

# James Hardie Fire-Resistance Rated Wall Assembly Quick Reference Guide

Technical **11**  
Brief

James Hardie® products installed as indicated in the Fire Resistance Rated Assembly table below, can achieve a 1 or 2 hour fire resistance assembly rating. Each assembly meets the requirements for ASTM-E119<sup>1</sup>, CAN/ULC-S101<sup>2</sup>, NFPA-251<sup>3</sup>, and UL-263<sup>4</sup>. In addition to the system ratings, James Hardie fiber cement siding products are non-combustible when tested in accordance with ASTM E136. The siding products also have a flame-spread index of 0 and a smoke developed index of 5 when tested in accordance with ASTM E84.

FIRE RESISTANCE ASSEMBLY									
Assembly Design No.	Product List	Wall Frame	Stud Spacing	Exposure Rating	Type X Gypsum (Interior)	Type X Gypsum (Exterior)	Fire Exposure	Wood Sheathing	Furring
JH/FCS 60-01	HardieBacker® Backerboard, HardiePanel® Vertical Siding, HardiePlank® Lap Siding, Reveal® Panel System, Artisan® Lap Siding & Artisan® Siding with Lock Joint System	Steel	24" oc max	1 hour	5/8"	1/2" or 5/8"	Both	Optional	Optional
JH/FCS 60-02	HardiePanel Vertical Siding, HardiePlank Lap Siding, Reveal Panel System, Artisan Lap Siding & Artisan Siding with Lock Joint System	Wood	16" oc	1 hour	5/8"	5/8"	Both	Optional	Optional
JH/FCS 60-03	HardiePanel Vertical Siding & Reveal Panel System	Wood	24" oc	1 hour	5/8"	5/8"	Both	Optional	Optional
JH/FCS 60-04	HardiePlank Lap Siding, Artisan Lap Siding & Artisan Siding with Lock Joint System	Wood	24" oc	1 hour	5/8"	5/8"	Both	Optional	Optional
JH/FCS 60-05	HardieBacker Backerboard	Steel	24" oc max	1 hour	1/2"	1/2"	Both	Optional	Optional
JH/FCS 60-06	HardieBacker Backerboard with tile finish	Steel	16" oc	1 hour	5/8"	None	Both	Optional	Optional
JH/FCS 60-07	HardieBacker Backerboard with tile finish	Wood	16" oc	1 hour	5/8"	None	Both	Optional	Optional
JH/FCS 120-01	HardiePanel vertical siding & Reveal Panel System	Steel	16" oc	2 hour	1-1¼"	1-1¼"	Both	Optional	Optional
JH/FCS 120-02	HardiePanel vertical siding & Reveal Panel System	Wood	16" oc	2 hour	1-1¼"	1-1¼"	Both	Optional	Optional

The latest 3D assembly drawings along with additional UL Fire Design Assemblies can be received by using the FireAssembly Tool located at [www.jhinsite.com/tools/](http://www.jhinsite.com/tools/).

<sup>1</sup> ASTM-E119 = Standard Methods of Fire Tests of Building Construction and Materials  
<sup>2</sup> CAN/ULC-S101 = Standard Methods of Fire Endurance Tests of Building Construction and Materials.  
<sup>3</sup> NFPA-251 = Fire Tests of Building Construction and Materials.  
<sup>4</sup> UL-263 = Fire Tests of Building Construction and Materials.



Additional Installation Information, Warranties, and Safety Information are available at [JamesHardie.com](http://JamesHardie.com)

1 866 442 7343 | [www.JHinsite.com](http://www.JHinsite.com)

**IMPORTANT:** Failure to follow James Hardie written installation instructions and comply with applicable building codes may violate local laws, affect building envelope performance and may affect warranty coverage. Failure to comply with all health and safety regulations when cutting and installing this product may result in personal injury.

**DESIGN ADVICE:** Any information or assistance provided by James Hardie in relation to specific projects must be approved by the relevant specialists engaged for the project (eg. builder, architect or engineer). James Hardie will not be responsible for the use of any such information or assistance.

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