

## CCW Blindside Waterproofing – Use with Shotcrete Foundation Walls

This Technical Bulletin is provided to support the installation of the CCW MiraPLY™ and the CCW MiraWELD™ Blindside Waterproofing Systems for structural below-grade walls constructed of shotcrete. The sequencing and coordination with the General Contractor, Waterproofing Contractor, Shotcrete Contractor, and other relevant Trades is critical for the success of a blindside waterproofing system.

**MiraPLY Detailing** – MiraPLY seams (both side and end laps) shall be installed as per standard CCW requirements with an additional layer of MiraPLY tape. Center the MiraPLY Detail Tape or MiraPLY Seam Tape over all seams and roll firmly into place. If necessary, clean the MiraPLY membrane surface with Carlisle Weathered Membrane Cleaner or apply Sure-Seal HP-250 Primer to seam areas to promote tape adhesion. CCW may also require the use of MiraSTOP™ IW (Injectable Waterstop) at all construction joints depending on overall waterproofing design criteria.

**MiraWELD Detailing** – MiraWELD shall be installed as per standard CCW requirements with no additional detail enhancements. CCW may require, however, the use of MiraSTOP™ IW (Injectable Waterstop) at all construction joints depending on overall waterproofing design criteria.

**Steel Reinforcing Anchoring** – Penetrations thru a blindside waterproofing system to assist with the installation and securing of the rebar should be limited. The use of anchors or mechanical fasteners should be coordinated with and accepted by the Waterproofing Contractor whether penetrating the CCW Blindside System post membrane installation or installing prior to membrane installation.

**Shotcrete Design** – The structural shotcrete wall should be designed as per *ACI 506.2 – Specification for Shotcrete*.

**Shotcrete Placement** – The shotcrete should be placed as per *ACI 506R – Guide to Shotcrete* to provide properly consolidated shotcrete with the exception to the waterproofing specific precautions noted within this Technical Bulletin. The blindside waterproofing in the adjacent areas not receiving shotcrete should be protected from shotcrete, shotcrete overspray, shotcrete rebound and shotcrete dust/mist.

**Shotcrete Nozzleman** – Only “ACI-certified Shotcrete Nozzleman” may place shotcrete against the CCW Blindside Waterproofing Systems.

**Shotcrete Finishing** – Bracing, dowels, etc. used to install guide wires (i.e. screed wires) must not penetrate or damage the blindside waterproofing. The installation and removal of guide wires should be coordinated with and accepted by the Waterproofing Contractor.

*Footnotes:*

1. “ICRI” refers to the International Concrete Repair Institute, Inc.  
Website: [www.icri.org](http://www.icri.org) Phone: (651) 366-6095
2. “ACI” refers to the American Concrete Institute  
Website: [www.concrete.org](http://www.concrete.org) Phone: (248) 848-3700

Contact CCW Technical Services for more information at [ccwtech@carlisleccm.com](mailto:ccwtech@carlisleccm.com) or 888-229-2199.

This information is based on CCW test data, experience and knowledge considered to be true and accurate, and is provided to the user for their own consideration and validation. Refer to CCW Technical Data Sheets and Safety Data Sheets prior to use. No warranty or guarantee expressed or implied is given other than those required by law.