

Fire-Rated Assemblies
Georgia-Pacific Wood Products LLC

PR-S202

Revised June 25, 2018

Products: FiberStrong[®], GP, and APA Rimboards
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Canada P0J 1H0
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www.buildgpc.com

1. Basis of the product report:
 - 2018, 2015, 2012, and 2009 International Building Code (IBC): Sections 104.11 Alternative materials, 703 Fire-Resistance Ratings and Fire Tests, 721 Prescriptive Fire Resistance, and 722.6 Wood assemblies
 - 2018 and 2015 International Residential Code (IRC): Sections R104.11 Alternative materials and R302.13 Fire protection of floors
 - 2012 and 2009 IRC: Sections R104.11 Alternative materials and R501.3 (2012 IRC only) Fire protection of floors
 - 2015 National Building Code of Canada (NBCC): Clause 1.2.1.1 of Division A, Clauses 3.1.7, 4.1, 4.3.1.1, 9.10.3.1, 9.11, and 9.23.4.2 of Division B, Table 9.10.3.1.-B, and Appendix D
 - American Wood Council Design for Code Acceptance DCA 3, Fire-Rated Wood-Frame Wall and Floor/Ceiling Assemblies
 - APA System Report SR-405
 - ASTM E119 and CAN/ULC S101 full-scale fire test reports, and engineering analyses
2. Product description:

FiberStrong[®], GP, and APA rimboards covered in this report are made with OSB in accordance with ANSI/APA PRR 410 and the in-plant manufacturing standard approved by APA.
3. Design properties:

Design properties for FiberStrong, GP, and APA rimboards are provided in ANSI/APA PRR 410 in the U.S. and CCMC 13237-L in Canada.
4. Product installation:

FiberStrong, GP, and APA rimboards covered in this report shall be installed in accordance with the recommendations provided by the manufacturer (www.buildgpc.com/engineered-lumber).
5. Fire-rated assemblies:

FiberStrong, GP, and APA rimboard assemblies have been shown through testing and engineering analysis to achieve the fire resistance ratings described in this report. Fire-rated assemblies for FiberStrong, GP, and APA rimboards shall be constructed in accordance with the prescriptive requirements provided in this report or recommended by the manufacturer (see link above).
6. Limitations:
 - a) FiberStrong, GP, and APA rimboards covered in this report shall be designed in accordance with the code using the design properties specified in ANSI/APA PRR 410 in the U.S. and CCMC 13237-L in Canada.
 - b) FiberStrong, GP, and APA rimboards covered in this report are limited to dry service conditions where the average equilibrium moisture content of sawn lumber is less than 16 percent in the U.S. and the average equilibrium moisture content of solid-sawn lumber over a year is 15 percent or less and does not exceed 19 percent in Canada.

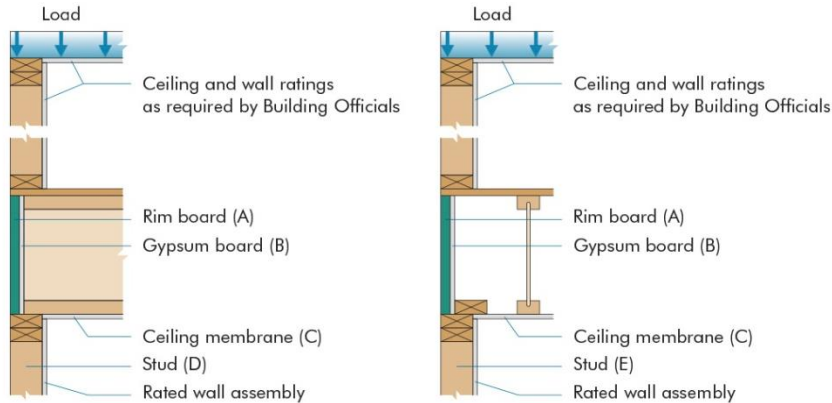
- c) FiberStrong, GP, and APA rimboards covered in this report are produced at the Georgia-Pacific Wood Products LLC facilities under a quality assurance program audited by APA.
 - d) This report is subject to re-examination in one year.
7. Identification:
FiberStrong, GP, and APA rimboards described in this report are identified by a label bearing the manufacturer's name (Georgia-Pacific Wood Products LLC) and/or trademark, the APA assigned plant number (530), the product grade, the APA logo, and a means of identifying the date of manufacture.



Georgia-Pacific Assembly RB1

Fire Resistance Rated Rim Board Assembly

This fire resistance design is listed in accordance with ASTM E119 and CAN/ULC S101



End Wall Configuration Base Assembly

| Rim Board Thickness, in. | Rim Board Protection | Ceiling Membrane Req. for 1-hr. Rim Assembly | Ceiling Membrane Req. for 2-hr. Rim Assembly | Stud Size | Stud Size |
|--------------------------|----------------------|--|--|-----------|-----------|
| A | B | C | | D | E |
| 1 | Unprotected | 1-hour Fire-rated Assembly | 2-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | 5/8" Type X | 2-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | 5/8" Type X | 90-min Fire-rated Assembly | 2x4 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | 1-hour Fire-rated Assembly | 2x6 | 2x4 |
| | (2) 5/8" Type X | No Ceiling Required | 5/8" Type X | 2x6 | 2x4 |
| 1-1/8 | Unprotected | 1-hour Fire-rated Assembly | 2-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | 5/8" Type X | 2-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | 5/8" Type X | 90-min Fire-rated Assembly | 2x4 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | 1-hour Fire-rated Assembly | 2x6 | 2x4 |
| | (2) 5/8" Type X | No Ceiling Required | 5/8" Type X | 2x6 | 2x4 |
| 1-1/4 | Unprotected | 1-hour Fire-rated Assembly | 2-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | 5/8" Type X | 2-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | 5/8" Type X | 90-min Fire-rated Assembly | 2x6 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | 1-hour Fire-rated Assembly | 2x6 | 2x4 |
| | (2) 5/8" Type X | No Ceiling Required | 5/8" Type X | 2x6 | 2x4 |

- Rim assembly for fire from inside of structure.
- Gypsum wallboard shown on the ceiling is to protect the Rim Board only. It does not necessarily cause the floor assembly to be rated.
- Attach 1-layer Type X (1/2 or 5/8-inch) gypsum wallboard to Rim Board with 1-1/2-inch Type W drywall screws spaced 12 inches o.c.
- Attach 2-layer Type X (1/2 or 5/8-inch) gypsum wallboards to Rim Board with 2-inch Type W drywall screws spaced 12 inches o.c.
- Provide min. 1-3/4-inch bearing for I-joist.
- Use only fire rated gypsum wallboard. Type C may be substituted for Type X.
- Rim Board and gypsum wallboard thickness are shown as minimums. Thicker Rim Board and gypsum wallboard may be substituted.
- When 2-layer gypsum wallboards are used, I-joist end nails shall be 16d box (0.135 inch x 3-1/2 inches) nails.
- Rim board needs to be sized for vertical and lateral loads.

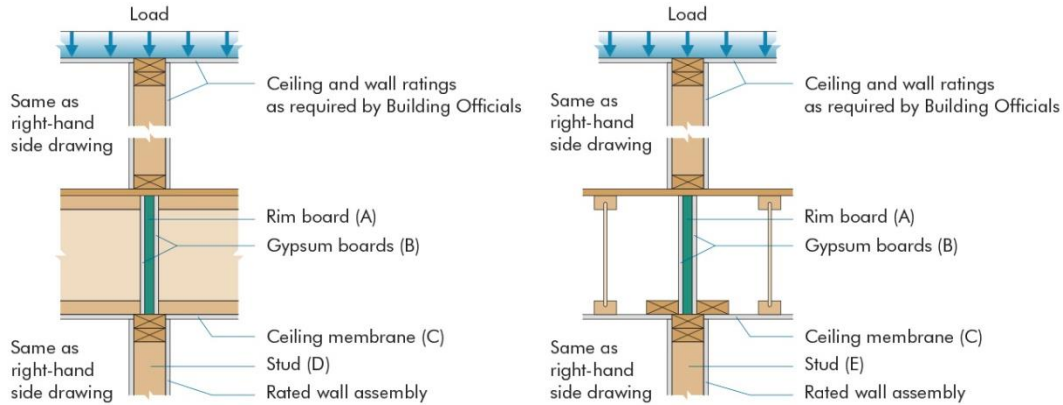
REPRESENTING THE ENGINEERED WOOD INDUSTRY



Georgia-Pacific Assembly RB2

Fire Resistance Rated Rim Board Assembly

This fire resistance design is listed in accordance with ASTM E119 and CAN/ULC S101



Single Wall Configuration Base Assembly

| Rim Board Thickness, in. | Rim Board Protection | Ceiling Membrane Req. for 1-hr. Rim Assembly | Ceiling Membrane Req. for 2-hr. Rim Assembly | Stud Size | Stud Size |
|--------------------------|----------------------|--|--|-----------|-----------|
| A | B | C | C | D | E |
| 1 | Unprotected | 45-min Fire-rated Assembly | 2-hour Fire-rated Assembly | 2x6 | 2x4 |
| | (1) 1/2" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x6 | 2x6 |
| | (1) 5/8" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x8 | 2x6 |
| | (2) 1/2" Type X | No Ceiling Required | 5/8" Type X | 2x8 | 2x6 |
| | (2) 5/8" Type X | No Ceiling Required | 1/2" Type X | 2x8 | 2x6 |
| 1-1/8 | Unprotected | 45-min Fire-rated Assembly | 2-hour Fire-rated Assembly | 2x6 | 2x4 |
| | (1) 1/2" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x8 | 2x6 |
| | (1) 5/8" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x8 | 2x6 |
| | (2) 1/2" Type X | No Ceiling Required | 5/8" Type X | 2x8 | 2x6 |
| | (2) 5/8" Type X | No Ceiling Required | 1/2" Type X | 2x8 | 2x6 |
| 1-1/4 | Unprotected | 5/8" Type X | 2-hour Fire-rated Assembly | 2x6 | 2x4 |
| | (1) 1/2" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x8 | 2x6 |
| | (1) 5/8" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x8 | 2x6 |
| | (2) 1/2" Type X | No Ceiling Required | 1/2" Type X | 2x8 | 2x6 |
| | (2) 5/8" Type X | No Ceiling Required | 1/2" Type X | 2x8 | 2x6 |

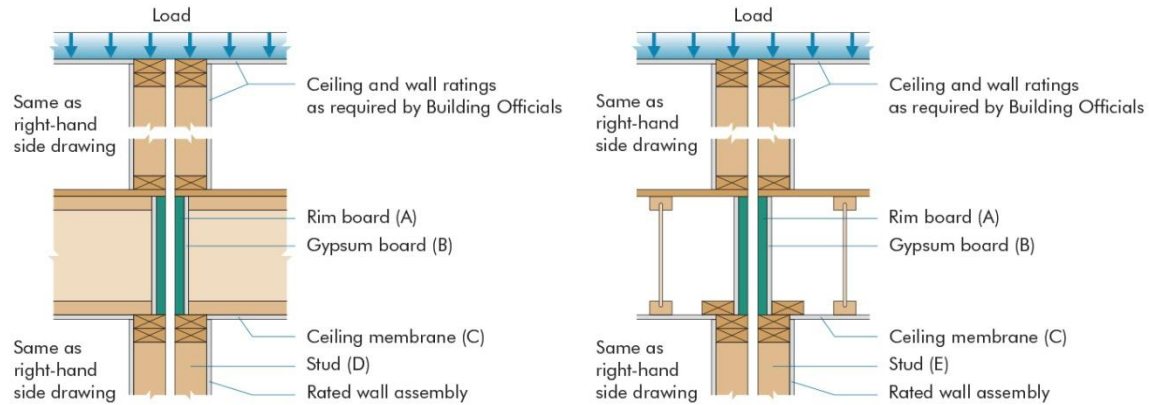
- 1) Rim assembly for fire from either side of wall.
- 2) Gypsum wallboard shown on the ceiling is to protect the Rim Board only. It does not necessarily cause the floor assembly to be rated.
- 3) Attach 1-layer Type X (1/2 or 5/8-inch) gypsum wallboard to Rim Board with 1-1/2-inch Type W drywall screws spaced 12 inches o.c.
- 4) Attach 2-layer Type X (1/2 or 5/8-inch) gypsum wallboards to Rim Board with 2-inch Type W drywall screws spaced 12 inches o.c.
- 5) Provide min. 1-3/4-inch bearing for I-joint.
- 6) Use only fire rated gypsum wallboard. Type C may be substituted for Type X.
- 7) Rim Board and gypsum wallboard thickness are shown as minimums. Thicker Rim Board and gypsum wallboard may be substituted.
- 8) Toe nailing from the I-joint flange to the rim is permitted. When 2-layer (or more) gypsum wallboards are used, I-joint end nails shall be 16d box (0.135 inch x 3-1/2 inches) nails.
- 9) Rim board needs to be sized for vertical and lateral loads.

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Georgia-Pacific Assembly RB3 Fire Resistance Rated Rim Board Assembly

This fire resistance design is listed in accordance with ASTM E119 and CAN/ULC S101



Double Wall Configuration with Load Transfer Base Assembly

| Rim Board Thickness, in. | Rim Board Protection | Ceiling Membrane Req. for 1-hr. Rim Assembly | Ceiling Membrane Req. for 2-hr. Rim Assembly | Stud Size | Stud Size |
|--------------------------|----------------------|--|--|-----------|-----------|
| A | B | C | C | D | E |
| 1 | Unprotected | 1/2" Type X | 90-min Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | No Ceiling Required | 1-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | No Ceiling Required | 45-min Fire-rated Assembly | 2x4 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | No Ceiling Required | 2x6 | 2x4 |
| 1-1/8 | Unprotected | 1/2" Type X | 90 min Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | No Ceiling Required | 1-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | No Ceiling Required | 5/8" Type X | 2x4 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | No Ceiling Required | 2x6 | 2x4 |
| 1-1/4 | Unprotected | 1/2" Type X | 90 min Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | No Ceiling Required | 45-min Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | No Ceiling Required | 5/8" Type X | 2x6 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | No Ceiling Required | 2x6 | 2x4 |
| 1-1/4 | (2) 5/8" Type X | No Ceiling Required | No Ceiling Required | 2x6 | 2x4 |

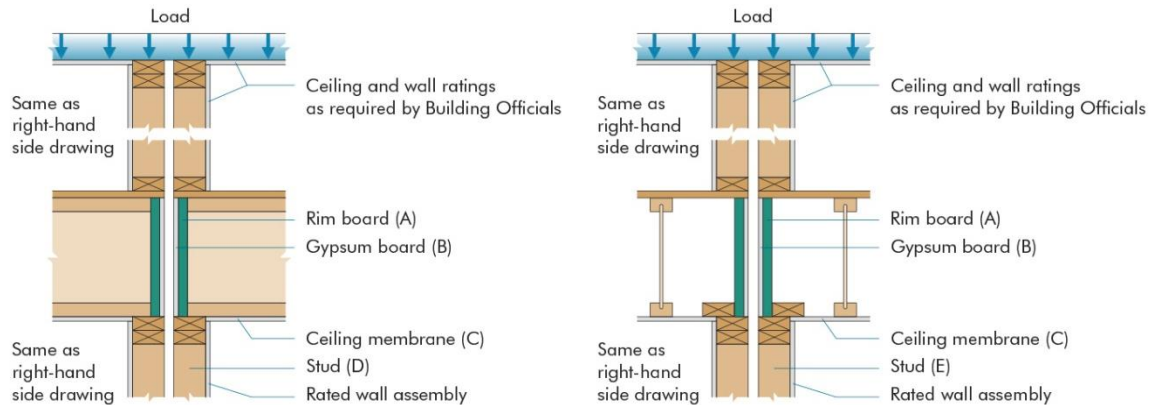
- 1) Rim assembly for fire from either side of wall. "With load transfer" assumes load transfers to the adjacent rim board if the fire exposed rim board fails.
- 2) Gypsum wallboard shown on the ceiling is to protect the Rim Board only. It does not necessarily cause the floor assembly to be rated.
- 3) Attach 1-layer Type X (1/2 or 5/8-inch) gypsum wallboard to Rim Board with 1-1/2-inch Type W drywall screws spaced 12 inches o.c.
- 4) Attach 2-layer Type X (1/2 or 5/8-inch) gypsum wallboards to Rim Board with 2-inch Type W drywall screws spaced 12 inches o.c.
- 5) Provide min. 1-3/4-inch bearing for I-joist.
- 6) Use only fire rated gypsum wallboard. Type C may be substituted for Type X.
- 7) Rim Board and gypsum wallboard thickness are shown as minimums. Thicker Rim Board and gypsum wallboard may be substituted.
- 8) Toe nailing from the I-joist flange to the rim is permitted. When 2-layer gypsum wallboards are used, I-joist end nails shall be 16d box (0.135 inch x 3-1/2 inches) nails.
- 9) Rim board needs to be sized for vertical and lateral loads.

REPRESENTING THE ENGINEERED WOOD INDUSTRY



Georgia-Pacific Assembly RB4 Fire Resistance Rated Rim Board Assembly

This fire resistance design is listed in accordance with ASTM E119 and CAN/ULC S101



Double Wall Configuration with Load Transfer Base Assembly

| Rim Board Thickness, in. | Rim Board Protection | Ceiling Membrane Req. for 1-hr. Rim Assembly | Ceiling Membrane Req. for 2-hr. Rim Assembly | Stud Size | Stud Size |
|--------------------------|----------------------|--|--|-----------|-----------|
| A | B | C | C | D | E |
| 1 | Unprotected | 1/2" Type X | 90-min Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | No Ceiling Required | 1-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | No Ceiling Required | 1-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | 1/2" Type X | 2x6 | 2x4 |
| 1-1/8 | Unprotected | 1/2" Type X | 90 min Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | No Ceiling Required | 1-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | No Ceiling Required | 1-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | 1/2" Type X | 2x6 | 2x4 |
| 1-1/4 | Unprotected | 1/2" Type X | 90 min Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | No Ceiling Required | 1-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | No Ceiling Required | 45-min Fire-rated Assembly | 2x6 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | 1/2" Type X | 2x6 | 2x4 |
| | (2) 5/8" Type X | No Ceiling Required | No Ceiling Required | 2x6 | 2x4 |

- 1) Rim assembly for fire from either side of wall. "With load transfer" assumes load transfers to the adjacent rim board if the fire exposed rim board fails.
- 2) Gypsum wallboard shown on the ceiling is to protect the Rim Board only. It does not necessarily cause the floor assembly to be rated.
- 3) Attach 1-layer Type X (1/2 or 5/8-inch) gypsum wallboard to Rim Board with 1-1/2-inch Type W drywall screws spaced 12 inches o.c.
- 4) Attach 2-layer Type X (1/2 or 5/8-inch) gypsum wallboards to Rim Board with 2-inch Type W drywall screws spaced 12 inches o.c.
- 5) Provide min. 1-3/4-inch bearing for I-joist.
- 6) Use only fire rated gypsum wallboard. Type C may be substituted for Type X.
- 7) Rim Board and gypsum wallboard thickness are shown as minimums. Thicker Rim Board and gypsum wallboard may be substituted.
- 8) Toe nailing from the I-joist flange to the rim is permitted. When 2-layer gypsum wallboards are used, I-joist end nails shall be 16d box (0.135 inch x 3-1/2 inches) nails.
- 9) Rim board needs to be sized for vertical and lateral loads.

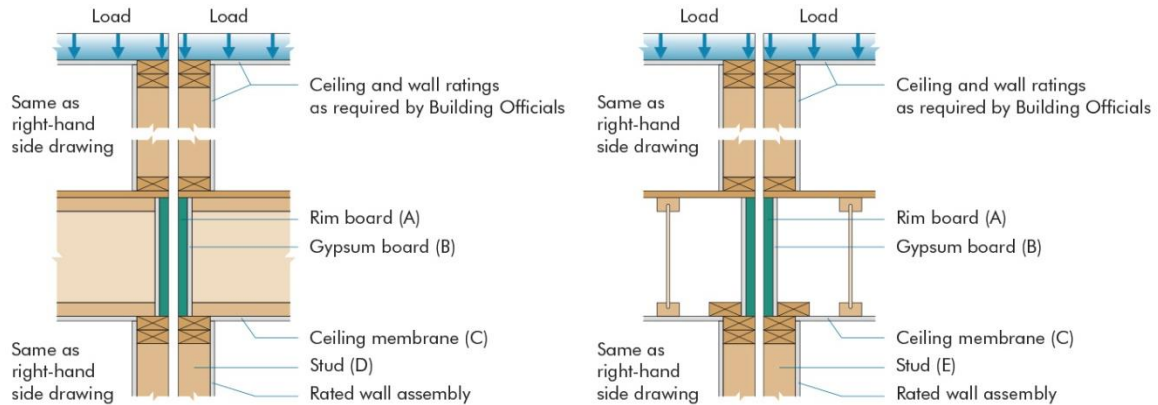
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Georgia-Pacific Assembly RB5

Fire Resistance Rated Rim Board Assembly

This fire resistance design is listed in accordance with ASTM E119 and CAN/ULC S101



Double Wall Configuration with No Load Transfer Base Assembly

| Rim Board Thickness, in. | Rim Board Protection | Ceiling Membrane Req. for 1-hr. Rim Assembly | Ceiling Membrane Req. for 2-hr. Rim Assembly | Stud Size | Stud Size |
|--------------------------|----------------------|--|--|-----------|-----------|
| A | B | C | C | D | E |
| 1 | Unprotected | 5/8" Type X | 2-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x4 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | 5/8" Type X | 2x6 | 2x4 |
| | (2) 5/8" Type X | No Ceiling Required | 1/2" Type X | 2x6 | 2x4 |
| 1-1/8 | Unprotected | 5/8" Type X | 2-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x4 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | 5/8" Type X | 2x6 | 2x4 |
| | (2) 5/8" Type X | No Ceiling Required | 1/2" Type X | 2x6 | 2x4 |
| 1-1/4 | Unprotected | 5/8" Type X | 2-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x6 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | 5/8" Type X | 2x6 | 2x4 |
| | (2) 5/8" Type X | No Ceiling Required | 1/2" Type X | 2x6 | 2x4 |

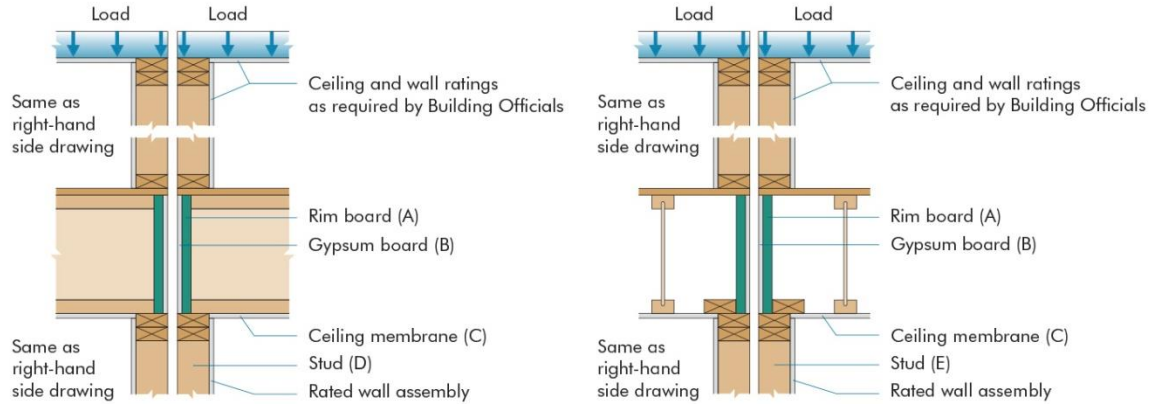
- Rim assembly for fire from either side of wall. "With no load transfer" assumes no load transfers to the adjacent rim board if the fire exposed rim board fails.
- Gypsum wallboard shown on the ceiling is to protect the Rim Board only. It does not necessarily cause the floor assembly to be rated.
- Attach 1-layer Type X (1/2 or 5/8-inch) gypsum wallboard to Rim Board with 1-1/2-inch Type W drywall screws spaced 12 inches o.c.
- Attach 2-layer Type X (1/2 or 5/8-inch) gypsum wallboards to Rim Board with 2-inch Type W drywall screws spaced 12 inches o.c.
- Provide min. 1-3/4-inch bearing for I-joist.
- Use only fire rated gypsum wallboard. Type C may be substituted for Type X.
- Rim Board and gypsum wallboard thickness are shown as minimums. Thicker Rim Board and gypsum wallboard may be substituted.
- Toe nailing from the I-joist flange to the rim is permitted. When 2 layer gypsum wallboards are used, I-joist end nails shall be 16d box (0.135 inch x 3-1/2 inches) nails.
- Rim board needs to be sized for vertical and lateral loads.

REPRESENTING THE ENGINEERED WOOD INDUSTRY



Georgia-Pacific Assembly RB6 Fire Resistance Rated Rim Board Assembly

This fire resistance design is listed in accordance with ASTM E119 and CAN/ULC S101



Double Wall Configuration with No Load Transfer Base Assembly

| Rim Board Thickness, in. | Rim Board Protection | Ceiling Membrane Req. for 1-hr. Rim Assembly | Ceiling Membrane Req. for 2-hr. Rim Assembly | Stud Size | Stud Size |
|--------------------------|----------------------|--|--|-----------|-----------|
| A | B | C | C | D | E |
| 1 | Unprotected | 5/8" Type X | 2-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x4 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | 5/8" Type X | 2x6 | 2x4 |
| | (2) 5/8" Type X | No Ceiling Required | 1/2" Type X | 2x6 | 2x4 |
| 1-1/8 | Unprotected | 5/8" Type X | 2-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x4 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | 1/2" Type X | 2x6 | 2x4 |
| | (2) 5/8" Type X | No Ceiling Required | 1/2" Type X | 2x6 | 2x4 |
| 1-1/4 | Unprotected | 5/8" Type X | 2-hour Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 1/2" Type X | 1/2" Type X | 90-min Fire-rated Assembly | 2x4 | 2x4 |
| | (1) 5/8" Type X | No Ceiling Required | 1-hour Fire-rated Assembly | 2x6 | 2x4 |
| | (2) 1/2" Type X | No Ceiling Required | 1/2" Type X | 2x6 | 2x4 |
| | (2) 5/8" Type X | No Ceiling Required | 1/2" Type X | 2x6 | 2x4 |

- 1) Rim assembly for fire from either side of wall. "With no load transfer" assumes no load transfers to the adjacent rim board if the fire exposed rim board fails.
- 2) Gypsum wallboard shown on the ceiling is to protect the Rim Board only. It does not necessarily cause the floor assembly to be rated.
- 3) Attach 1-layer Type X (1/2 or 5/8-inch) gypsum wallboard to Rim Board with 1-1/2-inch Type W drywall screws spaced 12 inches o.c.
- 4) Attach 2-layer Type X (1/2 or 5/8-inch) gypsum wallboards to Rim Board with 2-inch Type W drywall screws spaced 12 inches o.c.
- 5) Provide min. 1-3/4-inch bearing for I-joist.
- 6) Use only fire rated gypsum wallboard. Type C may be substituted for Type X.
- 7) Rim Board and gypsum wallboard thickness are shown as minimums. Thicker Rim Board and gypsum wallboard may be substituted.
- 8) Toe nailing from the I-joist flange to the rim is permitted. When 2-layer gypsum wallboards are used, I-joist end nails shall be 16d box (0.135 inch x 3-1/2 inches) nails.
- 9) Rim board needs to be sized for vertical and lateral load.

REPRESENTING THE ENGINEERED WOOD INDUSTRY

APA – The Engineered Wood Association is an approved national standards developer accredited by American National Standards Institute (ANSI). APA publishes ANSI standards and Voluntary Product Standards for wood structural panels and engineered wood products. APA is an accredited certification body under ISO/IEC 17065 by Standards Council of Canada (SCC), an accredited inspection agency under ISO/IEC 17020 by International Code Council (ICC) International Accreditation Service (IAS), and an accredited testing organization under ISO/IEC 17025 by IAS. APA is also an approved Product Certification Agency, Testing Laboratory, Quality Assurance Entity, and Validation Entity by the State of Florida, and an approved testing laboratory by City of Los Angeles.

**APA – THE ENGINEERED WOOD ASSOCIATION
HEADQUARTERS**

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