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2022 CATALOG

LP FlameBloc

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LP® FLAMEBLOCK® FIRE-RATED SHEATHING OVERVIEW



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PROVEN TO SLOW DOWN THE SPREAD OF FLAMES.

When it comes to defending your build from fire, LP[®] FlameBlock[®] Fire-Rated Sheathing combines proven flame-spread and burn-through resistance in one panel. Designed for wall and roof deck applications, each panel is coated with LP's proprietary Pyrotite[®] layer. Plus, it delivers exceptional strength and integrity to give you greater design flexibility on every build.







LP® FLAMEBLOCK® FIRE-RATED SHEATHING



Innovative Design: Made with LP's proprietary noncombustible, fiberglass-reinforced Pyrotite[®] coating bonded to the board on one or both sides.

Backed by LP: As with all of our products you'll be backed by LP, one of the biggest names in the industry serving customers nationwide since 1973. Choose LP FlameBlock Fire-Rated Sheathing for your next project.





MEET CODE. EXCEED EXPECTATIONS.[®]

LP[®] FlameBlock[®] Fire-Rated Sheathing is evaluated to meet code requirements for fire-resistant construction as a component of 1-hour and 2-hour wall assemblies and in roof deck applications.

LP FLAMEBLOCK APPLICATIONS

- Evaluated by ICC-ES (<u>ESR-1365</u>, <u>ESL-1002</u>, <u>PMG-1089</u>)
- UL and Intertek fire-resistant rated wall assemblies tested in accordance with ASTM E119
- Evaluated to the performance requirements of IBC Section 2303.2 (Fire-retardant treated wood)
- Component of fire-resistance-rated construction (2021 IBC Section 703)
- Wall sheathing for exterior walls of Type III construction with a twohour rating or less; 2-Sided FlameBlock Sheathing required
- Exterior walls and roof sheathing on buildings of Type I or II construction (2021 IBC section 603. 1); 2-Sided FlameBlock Sheathing required
- Roof sheathing on building of Type II, IV, V and residential construction for a distance of 4 feet on both sides of a fire wall (2021 IBC Section 706.6, exception 4.3 and 2018 IRC Section R302.2.4 exception)
- Class A interior finish material for walls and ceilings of Type V construction (2021 IBC Section 803); Pyrotite coating facing the interior of the building
- Component of fire-classified roof covering assemblies (2021 IBC Section 1505.1)
- Thermal barrier of separating foam plastic insulation from the interior of a building (2021 IBC Section 2603.4); Pyrotite coating facing the interior of the building

DESIGN STRENGTH AND FLEXIBILITY

LP FlameBlock panels carry load/span and shear design values equivalent to an untreated wood structural panel of the same thickness evaluated in accordance with US DOC PS 1 and PS 2. Using LP FlameBlock sheathing provides design flexibility by combining structural capacity and fire resistance in a single panel. It may eliminate a layer of gypsum to simplify and expedite the construction process.

EXPOSURE 1

Exposure 1 classification signifies that LP FlameBlock sheathing is intended to resist the effects of moisture on structural performance during active construction. The fire resistance of LP FlameBlock sheathing is not impacted by exposure to moisture during construction.





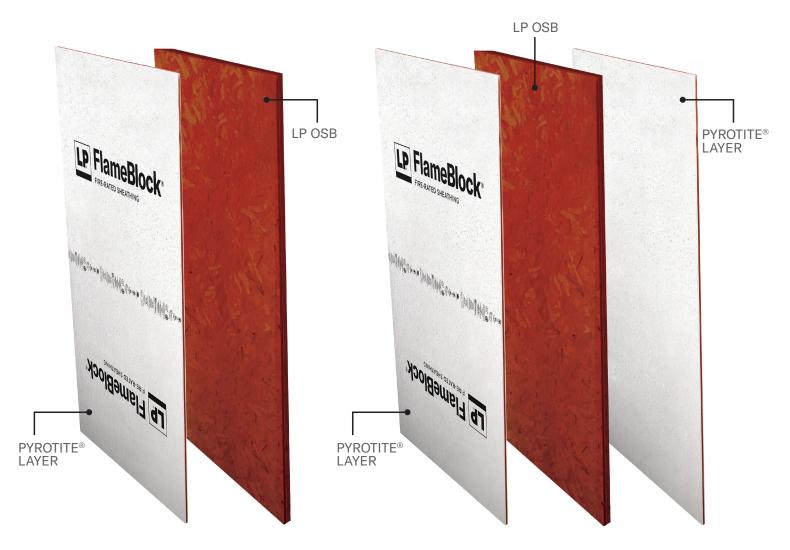
Look beneath the ignitionresistant Pyrotite[®] coating and you'll find the strength of LP[®] OSB.

LP[®] FlameBlock[®] Fire-Rated Sheathing features a proprietary non-combustible, fiberglassreinforced Pyrotite[®] treatment.

LP® FLAMEBLOCK® PROPERTIES

1-SIDED LP FLAMEBLOCK SHEATHING

2-SIDED LP FLAMEBLOCK SHEATHING



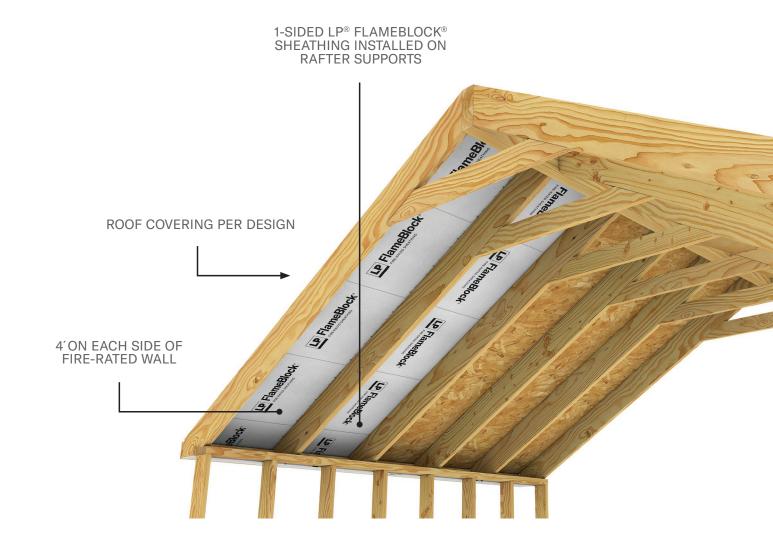
Nominal panel thickness and weights of LP FlameBlock Fire-Rated OSB sheathing

PERFORMANCE CATEGORY		NOMINAL THICKNESS (IN.)		NOMINAL PANEL WEIGHT (PSF)	
1-Sided	2-Sided	1-Sided	2-Sided	1-Sided	2-Sided
7/16	7/16*	0.44	0.50	1.9	2.5
15/32	15/32*	0.50	0.56	2.1	2.7
15/32	15/32	0.53	0.59	2.2	2.8
19/32	19/32	0.66	0.72	2.6	3.2
23/32	23/32	0.78	0.84	3.0	3.6
1-1/8	1-1/8	1.19	1.25	4.3	5.0

*Structural I equivalence, reference Section 5.4 and Table 1 ICC-ES ESR-1365

ROOF DECK APPLICATIONS

- Roof sheathing for 4 feet on both sides of a fire wall (ESR-1365 Section 4.2a)
- 2021 IRC Section 302.2.4 Exception
- 2021 IBC Section 706.6, Exception 4.3
- For construction Type III, IV, V and townhouses—1-Sided LP FlameBlock Panel with coated side facing the interior
- Available in range of categories, including 7/16["] to provide consistency with 7/16["] OSB where applicable
- Roof sheathing in roof deck applications for construction Type I and II (ESR-1365 Section 4.2b)—
 2-Sided LP FlameBlock panels required

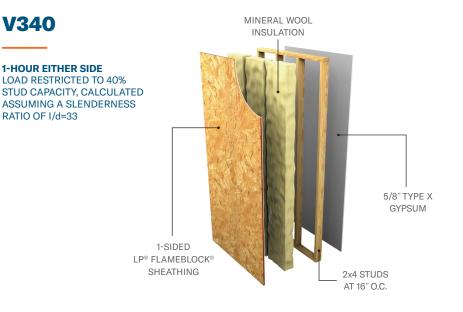


SINGLE-FAMILY

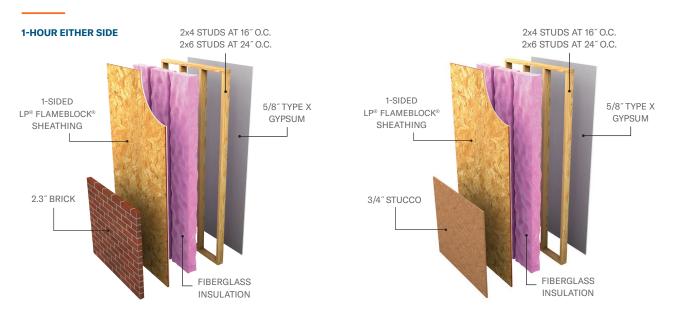
LP® FlameBlock® 1-Hour Fire Resistance Rated Wall Assemblies for single-family construction with fire separation distances (FSD) less than 5'-0". LP FlameBlock assemblies for 1-hour fire resistance have resistance from either side and can eliminate the use of exterior gypsum. Maintains consistent wall thickness with unrated walls.

See pages <u>17-22</u> for additional assemblies. Reference assembly listings for additional information.

V340 REPLACES PREVIOUS INTERTEK ASSEMBLY DESIGN NUMBER LPB/WPPS 60-01



U348



TOWNHOUSE SEPARATIONS

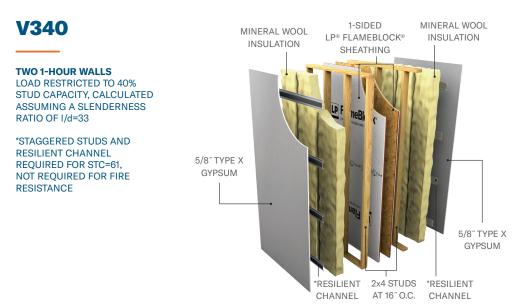
COMMON 2-HOUR FIRE-RESISTANCE RATED WALL ASSEMBLY: IRC SECTION R302.2.2

U350 A U350 B 2-HOUR EITHER SIDE 2-HOUR EITHER SIDE STAGGERED STUDS FOR *STAGGERED STUDS AND STC=61, NOT REQUIRED FOR **RESILIENT CHANNEL** FIRE RESISTANCE **REQUIRED FOR STC=61,** 1-SIDED FIBERGLASS NOT REQUIRED FOR FIBERGLASS LP[®] FLAMEBLOCK[®] 1-SIDED INSULATION FIRE RESISTANCE 1-SIDED INSULATION FIBERGLASS SHEATHING LP[®] FLAMEBLOCK[®] LP® FLAMEBLOCK® INSULATION SHEATHING SHEATHING 5/8" TYPE X GYPSUM 5/8" TYPE X GYPSUM 5/8" TYPE X GYPSUM 5/8" TYPF X 2x4 STUDS AT 16" O.C. GYPSUM 2x4 STUDS AT 16" O.C. *RESILIENT 2x6 STUDS AT 24" O.C. *RESILIENT

CHANNEL

TWO 1-HOUR FIRE-RESISTANCE RATED WALL ASSEMBLIES: IRC SECTION R302.2.1 DOUBLE WALLS

2x6 STUDS AT 24" O.C.

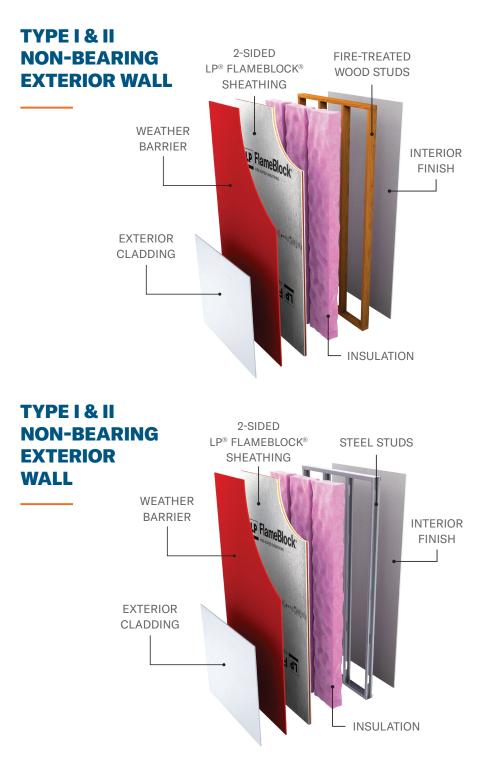


CHANNEL

TYPE I & II CONSTRUCTION

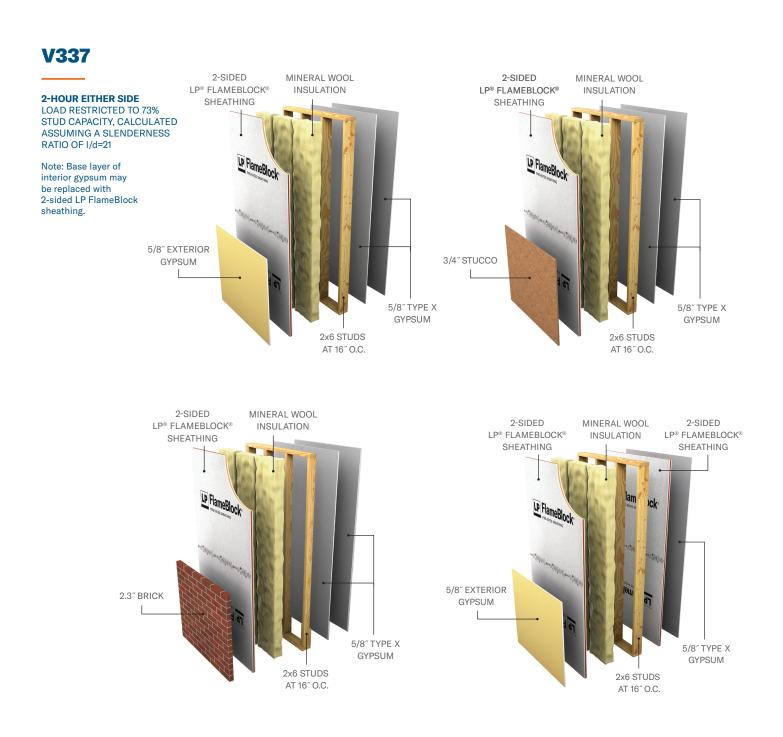
2-sided LP® FlameBlock® sheathing is required for exterior walls and roof deck applications in buildings of Type I & II construction.

Ideal for exterior claddings attached directly to a structural panel. Many water-resistive coatings have been evaluated and demonstrated chemical compatibility with LP FlameBlock sheathing. <u>Please see LP Technical note.</u>



TYPE III CONSTRUCTION

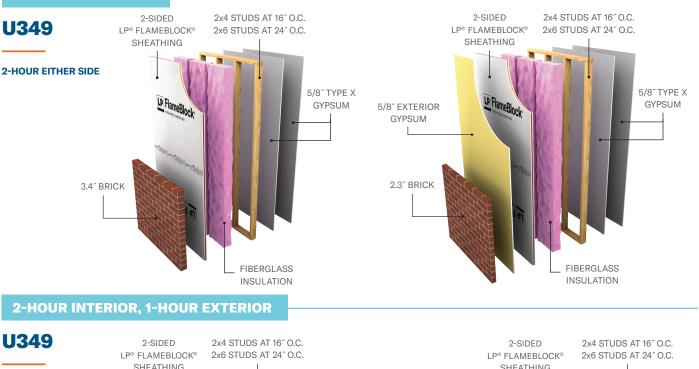
2-sided LP[®] FlameBlock[®] sheathing and non-combustible or fire-retardant-treated wood studs are required for exterior walls in buildings of Type III construction. See pages <u>17-22</u> for other wood and metal stud assembly options not shown and assembly design listings for additional information.

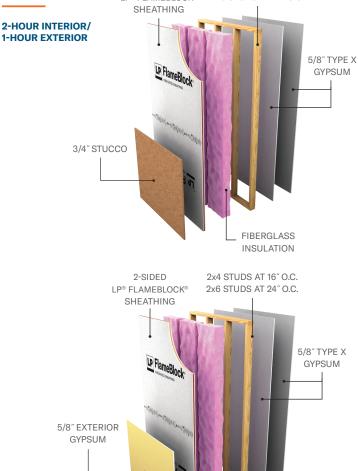


TYPE III CONSTRUCTION

2-sided LP® FlameBlock® sheathing and non-combustible or fire-retardanttreated wood studs are required for exterior walls in buildings of Type III construction. See pages 17-22 for other wood and metal stud assembly options not shown and assembly design listings for additional information.

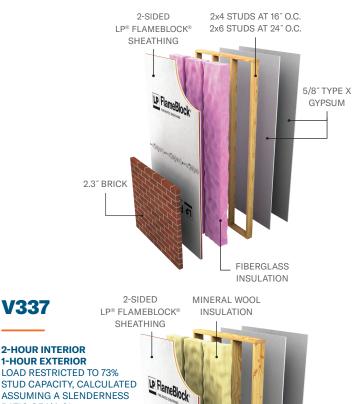
2-HOUR EITHER SIDE





FIBERGLASS

INSULATION



1-HOUR EXTERIOR LOAD RESTRICTED TO 73% STUD CAPACITY, CALCULATED ASSUMING A SLENDERNESS RATIO OF I/d=21

V337

5/8" TYPE X GYPSUM

2x6 STUDS AT 16" O.C.

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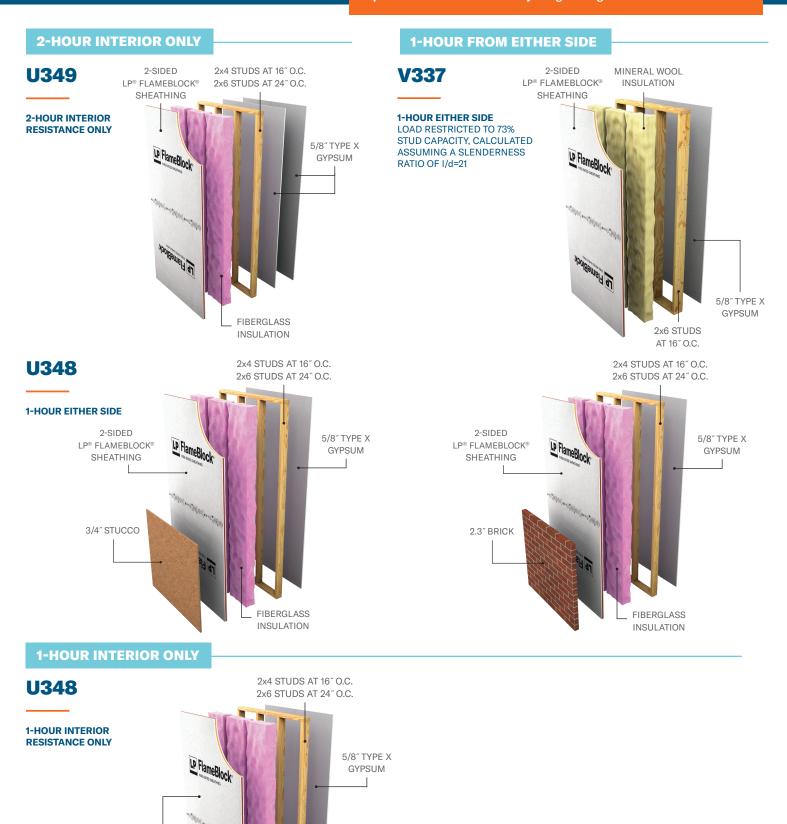
TYPE III CONSTRUCTION

LP FlameBlock

FIBERGLASS

INSULATION

2-SIDED LP[®] FLAMEBLOCK[®] SHEATHING 2-sided LP® FlameBlock® sheathing and non-combustible or fire-retardanttreated wood studs are required for exterior walls in buildings of Type III construction. See pages <u>17-22</u> for other wood and metal stud assembly options not shown and assembly design listings for additional information.

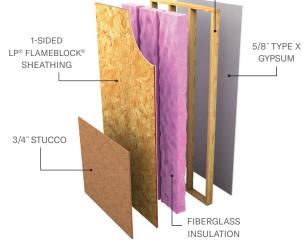


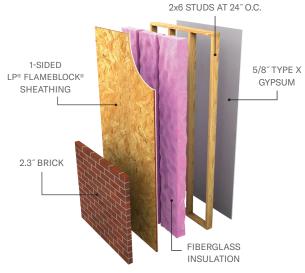
TYPE V CONSTRUCTION

See pages 17-22 for other wood and metal stud assembly options not shown and assembly design listings for additional information.

1-HOUR EITHER SIDE

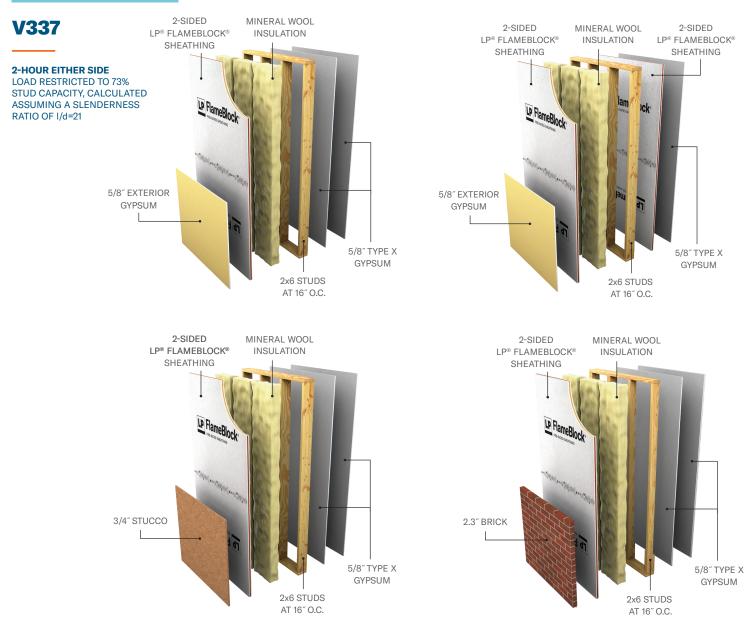








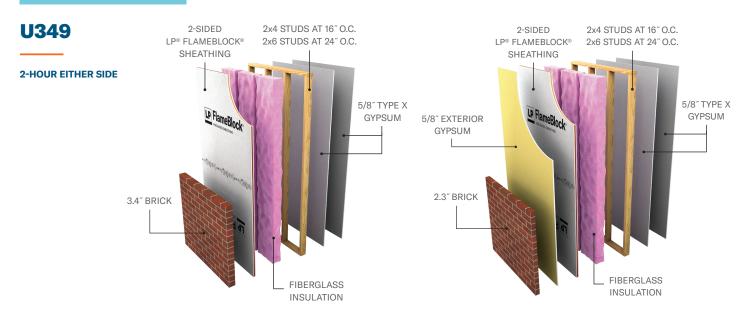
2-HOUR EITHER SIDE



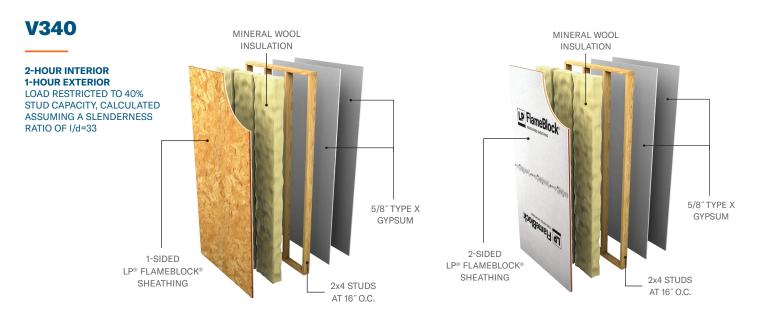
TYPE V CONSTRUCTION

See pages <u>17-22</u> for other wood and metal stud assembly options not shown and assembly design listings for additional information.

2-HOUR EITHER SIDE



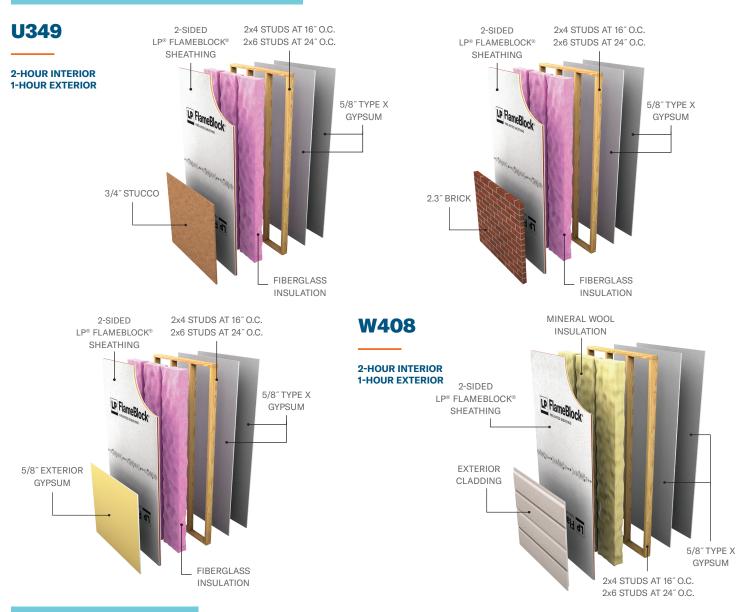
2-HOUR INTERIOR, 1-HOUR EXTERIOR



TYPE V CONSTRUCTION

See pages <u>17-22</u> for other wood and metal stud assembly options not shown and assembly design listings for additional information.

2-HOUR INTERIOR, 1-HOUR EXTERIOR

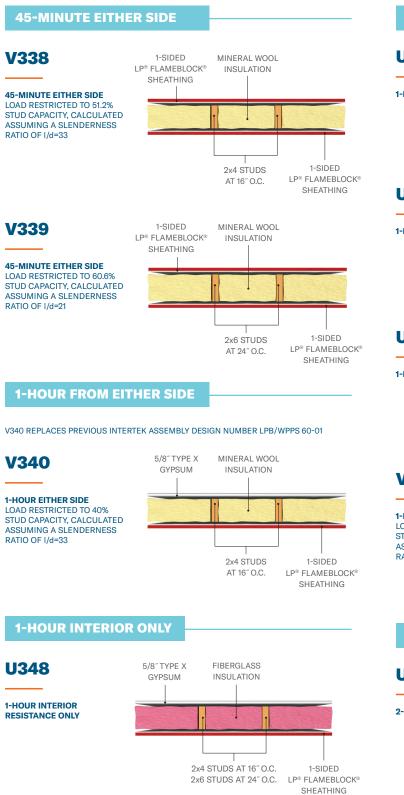


2-HOUR INTERIOR ONLY

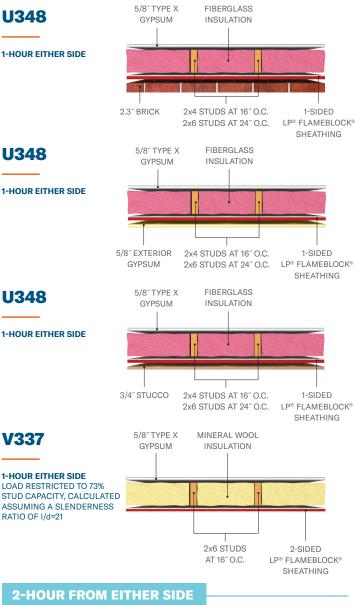


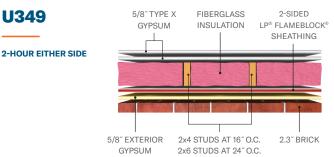
ASSEMBLIES

WOOD STUDS



1-HOUR FROM EITHER SIDE





- Reference the UL listings for alternate configurations and additional information.
- The use of 2-sided LP[®] FlameBlock[®] sheathing or fire-retardant-treated wood framing may be required by the building Construction Type. Reference section <u>4.2 in ICC-ES ESR 1365</u> for additional information not shown.

2-HOUR FROM EITHER SIDE

V337

2-HOUR EITHER SIDE LOAD RESTRICTED TO 73% STUD CAPACITY, CALCULATED ASSUMING A SLENDERNESS RATIO OF I/d=21



2-HOUR EITHER SIDE LOAD RESTRICTED TO 73% STUD CAPACITY, CALCULATED ASSUMING A SLENDERNESS RATIO OF I/d=21



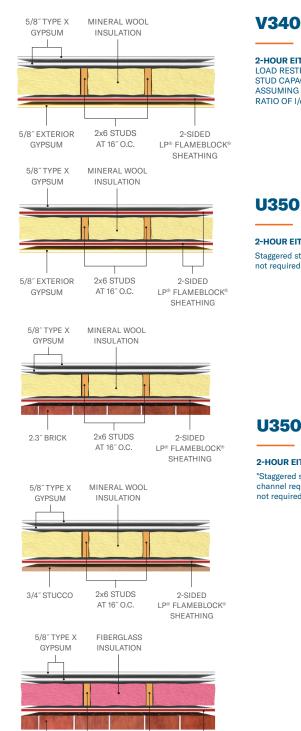
2-HOUR EITHER SIDE LOAD RESTRICTED TO 73% STUD CAPACITY, CALCULATED ASSUMING A SLENDERNESS RATIO OF I/d=21



2-HOUR EITHER SIDE LOAD RESTRICTED TO 73% STUD CAPACITY, CALCULATED ASSUMING A SLENDERNESS RATIO OF I/d=21



2-HOUR EITHER SIDE



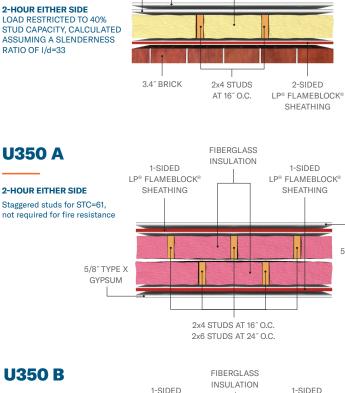
2x4 STUDS AT 16" O.C.

2x6 STUDS AT 24" O.C.

3.4" BRICK

2-SIDED

LP® FLAMEBLOCK® SHEATHING



5/8" TYPE X

GYPSUM

MINERAL WOOL

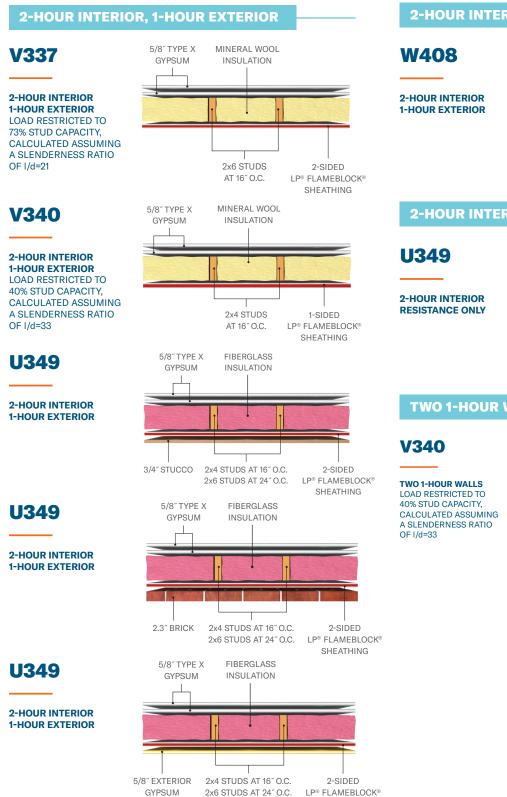
INSULATION

LP® FLAMEBLOCK® LP® FLAMEBLOCK® 2-HOUR EITHER SIDE SHEATHING SHEATHING *Staggered studs and resilient channel required for STC=61, not required for fire resistance 5/8" TYPE X GYPSUM 5/8" TYPE X GYPSUM *RESILIENT 2x4 STUDS *RESILIENT CHANNEL AT 16" O C CHANNEL

5/8" TYPE X GYPSUM

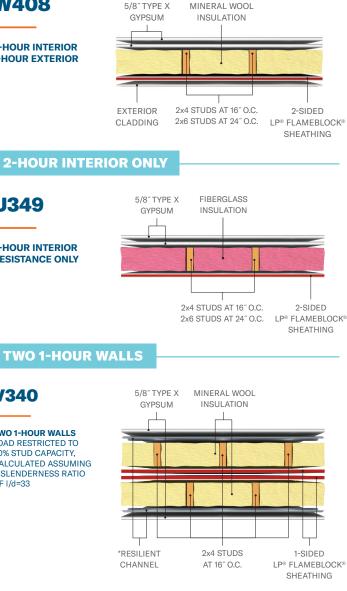
ASSEMBLIES

WOOD STUDS



SHEATHING

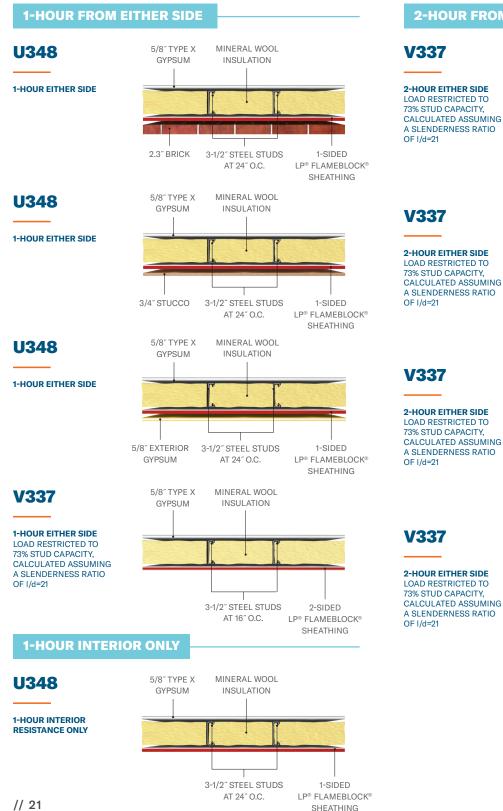
2-HOUR INTERIOR, 1-HOUR EXTERIOR



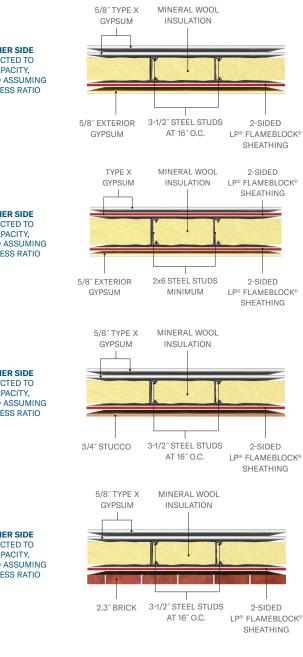
Reference the UL listings for alternate configurations and additional information.
 The use of 2-sided LP[®] FlameBlock[®] sheathing or fire-retardant-treated wood framing may be required by the building Construction Type. Reference section <u>4.2 in ICC-ES ESR 1365</u> for additional information not shown.

ASSEMBLIES

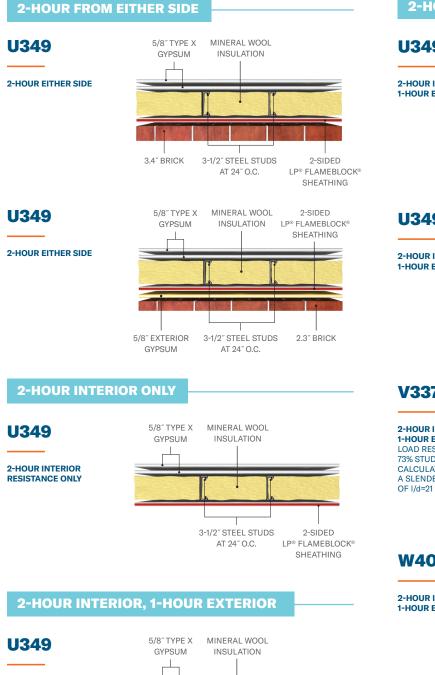
STEEL STUDS



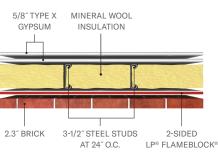
2-HOUR FROM EITHER SIDE



- Reference the UL listings for alternate configurations and additional information.
- The use of 2-sided LP® FlameBlock® sheathing may be required by the building Construction Type. Reference section 4.2 in ICC-ES ESR 1365 for additional information not shown.

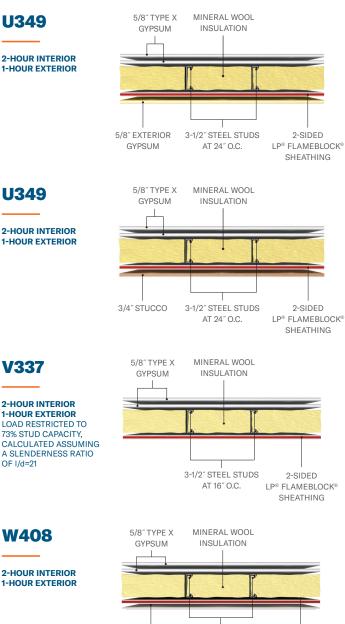


2-HOUR INTERIOR **1-HOUR EXTERIOR**



SHEATHING

2-HOUR INTERIOR, 1-HOUR EXTERIOR



3-1/2" STEEL STUDS EXTERIOR 2-SIDED CLADDING AT 24" O.C. LP® FLAMEBLOCK® SHEATHING



Find all LP® FlameBlock® product literature at

LPCORP.COM/FLAMEBLOCK

A WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information, go to www.P65Warnings.ca.gov/wood.