PREFACE

The main purpose of this book is to serve as a guide in understanding ArmorWall Structural Insulated Sheathing™ integrated fire-rated assembly details for use in commercial and residential projects. It is also testimony to the results of MaxLife Industries’ hard work in innovation, development, and testing. We are excited to help and become part of your current or future projects so as to develop a strong trust in quality, consistency, and efficiency of MaxLife products and services.

Contained within this guide you will find:
- ArmorWall Horizontal and Vertical Recommended Fastening Pattern details as reflected by our factory applied stencil located on each ArmorWall panel.
- ArmorWall fire-rated steel wall assemblies.
- ArmorWall fire-rated wood wall assemblies.
- ArmorWall fire-rated concrete wall assemblies.
- ArmorWall sound attenuation test assemblies and ratings.

Details in this book portray standard wall assembly scenarios. Each assembly has been provided in all standard thickness’s of ArmorWall to aid in design and submittal. Gauge of structural members is portrayed as minimum allowable and spacing is shown as maximum distance. Heavier framing and closer spacing is acceptable. Although many assemblies have been provided in this book, not all possible assemblies may have been covered so please contact MaxLife Industries for further possibilities. It is required that the Design Team and/or Contractor review all local governing code to capture any requirements resulting in changes prior to implementation. MaxLife Industries’ team of professionals is always ready to help in this and other capacities regardless of the stage of each project. You can reach us at 1-844-MAX4YOU (1-844-629-4968) and also review our constantly updating information at www.maxlifeindustries.com

This information is available for your printed or digital use subject to terms, conditions, and limitations of any and all license agreements. Unauthorized duplication or misuse of any material may be in violation of copyright.

MaxLife Industries (MLI) is a manufacturer of commercial and residential building materials. MLI is not a licensed design, engineering or architectural firm and does not provide such professional services. As a courtesy to its customers, MLI offers general, conceptual and recommended installation practices pertaining to products we manufacture. By providing this information, MLI does not make any representations, warranties or promises that the information contained herein complies with any applicable building codes, contractual provisions, regulations, local ordinance, state or federal law or warranties of fitness for any particular use. Any information provided by MLI does not take the place of or eliminate the need for you to obtain architectural, engineering or other design services provided by a licensed design professional, as each particular construction project varies based on size, location, materials used and other factors unforeseeable to MLI.
Various assemblies of ArmorWall Structural Insulated Sheathing™ have been tested to the following standards.

**ASTM INTERNATIONAL**

ASTM International is an organization that develops and delivers voluntary consensus standards used around the world to improve product quality, enhance health and safety, strengthen market access and trade, and build consumer confidence.


**ASTM E72** – Standard Test Methods of Conducting Strength Tests of Panels for Building Construction


**ASTM E96** – Standard Test Methods for Water Vapor Transmission of Materials


**ASTM E283** – Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen


**ASTM E331** – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

**ASTM E357** – Standard Test Method for Determining Air Leakage Rate of Air Barrier Assemblies

---

**NFPA**

National Fire Protection Association is a globally acting U.S. trade association that creates and maintains private, copyrighted standards and codes for usage and adoption by local governments in effort to eliminate death, injury, property and economic loss due to fire, electrical and related hazards.


---

**Florida State Building Code**

The International Code Council is a member-focused association dedicated to developing model codes and standards used in the design, build and compliance process to construct safe, sustainable, affordable and resilient structures. The Florida building code Testing Application Standards are protocols for high velocity hurricane zone testing procedures.

**TAS 201–94** – Impact Test Procedures

**TAS 202–94** – Criteria for Testing Impact and Nonimpact Resistant Building Envelope Components using Uniform Static Air Pressure

**TAS 203–94** – Criteria for Testing Products Subject to Cyclic Wind Pressure Loading
Understanding International Building Code (IBC) Tables 601 and 602 can be a complicated and challenging subject. One of the key attributes to understanding the code is knowing that there can be a requirement for multiple ratings on a single assembly. For example, the code assumes that fire breaks out from the interior and therefore typically a higher fire rating is designed for the interior. Another example is that many jurisdictions around the country require similar, or less-fire rating, depending on the location of the building, the property line, and neighboring buildings. These scenarios result in the need for symmetrical and asymmetrical assemblies on which MaxLife Industries has performed extensive testing.

An asymmetrical assembly would contain dissimilar ratings between the interior and exterior face whereas the symmetrical would contain the same ratings on both interior and exterior faces. In the examples below and throughout this book, and in an effort to help quickly identify symmetry, the fire symbols each state the fire rating.

705.5 Fire-resistance ratings. Exterior wall shall be fire–resistance rated in accordance with table 601 and 602 and this section. The required fire–resistance rating of exterior walls with a fire separation distance of greater than 10 feet (3048 mm) shall be rated for exposure to fire from the inside. The required fire–resistance rating of exterior walls with a fire separation distance of less than or equal to 10 feet shall be rated for exposure to fire from both sides.
CERTIFICATE OF COMPLIANCE

Certificate Number 20181004-R39485
Report Reference R39485-20181001
Issue Date 2018-OCTOBER-04

Issued to: Max-Life LLC
1225 Chuck Taylor Lane
Salisbury NC 28145

This is to certify that representative samples of EXTERIOR WALL SYSTEM COMPONENTS; EXTERIOR WALL SYSTEMS
Insulated exterior sheathing wall board designated "ArmorWall".

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: NFPA 285, STANDARD FIRE TEST METHOD FOR EVALUATION OF FIRE PROPAGATION CHARACTERISTICS OF EXTERIOR NON-LOAD-BEARING WALL ASSEMBLIES CONTAINING COMBUSTIBLE COMPONENTS

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.
ArmorWall Installation Recommended Fastening Pattern

Vertical Installation Standard Fastener Position Symbol

Horizontal Installation Standard Fastener Position Symbol

Vertical and Horizontal Shared Installation Standard Fastener Position Symbol
ArmourWall
SOUND TRANSMISSION CLASS RATINGS
STC = 49 dB
Test: NGC 2018189
2" ARMORWALL STRUCTURAL INSULATED SHEATHING™
5 1/2" GLASS FIBER INSULATION
6" 20 GAUGE METAL STUDS (16" OC)
5/8" INTERIOR GYPSUM

STC = 47 dB
Test: NGC 2018185
2 3/4" ARMORWALL STRUCTURAL INSULATED SHEATHING™
5 1/2" GLASS FIBER INSULATION
6" 20 GAUGE METAL STUDS (16" OC)
5/8" INTERIOR GYPSUM

STC = 47 dB
Test: NGC 2018188
3 3/4" ARMORWALL STRUCTURAL INSULATED SHEATHING™
5 1/2" GLASS FIBER INSULATION
6" 20 GAUGE METAL STUDS (16" OC)
5/8" INTERIOR GYPSUM
STC = 52 dB
Test: NGC 2018190
2" ARMORWALL STRUCTURAL INSULATED SHEATHING™
5 1/2" GLASS FIBER INSULATION
6" 20 GAUGE METAL STUDS (16" OC)
(2) LAYERS 5/8" INTERIOR GYPSUM

STC = 49 dB
Test: NGC 2018186
2-3/4" ARMORWALL STRUCTURAL INSULATED SHEATHING™
5 1/2" GLASS FIBER INSULATION
6" 20 GAUGE METAL STUDS (16" OC)
(2) LAYERS 5/8" INTERIOR GYPSUM

STC = 50 dB
Test: NGC 2018187
3-3/4" ARMORWALL STRUCTURAL INSULATED SHEATHING™
5 1/2" GLASS FIBER INSULATION
6" 20 GAUGE METAL STUDS (16" OC)
(2) LAYERS 5/8" INTERIOR GYPSUM
ArmourWall

TESTED AND APPROVED
ONE-HALF HOUR
SYMMETRICAL STEEL
STUD ASSEMBLIES
1. 5/8" USG Types SCX, ULIX Gypsum installed vertically or horizontally
2. 6" 20 gauge galvanized or steel stud 16 O.C. maximum
3. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
4. Exterior Facing Assembly
1. 5/8" USG Types SCX, ULIX Gypsum installed vertically or horizontally
2. 6" 20 gauge galvanized or steel stud 16 O.C. maximum
3. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
4. Exterior Facing Assembly
1. 5/8" USG Types SCX, ULX Gypsum installed vertically or horizontally
2. 6" 20 gauge galvanized or steel stud 16 O.C. maximum
3. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
4. Exterior Facing Assembly
1. 5/8" USG Types SCX, ULX Gypsum installed vertically or horizontally
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. 5/8" USG Types SCX, ULIX Gypsum installed vertically or horizontally
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. 5/8" USG Types SCX, ULIX Gypsum installed vertically or horizontally
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classificaiton marking
4. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
ArmourWall
TESTED AND APPROVED
ONE HOUR
ASYMMETRICAL STEEL
STUD ASSEMBLIES
1. 5/8" USG Types SCX, ULX Gypsum installed vertically or horizontally
2. 6" 20 gauge galvanized or steel stud 16 O.C. maximum
3. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
4. Exterior Facing Assembly
1. 5/8" USG Types SCX, ULIX Gypsum installed vertically or horizontally
2. 6" 20 gauge galvanized or steel stud 16 O.C. maximum
3. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
4. Exterior Facing Assembly
1. 5/8" USG Types SCX, ULIX Gypsum installed vertically or horizontally
2. 6” 20 gauge galvanized or steel stud 16 O.C. maximum
3. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
4. Exterior Facing Assembly
1. 5/8" USG Types SCX, ULIX Gypsum installed vertically or horizontally
2. Minimum 3 5/8" 20 gauge glavanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. 5/8" USG Types SCX, ULIX Gypsum installed vertically or horizontally
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. 5/8” USG Types SCX, ULIX Gypsum installed vertically or horizontally
2. Minimum 3 5/8” 20 gauge galvanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 3 3/4” ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
ArmorWall
TESTED AND APPROVED
ONE HOUR
SYMMETRICAL STEEL
STUD ASSEMBLIES
1. (2) Layers 5/8" USG types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge galvanized or steel stud 16 O.C. maximum
3. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
4. Exterior Facing Assembly
1. (2) Layers 5/8” USG types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
2. 6” 20 gauge galvanized or steel stud 16 O.C. maximum
3. 2 3/4” ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
4. Exterior Facing Assembly
1 Hour Symmetrical Load Bearing Steel Stud Assembly with 3 3/4" ArmorWall

1. (2) Layers 5/8" USG types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge glavanized or steel stud 16 O.C. maximum
3. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
4. Exterior Facing Assembly
1. (2) Layers 5/8” USG types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
2. Minimum 3 5/8” 20 gauge glavanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classificaiton marking
4. 2” ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. (2) Layers 5/8" USG types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge glavanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1 Hour Symmetrical Load Bearing Steel Stud Assembly with 3 3/4" ArmorWall

1. (2) Layers 5/8" USG types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. 5/8" Type X gypsum installed vertically
2. Minimum 3 5/8" 20 gauge glavanized or steel stud 24 O.C. maximum
3. Fill stud cavity with Mineral Wool Batt Insulation
4. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. 5/8" Type X gypsum installed vertically
2. Minimum 3 5/8" 20 gauge glavanized or steel stud 24 O.C. maximum
3. Fill stud cavity with Mineral Wool Batt Insulation
4. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. 5/8" Type X gypsum installed vertically
2. Minimum 3 5/8" 20 gauge glavanized or steel stud 24 O.C. maximum
3. Fill stud cavity with Mineral Wool Batt Insulation
4. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
ArmorWall
TESTED AND APPROVED
TWO HOUR
ASYMMETRICAL STEEL STUD ASSEMBLIES
2 Hour Asymmetrical Load Bearing Steel Stud Assembly with 2" ArmorWall

1. (2) Layers 5/8" Type X Gypsum installed vertically, stagger seam by minimum one stud
2. Minimum 3 5/8" 20 gauge glavanized or steel stud 24 O.C. maximum
3. Fill stud cavity with Mineral Wool Batt Insulation
4. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. (2) Layers 5/8" Type X Gypsum installed vertically, stagger seam by minimum one stud
2. Minimum 3 5/8" 20 gauge glavanized or steel stud 24 O.C. maximum
3. Fill stud cavity with Mineral Wool Batt Insulation
4. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. (2) Layers 5/8" Type X Gypsum installed vertically, stagger seam by minimum one stud
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 24 O.C. maximum
3. Fill stud cavity with Mineral Wool Batt Insulation
4. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge glavanized or steel stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classificaiton marking
4: Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8” USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
2. 6” 20 gauge galvanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. Minimum 1/2” regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2 3/4” ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge galvanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge galvanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge galvanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge galvanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification Marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8” USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
2. Minimum 3 5/8” 20 gauge galvanized or steel stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classificaiton marking
4: Minimum 1/2” regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 3 3/4” ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge glavanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classificaiton marking
4: Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (3) Layers 1/2” proprietary gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
2. 6” 20 gauge galvanized or steel stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: Minimum 1/2” regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2” ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (3) Layers 1/2" proprietary gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge glavanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (3) Layers 1/2" proprietary gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge galvanized or steel stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classificaiton marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (3) Layers 1/2" proprietary gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5: 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (3) Layers 1/2" proprietary gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: Minimum 1/2" regular ( unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (3) Layers 1/2" proprietary gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge glavanized or steel stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classificaiton marking
4: Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
ArmorWall
TESTED AND APPROVED
TWO HOUR
SYMMETRICAL STEEL
STUD ASSEMBLIES
1. (2) Layers 5/8" USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge galvanized or steel stud 16 O.C. Maximum
3: (2) Layers 5/8" USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
4. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge galvanized or steel stud 16 O.C. Maximum
3: (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
4. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
2 Hour Symmetrical Load Bearing Steel Stud Assembly with 3 3/4" ArmorWall

1. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge galvanized or steel stud 16 O.C. Maximum
3. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
4. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. (2) Layers 5/8” USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
2. Minimum 3 5/8” 20 gauge galvanized or steel stud 16 O.C. maximum
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. (2) Layers 5/8” USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
5. 2” ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
5. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners  
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum  
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking  
4. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners  
5. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally  
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge glavanized or steel stud 16 O.C. Maximum
3. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
4. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge galvanized or steel stud 16 O.C. Maximum
3. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
4. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" 20 gauge galvanized or steel stud 16 O.C. Maximum
3. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
4. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultralux Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
5. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
2 Hour Symmetrical Load Bearing Steel Stud Assembly with 2 3/4" ArmorWall

1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge galvanized or steel stud 16 O.C. maximum
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
5. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge glavanized or steel stud 16 O.C. maximum
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
5. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 5/8" 20 gauge glavanized or steel stud 24 O.C. maximum
3. 2 3/4" ArmorWall SP Structural Insulated Sheathing™ panel installed vertically or horizontally
4. Exterior Facing Assembly
1. (2) Layers 5/8” USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
2. Minimum 3 5/8” 20 gauge galvanized or steel stud 24 O.C. maximum
3. 3 3/4” ArmorWall SP Structural Insulated Sheathing™ panel installed vertically or horizontally
4. Exterior Facing Assembly
1. (2) Layers 5/8” USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
2. Minimum 3 5/8” 20 gauge galvanized or steel stud 24 O.C. maximum
3. 4 1/4” ArmorWall SP Structural Insulated Sheathing™ panel installed vertically or horizontally
4. Exterior Facing Assembly
1: (2) Layers 5/8" USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2: Minimum 3 5/8" 20 gauge galvanized or steel stud 24 O.C. maximum
3: Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: 2 3/4" ArmorWall SP Structural Insulated Sheathing™ panel installed vertically or horizontally
5: Exterior Facing Assembly
1: (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2: Minimum 3 5/8" 20 gauge galvanized or steel stud 24 O.C. maximum
3: Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: 3 3/4" ArmorWall SP Structural Insulated Sheathing™ panel installed vertically or horizontally
5: Exterior Facing Assembly
1: (2) Layers 5/8" USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2: Minimum 3 5/8" 20 gauge glavanized or steel stud 24 O.C. maximum
3: Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: 4 1/4" ArmorWall SP Structural Insulated Sheathing™ panel installed vertically or horizontally
5: Exterior Facing Assembly
ArmorWall
TESTED AND APPROVED
ONE-HALF HOUR
SYMMETRICAL WOOD
STUD ASSEMBLIES
1. 5/8" USG Types SCX, ULIX Gypsum installed vertically or horizontally
2. Minimum 3 1/2" wood stud 16" O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. 5/8" USG Types SCX, ULX Gypsum installed vertically or horizontally
2. Minimum 3 1/2" wood stud 16" O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. 5/8" USG Types SCX, ULIX Gypsum installed vertically or horizontally
2. Minimum 3 1/2" wood stud 16" O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
ArmorWall
TESTED AND APPROVED
ONE HOUR
ASYMMETRICAL WOOD
STUD ASSEMBLIES
1. 5/8" USG Types SCX, ULIX Gypsum installed vertically or horizontally
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. 5/8" USG Types SCX, ULX Gypsum installed vertically or horizontally
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. 5/8" USG Types SCX, ULIX Gypsum installed vertically or horizontally
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
ArmourWall
TESTED AND APPROVED
ONE HOUR
SYMMETRICAL WOOD
STUD ASSEMBLIES
1. (2) Layers 5/8" USG types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16" O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. (2) Layers 5/8" USG types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16" O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. (2) Layers 5/8" USG types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16" O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. 5/8" Type X Gypsum installed vertically
2. Minimum 3 1/2" wood stud 24" O.C. maximum
3. Fill stud cavity with Mineral Wool Batt Insulation
4. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. 5/8” Type X Gypsum installed vertically
2. Minimum 3 1/2” wood stud 24” O.C. maximum
3. Fill stud cavity with Mineral Wool Batt Insulation
4. 2 3/4” ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1 Hour Symmetrical Load Bearing Wood Stud Assembly with 3 3/4" ArmorWall

1. 5/8" Type X Gypsum installed vertically
2. Minimum 3 1/2" wood stud 24" O.C. maximum
3. Fill stud cavity with Mineral Wool Batt Insulation
4. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
ArmorWall
TESTED AND APPROVED
TWO HOUR
ASYMMETRICAL STEEL
STUD ASSEMBLIES
1. (2) Layers 5/8" Type X Gypsum installed vertically, stagger seam by minimum one stud
2. Minimum 3 1/2" wood stud 24" O.C. maximum
3. Fill stud cavity with Mineral Wool Batt Insulation
4. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. (2) Layers 5/8" Type X Gypsum installed vertically, stagger seam by minimum one stud
2. Minimum 3 1/2" wood stud 24" O.C. maximum
3. Fill stud cavity with Mineral Wool Batt Insulation
4. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. (2) Layers 5/8" Type X Gypsum installed vertically, stagger seam by minimum one stud
2. Minimum 3 1/2" wood stud 24" O.C. maximum
3. Fill stud cavity with Mineral Wool Batt Insulation
4. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" wood stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" wood stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classificaiton marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" wood stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5: 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners.
2. 6" wood stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" wood stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" wood stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8” USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
2. Minimum 3 1/2” wood stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: Minimum 1/2” regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2 3/4” ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8” USG Types SCX, ULIUX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
2. Minimum 3 1/2” wood stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: Minimum 1/2” regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 3 3/4” ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classificaiton marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classificaiton marking
4: Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4” USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: Minimum 1/2” regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 3 3/4” ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (3) Layers 1/2" proprietary gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" wood stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (3) Layers 1/2" proprietary gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" wood stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classificalution marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (3) Layers 1/2" proprietary gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. 6" wood stud 16 O.C. maximum
3. (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (3) Layers 1/2" proprietary gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (3) Layers 1/2" proprietary gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (3) Layers 1/2" proprietary gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3: (Optional) Any glass fiber or mineral wool insulation bearing the UL Classificaiton marking
4: Minimum 1/2" regular (unrated) exterior gypsum sheathing installed vertically or horizontally
5. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
ArmorWall
TESTED AND APPROVED
TWO HOUR
SYMMETRICAL WOOD
STUD ASSEMBLIES
1. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
5. 2" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
5. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
5. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4” USG Ultragurde Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
2. Minimum 3 1/2” wood stud 16 O.C. maximum
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. (2) Layers 5/8” USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
5. 2” ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
5. 2 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 3/4" USG Ultracode Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 16 O.C. maximum
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. (2) Layers 5/8" USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
5. 3 3/4" ArmorWall Structural Insulated Sheathing™ panel installed vertically or horizontally
6. Exterior Facing Assembly
1. (2) Layers 5/8” USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
2. Minimum 3 1/2” wood stud 24 O.C. maximum
3: 2 3/4” ArmorWall SP Structural Insulated Sheathing™ panel installed vertically or horizontally
4: Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 24 O.C. maximum
3: 3 3/4" ArmorWall SP Structural Insulated Sheathing™ panel installed vertically or horizontally
4: Exterior Facing Assembly
2 Hour Symmetrical Load Bearing Wood Stud Assembly with 4 1/4" ArmorWall SP

1. (2) Layers 5/8" USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 24 O.C. maximum
3: 4 1/4" ArmorWall SP Structural Insulated Sheathing™ panel installed vertically or horizontally
4: Exterior Facing Assembly
1. (2) Layers 5/8” USG Types SCX, ULIX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
2. Minimum 3 1/2” wood stud 24 O.C. maximum
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: 2 3/4” ArmorWall SP Structural Insulated Sheathing™ panel installed vertically or horizontally
5: Exterior Facing Assembly
1. (2) Layers 5/8" USG Types SCX, ULX Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6" from base layer fasteners
2. Minimum 3 1/2" wood stud 24 O.C. maximum
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking
4: 3 3/4" ArmorWall SP Structural Insulated Sheathing™ panel installed vertically or horizontally
5: Exterior Facing Assembly
1. (2) Layers 5/8” USG Types SCX, ULI X Gypsum installed vertically, stagger seam by minimum one stud, second layer of fastener to be offset 6” from base layer fasteners
2. Minimum 3 1/2" wood stud 24 O.C. maximum
3. Any glass fiber or mineral wool insulation bearing the UL Classification marking
4. 4 1/4" ArmorWall SP Structural Insulated Sheathing™ panel installed vertically or horizontally
5. Exterior Facing Assembly