

SECTION 03150 — WATERSTOPS FOR CONCRETE JOINTS — rev. 04/07/19

***** MasterFormat™ 2004 — Section 03 15 13 *****

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Suggested Proprietary Short Form Guide Specification

Earth Shield® Modified Rubber Strip Applied Waterstop

Waterstop indicated in drawings and specifications for non-moving construction joints shall be Earth Shield® Modified Chloroprene Strip Applied Waterstop Type NB190® Profile No. #### (Designer insert appropriate profile number here) [A, B, or C]] as manufactured by J P Specialties, Inc.; Murrieta, CA 92562; Phone 951-763-7077

1. Waterstop shall be manufactured from chloroprene and contain no bentonite.
2. Waterstop shall have a maximum compression set of 45% or under.
3. Minimum concrete cover shall be no less than 3 inches.
4. Adhere to concrete using Type NB190® Adhesive.
5. No equals or substitutions allowed.

Suggested Long Form Guide Specification

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Provision of waterstops embedded in concrete and spanning control and construction joints to create a continuous diaphragm to prevent fluid migration.

1.02 REFERENCES

- A. American Society for Testing Materials (ASTM)
- B. International Standards Organization (ISO)

1.03 DELIVERY, STORAGE, AND HANDLING

- A. Store waterstops indoors or under tarps to protect from oil, dirt, sunlight, and premature exposure to water.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Provide Earth Shield® Type NB190® Modified Chloroprene Strip Applied Waterstop as manufactured by **JP SPECIALTIES, INC. — MURRIETA, CA, USA 92562 — PHONE 800-821-3859; 951-763-7077; FAX 951-763-7074; WEB WWW.EARTHSHIELD.COM; E-MAIL DAVIDP@EARTHSHIELD.COM**
- B. Profile number (fill in profile style number).
- C. The waterstop shall be chloroprene hydrophilic rubber.
- D. Performance Requirements as follows:

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Property	Test Method	Required Limits
Pressure Resistance		231 ft of Water Head Pressure
Hardness (Shore A)	ASTM D2240	36.4
Specific Gravity	ASTM D792	1.46
Tear Resistance	ISO 8067	5.56 lb/inch
Compression Set	ASTM D395	45% at 77°F
Swelling (fresh water)		400% in 36 Days
Swelling (salt water)		46% in 36 Days
Chemical Resistance	ASTM D471	Meet or exceed specific testing standards for contained fluids as required by Owner and certified by Manufacturer

2.02 ACCESSORIES

- A. Provide Type NB190® Adhesive to secure waterstop to smooth, dry concrete.
- B. Provide cyanoacrylate adhesive (i.e. Super Glue) for all waterstop splices.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Cut coil ends square with shears or sharp blade to fit splices together without overlaps.
- B. Splices shall be sealed using cyanoacrylate adhesive (super glue).
- C. Position waterstop on joint as indicated on Drawings with a minimum of 3 inches (76 mm) concrete coverage on all sides.
- D. Press strip waterstop firmly and continuously in place over Type NB190® Adhesive on first concrete pour.
- E. When necessary on vertical, damp, or green concrete, fasten waterstop strip mechanically starting 1 inch (25 mm) from each coil end and proceeding 10 inches (250 mm) on center along length.
- F. Notify Engineer/Architect 24 hours prior to placement of concrete at waterstops.
- G. Immediately prior to placing second pour, inspect waterstop for damage, discontinuity, premature swelling, and debris contamination. Replace damaged waterstop. Remove unacceptable waterstop from site and dispose of defective material in accordance with local regulations.
- H. Remove the separation paper from the strip waterstop immediately prior to second pour.
- I. Place concrete without displacing waterstop from position.

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- J. Thoroughly and systematically vibrate concrete around waterstop to obtain impervious, void-free concrete in vicinity of joint and to maximize intimate contact between concrete and waterstop. Do not allow vibrator to contact the strip waterstop.

END OF SECTION

All information is presented in good faith and the results are believed to be accurate. All testing was done independently of Earth Shield® and J P Specialties, Inc.; therefore, neither Earth Shield® nor J P Specialties, Inc. makes any guarantee as to the testing data accuracy or the results obtained.