--|
| ☐ Shop Drawings | ☐ Certification / Qualifications | ☐ Coordination Drawing |
| ☐ Samples (____ copies) | ☐ Record Documents | ☐ Calculations |
| ☐ LEED Submittal | ☐ Product Data | ☐ Schedules |
| ☐ Other _____ | ☐ O&M Manuals | |

ITEM BEING SUBMITTED FOR (check only one)

- ☐ Action ☐ Information Only ☐ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION (SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)



PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By: **Devin D. Gates**

REVIEWED BY

DATE

To be completed by Reviewer

CANNON DESIGN SUBMITTAL NUMBER
RECEIVED DATE
☐ A. No Exceptions Taken No further review of submittal is required.
☐ B. Make Corrections Noted Incorporate corrections in work; resubmission is not required.
☐ C. Revise and Resubmit Revise as noted, and resubmit for review.
☐ D. Rejected Submittal is not in compliance with Contract Documents; provide new submittal.
☐ E. For Record / Information Only Submittal was reviewed for Record / Information purposes only.
☐ F. Not Required for Review Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS

☐ See attached sheet(s) for additional comments

SHOP DRAWING / SUBMITTAL REVIEW	
☒ NO EXCEPTION TAKEN	☐ EXCEPTIONS NOTED, RESUBMITTAL NOT REQUIRED
☐ REJECTED	
☐ REVIEWED FOR INFORMATION ONLY	☐ REVISE AND RESUBMIT AS NOTED
Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: Dimensions which shall be confirmed and correlated at the job site, fabrication processes and techniques of the construction, coordination of his work with that of all other trades and the satisfactory performance of his work.	
DAVID MASON & ASSOCIATES, INC.	
REVIEW BY: JYW / DMA	DATE: 04/22/2016

REVIEWED BY

DATE



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0021

Paric Corporation

PROJECT: Webster University Interdisciplinary Science Building

DATE: 04/21/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Waterstop product data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:		SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings		☐ Approval	☐ Approved as Submitted
☐ Letter		☐ Your Use	☐ Approved as Noted
☐ Prints		☐ As Requested	☐ Returned After Loan
☐ Change Order		☐ Review and Comment	☐ Resubmit
☐ Plans			☐ Submit
☐ Samples		SENT VIA:	☐ Returned
☐ Specifications		☐ Attached	☐ Returned for Corrections
☒ Other:		☐ Separate Cover Via:	☒ Due Date: 03/07/2016

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		033000-013	1		04/21/2016	Waterstop product data	Open

NOTES:

CC:

Signed: _____
Devin Gates



KCI Construction Company, Inc.
ST. LOUIS: 10315 Lake Bluff Drive | St. Louis, MO 63123
LEBANON: 119 West Fremont | Lebanon, MO 65536

O: 314.894.8888
F: 314.894.7418
www.kciconstruction.com

SUBMITTAL TRANSMITTAL

Date Sent: 04/21/2016

Project: Webster University –
Interdisciplinary Science Building

Project #: 16-008

Subject: 03 3000 Cast-In-Place Concrete –
Waterstops

Submittal ID: 0004

Type: Submittal

Purpose: For Approval

Sent Via: Email (PDF)

Transmitted To:

Devin Gates
Paric
77 Westport Plaza, Suite 250
St. Louis, MO, 63146
Phone: (636) 561-9592
Email: ddgates@paric.com

Transmitted From:

Kyle Nieman
KCI Construction Company
10315 Lake Bluff Drive
St. Louis, MO 63123
Phone: (314) 200-6486
Email: knieman@kciconstruction.com

Contents:

Qty: 1

Dated: 04/21/2016

Submittal Package No.: 0004 – 03 3000 – 00

Description: 03 3000-00_Cast-In-Place Concrete – Waterstops

Remarks: Please review and return at your earliest opportunity. Thanks,

Kyle Nieman
KCI Construction Company

A BUILDER, NOT A BROKER.

General Building | Design/Build | Heavy Industrial | Transportation



KCI Construction Company, Inc.

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www.kciconstruction.com

WEBSTER UNIVERSITY – INTERDISCIPLINARY SCIENCE BUILDING

St. Louis, MO

Submittal Description: Cast-In-Place Concrete – Waterstops

Submittal #: 0004 – 03 3000 – 00

Notes:

This submittal/drawing has been reviewed and found to be in general conformance with the contract documents.

APPROVED

APPROVED AS NOTED

REVISE AND RESUBMIT

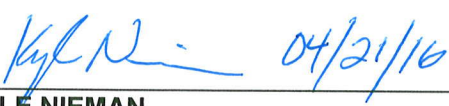
X

03 3000

SPEC SECTION

04/21/2016

DATE


KYLE NIEMAN

KCI CONSTRUCTION CO.

A BUILDER, NOT A BROKER.

General Building | Design/Build | Heavy Industrial | Transportation