

ICC-ES Evaluation Report

ESR-5559

Reissued September 2026

Revised September 22, 2026

This report remains under an active [continuous compliance program](#) through the end of September 2027.

ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.

Copyright © 2026 ICC Evaluation Service, LLC. All rights reserved.

This report also contains:

- [City of LA Supplement](#)
- [FL Supplement](#)



DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION Section: 07 21 00 – Thermal Insulation Section 07 42 43— Composite Wall Panels	REPORT HOLDER: HYDROBLOK, INC. 	EVALUATION SUBJECT: HYDROBLOK PANELS	
--	---	--	---

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024 and 2021 [International Building Code® \(IBC\)](#)
- 2024 and 2021 [International Residential Code® \(IRC\)](#)

Properties evaluated:

- Structural
- Weather resistance
- Water drainage
- Surface-burning characteristics
- Fire-resistance-rated construction

2.0 USES

The HydroBlok Panels are used as nonload-bearing exterior wall backer panels on fire-resistance-rated Type V construction.

3.0 DESCRIPTION

3.1 General: The HydroBlok Panels are applied to wood framed exterior walls covered with oriented strand board (OSB) sheathing or gypsum sheathing and are considered as composite wall backer panels. The following components are applied over the sheathing: a proprietary water-resistive barrier; HydroBlok panel; a base coat with mesh tape over the HydroBlok panel seams and screws, where applicable; and a finish coat. See [Figure 1](#) for details.

3.2 Materials:

3.2.1 Structural Substrate: Substrates must be one of the following:

3.2.1.1 Exposure 1 plywood panel complying with DOC PS 1. The panel must have a minimum ½-inch (12 mm) thickness.

3.2.1.2 Oriented Strand Board (OSB) Sheathing Exposure 1 complying with DOC PS 2. The OSB must have a minimum 7/16-inch (12 mm) thickness.

3.2.1.3 Gypsum sheathing board complying with ASTM C1177 (Glass Mat Gypsum Sheathing). The board must have a minimum $\frac{5}{8}$ -inch (16 mm) thickness.

3.2.2 Water-resistive Barrier: The approved water-resistive barrier must consist of the following:

3.2.2.1 DuPont™ Tyvek® StuccoWrap®-Style 1062X, as referenced under current ICC-ES evaluation report [ESR-2375](#).

3.2.2.2 DuPont™ Tyvek® HomeWrap®-Style 1055B, as referenced under current ICC-ES evaluation report [ESR-2375](#).

3.2.3 HydroBlok Panel: The HydroBlok panel is a composite panel consisting of an extruded polystyrene (XPS) foam plastic core reinforced with a layer of fiberglass mesh embedded in a cementitious coating on both faces of the panel. The XPS foam plastic foam can be either Type IV with a minimum density of 1.45 lb/ft³ (23.2 kg/m³) or Type VI with a minimum density of 1.80 lb/ft³ (28.8 kg/m³) complying with ASTM C578. The XPS foam plastic core has a flame spread index of 25 or less and a smoke developed index of 450 or less, when tested in accordance with ASTM E84 / UL 723. The boards are available in 3 feet by 5 feet (914 mm by 1371 mm) and 4 feet by 8 feet (1219 mm by 2438 mm) panels and come in nominal thicknesses of $\frac{1}{2}$ -inch, 1-inch, 1 $\frac{1}{2}$ -inches, and 2-inches (12.7 mm, 25.4 mm, 38.1 mm, and 51 mm). The panel is approved under HydroBlok's quality documentation.

3.2.4 Mesh Tape: Minimum 4-inch (101mm) wide with a weight of 3 oz/yd² (102 g/m²). The mesh tape is approved under HydroBlok's quality documentation.

3.2.5 Base Coat: HydroBlok® Base Coat is a polymer modified one-component, seam, leveling coat and bonding adhesive used to cover over HydroBlok panel seams and joints and screw heads. The base coat is approved under HydroBlok's quality documentation.

3.2.6 Finish Coat: The Finish Coat is a factory-prepared acrylic polymer-based finish coat and is approved under HydroBlok's quality documentation.

4.0 DESIGN AND INSTALLATION

4.1 General:

The HydroBlok panels must be installed in accordance with the manufacturer's published installation instructions, and this report. A copy of the instructions must be available on the jobsite at all times during installation. In the event of a conflict between the manufacturer's published instructions and this report, this report governs.

For IBC Type V (combustible) construction and IRC construction, the framing members must be solid-sawn lumber having a minimum thickness and maximum spacing as specified in Section 4.3 of this report. Framing members must be designed to resist all positive and negative transverse loads.

The sheathing material must be $\frac{15}{32}$ -inch (12 mm) thick OSB, as specified in Section 3.2.1 of this report and must be fastened to the wood framing members in accordance with the applicable codes. An approved water resistive barrier, as described in Section 3.2.2 of this report, must be installed over the sheathing in accordance with the applicable provisions described in IBC Chapter 14 and IRC Chapter 7 and Section 4.2.2 of this report. Installation of flashing must be in accordance with IBC Section 1404.4 and IRC Section R703.4. Protection against condensation shall be provided in accordance with IBC Section 1404.3 and IRC Section R702.7, where required.

The HydroBlok panels must be fastened through the sheathing into the framing with minimum #8 x 1 $\frac{5}{8}$ inches (41 mm) long zinc flat head screws and 1 $\frac{1}{4}$ -inch diameter (32 mm) galvanized tabbed washers, where the screws and washers are fastened to the face of the HydroBlok panels spaced 16 inches (406 mm) on-center on the edges and 16 inches (406 mm) on-center in the field.

The Mesh tape and base coat must be applied over all HydroBlok panel seams, where the base coat must have a minimum thickness of $\frac{1}{8}$ -inch (3.2 mm) to conceal the mesh tape; the base coat must be applied over all screw heads to conceal and must be in accordance with products specified in Sections 3.2.4 and 3.2.5 of this report and the manufacturer's application instructions. The base coat must be allowed to cure as indicated in manufacturer's installation instructions.

The Finish Coat described in Section 3.2.6 of this report must be applied over the HydroBlok panels in accordance with the manufacturer's application instructions.

4.2 Drainage Performance: The DuPont™ Tyvek® StuccoWrap®-Style 1062X or DuPont™ Tyvek® HomeWrap®-Style 1055B must be installed over the substrate in accordance with Sections 4.2 of [ESR-2375](#).

4.2.1 System with Drainage with the DuPont™ Tyvek® StuccoWrap®-Style 1062X: The system consists of minimum $\frac{7}{16}$ -inch (11 mm) thick Exposure 1 oriented strand board (OSB) applied to wood stud framing spaced a maximum of 16 inches (406 mm) on-center and fastened in accordance with the requirements of IBC Chapter 23 or IRC Chapter 6. The OSB vertical board edges must butt over studs. The DuPont™ Tyvek® StuccoWrap®-Style 1062X must be installed as described in Section 4.2 of [ESR-2375](#), with minimum 1-inch-thick (25.4 mm) HydroBlok panels as described in Section 3.2.3 of this report are placed over the DuPont™ Tyvek® StuccoWrap®-Style 1062X and fastened to the sheathing along the HydroBlok panel edges and midway between the horizontal edges. The fastener spacing must not exceed 16 inches (406 mm) on-center along the HydroBlok panel edges. For midway locations, the fastener spacing must not exceed 16 inches (406 mm) on-center and fasteners must be located within 16 inches (406 mm) of the horizontal edges. Fasteners consist of wood screws sized to meet wind resistance requirements in Section 4.1 of this report, with minimum $\frac{1}{4}$ -inch-diameter (45 mm) plates or washers and penetrating a minimum of $\frac{1}{4}$ -inch (6.4 mm) through the sheathing. Weep screed, as set forth in IBC Section 2512.1.2 or IRC Section R703.6.2.1, must be installed. The base coat and finish coat must be installed over the HydroBlok panel in accordance with Section 4.1 of this report.

4.2.2 System with Drainage with the DuPont™ Tyvek® HomeWrap®-Style 1055B: The system consists of minimum $\frac{7}{16}$ -inch (11 mm) thick Exposure 1 oriented strand board (OSB) applied to wood stud framing spaced a maximum of 16 inches (406 mm) on-center and fastened in accordance with the requirements of IBC Chapter 23 or IRC Chapter 6. The OSB vertical board edges must butt over studs. The DuPont™ Tyvek® HomeWrap®-Style 1055B must be installed as described in Section 4.2 of [ESR-2375](#), with minimum 1-inch-thick (25.4 mm) HydroBlok panels as described in Section 3.2.3 of this report are placed over the DuPont™ Tyvek® HomeWrap®-Style 1055B and fastened to the sheathing along the HydroBlok panel edges and midway between the horizontal edges. The fastener spacing must not exceed 16 inches (406 mm) on-center along the HydroBlok panel edges. For midway locations, the fastener spacing must not exceed 16 inches (406 mm) on-center and fasteners must be located within 16 inches (406 mm) of the horizontal edges. Fasteners consist of wood screws sized to meet wind resistance requirements in Section 4.1 of this report, with minimum $\frac{1}{4}$ -inch-diameter (45 mm) plates or washers and penetrating a minimum of $\frac{1}{4}$ -inch (6.4 mm) through the sheathing. Weep screed, as set forth in IBC Section 2512.1.2 or IRC Section R703.6.2.1, must be installed. The base coat and finish coat must be installed over the HydroBlok panel in accordance with Section 4.1 of this report.

4.3 One-hour Fire-resistance-rated Construction:

4.3.1 Fire-resistance-rated Construction (both sides): The HydroBlok panels may be used as a component of a one-hour fire-resistance-rated nonload-bearing wall assembly tested in accordance with ASTM E119. The wall assembly consists of the following components:

4.3.1.1 Interior Wall Board: Minimum $\frac{5}{8}$ -inch (16 mm) thick Type X gypsum wall board conforming to ASTM C1396. The boards are oriented vertically where the long edges are installed to the framing. The boards are fastened to the nominal 2 by 4 wood studs using #6 x $1\frac{1}{4}$ inches (32 mm) long bugle head Type W drywall screws spaced 8 inches (203 mm) on-center along the perimeter and 12 inches (305 mm) on-center in the field. All joints are covered using paper joint tape and joint compound; and all screw heads were covered with joint compound.

4.3.1.2 Wall Framing: Minimum nominal 2 by 4 wood studs with a specific gravity of 0.55, spaced 16 inches (406 mm) on-center and 12 inches (305 mm) edge to center. The studs are connected to the single bottom plate and double top plate consisting of the same minimum 2 by 4 wood studs with a specific gravity of 0.55. The studs are fastened to the plates with 0.131-inch diameter x 3 inches (3.3 mm dia. x 76 mm) long smooth shank framing nails complying with ASTM F1667. Staggered mid-height full depth blocking, and non-staggered full depth blocking was installed 2 feet (0.61 m) from the bottom of the wall framing. The blocking was fastened to the studs using with 0.131-inch diameter x 3 inches (3.3 mm dia. x 76 mm) long smooth shank framing nails complying with ASTM F1667.

4.3.1.3 Exterior Sheathing Minimum $\frac{5}{8}$ -inch (16 mm) thick Type X glass-mat exterior sheathing complying with ASTM C1177, as detailed in Section 3.2.1 of this report. The sheathing is oriented vertically where the long edges are installed to the framing. The sheathing is fastened to the nominal 2 by 4 wood studs using #6 x $1\frac{1}{4}$ inches (32 mm) long bugle head Type S drywall screws spaced 8 inches (203 mm) on-center along the perimeter and 12 inches (305 mm) on-center in the field.

4.3.1.4 Water-resistive Barrier (WRB): DuPont Tyvek StuccoWrap as detailed in Section 3.2.2.1 of this report. The WRB is installed horizontally over the exterior finish, with the seams sealed with $1\frac{7}{8}$ -inch (48 mm) wide housewrap tape and installed per the manufacturer's approved installation instructions.

4.3.1.5 HydroBlok Panel: Minimum one layer of ½-inch (13 mm) thick HydroBlok Panels as detailed in Section 3.2.3 of this report, oriented horizontally. The #9 x 2 ½ inches (64 mm) long screws are used with 1¼ inch (32 mm) diameter galvanized tabbed washers and driven through the HydroBlok panels, WRB, exterior sheathing and into the wood studs.

4.3.1.6 Mesh Tape: Minimum 4 inches (102 mm) wide HydroBlok mesh tape as described in Section 3.2.4 of this report is applied to all joints of the HydroBlok panels and manufacturer's approved installation instructions.

4.3.1.7 Base Coat: An exterior base coat is applied as detailed in Section 3.2.5 of this report. The screw head and washers are treated with the same exterior base coat per the manufacturer's approved installation instructions.

4.3.1.8 Finish Coat: An exterior stucco finish as detailed in Section 3.2.6 of this report is applied over the entire surface per the manufacturer's approved installation instructions.

4.4 Wind Resistance: The wall framing and sheathing members must be designed to resist all positive and negative transverse loads and must comply with and be designed in accordance with the applicable code. The HydroBlok panels, when installed in accordance with Section 4.1 of this report, can resist the allowable transverse loads listed in [Table 1](#).

5.0 CONDITIONS OF USE:

The HydroBlok Panels described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Installation must comply with this report, the manufacturer's published application instructions, installation details and the applicable code. In the event of a conflict between the manufacturer's instructions and this report, this report governs.
- 5.2** The HydroBlok panels must be separated from the building interior by a thermal barrier complying with the applicable code.
- 5.3** Termination of the HydroBlok panels must not be less than 6 inches (152 mm) above finished grade, in accordance with IBC Section 2603.8 and 2024 IRC Section R305.4 and 2021 IRC Section R318.4.
- 5.4** The HydroBlok panels are manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1** Reports of corrosion resistance testing in accordance with ASTM B117.
- 6.2** Reports of water resistance testing in accordance with ASTM D2247.
- 6.3** Reports of surface-burning characteristics testing in accordance with ASTM E84.
- 6.4** Reports of fire-resistance rate testing in accordance with ASTM E119.
- 6.5** Reports of transverse load testing in accordance with ASTM E330, Procedure B.
- 6.6** Reports of water penetration testing in accordance with ASTM E331.
- 6.7** Reports of tensile adhesion bond testing in accordance with ASTM E2134.
- 6.8** Reports of freeze thaw testing in accordance with ASTM E2485.
- 6.9** Reports of accelerated weathering testing in accordance with ASTM G155.
- 6.10** Reports of drainage performance testing in accordance with ASTM E2273.
- 6.11** Quality documentation in accordance with ICC-ES Acceptance Criteria for Quality Documentation (AC10).

7.0 IDENTIFICATION

- 7.1** The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-5559) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.
- 7.2** In addition, the HydroBlok panel, base coat and mesh tape must be identified by a product label bearing the identification of the manufacturing facility, production date and/or lot number and product name.

7.3 The report holder's contact information is the following:

HYDROBLOK, INC.
121 WEST ELECTION ROAD
DRAPER, UTAH 84020
(866) 382-2137
www.hydroblok.com
briand@hydroblok.com

TABLE 1—ALLOWABLE TRANSVERSE LOADS

System	SHEATHING AND FRAMING			ALLOWABLE TRANSVERSE LOADS (psf)		
	Sheathing Type	Framing Type ¹	Maximum Framing Spacing (in.)	Deflection Limits	Positive	Negative
HydroBlok panels when installed as a component of a wall assembly ³	½-inch thick plywood ⁴ or 7/16-inch thick OSB ⁴ or 15/32-inch thick OSB ⁴	Wood ²	16	L/360	34.2	29.7
				L/240	46.9	40.9
				ULTIMATE / 3	55.2	53.2

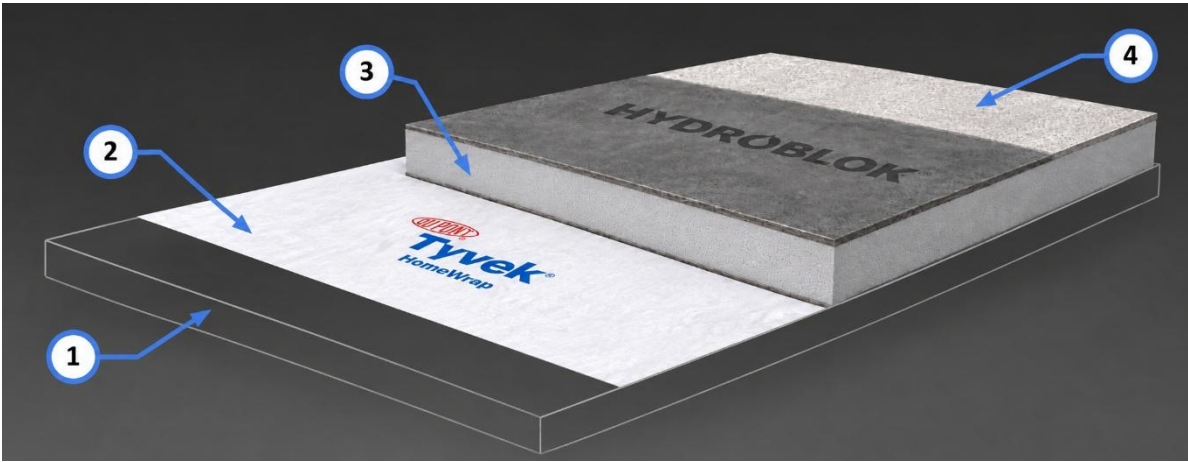
For SI: 1 inch = 25.4 mm, 1 psf = 47.88 Pa, 1 ksi = 6.894757 x 10+⁶ Pa.

¹Framing members shall be designed to comply with strength and stiffness requirements of the applicable code.

²Wood framing is nominal 2 by 4 studs with a minimum specific gravity of 0.42.

³The wall assembly consists of components as described in [Figure 1](#).

⁴The sheathing details are in Sections 3.2.1.1 and 3.2.1.2 of this report.



Notes:
1 – Sheathing as defined in Sections 3.2.1.1 and 3.2.1.2 of this report.
2 – DuPont Tyvek as defined in Sections 3.2.2.1 and 3.2.2.2 of this report.
3 – HydroBlok Panel as defined in Section 3.2.3 of this report.
4 – Base Coat as defined in Section 3.2.5 of this report and Finish Coat as defined in Section 3.2.6 of this report.
Not shown – nominal 2 by 4 wood studs with a minimum specific gravity of 0.42.

FIGURE 1 — HYDROBLOK PANEL AS A COMPONENT OF A WALL ASSEMBLY

ICC-ES Evaluation Report

ESR-5559 City of LA Supplement

Reissued September 2026

Revised September 22, 2026

This report remains under an active [continuous compliance program](#) through the end of September 2027.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 21 00—Thermal Insulation

Section 07 42 43—Composite Wall Panels

REPORT HOLDER:

HYDROBLOK, INC.

EVALUATION SUBJECT:

HYDROBLOK PANELS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the HydroBlok Panels, described in ICC-ES evaluation report [ESR-5559](#), have also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:

- 2026* City of Los Angeles Building Code ([LABC](#))
- 2026* City of Los Angeles Residential Code ([LARC](#))

*For evaluation for compliance with the anticipated requirements of the 2026 LABC and LARC.

2.0 CONCLUSIONS

The HydroBlok Panels, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5559](#), comply with the LABC Chapters 14 and 26, and the LARC Chapters 3 and 7, and are subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The HydroBlok Panels described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-5559](#).
- The design, installation, conditions of use and identification of the HydroBlok Panels are in accordance with the 2024 *International Building Code*® (IBC) and 2024 *International Residential Code*® (IRC) provisions, as applicable, noted in the evaluation report [ESR-5559](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 14, 16 and 17 or LARC Chapter 7, as applicable.
- Under the LARC, an engineered design in accordance with LARC Section R301.1.3 must be submitted.

This supplement expires concurrently with the evaluation report, reissued September 2026 and revised September 22, 2026.

This report remains under an active [continuous compliance program](#) through the end of September 2027.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 21 00—Thermal Insulation

Section: 07 42 43—Composite Wall Panels

REPORT HOLDER:

HYDROBLOK, INC.

EVALUATION SUBJECT:

HYDROBLOK PANELS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that HydroBlok Panels, described in ICC-ES evaluation report [ESR-5559](#), have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2026 and 2023 *Florida Building Code—Building*
- 2026 and 2023 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The HydroBlok Panels, described in Sections 2.0 through 7.0 of ICC-ES evaluation report [ESR-5559](#), complies with the *Florida Building Code—Building* and the *Florida Building Code—Residential*. The design requirements must be determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report [ESR-5559](#) for the 2024 and 2021 *International Building Code*® meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable, with the following conditions:

1. For use within 3,000 feet of a saltwater coastline under the 2026 *Florida Building Code—Building* or the 2026 *Florida Building Code—Residential*, fasteners and connectors must comply with Section 1711 and Table 1711.1 of the 2026 *Florida Building Code—Building* or Section R332 and Table R332.1 of the 2026 *Florida Building Code—Residential*, as applicable.
2. Installation must meet the requirements of Section 1403.8 and 2603.8 of the *Florida Building Codes—Building* and Section R318.7 and R318.8 of the *Florida Building Code—Residential*, as applicable.
3. Installation of flashing must be in accordance with Section 1405.4 of the *Florida Building Code—Building* and Section R703.4 of the *Florida Building Code—Residential*. Protection against condensation shall be provided in accordance with IBC Section 1405.3 of the *Florida Building Code—Building* and Section R702.7 of the *Florida Building Code—Residential*, where required.

Use of the HydroBlok Panels for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* or the *Florida Building Code—Residential* has not been evaluated and is outside the scope of this supplemental report.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission). Florida Rule 61G20-3 is applicable to products and/or systems which comprise the building envelope and structural frame for compliance with the structural requirements of the *Florida Building Code*.

This supplement expires concurrently with the evaluation report, reissued September 2026 and revised September 22, 2026.