



LISTING REPORT

Number: UEL-5074

Originally Issued: 07/28/2026

Valid Through: 07/31/2027

US MGO COMPANY
4500 Morris Park Drive
Mint Hill, NC 28227

www.us-mgo.com

1/2-INCH INNOVATION MGO™ WALL PANELS

3/4-INCH INNOVATION MGO™ SUBFLOOR PANELS

1/2-INCH INNOVATION MGO™ FLOOR PANELS

CSI Sections:

06 00 00—Wood, Plastics, and Composite

06 16 00—Sheathing

09 28 15—Magnesium Oxide Backing Panels

1.0 RECOGNITION

US MgO Company's INNOVATION MgO™ Panels, described in this report, were evaluated for use as wall, subfloor, and floor panels. The fire-resistance and fire propagation characteristics of the INNOVATION MgO™ panels comply with the intent of the provisions of the following standards and regulations:

- ASTM E119-24 Standard Test Methods for Fire Tests of Building Construction and Materials
- CAN/ULC-S101-14 Standard Methods of Fire Endurance Tests of Building Construction and Materials
- UL 263-11 (with revisions through August 2021) Fire Tests of Building Construction and Materials
- NFPA 285-23 Standard Fire Test Method for the Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components

2.0 LIMITATIONS

Use of the INNOVATION MgO™ Panels recognized in this listing report and subsequent design listings are subject to the following limitations:

2.1 The use of IAPMO UES UEL-5074 and the subsequent design listings assemblies require approval of the building official.

2.2 The maximum design load conditions used for the subsequent listed fire-resistance-rated assemblies were determined in accordance with applicable nationally recognized structural design criteria as required by ASTM E119. Design loads were determined in accordance with Allowable Stress Design (ASD).

3.0 FINDINGS

US MgO Company's INNOVATION MgO™ Panels used as described in Design Listing Nos. UEL-5074-1 through UEL-5074-14 have been evaluated to meet the requirements and intent of the provisions of the standards detailed for each subsequent design listing.

3.1 Fire-Resistance Ratings: The fire-resistance ratings for the assemblies detailed in this listing are for both sides of the assemblies unless specifically detailed in the design listing.

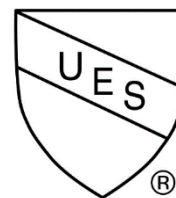
3.2 Installation: Installation of INNOVATION MgO Wall Panels shall be installed in accordance with this report, the approved project construction documents, US MgO Installation Manual, and the applicable code. If there are any conflicts, the most restrictive requirements shall govern. The US MgO™ installation guide, this report, and the approved plans shall be available at the job site during installation for quality control purposes.

4.0 PRODUCT DESCRIPTION

INNOVATION MgO™ Wall Panels are composed of a proprietary magnesium oxychloride (MOC) cement formula and other inorganic materials. The wall panels have a nominal thickness of ½-inch (12 mm actual) and square edges. The subfloor panels have a nominal thickness of ¾-inch (19 mm actual) and incorporate tongue-and-groove interlocking along all panel edges. The floor panels have a nominal thickness of ½-inch (12 mm actual) and square edges. All panels are 4 feet (1219 mm) wide by 8 feet (2438 mm) long.

5.0 IDENTIFICATION

US MgO Company's INNOVATION MgO™ Panels are identified by the US MgO Company name and product name, and listing report number (IAPMO UES UEL-5074). The Uniform Evaluation Service Mark of Conformity may also be used as shown below.



IAPMO UES UEL-5074

6.0 SUBSTANTIATING DATA

6.1 Test Reports in accordance with ASTM E119-24 Standard Test Methods for Fire Tests of Building Construction and Materials.

The products and systems described in this Uniform Evaluation Service (UES) Listing Report have been evaluated for conformance with the references described herein. This document shall only be reproduced in its entirety.

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6.2 Test Reports in accordance with CAN/ULC-S101-14 Standard Methods of Fire Endurance Tests of Building Construction and Materials.

6.3 Test Reports in accordance with UL 263-11 (with revisions through August 2021) Fire Tests of Building Construction and Materials.

6.4 Test Reports in accordance with NFPA 285-23 Standard Fire Test Method for the Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components.

6.5 Third party engineering analyses for tested fire-performance assemblies.

6.6 Test reports are from Laboratories in compliance with ISO/IEC 17025.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research carried out by IAPMO Uniform Evaluation Service on US MgO Company's INNOVATION MgO™ Panels to assess conformance to the standards shown in Section 1.0 of this report and serves as documentation of the product certification. Products are manufactured under a quality control program with periodic inspection under the supervision of IAPMO UES.

For additional information about this listing report please visit www.uniform-es.org or email us at info@uniform-es.org



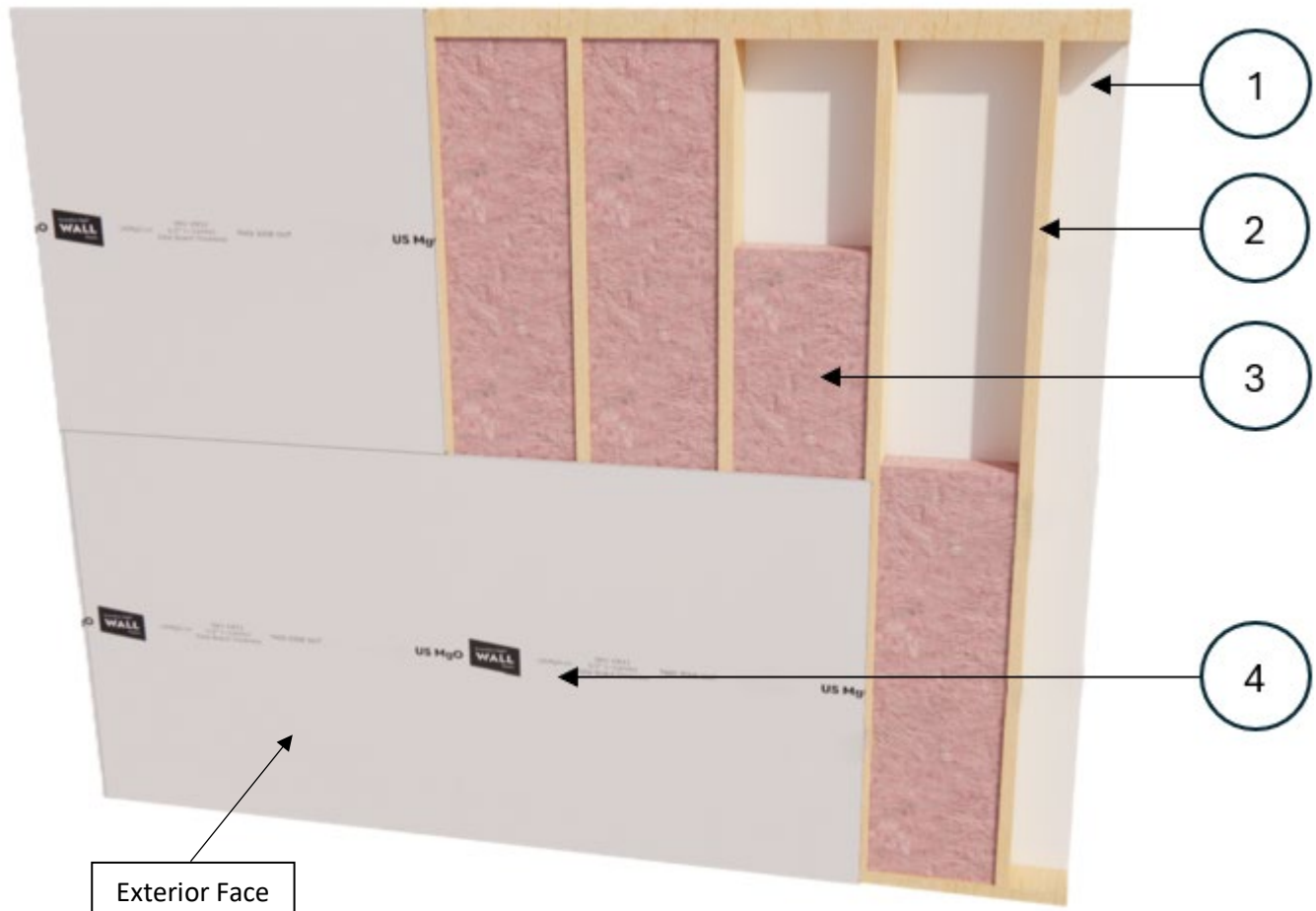
LISTING REPORT

Number: UEL-5074-1

Originally Issued: 07/28/2026

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US MGO COMPANY
1/2-INCH INNOVATION MGO™ WALL PANELS
ASTM E119, UL 263, CAN/ULC-S101
Rating: 1-Hour, Loadbearing Wall Assembly - 100% Design Load





LISTING REPORT

Number: UEL-5074-1

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Assembly Details		
Item #	Component	Material Details
1	Interior Sheathing	Fasten a single layer of ASTM C1396 Type X or Type C gypsum wallboard at least $\frac{5}{8}$ inch (15.9 mm) thick directly to the framing on the interior face of the wall using Type W bugle-head steel screws at least $1\frac{5}{8}$ inches (41.3 mm) long (achieving a minimum 1-inch (25.4 mm) penetration into the framing), placed 8 inches (203.2 mm) on center around the perimeter and in the field. Install the wallboards vertically, with all vertical seams on studs and offset between opposite faces of the wall. All seams receive two coats of joint compound over nominal 2-inch (50.8 mm) wide paper tape bedded in the first coat, and each fastener head is covered with one coat of joint compound to provide a Level 2 finish in accordance with ASTM C840. If resilient channels are used (Item 6), the gypsum boards are instead attached to the channels with 1-inch (25.4 mm) long No. 6 Type S bugle-head screws spaced 8 inches (203.2 mm) on center along each channel. Install the boards oriented vertically, with every vertical seam centered on a stud.
2	Wood Framing	Framing consists of minimum 2-by-4 (nominal) (38 mm by 89 mm) wood studs with a controlling slenderness ratio (l/d) not exceeding 33, set at a maximum spacing of 24 inches (609.6 mm) on center, with weak-axis blocking provided. Fasten studs to the top and bottom plates using 3-inch (76.2 mm) long, 0.131-inch (3.33 mm) diameter smooth-shank framing nails. Add a second top plate over the first and attach it with 3-inch (76.2 mm) long, 0.131-inch (3.33 mm) diameter nails placed 16 inches (406.4 mm) on center. Position full-depth blocking between every stud at 24 inches (609.6 mm) down from the top of the wall and 24 inches (609.6 mm) up from the bottom of the wall, and secure with the same 3-inch (76.2 mm) long, 0.131-inch (3.33 mm) diameter nails.
3	Cavity Insulation (A or B)	A. Fiberglass batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a $FSI \leq 25$ and $SDI \leq 450$ or as noncombustible per ASTM E136, with a nominal thickness of $3\frac{1}{2}$ inches (88.9 mm), friction-fit into each stud bay. The batt thickness shall equal the depth of the stud cavity. B. Mineral wool insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a $FSI \leq 25$ and $SDI \leq 450$ or as noncombustible per ASTM E136, with a nominal thickness of $3\frac{1}{2}$ inches (88.9 mm) and a minimum density of 2.0 pcf (32 kg/m³), friction-fit into each stud bay. The batt thickness shall equal the depth of the stud cavity.
4	Exterior Sheathing	Fasten a single layer of nominal $\frac{1}{2}$-inch (12 mm actual) INNOVATION MgO™ Wall Panels directly to the framing on the exterior face of the wall using No. 8 coarse-thread, flat wafer-head cement board screws at least $1\frac{5}{8}$ inches (41.3 mm) long, placed 8 inches (203.2 mm) on center around the perimeter and in the field. Install panels either vertically or horizontally across the studs. All vertical seams shall be on studs and be offset by at least one stud bay between opposite faces of the wall, while every horizontal seam shall be backed by blocking and offset by at least 12 inches (304.8 mm) between opposite faces. Panel edge joints may be left exposed without joint compound, and fastener heads may remain exposed.
5	Exterior Cladding (Optional, Not Shown)	Exterior claddings added to the assembly shall be approved by the building official or Authority Having Jurisdiction (AHJ). The exterior cladding shall be installed in accordance with that exterior cladding manufacturer's installation instructions.
6	Resilient Channel (Optional, Not Shown)	Install galvanized steel resilient channel, at least No. 25 gauge (18 mils) thick, run perpendicular to the framing on the interior face of the wall only, at a maximum vertical spacing of 24 inches (609.6 mm) on center. Fasten each channel at every stud with No. 8 Type W bugle-head screws at least $1\frac{1}{2}$ inches (38.1 mm) long.



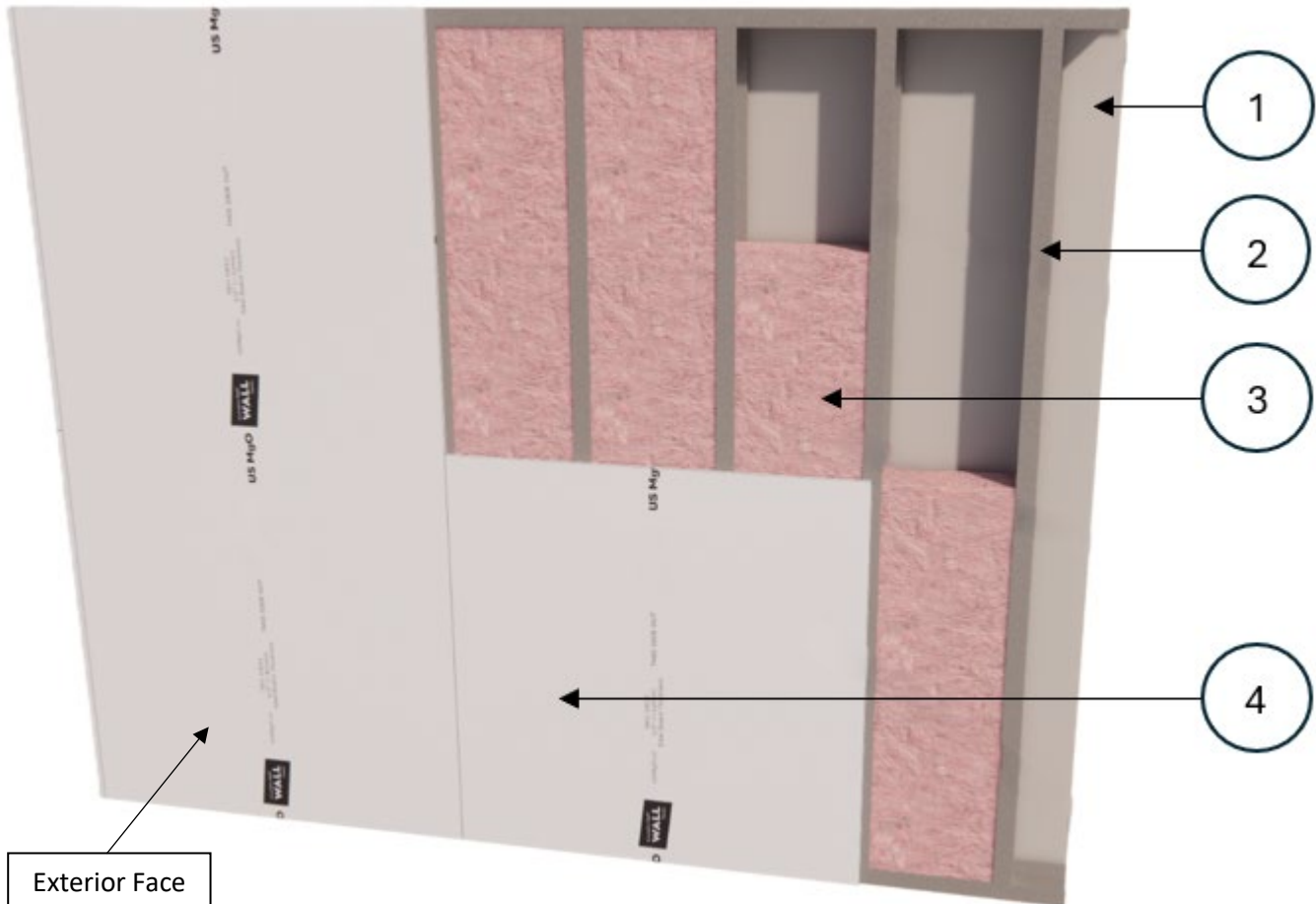
LISTING REPORT

Number: UEL-5074-2

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US MGO COMPANY
1/2-INCH INNOVATION MGO™ WALL PANELS
ASTM E119, UL 263, CAN/ULC-S101
Rating: 1-Hour, Loadbearing Wall Assembly - 100% Design Load





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Number: **UEL-5074-2**

Originally Issued: 07/28/2026

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Assembly Details		
Item #	Component	Material Details
1	Interior Sheathing	Fasten a single layer of ASTM C1396 Type X or Type C gypsum wallboard at least $\frac{5}{8}$ inch (15.9 mm) thick directly to the framing on the interior face of the wall using Type S bugle-head steel screws at least $1\frac{5}{8}$ inches (41.3 mm) long (achieving a minimum 1-inch (25.4 mm) penetration into the framing), placed 8 inches (203.2 mm) on center around the perimeter and in the field. Install the wallboards vertically, with all vertical seams on studs and offset between opposite faces of the wall. All seams receive two coats of joint compound over nominal 2-inch (50.8 mm) wide paper tape bedded in the first coat, and each fastener head is covered with one coat of joint compound to provide a Level 2 finish in accordance with ASTM C840. If resilient channels are used (Item 6), the gypsum boards are instead attached to the channels with 1-inch (25.4 mm) long No. 6 Type S bugle-head screws spaced 8 inches (203.2 mm) on center along each channel. Install the boards oriented vertically, with every vertical seam centered on a stud.
2	Cold-Formed Steel Structural Members	Framing consists of corrosion-protected or galvanized C-shaped steel studs at least $3\frac{5}{8}$ inches (92 mm) deep and a minimum No. 20 gauge (33 mils) thick, with a controlling slenderness ratio (l/d) not exceeding 37, spaced no more than 24 inches (609.6 mm) on center and braced at mid-height in the weak-axis direction. Fasten studs to top and bottom track of matching gauge using $\frac{1}{2}$-inch (12.7 mm) long No. 8 wafer-head self-drilling screws. Studs shall have flanges of at least $1\frac{1}{8}$ inches (41.3 mm) with a $\frac{1}{2}$-inch (12.7 mm) return. Mid-height bracing is provided by galvanized steel channels of at least No. 16 gauge (54 mils) with $1\frac{1}{2}$-inch (38.1 mm) flanges and $\frac{1}{2}$-inch (12.7 mm) legs, run between each stud and connected at both ends to No. 16 gauge (54 mils) galvanized steel angles measuring $1\frac{1}{2}$ inches by $1\frac{1}{2}$ inches (38.1 mm by 38.1 mm), each angle fastened with two $\frac{1}{2}$-inch (12.7 mm) long No. 8 pan-head self-drilling screws. Blocking at horizontal sheathing seams is provided by steel flat strapping plates with minimum dimensions of 4 inches (101.6 mm) wide and No. 20 gauge (33 mils) thick, installed between each stud 24 inches (609.6 mm) from the top of the wall and 24 inches (609.6 mm) from the bottom of the wall, and secured with two $\frac{1}{2}$-inch (12.7 mm) Type S-12 low-profile pan-head screws.
3	Cavity Insulation (A or B)	A. Fiberglass batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a nominal thickness of $3\frac{5}{8}$ inches (92.1 mm), friction-fit into each stud bay. The batt thickness shall equal the depth of the stud cavity. B. Mineral wool insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a nominal thickness of $3\frac{5}{8}$ inches (92.1 mm) and a minimum density of 2.0 pcf (32 kg/m³), friction-fit into each stud bay. The batt thickness shall equal the depth of the stud cavity.
4	Exterior Sheathing	Fasten a single layer of nominal $\frac{1}{2}$-inch (12 mm actual) INNOVATION MgO™ Wall Panels directly to the framing on the exterior face of the wall using No. 8 fine-thread, flat wafer-head cement board screws at least $1\frac{1}{8}$ inches (41.3 mm) long, placed 8 inches (203.2 mm) on center around the perimeter and in the field. Install



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		panels either vertically or horizontally across the studs. All vertical seams shall be on studs and be offset by at least one stud bay between opposite faces of the wall, while every horizontal seam shall be backed by blocking and offset by at least 12 inches (304.8 mm) between opposite faces. Panel edge joints may be left exposed without joint compound, and fastener heads may remain exposed.
5	Exterior Cladding (Optional, Not Shown)	Exterior claddings added to the assembly shall be approved by the building official or Authority Having Jurisdiction (AHJ). The exterior cladding shall be installed in accordance with that exterior cladding manufacturer's installation instructions.
6	Resilient Channel (Optional, Not Shown)	Install galvanized steel resilient channel, at least No. 25 gauge (18 mils) thick, run perpendicular to the framing on the interior face of the wall only, at a maximum vertical spacing of 24 inches (609.6 mm) on center. Fasten each channel at every stud with No. 8 Type S bugle-head screws at least 1½ inches (38.1 mm) long.



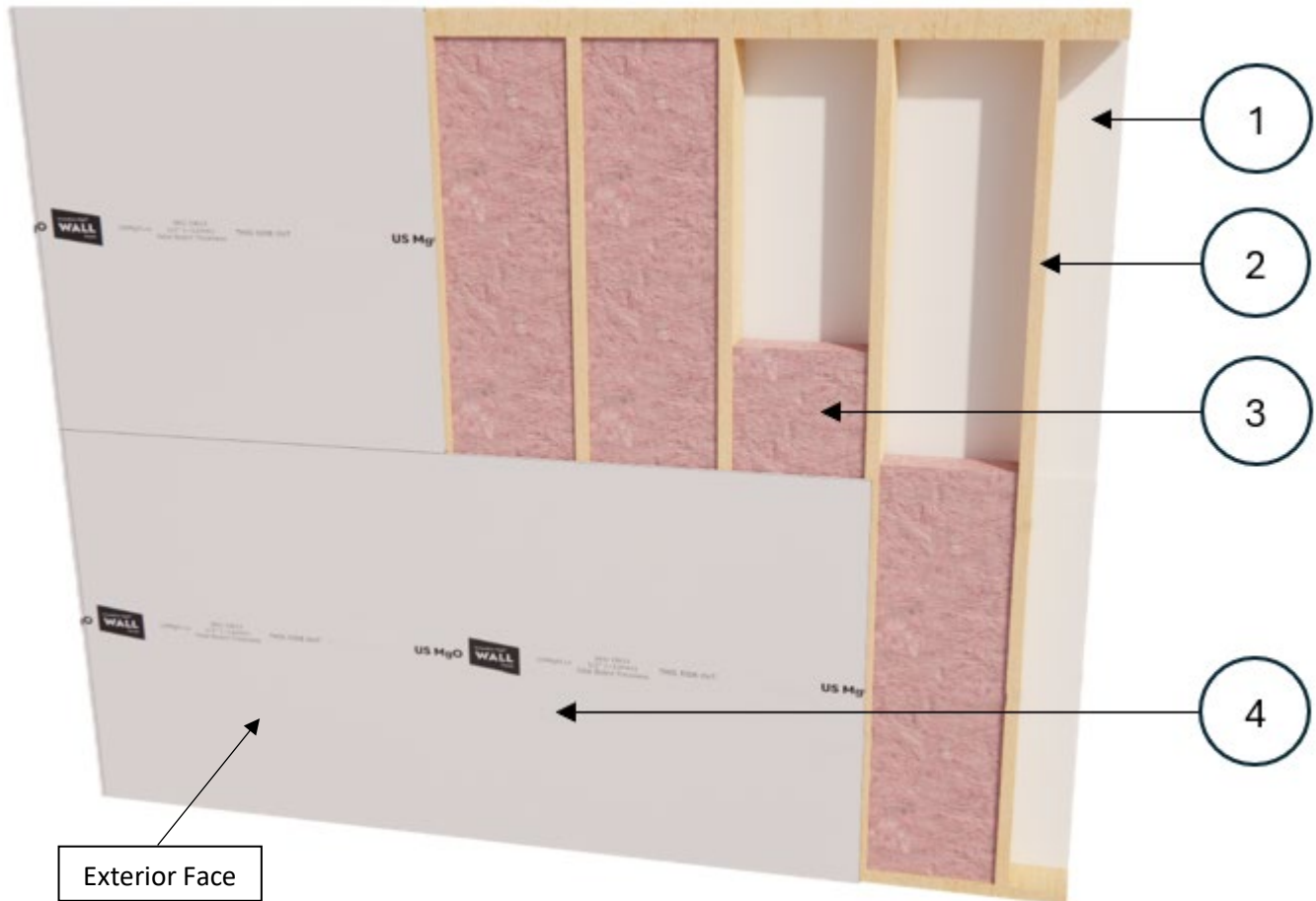
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Number: UEL-5074-3

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US MGO COMPANY
1/2-INCH INNOVATION MGO™ WALL PANELS
ASTM E119, UL 263, CAN/ULC-S101
Rating: 2-Hour from Interior Face, 1-Hour from Exterior Face,
Loadbearing Wall Assembly - 100% Design Load





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Number: **UEL-5074-3**

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Assembly Details		
Item #	Component	Material Details
1	Interior Sheathing (A or B)	A. Interior Sheathing (MgO): Apply two layers of nominal ½-inch (12 mm actual) INNOVATION MgO™ Wall Panels directly to the framing on the interior face. Fasten the base layer with No. 8 coarse-thread, flat wafer-head cement board screws at least 1¼ inches (31.8 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and in the field. Install panels either vertically or horizontally; all vertical seams shall be on studs and be offset by at least one stud bay between opposite faces, and each horizontal seam shall be backed by blocking and offset by at least 12 inches (304.8 mm) between opposite faces. Fasten the face layer, with its vertical and horizontal joints offset from the base layer, with No. 8 coarse-thread, flat wafer-head cement board screws at least 1⅝ inches (41.3 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and in the field, and offset 4 inches (101.6 mm) from the base-layer screws. Install panels either vertically or horizontally; all vertical seams shall be on studs and be offset by at least one stud bay between opposite faces. Panel edge joints may be left exposed without joint compound, and fastener heads may remain exposed. B. Interior Sheathing (GWB): Apply two layers of ASTM C1396 Type X or Type C gypsum wallboard at least ⅝ inch (15.9 mm) thick directly to the framing on the interior face. Fasten the base layer with Type W screws at least 1⅝ inches (34.9 mm) long (minimum ¾-inch (19.1 mm) penetration into the framing), spaced 8 inches (203.2 mm) on center around the perimeter and in the field. Install the boards vertically, with all vertical seams on studs and offset between opposite faces. Fasten the face layer, with its vertical joints offset from the base layer, using Type W screws at least 1⅝ inches (47.6 mm) long (minimum ⅝-inch (15.9 mm) penetration into the framing), spaced 8 inches (203.2 mm) on center around the perimeter and in the field, and offset 4 inches (101.6 mm) from the base-layer screws. Install the boards vertically, with all vertical seams on studs and offset by at least one stud bay between opposite faces. All face-layer edge joints receive two coats of joint compound over nominal 2-inch (50.8 mm) wide paper tape bedded in the first coat, and every fastener head is covered with one coat of joint compound to provide a Level 2 finish in accordance with ASTM C840.
2	Wood Framing	Framing consists of minimum 2-by-4 (nominal) (38 mm by 89 mm) wood studs with a controlling slenderness ratio (l_e/d) not exceeding 33, set at a maximum spacing of 24 inches (609.6 mm) on center, with weak-axis blocking provided. Studs are fastened to the top and bottom plates using 3-inch (76.2 mm) long, 0.131-inch (3.33 mm) diameter smooth-shank framing nails. Add a second top plate over the first and attach it with 3-inch (76.2 mm) long, 0.131-inch (3.33 mm) diameter nails placed 16 inches (406.4 mm) on center. Position full-depth blocking between every stud at 24 inches (609.6 mm) down from the top of the wall and 24 inches (609.6 mm) up from the bottom of the wall, secured with the same 3-inch (76.2 mm) long, 0.131-inch (3.33 mm) diameter nails.
3	Cavity Insulation (A or B)	A. Fiberglass batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a nominal thickness of 3½ inches



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		(88.9 mm), friction-fit into each stud bay. The batt thickness shall equal the depth of the stud cavity. B. Mineral wool insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a nominal thickness of 3½ inches (88.9 mm) and a minimum density of 2.0 pcf (32 kg/m³), friction-fit into each stud bay. The batt thickness shall equal the depth of the stud cavity.
4	Exterior Sheathing	Fasten a single layer of nominal ½-inch (12 mm actual) INNOVATION MgO™ Wall Panels directly to the framing on the exterior face of the wall using No. 8 coarse-thread, flat wafer-head cement board screws at least 1⅝ inches (41.3 mm) long, placed 8 inches (203.2 mm) on center around the perimeter and in the field. Install panels either vertically or horizontally across the studs. All vertical seams shall be on studs and be offset by at least one stud bay between opposite faces of the wall, while every horizontal seam shall be backed by blocking and offset by at least 12 inches (304.8 mm) between opposite faces. Panel edge joints may be left exposed without joint compound, and fastener heads may remain exposed.
5	Exterior Cladding (Optional, Not Shown)	Exterior claddings added to the assembly shall be approved by the building official or Authority Having Jurisdiction (AHJ). The exterior cladding shall be installed in accordance with that exterior cladding manufacturer's installation instructions.



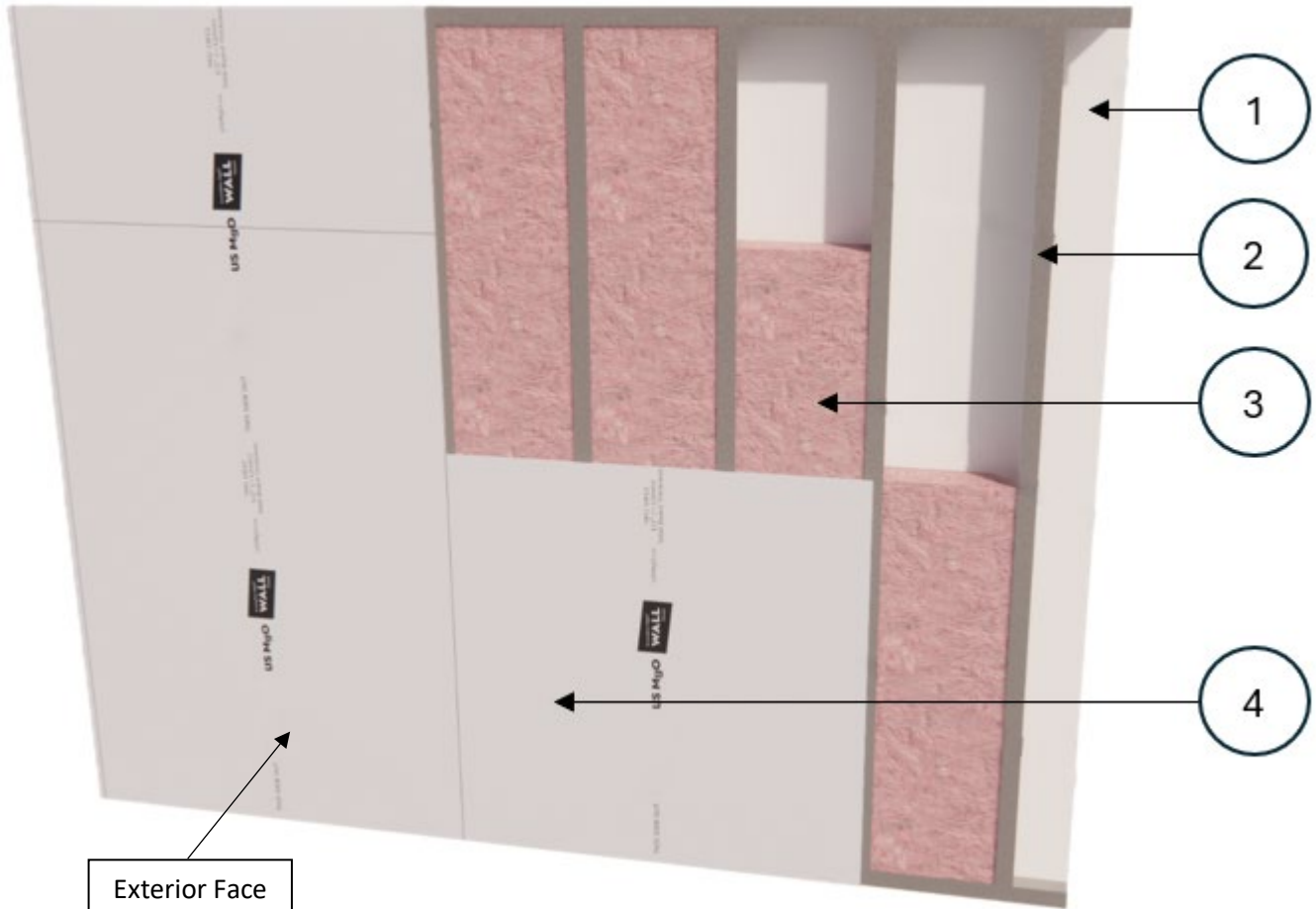
LISTING REPORT

Number: UEL-5074-4

Originally Issued: 07/28/2026

Valid Through: 07/31/2027

US MGO COMPANY
1/2-INCH INNOVATION MGO™ WALL PANELS
ASTM E119, UL 263, CAN/ULC-S101
Rating: 2-Hour from Interior Face, 1-Hour from Exterior Face,
Loadbearing Wall Assembly - 100% Design Load





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Number: **UEL-5074-4**

Originally Issued: 07/28/2026

Valid Through: 07/31/2027

Assembly Details		
Item #	Component	Material Details
1	Interior Sheathing (A or B)	A. Interior Sheathing (MgO): Apply two layers of nominal ½-inch INNOVATION MgO™ Wall Panels directly to the framing on the interior face. Fasten the base layer with No. 8 fine-thread, flat wafer-head cement board screws at least 1¼ inches (31.8 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and in the field. Install panels either vertically or horizontally; all vertical seams shall be on studs and be offset by at least one stud bay between opposite faces, and each horizontal seam shall be backed by blocking and offset by at least 12 inches (304.8 mm) between opposite faces. Fasten the face layer, with its vertical and horizontal joints offset from the base layer, using No. 8 fine-thread, flat wafer-head cement board screws at least 1⅝ inches (41.3 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and in the field, and offset 4 inches (101.6 mm) from the base-layer screws. Install panels either vertically or horizontally; all vertical seams shall be on studs and be offset by at least one stud bay between opposite faces. Panel edge joints may be left exposed without joint compound, and fastener heads may remain exposed. B. Interior Sheathing (GWB): Apply two layers of ASTM C1396 Type X or Type C gypsum wallboard at least ⅝ inch (15.9 mm) thick directly to the framing on the interior face. The base layer is fastened with Type S screws at least 1⅝ inches (34.9 mm) long (minimum ¾-inch (19.1 mm) penetration into the framing), spaced 8 inches (203.2 mm) on center around the perimeter and in the field. Install the boards vertically, with all vertical seams on studs and offset between opposite faces. Fasten the face layer, with its vertical joints offset from the base layer, using Type S screws at least 1⅝ inches (47.6 mm) long (minimum ⅝-inch (15.9 mm) penetration into the framing), spaced 8 inches (203.2 mm) on center around the perimeter and in the field, and offset 4 inches (101.6 mm) from the base-layer screws. Install the boards vertically, with all vertical seams on studs and offset by at least one stud bay between opposite faces. All face-layer edge joints receive two coats of joint compound over nominal 2-inch (50.8 mm) wide paper tape bedded in the first coat, and every fastener head is covered with one coat of joint compound to provide a Level 2 finish in accordance with ASTM C840.
2	Cold-Formed Steel Structural Members	Framing consists of corrosion-protected or galvanized C-shaped steel studs at least 3⅝ inches (92 mm) deep and a minimum No. 20 gauge (33 mils) thick, with a controlling slenderness ratio (l/d) not exceeding 37, spaced no more than 24 inches (609.6 mm) on center and braced at mid-height in the weak-axis direction. Fasten studs to top and bottom track of matching gauge using ½-inch (12.7 mm) long No. 8 wafer-head self-drilling screws and shall have flanges of at least 1⅝ inches (41.3 mm) with a ½-inch (12.7 mm) return. Mid-height bracing is provided by galvanized steel channels of at least No. 16 gauge (54 mils) with 1½-inch (38.1 mm) flanges and ½-inch (12.7 mm) legs, run between each stud and connected at both ends to No. 16-gauge (54 mils) galvanized steel angles measuring 1½ inches by 1½ inches (38.1 mm by 38.1 mm), each angle fastened with two ½-inch (12.7 mm) long No. 8 pan-head self-drilling screws. Blocking at horizontal sheathing seams is provided by steel flat strapping plates with minimum dimensions of 4 inches (101.6 mm) wide and No. 20 gauge (33 mils) thick, installed



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		between each stud 24 inches (609.6 mm) from the top of the wall and 24 inches (609.6 mm) from the bottom of the wall, and secured with two ½-inch (12.7 mm) Type S-12 low-profile pan-head screws.
3	Cavity Insulation (A or B)	A. Fiberglass batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a nominal thickness of 3⅝ inches (92.1 mm), friction-fit into each stud bay. The batt thickness shall equal the depth of the stud cavity. B. Mineral wool insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a nominal thickness of 3⅝ inches (92.1 mm) and a minimum density of 2.0 pcf (32 kg/m³), friction-fit into each stud bay. The batt thickness shall equal the depth of the stud cavity.
4	Exterior Sheathing	Fasten a single layer of nominal ½-inch (12 mm actual) INNOVATION MgO™ Wall Panels directly to the framing on the exterior face of the wall using No. 8 fine-thread, flat wafer-head cement board screws at least 1⅝ inches (41.3 mm) long, placed 8 inches (203.2 mm) on center around the perimeter and in the field. Install panels either vertically or horizontally across the studs. All vertical seams shall be on studs and be offset by at least one stud bay between opposite faces of the wall, while every horizontal seam shall be backed by blocking and offset by at least 12 inches (304.8 mm) between opposite faces. Panel edge joints may be left exposed without joint compound, and fastener heads may remain exposed.
5	Exterior Cladding (Optional, Not Shown)	Exterior claddings added to the assembly shall be approved by the building official or Authority Having Jurisdiction (AHJ). The exterior cladding shall be installed in accordance with that exterior cladding manufacturer's installation instructions.



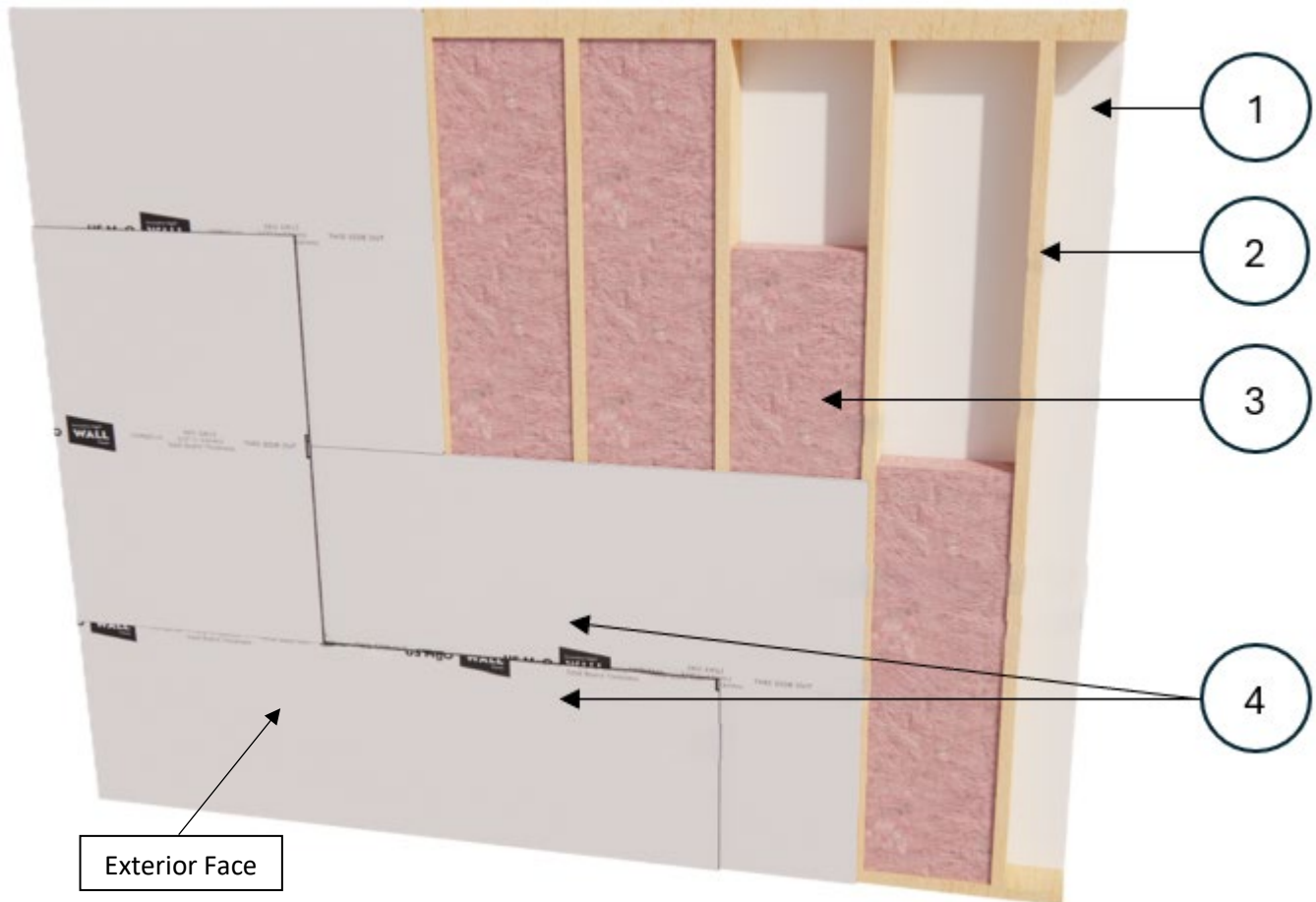
LISTING REPORT

Number: UEL-5074-5

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US MGO COMPANY
1/2-INCH INNOVATION MGO™ WALL PANELS
ASTM E119, UL 263, CAN/ULC-S101
Rating: 2-Hour, Loadbearing Wall Assembly - 100% Design Load





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Assembly Details		
Item #	Component	Material Details
1	Interior Sheathing (A or B)	A. Interior Sheathing (MgO): Apply two layers of nominal ½-inch (12 mm actual) INNOVATION MgO™ Wall Panels directly to the framing on the interior face. Fasten the base layer with No. 8 coarse-thread, flat wafer-head cement board screws at least 1¼ inches (31.8 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and in the field. Install panels either vertically or horizontally; all vertical seams shall be on studs and be offset by at least one stud bay between opposite faces, and each horizontal seam shall be backed by blocking and offset by at least 12 inches (304.8 mm) between opposite faces. Fasten the face layer, with its vertical and horizontal joints offset from the base layer, using No. 8 coarse-thread, flat wafer-head cement board screws at least 1⅝ inches (41.3 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and in the field, and offset 4 inches (101.6 mm) from the base-layer screws. Install panels either vertically or horizontally; all vertical seams shall be on studs and be offset by at least one stud bay between opposite faces. Panel edge joints may be left exposed without joint compound, and fastener heads may remain exposed. B. Interior Sheathing (GWB): Apply two layers of ASTM C1396 Type X or Type C gypsum wallboard at least ⅝ inch (15.9 mm) thick directly to the framing on the interior face. Fasten the base layer using Type W screws at least 1⅝ inches (34.9 mm) long (minimum ¾-inch (19.1 mm) penetration into the framing), spaced 8 inches (203.2 mm) on center around the perimeter and in the field. Install the boards vertically, with all vertical seams on studs and offset between opposite faces. Fasten the face layer, with its vertical joints offset from the base layer, using Type W screws at least 1⅝ inches (47.6 mm) long (minimum ⅝-inch (15.9 mm) penetration into the framing), spaced 8 inches (203.2 mm) on center around the perimeter and in the field, and offset 4 inches (101.6 mm) from the base-layer screws. Install the boards vertically, with all vertical seams on studs and offset by at least one stud bay between opposite faces. All face-layer edge joints receive two coats of joint compound over nominal 2-inch (50.8 mm) wide paper tape bedded in the first coat, and every fastener head is covered with one coat of joint compound to provide a Level 2 finish in accordance with ASTM C840.
2	Wood Framing	Framing consists of minimum 2-by-4 (nominal) (38 mm by 89 mm) wood studs with a controlling slenderness ratio (l_e/d) not exceeding 33, set at a maximum spacing of 24 inches (609.6 mm) on center, with weak-axis blocking provided. Studs are fastened to the top and bottom plates using 3-inch (76.2 mm) long, 0.131-inch (3.33 mm) diameter smooth-shank framing nails. Add a second top plate over the first and attach it with 3-inch (76.2 mm) long, 0.131-inch (3.33 mm) diameter nails placed 16 inches (406.4 mm) on center. Position full-depth blocking between every stud at 24 inches (609.6 mm) down from the top of the wall and 24 inches (609.6 mm) up from the bottom of the wall, secured with the same 3-inch (76.2 mm) long, 0.131-inch (3.33 mm) diameter nails.
3	Cavity Insulation (A or B)	A. Fiberglass batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a nominal thickness of 3½ inches



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		(88.9 mm), friction-fit into each stud bay. The batt thickness shall equal the depth of the stud cavity. B. Mineral wool insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a nominal thickness of 3½ inches (88.9 mm) and a minimum density of 2.0 pcf (32 kg/m³), friction-fit into each stud bay. The batt thickness shall equal the depth of the stud cavity.
4	Exterior Sheathing	Apply two layers of nominal ½-inch (12 mm actual) INNOVATION MgO™ Wall Panels directly to the framing on the exterior face. Fasten the base layer with No. 8 coarse-thread, flat wafer-head cement board screws at least 1¼ inches (31.8 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and in the field. Panels are installed vertically; all vertical seams shall be on studs and be offset by at least one stud bay between opposite faces, and each horizontal seam shall be backed by blocking and offset by at least 12 inches (304.8 mm) between opposite faces. Fasten the face layer, with its vertical and horizontal joints offset from the base layer, using No. 8 coarse-thread, flat wafer-head cement board screws at least 1⅝ inches (41.3 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and in the field, and offset 4 inches (101.6 mm) from the base-layer screws. Panels are installed vertically; all vertical seams shall be on studs and be offset by at least one stud bay between opposite faces. Panel edge joints may be left exposed without joint compound, and fastener heads may remain exposed.
5	Exterior Cladding (Optional, Not Shown)	Exterior claddings added to the assembly shall be approved by the building official or Authority Having Jurisdiction (AHJ). The exterior cladding shall be installed in accordance with that exterior cladding manufacturer's installation instructions.



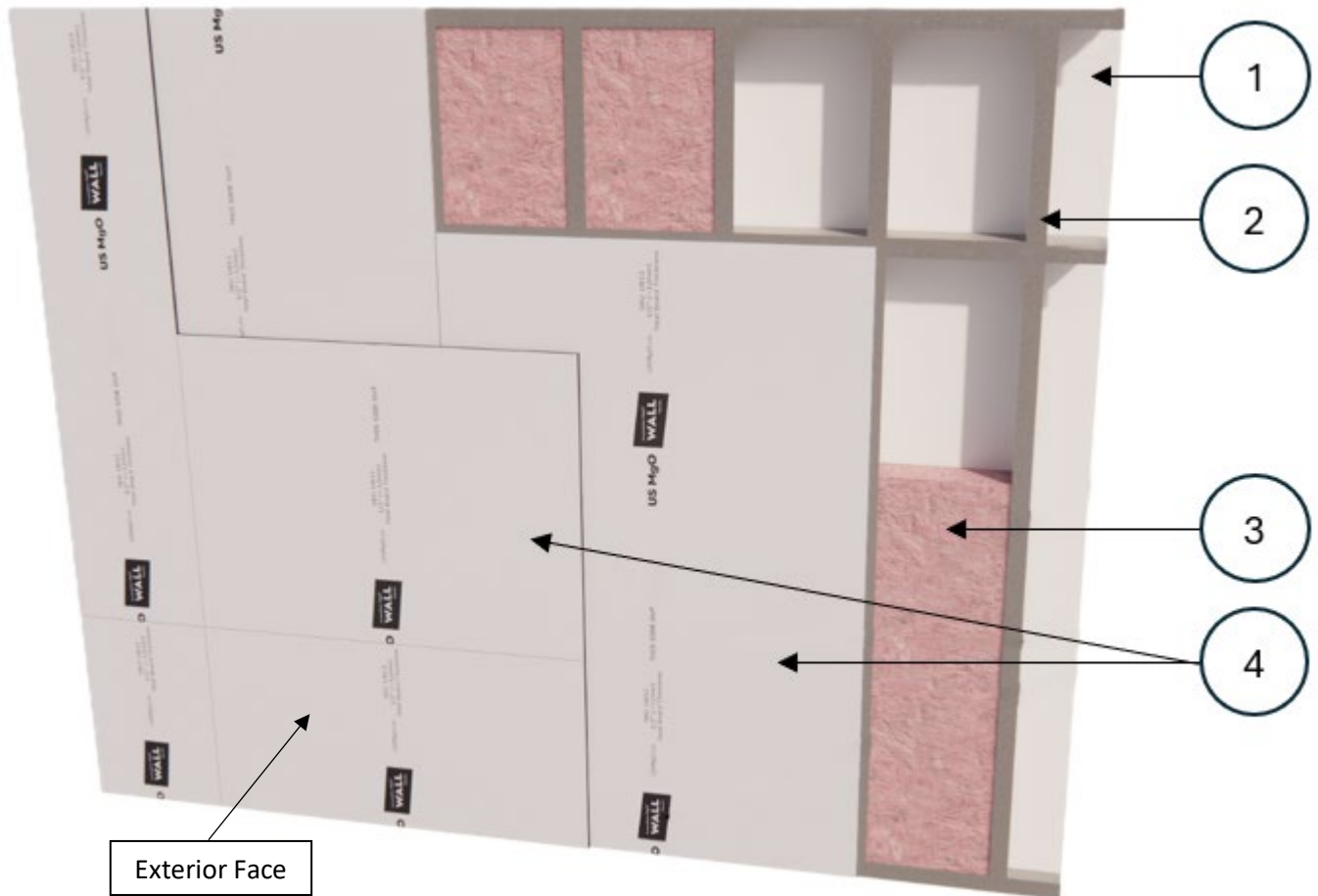
LISTING REPORT

Number: UEL-5074-6

Originally Issued: 07/28/2026

Valid Through: 07/31/2027

US MGO COMPANY
1/2-INCH INNOVATION MGO™ WALL PANELS
ASTM E119, UL 263, CAN/ULC-S101
Rating: 2-Hour, Loadbearing Wall Assembly - 100% Design Load





LISTING REPORT

Number: UEL-5074-6

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Valid Through: 07/31/2027

Assembly Details		
Item #	Component	Material Details
1	Interior Sheathing (A or B)	A. Interior Sheathing (MgO): Apply two layers of nominal 1/2-inch (12 mm actual) INNOVATION MgO™ Wall Panels directly to the framing on the interior face. Fasten the base layer with No. 8 fine-thread, flat wafer-head cement board screws at least 1 1/4 inches (31.8 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and in the field. Install panels either vertically or horizontally; all vertical seams shall be on studs and be offset by at least one stud bay between opposite faces, and each horizontal seam shall be backed by blocking and offset by at least 12 inches (304.8 mm) between opposite faces. Fasten the face layer, with its vertical and horizontal joints offset from the base layer, using No. 8 fine-thread, flat wafer-head cement board screws at least 1 3/8 inches (41.3 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and in the field, and offset 4 inches (101.6 mm) from the base-layer screws. Install panels either vertically or horizontally; all vertical seams shall be on studs and be offset by at least one stud bay between opposite faces. Panel edge joints may be left exposed without joint compound, and fastener heads may remain exposed. B. Interior Sheathing (GWB): Apply two layers of ASTM C1396 Type X or Type C gypsum wallboard at least 5/8 inch (15.9 mm) thick directly to the framing on the interior face. Fasten the base layer with Type S screws at least 1 3/8 inches (34.9 mm) long (minimum 3/4-inch (19.1 mm) penetration into the framing), spaced 8 inches (203.2 mm) on center around the perimeter and in the field. Install the boards vertically, with all vertical seams on studs and offset between opposite faces. Fasten the face layer, with its vertical joints offset from the base layer, using Type S screws at least 1 7/8 inches (47.6 mm) long (minimum 5/8-inch (15.9 mm) penetration into the framing), spaced 8 inches (203.2 mm) on center around the perimeter and in the field, and offset 4 inches (101.6 mm) from the base-layer screws. Install the boards vertically, with all vertical seams on studs and offset by at least one stud bay between opposite faces. All face-layer edge joints receive two coats of joint compound over nominal 2-inch (50.8 mm) wide paper tape bedded in the first coat, and every fastener head is covered with one coat of joint compound to provide a Level 2 finish in accordance with ASTM C840.
2	Cold-Formed Steel Structural Members	Framing consists of corrosion-protected or galvanized C-shaped steel studs at least 3 5/8 inches (92 mm) deep and a minimum No. 20 gauge (33 mils) thick, with a controlling slenderness ratio (l/d) not exceeding 37, spaced no more than 24 inches (609.6 mm) on center and braced at mid-height in the weak-axis direction. Fasten studs to top and bottom track of matching gauge using 1/2-inch (12.7 mm) long No. 8 wafer-head self-drilling screws and shall have flanges of at least 1 5/8 inches (41.3 mm) with a 1/2-inch (12.7 mm) return. Mid-height bracing is provided by galvanized steel channel of at least No. 16 gauge (54 mils) with 1 1/2-inch (38.1 mm) flanges and 1/2-inch (12.7 mm) legs, run between each stud and connected at both ends to No. 16-gauge (54 mils) galvanized steel angles measuring 1 1/2 inches by 1 1/2 inches (38.1 mm by 38.1 mm), each angle fastened with two 1/2-inch (12.7 mm) long No. 8 pan-head self-drilling screws. Blocking at horizontal sheathing seams is provided by steel flat strapping plates with minimum dimensions of 4 inches (101.6 mm) wide and No. 20 gauge (33 mils) thick, installed between each stud



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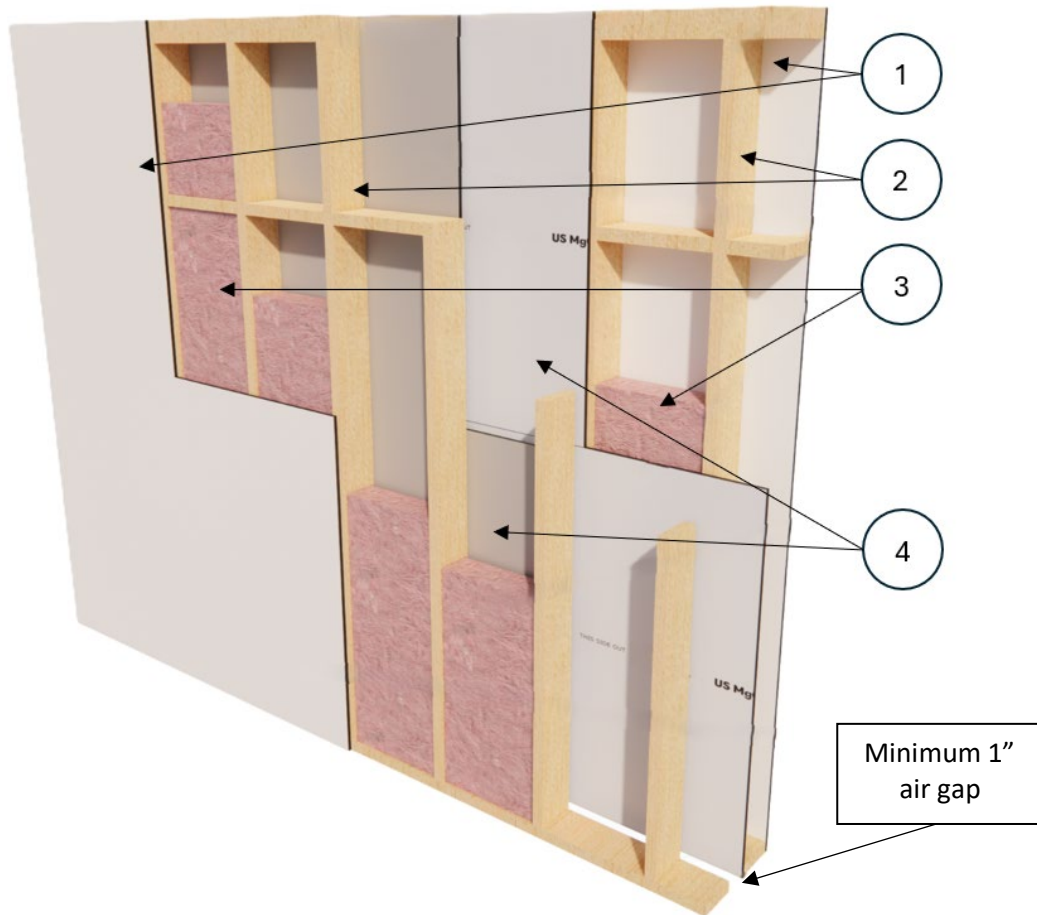
Originally Issued: 07/28/2026

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		24 inches (609.6 mm) from the top of the wall and 24 inches (609.6 mm) from the bottom of the wall, and secured with two ½-inch (12.7 mm) Type S-12 low-profile pan-head screws.
3	Cavity Insulation (A or B)	A. Fiberglass batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a nominal thickness of 3⅝ inches (92.1 mm), friction-fit into each stud bay. The batt thickness shall equal the depth of the stud cavity. B. Mineral wool insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a nominal thickness of 3⅝ inches (92.1 mm) and a minimum density of 2.0 pcf (32 kg/m³), friction-fit into each stud bay. The batt thickness shall equal the depth of the stud cavity.
4	Exterior Sheathing	Apply two layers of nominal ½-inch (12 mm actual) INNOVATION MgO™ Wall Panels directly to the framing on the exterior face. Fasten the base layer with No. 8 fine-thread, flat wafer-head cement board screws at least 1¼ inches (31.8 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and in the field. Install panels either vertically or horizontally; all vertical seams shall be on studs and be offset by at least one stud bay between opposite faces, and each horizontal seam shall be backed by blocking and offset by at least 12 inches (304.8 mm) between opposite faces. Fasten the face layer, with its vertical and horizontal joints offset from the base layer, using No. 8 fine-thread, flat wafer-head cement board screws at least 1⅝ inches (41.3 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and in the field, and offset 4 inches (101.6 mm) from the base-layer screws. Install panels either vertically or horizontally; all vertical seams shall be on studs and be offset by at least one stud bay between opposite faces. Panel edge joints may be left exposed without joint compound, and fastener heads may remain exposed.
5	Exterior Cladding (Optional, Not Shown)	Exterior claddings added to the assembly shall be approved by the building official or Authority Having Jurisdiction (AHJ). The exterior cladding shall be installed in accordance with that exterior cladding manufacturer's installation instructions.



US MGO COMPANY
1/2-INCH INNOVATION MGO™ WALL PANELS
ASTM E119, UL 263, CAN/ULC-S101
Rating: 2-Hour, Non-loadbearing Wall Assembly





LISTING REPORT

Number: **UEL-5074-7**

Originally Issued: 07/28/2026

Valid Through: 07/31/2027

Assembly Details		
Item #	Component	Material Details
1	Gypsum Wallboard (Outer Faces of Each Wall Section)	Fasten a single layer of ASTM C1396 Type X or Type C gypsum wallboard at least $\frac{5}{8}$ inch (15.9 mm) thick directly to the framing on the outer face of each wall section (see drawing) using Type W bugle-head steel screws at least $1\frac{5}{8}$ inches (41.3 mm) long, placed 8 inches (203.2 mm) on center around the perimeter and in the field of the boards. Install the wallboards vertically, with all vertical seams on studs and offset between opposite faces of the wall. All seams receive two coats of joint compound over nominal 2-inch (50.8 mm) wide paper tape bedded in the first coat, and each fastener head is covered with one coat of joint compound to provide a Level 2 finish in accordance with ASTM C840. If resilient channels are used (Item 5), the gypsum boards are instead attached to the channels with 1-inch (25.4 mm) long No. 6 Type S bugle-head drywall screws spaced 8 inches (203.2 mm) on center along each channel. Install the boards oriented vertically, with every vertical seam centered on a stud.
2	Wall Framing (Double Wall)	Construct each wall section using minimum 2-by-4 (nominal) (38 mm by 89 mm) wood studs spaced not more than 24 inches (609.6 mm) on center. The studs may be oriented flatwise so that each stud cavity is 1-1/2-inches (38.1 mm) thick, or edgewise so that each stud cavity is 3-1/2-inches (88.9 mm) thick. When studs are installed in the flatwise direction, use No. 20-gauge galvanized metal truss connector plates measuring 2 inches (50.8 mm) wide by 4 inches (101.6 mm) long to secure the studs to the top and bottom plates. When studs are installed in the edgewise direction, fasten studs to the top and bottom plates using 3-inch (76.2 mm) long, 0.131-inch (3.33 mm) diameter smooth-shank framing nails. Add a second top plate over the first and attach it with 3-inch (76.2 mm) long, 0.131-inch (3.33 mm) diameter nails placed 16 inches (406.4 mm) on center. Stagger studs and maintain a minimum 1-inch (25.4 mm) air gap between wall sections.
3	Cavity Insulation (A, B, or C)	A. None. B. Fiberglass batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, friction-fit into each stud bay. The batt thickness shall equal the depth of the stud cavity. C. Mineral wool insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a minimum density of 2.0 pcf (32 kg/m³), friction-fit into each stud bay. The batt thickness shall equal the depth of the stud cavity.
4	INNOVATION MgO Panel (Inner Faces of Each Wall Section)	Fasten a single layer of nominal $\frac{1}{2}$-inch (12 mm actual) INNOVATION MgO™ Wall Panels directly to the framing on the inner face of each wall section (see drawing) using No. 8 Type W wafer-head steel screws at least $1\frac{5}{8}$ inches (41.3 mm) long, placed 8 inches (203.2 mm) on center around the perimeter and in the field. Install panels either vertically or horizontally across the studs. All vertical seams shall be on studs and be offset by at least one stud bay between opposite faces of each wall section, while every horizontal seam is backed by blocking and offset by at least 12 inches (304.8 mm) between opposite faces. Panel edge joints may be left exposed without joint compound, and fastener heads may remain exposed.
5	Resilient Channel (Optional, Not Shown)	Install galvanized steel resilient channel, at least No. 25 gauge (18 mils) thick, run perpendicular to the framing on the interior gypsum board side of the wall only, at a maximum vertical spacing of 24 inches (609.6 mm) on center. Fasten each channel at every stud with No. 8 Type W bugle-head screws at least $1\frac{1}{2}$ inches (38.1 mm) long.



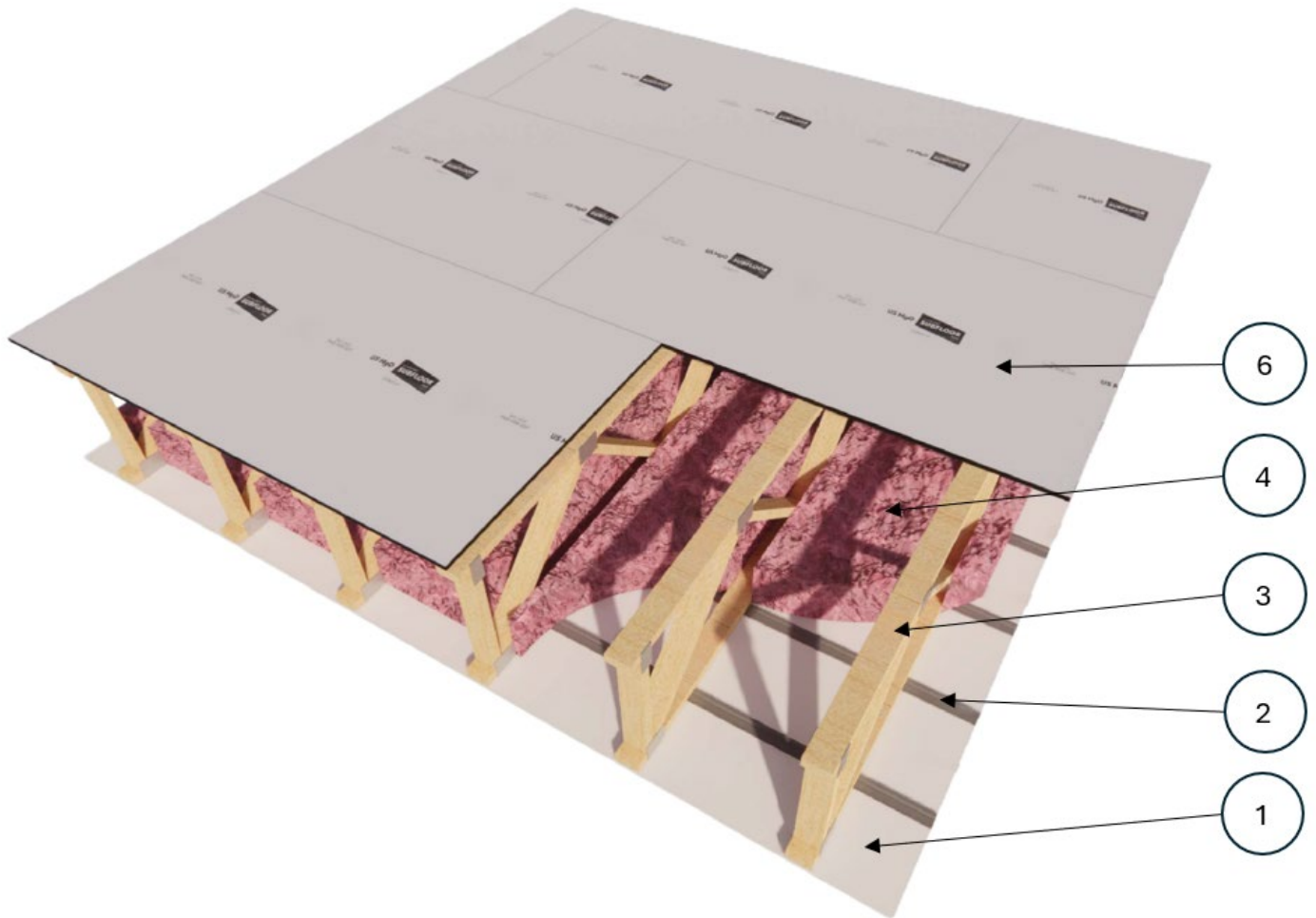
LISTING REPORT

Number: UEL-5074-8

Originally Issued: 07/28/2026

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US MGO COMPANY
3/4-INCH INNOVATION MGO™ SUBFLOOR PANELS
1/2-INCH INNOVATION MGO™ FLOOR PANELS
ASTM E119, UL 263, CAN/ULC-S101
Rating: 1-Hour, Loadbearing Unrestrained Floor/Ceiling Assembly
100% Design Load





LISTING REPORT

Number: **UEL-5074-8**

Originally Issued: 07/28/2026

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Assembly Details		
Item #	Component	Material Details
1	Ceiling Membrane (A – F)	Secure one layer of Type C gypsum board, at least $\frac{5}{8}$ inch (15.9 mm) thick, to resilient channel using No. 6 Type S bugle-head steel drywall screws at least $1\frac{1}{4}$ inches (31.8 mm) long, spaced 8 inches (203.2 mm) on center. Space fasteners along the long edge so that they sit 1 inch (25.4 mm) from the edge and so end-joint fasteners sit 3 inches (76.2 mm) into the channel at the panel end. Orient gypsum boards so that the long dimension is perpendicular to the resilient channels and the end joints are offset at least 2 feet (609.6 mm). Apply two coats of joint compound over all panel joints, with nominal 2-inch (50.8 mm) wide paper tape embedded in the first coat. Cover all fastener heads with a coat of joint compound to provide a Level 2 finish in accordance with ASTM C840. Use one of the following: A. American Gypsum Company LLC FireBloc® Type C Gypsum Board B. CertainTeed Gypsum, Inc. CertainTeed® Type C Gypsum Board C. National Gypsum Company GoldBond® Fire-Shield C™ Gypsum Board D. Georgia-Pacific Gypsum LLC ToughRock® Fireguard C® Gypsum Board E. United States Gypsum Company (USG) Sheetrock® Brand FireCode C Gypsum Board F. PABCO® Gypsum FLAME CURB® Type C Gypsum Board
2	Resilient Channel	Fasten galvanized steel resilient channels, $\frac{1}{2}$ inch (12.7 mm) deep and at least No. 25 gauge (18 mils) thick, to the underside of the framing using No. 6 Type W bugle-head screws at least $1\frac{1}{4}$ inches (31.8 mm) long. Channels are installed perpendicular to the framing members and spaced no more than 12 inches (304.8 mm) on center, lapped at least 4 inches (101.6 mm) at splices, with an extra channel placed 3 inches (76.2 mm) from each end joint of the ceiling membrane and fastened to the adjacent framing members.
3	Floor Framing	Parallel chord open web wood trusses built from minimum 2-by-4 (nominal) (38 mm by 89 mm) lumber with truss members joined by galvanized steel plates at least No. 20 gauge (33 mils) thick, spaced no more than 24 inches (610 mm) on center. When using the optional ceiling radiation damper (Item 5), trusses shall be at least 18 inches (457.2 mm) deep; without the optional ceiling radiation damper (Item 5), trusses shall be at least 12 inches (304.8 mm) deep.
4	Insulation (A or B)	Loosely drape insulation over the resilient channels and gypsum board ceiling membrane. Use one of the following: A. Fiberglass batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a minimum thickness of $3\frac{1}{2}$ inches (88.9 mm). B. Mineral wool batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a minimum thickness of $3\frac{1}{2}$ inches (88.9 mm).



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5	Ceiling Radiation Damper (Optional, Not Shown)	Ceiling Radiation Damper listed to UL 555C by a recognized third-party certification agency, with a maximum height of 14 inches (355.6 mm), maximum width of 18 inches (457.2 mm), and a maximum area of 324 in. ² (0.209 m ²). Install steel grille per manufacturer's instructions. Connect the damper to a UL 181 Class 0 or Class 1 insulated air duct, listed by a recognized third-party certification agency, following the manufacturer's instructions. Trusses shall be at least 18 inches (457.2 mm) deep when using optional ceiling damper.
6	Flooring System Use either: • A only • B and C • A and C	A. Subfloor: Fasten Tongue-and-groove $\frac{3}{4}$-inch (19 mm) INNOVATION MgO™ Subfloor Panels along every framing member using 2-inch (50.8 mm) long 6D ring-shank nails placed maximum 12 inches (304.8 mm) on center in the field and 6 inches (152.4 mm) on center along panel edges. Keep fasteners at least 1 inch (25.4 mm) from any panel edge and at least 2 inches (50.8 mm) from any panel corner. Install panels with long edges perpendicular to the framing and stagger end joints. B. Subfloor: Fasten minimum $\frac{23}{32}$-inch (18.3 mm) thick tongue-and-groove wood structural subfloor panels along every framing member using 2-inch (50.8 mm) long 6D ring-shank nails placed maximum 12 inches (304.8 mm) on center. Install panels with long edges perpendicular to the framing and stagger end joints. C. Underlayment: Fasten $\frac{1}{2}$-inch (12 mm actual) INNOVATION MgO™ Floor Panels to the top of the subfloor using 6D ring-shank nails at least $2\frac{1}{2}$ inches (63.5 mm) long, placed maximum 12 inches (304.8 mm) on center along every framing member. Stagger underlayment fasteners from the subfloor fasteners, and do not place subfloor fasteners closer than 1-inch (25.4 mm) from all panel edges and no closer than 2-inches (50.8 mm) from panel corners. Ensure floor panel end joints are centered on framing members and offset at least one joist bay from the subfloor joints. Floor panels shall be installed perpendicular to the framing and board edges shall be staggered a minimum of 4-inches (101.6 mm) between subfloor and floor panels.



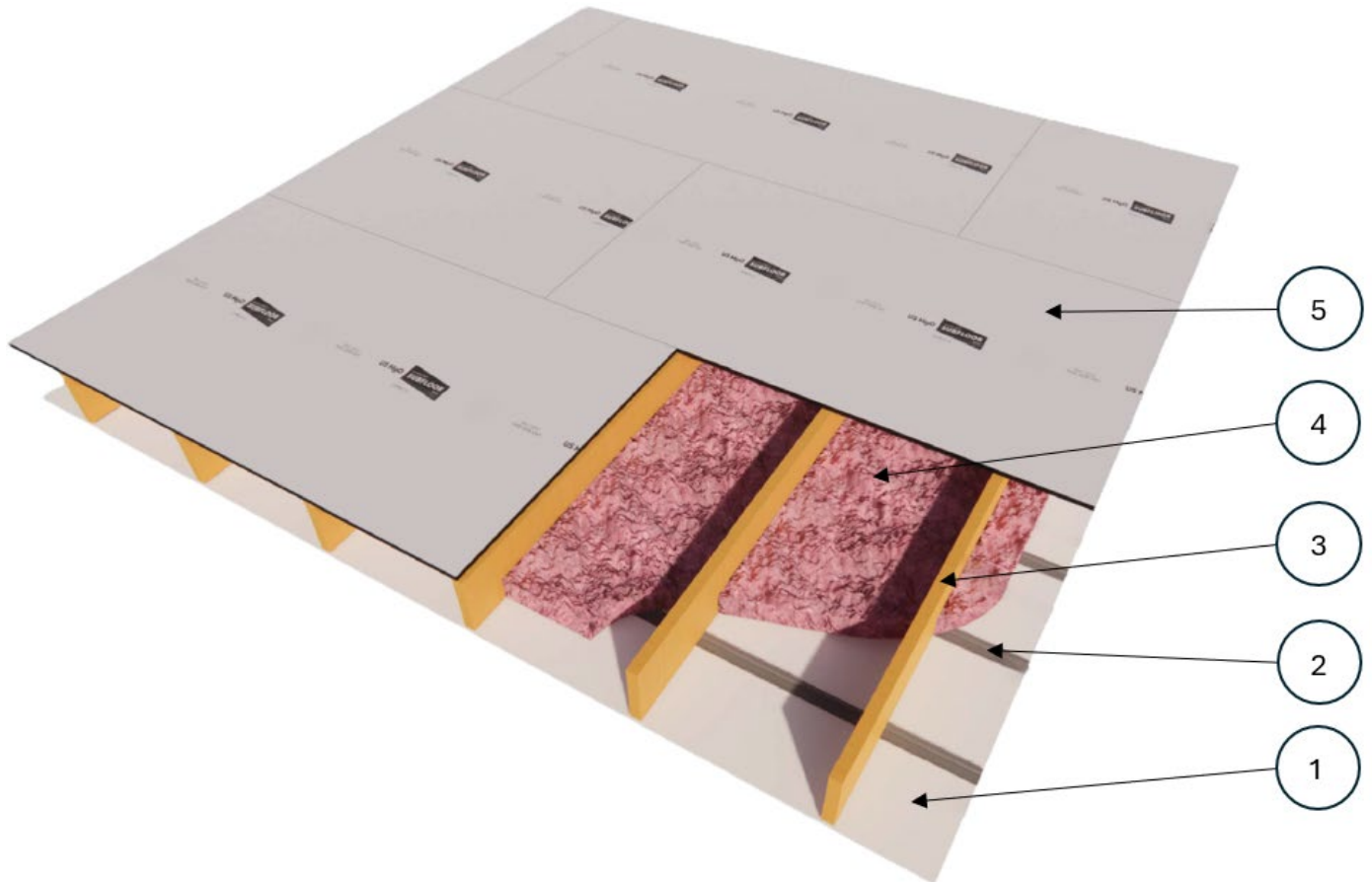
LISTING REPORT

Number: UEL-5074-9

Originally Issued: 07/28/2026

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US MGO COMPANY
3/4-INCH INNOVATION MGO™ SUBFLOOR PANELS
1/2-INCH INNOVATION MGO™ FLOOR PANELS
ASTM E119, UL 263, CAN/ULC-S101
Rating: 1-Hour, Loadbearing Unrestrained Floor/Ceiling Assembly
100% Design Load





LISTING REPORT

Number: **UEL-5074-9**

Originally Issued: 07/28/2026

Valid Through: 07/31/2027

Assembly Details		
Item #	Component	Material Details
1	Ceiling Membrane (A – F)	Secure one layer of Type C gypsum board, at least $\frac{5}{8}$ inch (15.9 mm) thick, to resilient channel using No. 6 Type S bugle-head steel drywall screws at least $1\frac{1}{4}$ inches (31.8 mm) long, spaced 8 inches (203.2 mm) on center. Space fasteners along the long edge so that they sit 1 inch (25.4 mm) from the edge and so end-joint fasteners sit 3 inches (76.2 mm) into the channel at the panel end. Orient gypsum boards so that the long dimension is perpendicular to the resilient channels and the end joints are offset at least 2 feet (609.6 mm). Apply two coats of joint compound over all panel joints, with nominal 2-inch (50.8 mm) wide paper tape embedded in the first coat. Cover all fastener heads with a coat of joint compound to provide a Level 2 finish in accordance with ASTM C840. Use one of the following: A. American Gypsum Company LLC FireBloc® Type C Gypsum Board B. CertainTeed Gypsum, Inc. CertainTeed® Type C Gypsum Board C. National Gypsum Company Gold Bond® Fire-Shield C™ Gypsum Board D. Georgia-Pacific Gypsum LLC ToughRock® Fireguard C® Gypsum Board E. United States Gypsum Company (USG) Sheetrock® Brand FireCode C Gypsum Board F. PABCO® Gypsum FLAME CURB® Type C Gypsum Board
2	Resilient Channel	Fasten galvanized steel resilient channels, $\frac{1}{2}$ inch (12.7 mm) deep and at least No. 25 gauge (18 mils) thick, to the underside of the framing using No. 6 Type W bugle-head screws at least $1\frac{5}{8}$ inches (41.3 mm) long. Channels are installed perpendicular to the framing members and spaced no more than 12 inches (304.8 mm) on center, lapped at least 4 inches (101.6 mm) at splices, with an extra channel placed 3 inches (76.2 mm) from each end joint of the ceiling membrane and fastened to the adjacent framing members.
3	Floor Framing	Minimum 2-by-10 (nominal) (38 mm by 235 mm) wood joists spaced no more than 24 inches (610 mm) on center. Install minimum 1-inch (25.4 mm) by 3-inch (76.2 mm) or 2-inch (50.8 mm) by 10-inch (254 mm) solid block bridging between wood joists.
4	Insulation (A or B)	Loosely drape insulation over the resilient channels and gypsum board ceiling membrane. Use one of the following: A. Fiberglass batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a minimum thickness of $3\frac{1}{2}$ inches (88.9 mm). B. Mineral wool batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a minimum thickness of $3\frac{1}{2}$ inches (88.9 mm).
5	Flooring System	A. Subfloor: Fasten Tongue-and-groove $\frac{3}{4}$ -inch (19 mm) INNOVATION MgO™ Subfloor Panels along every framing member using 2-inch (50.8 mm) long 6D



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	Use either: • A only • B and C • A and C	ring-shank nails placed maximum 12 inches (304.8 mm) on center in the field and 6 inches (152.4 mm) on center along panel edges. Keep fasteners at least 1 inch (25.4 mm) from any panel edge and at least 2 inches (50.8 mm) from any panel corner. Install panels with long edges perpendicular to the framing and stagger end joints. B. Subfloor: Fasten minimum $\frac{23}{32}$-inch (18.3 mm) thick tongue-and-groove wood structural subfloor panels along every framing member using 2-inch (50.8 mm) long 6D ring-shank nails placed maximum 12 inches (304.8 mm) on center. Install panels with long edges perpendicular to the framing and stagger end joints. C. Underlayment: Fasten $\frac{1}{2}$-inch (12 mm actual) INNOVATION MgO™ Floor Panels to the top of the subfloor using 6D ring-shank nails at least $2\frac{1}{2}$ inches (63.5 mm) long, placed maximum 12 inches (304.8 mm) on center along every framing member. Stagger underlayment fasteners from the subfloor fasteners, and do not place subfloor fasteners closer than 1-inch (25.4 mm) from all panel edges and no closer than 2-inches (50.8 mm) from panel corners. Ensure floor panel end joints are centered on framing members and offset at least one joist bay from the subfloor joints. Floor panels shall be installed perpendicular to the framing and board edges shall be staggered a minimum of 4-inches (101.6 mm) between subfloor and floor panels.
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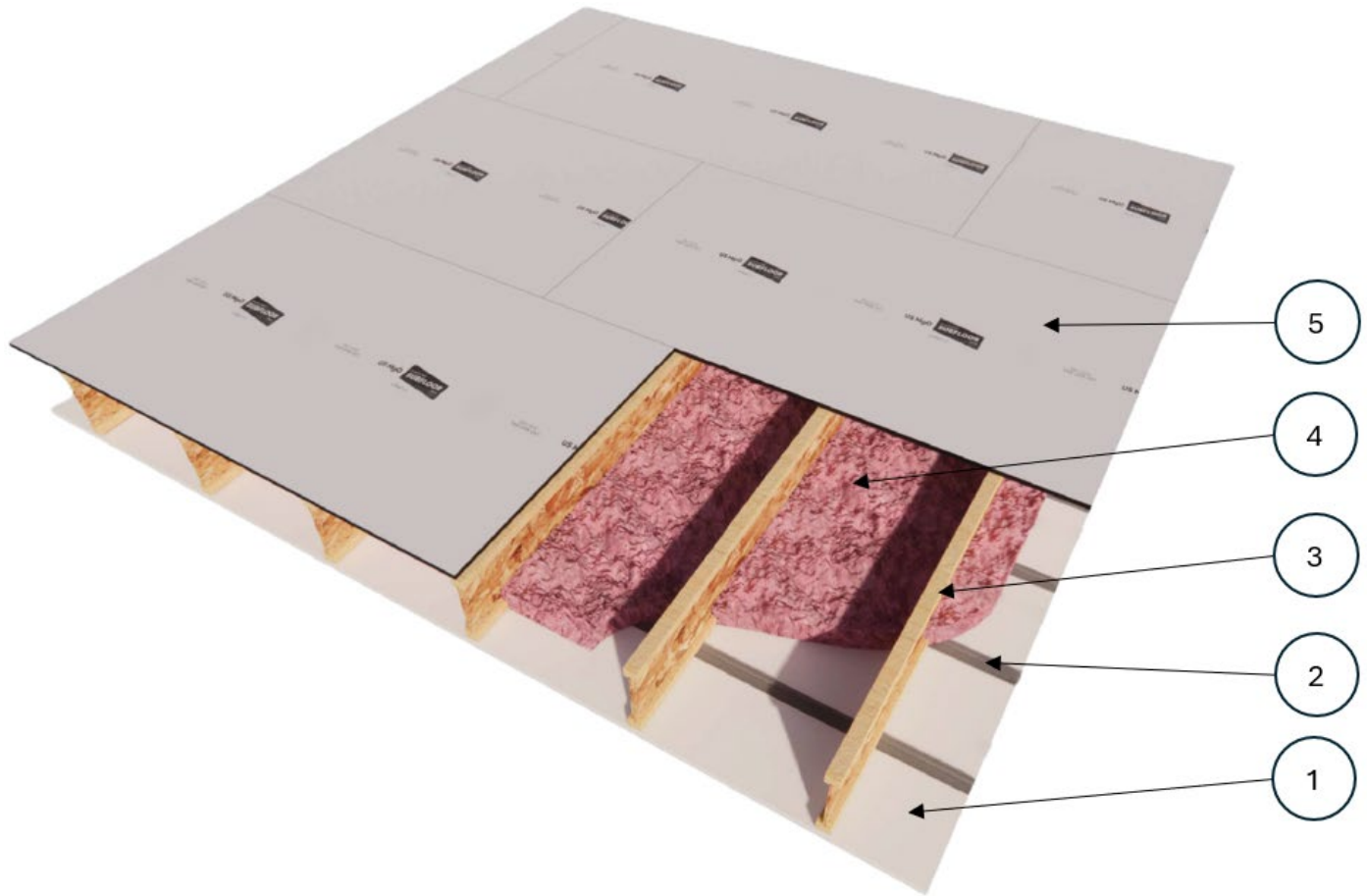
LISTING REPORT

Number: UEL-5074-10

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US MGO COMPANY
3/4-INCH INNOVATION MGO™ SUBFLOOR PANELS
1/2-INCH INNOVATION MGO™ FLOOR PANELS
ASTM E119, UL 263, CAN/ULC-S101
Rating: 1-Hour, Loadbearing Unrestrained Floor/Ceiling Assembly
100% Design Load





LISTING REPORT

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Assembly Details		
Item #	Component	Material Details
1	Ceiling Membrane (A – F)	Install two layers (base and face) of minimum $\frac{5}{8}$ inch (15.9 mm) thick Type C gypsum board. Base layer: Secure gypsum boards to resilient channels using No. 6 Type S bugle-head steel drywall screws at least $1\frac{1}{4}$ inches (31.8 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and 12 inches (304.8 mm) on center in the field. Space fasteners along the long edge so that they sit $1\frac{1}{2}$ inches (38.1 mm) from the edge and so end-joint fasteners sit 3 inches (76.2 mm) into the channel at the panel end. Orient gypsum boards so that the long dimension is perpendicular to the resilient channels and the end joints are offset at least 2 feet (609.6 mm). Face layer: Secure gypsum boards through base layer gypsum boards to resilient channels using Type S bugle-head steel drywall screws at least 2 inches (50.8 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and in the field. Space fasteners along the long edge so that they sit $1\frac{1}{2}$ inches (38.1 mm) from the edge. End-joints are fastened with Type G screws at least $1\frac{1}{2}$ inches (38.1 mm) long, spaced 8 inches (203.2 mm) on center and $1\frac{1}{2}$ inches (38.1 mm) from panel ends. Orient gypsum boards so that the long dimension is perpendicular to the resilient channels, the edge joints are offset at least 2 feet (609.6 mm) from the base layer edge joints, and the end joints are offset at least 12 inches (304.8 mm) from the base layer end joints. Apply two coats of joint compound over all face layer panel joints, with nominal 2-inch (50.8 mm) wide paper tape embedded in the first coat. Cover all fastener heads with a coat of joint compound to provide a Level 2 finish in accordance with ASTM C840. Use one of the following: A. American Gypsum Company LLC FireBloc® Type C Gypsum Board B. CertainTeed Gypsum, Inc. CertainTeed® Type C Gypsum Board C. National Gypsum Company GoldBond® Fire-Shield C™ Gypsum Board D. Georgia-Pacific Gypsum LLC ToughRock® Fireguard C® Gypsum Board E. United States Gypsum Company (USG) Sheetrock® Brand FireCode C Gypsum Board F. PABCO® Gypsum FLAME CURB® Type C Gypsum Board
2	Resilient Channel	Fasten galvanized steel resilient channels, $\frac{1}{2}$ inch (12.7 mm) deep and at least No. 25 gauge (18 mils) thick, to the underside of the framing using No. 6 Type W bugle-head screws at least $1\frac{5}{8}$ inches (41.3 mm) long. Channels are installed perpendicular to the framing members and spaced no more than 12 inches (304.8 mm) on center, lapped at least 4 inches (101.6 mm) at splices, with an extra channel placed 3 inches (76.2 mm) from each end joint of the ceiling membrane and fastened to the adjacent framing members.
3	Floor Framing	Weyerhaeuser TJI® Prefabricated Wood I-Joists, at least $9\frac{1}{2}$ inches (241.3 mm) deep, spaced no more than 24 inches (609.6 mm) on center. Install joists per the manufacturer's instructions.
4	Insulation (A or B)	Loosely drape insulation over the resilient channels and gypsum board ceiling membrane. Use one of the following:



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		A. Fiberglass batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a minimum thickness of 3$\frac{1}{2}$ inches (88.9 mm). B. Mineral wool batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a minimum thickness of 3$\frac{1}{2}$ inches (88.9 mm).
5	Flooring System Use either: • A only • B and C • A and C	A. Subfloor: Fasten Tongue-and-groove $\frac{3}{4}$-inch (19 mm) INNOVATION MgO™ Subfloor Panels along every framing member using 2-inch (50.8 mm) long 6D ring-shank nails placed maximum 12 inches (304.8 mm) on center in the field and 6 inches (152.4 mm) on center along panel edges. Keep fasteners at least 1 inch (25.4 mm) from any panel edge and at least 2 inches (50.8 mm) from any panel corner. Install panels with long edges perpendicular to the framing and stagger end joints. B. Subfloor: Fasten minimum $\frac{23}{32}$-inch (18.3 mm) thick tongue-and-groove wood structural subfloor panels along every framing member using 2-inch (50.8 mm) long 6D ring-shank nails placed maximum 12 inches (304.8 mm) on center. Install panels with long edges perpendicular to the framing and stagger end joints. C. Underlayment: Fasten $\frac{1}{2}$-inch (12 mm actual) INNOVATION MgO™ Floor Panels to the top of the subfloor using 6D ring-shank nails at least 2$\frac{1}{2}$ inches (63.5 mm) long, placed maximum 12 inches (304.8 mm) on center along every framing member. Stagger underlayment fasteners from the subfloor fasteners, and do not place subfloor fasteners closer than 1-inch (25.4 mm) from all panel edges and no closer than 2-inches (50.8 mm) from panel corners. Ensure floor panel end joints are centered on framing members and offset at least one joist bay from the subfloor joints. Floor panels shall be installed perpendicular to the framing and board edges shall be staggered a minimum of 4-inches (101.6 mm) between subfloor and floor panels.



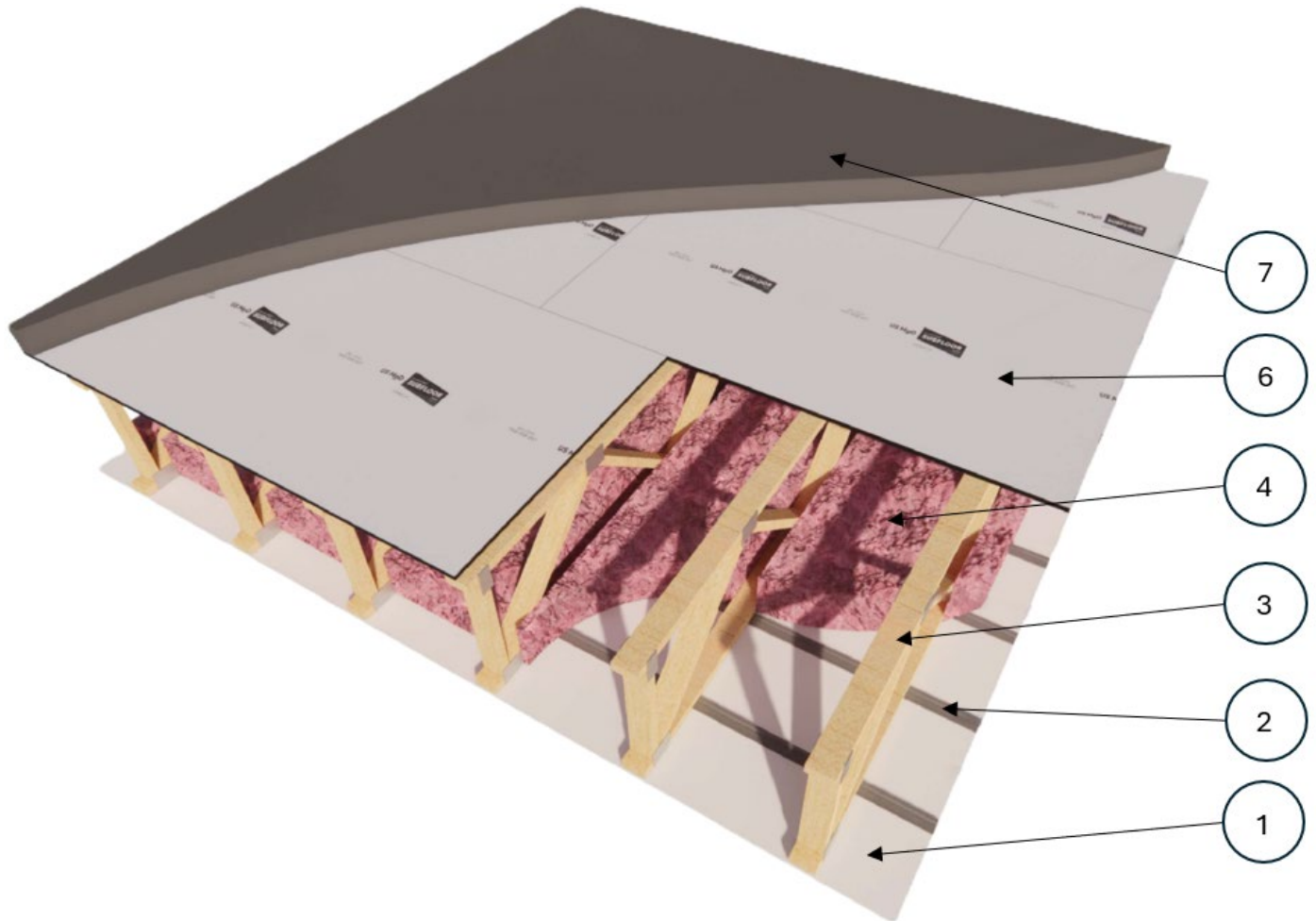
LISTING REPORT

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US MGO COMPANY
3/4-INCH INNOVATION MGO™ SUBFLOOR PANELS
1/2-INCH INNOVATION MGO™ FLOOR PANELS
ASTM E119, UL 263, CAN/ULC-S101
Rating: 1-Hour, Loadbearing Unrestrained Roof/Ceiling Assembly
100% Design Load





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Assembly Details		
Item #	Component	Material Details
1	Ceiling Membrane (A – F)	Secure one layer of Type C gypsum board, at least $\frac{5}{8}$ inch (15.9 mm) thick, to resilient channel using No. 6 Type S bugle-head steel drywall screws at least $1\frac{1}{4}$ inches (31.8 mm) long, spaced 8 inches (203.2 mm) on center. Space fasteners along the long edge so that they sit 1 inch (25.4 mm) from the edge and so end-joint fasteners sit 3 inches (76.2 mm) into the channel at the panel end. Orient gypsum boards so that the long dimension is perpendicular to the resilient channels and the end joints are offset at least 2 feet (609.6 mm). Apply two coats of joint compound over all panel joints, with nominal 2-inch (50.8 mm) wide paper tape embedded in the first coat. Cover all fastener heads with a coat of joint compound to provide a Level 2 finish in accordance with ASTM C840. Use one of the following: A. American Gypsum Company LLC FireBloc® Type C Gypsum Board B. CertainTeed Gypsum, Inc. CertainTeed® Type C Gypsum Board C. National Gypsum Company GoldBond® Fire-Shield C™ Gypsum Board D. Georgia-Pacific Gypsum LLC ToughRock® Fireguard C® Gypsum Board E. United States Gypsum Company (USG) Sheetrock® Brand FireCode C Gypsum Board F. PABCO® Gypsum FLAME CURB® Type C Gypsum Board
2	Resilient Channel	Fasten galvanized steel resilient channels, $\frac{1}{2}$ inch (12.7 mm) deep and at least No. 25 gauge (18 mils) thick, to the underside of the framing using No. 6 Type W bugle-head screws at least $1\frac{1}{4}$ inches (31.8 mm) long. Channels are installed perpendicular to the framing members and spaced no more than 12 inches (304.8 mm) on center, lapped at least 4 inches (101.6 mm) at splices, with an extra channel placed 3 inches (76.2 mm) from each end joint of the ceiling membrane and fastened to the adjacent framing members.
3	Roof Framing	Parallel chord open web wood trusses built from minimum 2-by-4 (nominal) (38 mm by 89 mm) lumber with truss members joined by galvanized steel plates at least No. 20 gauge (33 mils) thick, spaced no more than 24 inches (610 mm) on center. When using the optional ceiling radiation damper (Item 5), trusses shall be at least 18 inches (457.2 mm) deep; without the optional ceiling radiation damper (Item 5), trusses shall be at least 12 inches (304.8 mm) deep.
4	Insulation (A or B)	Loosely drape insulation over the resilient channels and gypsum board ceiling membrane. Use one of the following: A. Fiberglass batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a minimum thickness of $3\frac{1}{2}$ inches (88.9 mm). B. Mineral wool batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a minimum thickness of $3\frac{1}{2}$ inches (88.9 mm).
5	Ceiling Radiation	Ceiling Radiation Damper listed to UL 555C by a recognized third-party certification agency, with a maximum height of 14 inches (355.6 mm), maximum



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	Damper (Optional, Not Shown)	width of 18 inches (457.2 mm), and a maximum area of 324 in. ² (0.209 m ²). Install steel grille per manufacturer's instructions. Connect the damper to a UL 181 Class 0 or Class 1 insulated air duct, listed by a recognized third-party certification agency, following the manufacturer's instructions. Trusses shall be at least 18 inches (457.2 mm) deep when using optional ceiling damper.
6	Roof Sheathing Use either: • A only • B and C • A and C	A. Subfloor: Fasten Tongue-and-groove ¾-inch (19 mm) INNOVATION MgO™ Subfloor Panels along every framing member using 2-inch (50.8 mm) long 6D ring-shank nails placed maximum 12 inches (304.8 mm) on center in the field and 6 inches (152.4 mm) on center along panel edges. Keep fasteners at least 1 inch (25.4 mm) from any panel edge and at least 2 inches (50.8 mm) from any panel corner. Install panels with long edges perpendicular to the framing and stagger end joints. B. Subfloor: Fasten minimum 23/32-inch (18.3 mm) thick tongue-and-groove wood structural subfloor panels along every framing member using 2-inch (50.8 mm) long 6D ring-shank nails placed maximum 12 inches (304.8 mm) on center. Install panels with long edges perpendicular to the framing and stagger end joints. C. Underlayment: Fasten ½-inch (12 mm actual) INNOVATION MgO™ Floor Panels to the top of the subfloor using 6D ring-shank nails at least 2½ inches (63.5 mm) long, placed maximum 12 inches (304.8 mm) on center along every framing member. Stagger underlayment fasteners from the subfloor fasteners, and do not place subfloor fasteners closer than 1-inch (25.4 mm) from all panel edges and no closer than 2-inches (50.8 mm) from panel corners. Ensure floor panel end joints are centered on framing members and offset at least one joist bay from the subfloor joints. Floor panels shall be installed perpendicular to the framing and board edges shall be staggered a minimum of 4-inches (101.6 mm) between subfloor and floor panels.
7	Roof Covering	Any roof covering listed and labeled by a recognized third-party certification agency to ASTM E108 as a Class A, B, or C roof covering. Install roof covering per manufacturer's installation instructions.



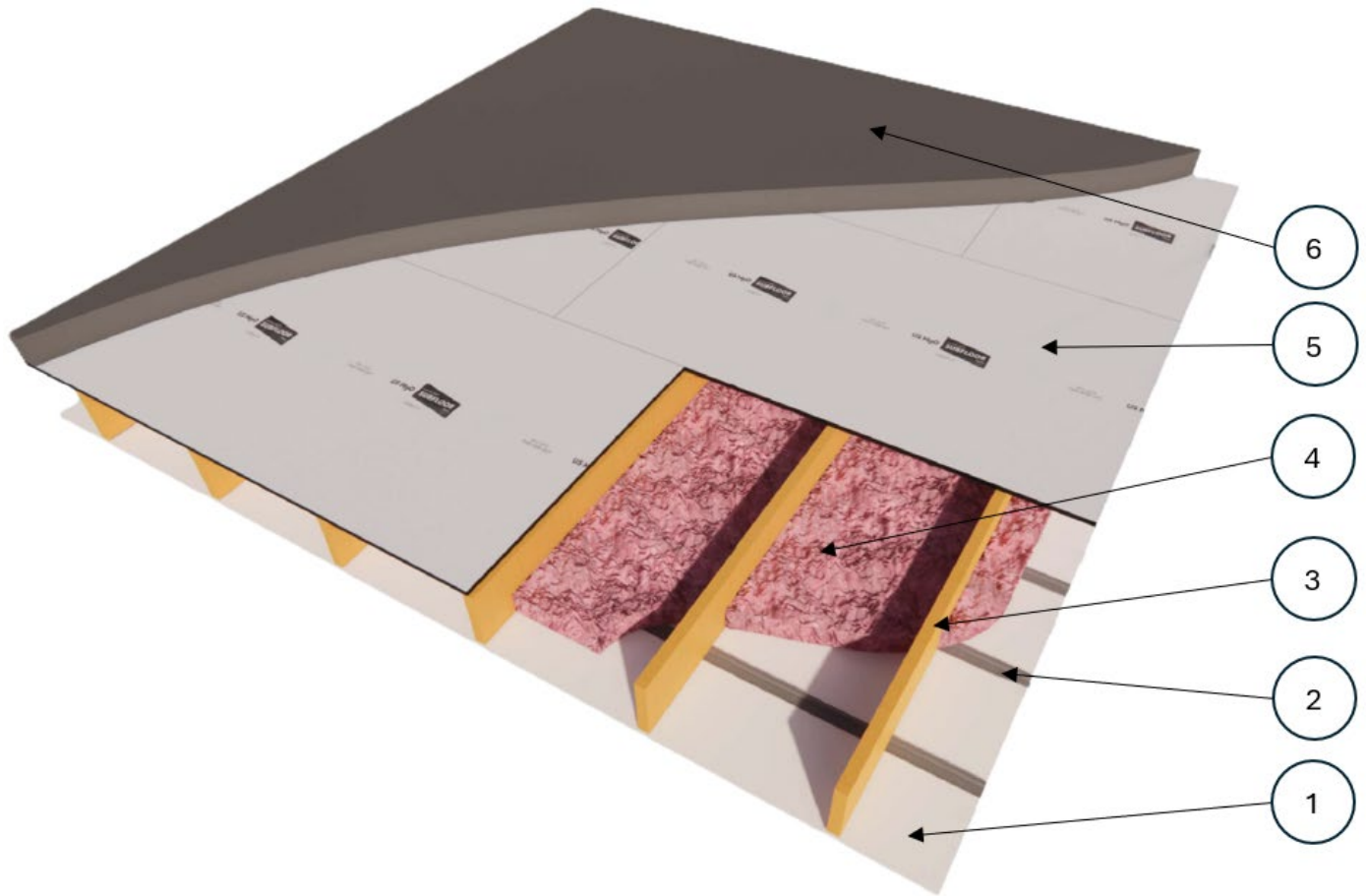
LISTING REPORT

Number: UEL-5074-12

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US MGO COMPANY
3/4-INCH INNOVATION MGO™ SUBFLOOR PANELS
1/2-INCH INNOVATION MGO™ FLOOR PANELS
ASTM E119, UL 263, CAN/ULC-S101
Rating: 1-Hour, Loadbearing Unrestrained Roof/Ceiling Assembly
100% Design Load





LISTING REPORT

Number: **UEL-5074-12**

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Assembly Details		
Item #	Component	Material Details
1	Ceiling Membrane (A – F)	Secure one layer of Type C gypsum board, at least $\frac{5}{8}$ inch (15.9 mm) thick, to resilient channel using No. 6 Type S bugle-head steel drywall screws at least $1\frac{1}{4}$ inches (31.8 mm) long, spaced 8 inches (203.2 mm) on center. Space fasteners along the long edge so that they sit 1 inch (25.4 mm) from the edge and so end-joint fasteners sit 3 inches (76.2 mm) into the channel at the panel end. Orient gypsum boards so that the long dimension is perpendicular to the resilient channels and the end joints are offset at least 2 feet (609.6 mm). Apply two coats of joint compound over all panel joints, with nominal 2-inch (50.8 mm) wide paper tape embedded in the first coat. Cover all fastener heads with a coat of joint compound to provide a Level 2 finish in accordance with ASTM C840. Use one of the following: A. American Gypsum Company LLC FireBloc® Type C Gypsum Board B. CertainTeed Gypsum, Inc. CertainTeed® Type C Gypsum Board C. National Gypsum Company GoldBond® Fire-Shield C™ Gypsum Board D. Georgia-Pacific Gypsum LLC ToughRock® Fireguard C® Gypsum Board E. United States Gypsum Company (USG) Sheetrock® Brand FireCode C Gypsum Board F. PABCO® Gypsum FLAME CURB® Type C Gypsum Board
2	Resilient Channel	Fasten galvanized steel resilient channels, $\frac{1}{2}$ inch (12.7 mm) deep and at least No. 25 gauge (18 mils) thick, to the underside of the framing using No. 6 Type W bugle-head screws at least $1\frac{5}{8}$ inches (41.3 mm) long. Channels are installed perpendicular to the framing members and spaced no more than 12 inches (304.8 mm) on center, lapped at least 4 inches (101.6 mm) at splices, with an extra channel placed 3 inches (76.2 mm) from each end joint of the ceiling membrane and fastened to the adjacent framing members.
3	Roof Framing	Minimum 2-by-10 (nominal) (38 mm by 235 mm) wood joists spaced no more than 24 inches (610 mm) on center. Install minimum 1-inch (25.4 mm) by 3-inch (76.2 mm) or 2-inch (50.8 mm) by 10-inch (254 mm) solid block bridging between wood joists.
4	Insulation (A or B)	Loosely drape insulation over the resilient channels and gypsum board ceiling membrane. Use one of the following: A. Fiberglass batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a minimum thickness of $3\frac{1}{2}$ inches (88.9 mm). B. Mineral wool batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as noncombustible per ASTM E136, with a minimum thickness of $3\frac{1}{2}$ inches (88.9 mm).
5	Roof Sheathing	A. Subfloor: Fasten Tongue-and-groove $\frac{3}{4}$-inch (19 mm) INNOVATION MgO™ Subfloor Panels along every framing member using 2-inch (50.8 mm) long 6D



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	Use either: • A only • B and C • A and C	ring-shank nails placed maximum 12 inches (304.8 mm) on center in the field and 6 inches (152.4 mm) on center along panel edges. Keep fasteners at least 1 inch (25.4 mm) from any panel edge and at least 2 inches (50.8 mm) from any panel corner. Install panels with long edges perpendicular to the framing and stagger end joints. B. Subfloor: Fasten minimum $\frac{23}{32}$-inch (18.3 mm) thick tongue-and-groove wood structural subfloor panels along every framing member using 2-inch (50.8 mm) long 6D ring-shank nails placed maximum 12 inches (304.8 mm) on center. Install panels with long edges perpendicular to the framing and stagger end joints. C. Underlayment: Fasten $\frac{1}{2}$-inch (12 mm actual) INNOVATION MgO™ Floor Panels to the top of the subfloor using 6D ring-shank nails at least $2\frac{1}{2}$ inches (63.5 mm) long, placed maximum 12 inches (304.8 mm) on center along every framing member. Stagger underlayment fasteners from the subfloor fasteners, and do not place subfloor fasteners closer than 1-inch (25.4 mm) from all panel edges and no closer than 2-inches (50.8 mm) from panel corners. Ensure floor panel end joints are centered on framing members and offset at least one joist bay from the subfloor joints. Floor panels shall be installed perpendicular to the framing and board edges shall be staggered a minimum of 4-inches (101.6 mm) between subfloor and floor panels.
6	Roof Covering	Any roof covering listed and labeled by a recognized third-party certification agency to ASTM E108 as a Class A, B, or C roof covering. Install roof covering per manufacturer's installation instructions.



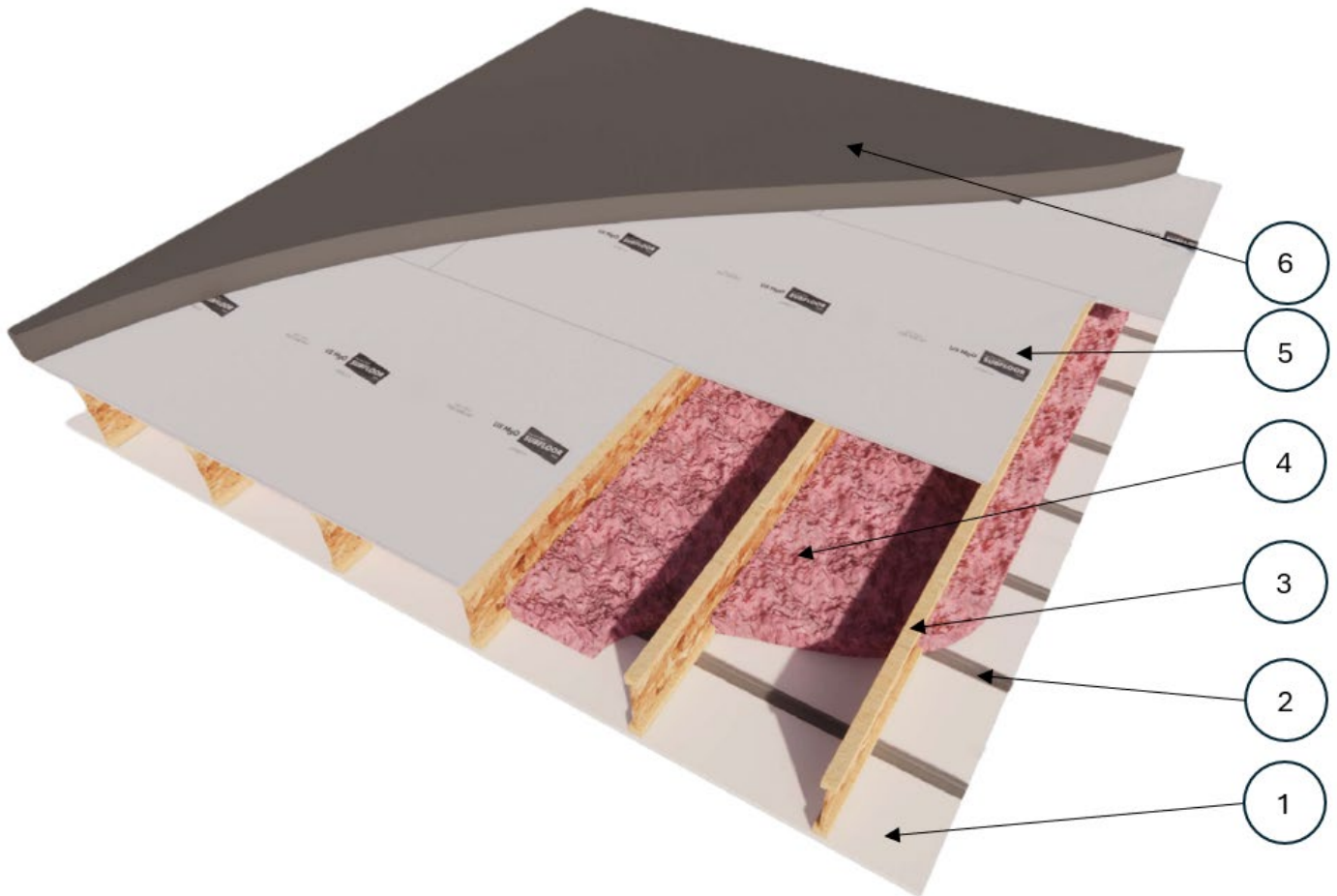
LISTING REPORT

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US MGO COMPANY
3/4-INCH INNOVATION MGO™ SUBFLOOR PANELS
1/2-INCH INNOVATION MGO™ FLOOR PANELS
ASTM E119, UL 263, CAN/ULC-S101
Rating: 1-Hour, Loadbearing Unrestrained Roof/Ceiling Assembly
100% Design Load





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Assembly Details		
Item #	Component	Material Details
1	Ceiling Membrane (A – F)	Install two layers (base and face) of minimum $\frac{5}{8}$ inch (15.9 mm) thick Type C gypsum board. Base layer: Secure gypsum boards to resilient channels using No. 6 Type S bugle-head steel drywall screws at least $1\frac{1}{4}$ inches (31.8 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and 12 inches (304.8 mm) on center in the field. Space fasteners along the long edge so that they sit $1\frac{1}{2}$ inches (38.1 mm) from the edge and so end-joint fasteners sit 3 inches (76.2 mm) into the channel at the panel end. Orient gypsum boards so that the long dimension is perpendicular to the resilient channels and the end joints are offset at least 2 feet (609.6 mm). Face layer: Secure gypsum boards through base layer gypsum boards to resilient channels using Type S bugle-head steel drywall screws at least 2 inches (50.8 mm) long, spaced 8 inches (203.2 mm) on center around the perimeter and in the field. Space fasteners along the long edge so that they sit $1\frac{1}{2}$ inches (38.1 mm) from the edge. End-joints are fastened with Type G screws at least $1\frac{1}{2}$ inches (38.1 mm) long, spaced 8 inches (203.2 mm) on center and $1\frac{1}{2}$ inches (38.1 mm) from panel ends. Orient gypsum boards so that the long dimension is perpendicular to the resilient channels, the edge joints are offset at least 2 feet (609.6 mm) from the base layer edge joints, and the end joints are offset at least 12 inches (304.8 mm) from the base layer end joints. Apply two coats of joint compound over all face layer panel joints, with nominal 2-inch (50.8 mm) wide paper tape embedded in the first coat. Cover all fastener heads with a coat of joint compound to provide a Level 2 finish in accordance with ASTM C840. Use one of the following: A. American Gypsum Company LLC FireBloc® Type C Gypsum Board B. CertainTeed Gypsum, Inc. CertainTeed® Type C Gypsum Board C. National Gypsum Company GoldBond® Fire-Shield C™ Gypsum Board D. Georgia-Pacific Gypsum LLC ToughRock® Fireguard C® Gypsum Board E. United States Gypsum Company (USG) Sheetrock® Brand FireCode C Gypsum Board F. PABCO® Gypsum FLAME CURB® Type C Gypsum Board
2	Resilient Channel	Fasten galvanized steel resilient channels, $\frac{1}{2}$ inch (12.7 mm) deep and at least No. 25 gauge (18 mils) thick, to the underside of the framing using No. 6 Type W bugle-head screws at least $1\frac{5}{8}$ inches (41.3 mm) long. Channels are installed perpendicular to the framing members and spaced no more than 12 inches (304.8 mm) on center, lapped at least 4 inches (101.6 mm) at splices, with an extra channel placed 3 inches (76.2 mm) from each end joint of the ceiling membrane and fastened to the adjacent framing members.
3	Roof Framing	Weyerhaeuser TJI® Prefabricated Wood I-Joists, at least $9\frac{1}{2}$ inches (241.3 mm) deep, spaced no more than 24 inches (609.6 mm) on center. Install joists per the manufacturer's instructions.
4	Insulation (A or B)	Loosely drape insulation over the resilient channels and gypsum board ceiling membrane. Use one of the following: A. Fiberglass batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI ≤ 25 and SDI ≤ 450 or as



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		noncombustible per ASTM E136, with a minimum thickness of 3-1/2 inches (88.9 mm). B. Mineral wool batt insulation of at least R-13, listed and labeled by a recognized third-party certification agency to ASTM E84 with a FSI $\leq$ 25 and SDI $\leq$ 450 or as noncombustible per ASTM E136, with a minimum thickness of 3-1/2 inches (88.9 mm).
5	Roof Sheathing Use either: • A only • B and C • A and C	A. Subfloor: Fasten Tongue-and-groove 3/4-inch (19 mm) INNOVATION MgO™ Subfloor Panels along every framing member using 2-inch (50.8 mm) long 6D ring-shank nails placed maximum 12 inches (304.8 mm) on center in the field and 6 inches (152.4 mm) on center along panel edges. Keep fasteners at least 1 inch (25.4 mm) from any panel edge and at least 2 inches (50.8 mm) from any panel corner. Install panels with long edges perpendicular to the framing and stagger end joints. B. Subfloor: Fasten minimum 23/32-inch (18.3 mm) thick tongue-and-groove wood structural subfloor panels along every framing member using 2-inch (50.8 mm) long 6D ring-shank nails placed maximum 12 inches (304.8 mm) on center. Install panels with long edges perpendicular to the framing and stagger end joints. C. Underlayment: Fasten 1/2-inch (12 mm actual) INNOVATION MgO™ Floor Panels to the top of the subfloor using 6D ring-shank nails at least 2 1/2 inches (63.5 mm) long, placed maximum 12 inches (304.8 mm) on center along every framing member. Stagger underlayment fasteners from the subfloor fasteners, and do not place subfloor fasteners closer than 1-inch (25.4 mm) from all panel edges and no closer than 2-inches (50.8 mm) from panel corners. Ensure floor panel end joints are centered on framing members and offset at least one joist bay from the subfloor joints. Floor panels shall be installed perpendicular to the framing and board edges shall be staggered a minimum of 4-inches (101.6 mm) between subfloor and floor panels.
6	Roof Covering	Any roof covering listed and labeled by a recognized third-party certification agency to ASTM E108 as a Class A, B, or C roof covering. Install roof covering per manufacturer's installation instructions.



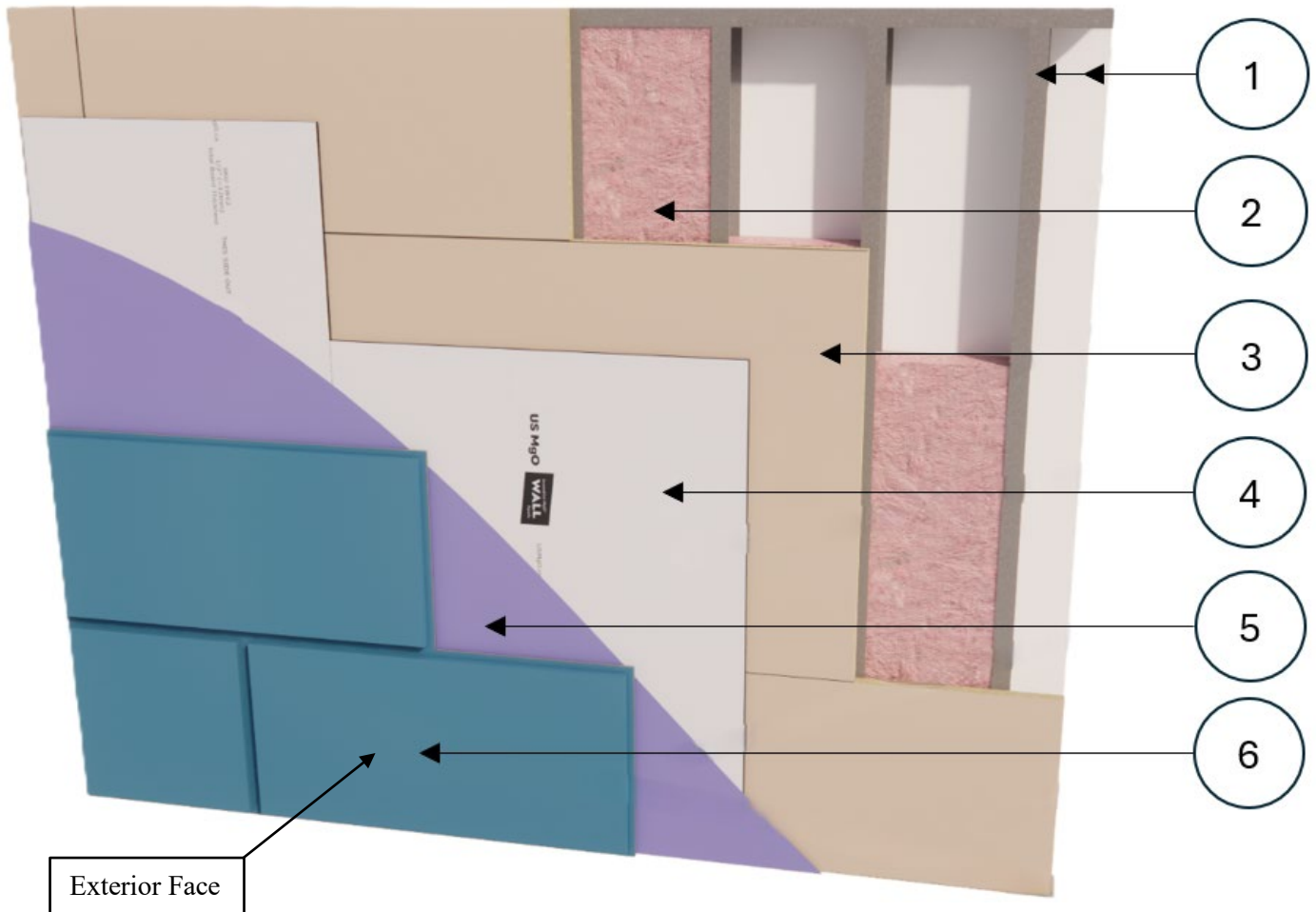
LISTING REPORT

Number: UEL-5074-14

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**US MGO COMPANY
1/2-INCH INNOVATION MGO™ WALL PANELS
NFPA 285**





LISTING REPORT

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Assembly Details		
Item #	Component	Material Details
1	Base Wall System (A, B, or C)	A. Fasten one layer of minimum 5/8 inch (15.9 mm) thick ASTM C1396 Type X or Type C gypsum wallboard to the interior face of minimum 3 3/8 inches (92 mm) deep, minimum No. 20 gauge (33 mils) thick cold-formed steel studs spaced maximum 24 inches (609.6 mm) on center and laterally braced every 4 feet vertically. Install minimum 4 pcf (64 kg/m³) noncombustible mineral wool floor-line firestopping in each stud bay and at every floor line with thickness equal to the depth of the stud cavity. The floor-line firestopping may be friction fit or held in place with metal z-clips. B. Cast concrete walls. C. Concrete masonry walls.
2	Base Wall Cavity Insulation (A – E)	For use in Base Wall System 1A. Subject to approval by the local AHJ. A. None. B. Any noncombustible insulation complying with ASTM E136. C. Faced or unfaced mineral-fiber insulation with an FSI ≤ 25 and SDI ≤ 450 when tested to ASTM E84. D. Faced or unfaced fiberglass batt insulation with an FSI ≤ 25 and SDI ≤ 450 when tested to ASTM E84. E. Huntsman Building Solutions Heatlok® HFO Pro closed-cell spray-applied foam plastic insulation, maximum 3 3/8 inches (92 mm).
3	Exterior Insulation (A or B)	A. Atlas Roofing Corporation AC Foam®-II, Atlas EnergyShield® Pro, Atlas EnergyShield® CGF Pro, or Atlas EnergyShield® XR, maximum 3 1/2 inches (88.9 mm) thick (as a single layer or multiple layers combined). B. Rmax Durasheath®, Rmax Thermasheath, Rmax TSX-8500, Rmax TSX-8510, Rmax ECOMAXci FR, or Rmax ECOMAXci FR White closed-cell rigid polyisocyanurate foam-core panels with facers, maximum 4 1/2 inches (114.3 mm) thick (as a single layer or multiple layers combined).
4	Exterior Sheathing	Install one layer of 1/2 inch (12 mm actual) thick INNOVATION MgO™ Wall Panels directly over the exterior insulation (Item 3).
5	Water-Resistive Barrier (WRB)	VaproShield® WrapShield SA® self-adhered water-resistive barrier, applied in accordance with the manufacturer's published installation instructions.
6	Exterior Cladding (A – K)	Maximum 2-inch (50.8 mm) air gap between the exterior sheathing and exterior cladding system when using A – H. A. Brick: Standard nominal 4-inch (101.6 mm) thick clay brick with veneer anchors placed no more than 24 inches (609.6 mm) on center vertically along each stud, anchored back to the studs per the manufacturer's published methods. B. Thin-set Brick or Stone Veneer: Thin brick or stone at least 1/4 inch (6 mm) thick, conforming to ASTM C1088, adhered to a three-coat exterior cement plaster and lath mortar bed at least 3/4 inch (19 mm) thick.



		C. Stucco: Three-coat exterior cement plaster and lath, at least $\frac{3}{4}$ inch (19 mm) thick. D. Cast concrete: At least $1\frac{1}{2}$ inches (38.1 mm) thick, using any standard closed-joint method. E. Concrete masonry units (CMU): At least 1 inch (25.4 mm) thick, using any standard closed-joint method. F. Natural Stone Veneer: At least 2 inches (50.8 mm) thick, using any standard open- or closed-joint method. G. Cast artificial stone: At least $1\frac{1}{2}$ inches (38.1 mm) thick, conforming to ICC-ES AC51 or ASTM C1670, using any standard installation method. H. Terra cotta cladding: At least $1\frac{1}{4}$ inches (32 mm) thick, using any standard closed-joint method. Maximum $1\frac{1}{2}$-inch (38.1 mm) air gap between the exterior sheathing and exterior cladding system when using I - K. I. Uninsulated Sheet-metal Building Panels (aluminum, zinc, steel, or copper): Install using standard installation methods. The panels must have been successfully tested by their manufacturer to the NFPA 285 test method, and evidence of that NFPA 285 testing and/or a listing by a recognized third-party certification agency shall be provided to the local building official. J. Fiber-Cement Lap Siding: At least $\frac{1}{4}$ inch (6.4 mm) thick, conforming to ASTM C1186 Type A (or ISO 8336 Category A), classified as noncombustible per ASTM E136, installed by any standard closed-joint method per the manufacturer's instructions. K. Metal Composite Material (MCM) System: Any MCM system successfully tested by its manufacturer to the NFPA 285 test method and installed by standard methods. Evidence of NFPA 285 testing and/or a listing by a recognized third-party certification agency shall be provided to the local building official.
7	Window perimeter (Not Shown)	Install steel stud framing at least No. 20 gauge (33 mils) thick around the perimeter of the window opening, with steel flashing at least No. 24 gauge (23.9 mils) thick around the inside perimeter of the opening, running from the interior sheathing of the base wall to the leading edge of the exterior cladding and closing off any openings or gaps.