



**FlameBlock®**

FIRE-RATED SHEATHING

**PROVEN TO  
PREVENT  
THE SPREAD  
OF FLAMES**



**2023 CATALOG**

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# LP FlameBlock®

## 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



## LP® FLAMEBLOCK® FIRE-RATED SHEATHING



**Innovative Design:** Made with LP's proprietary non-combustible, 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 ([ESR-1365](#), [ESL-1002](#), [PMG-1089](#))
- 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 two-hour 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



Look beneath the ignition-resistant Pyrotite® coating and you'll find the strength of LP® OSB.

LP® FlameBlock® Fire-Rated Sheathing features a proprietary non-combustible, fiberglass-reinforced Pyrotite® treatment.

## DESIGN STRENGTH AND FLEXIBILITY

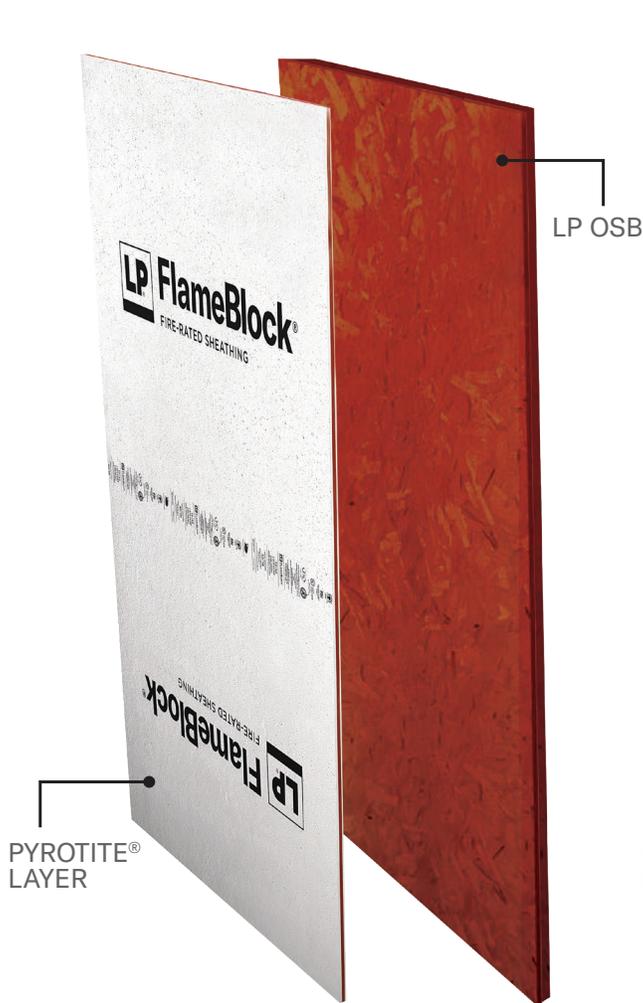
LP FlameBlock panels carry load/span and shear design values equivalent to an untreated wood structural panel of the same thickness evaluated in accordance with US DOC PS 1 and PS 2. Using LP FlameBlock sheathing provides design flexibility by combining structural capacity and fire resistance in a single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

## EXPOSURE 1

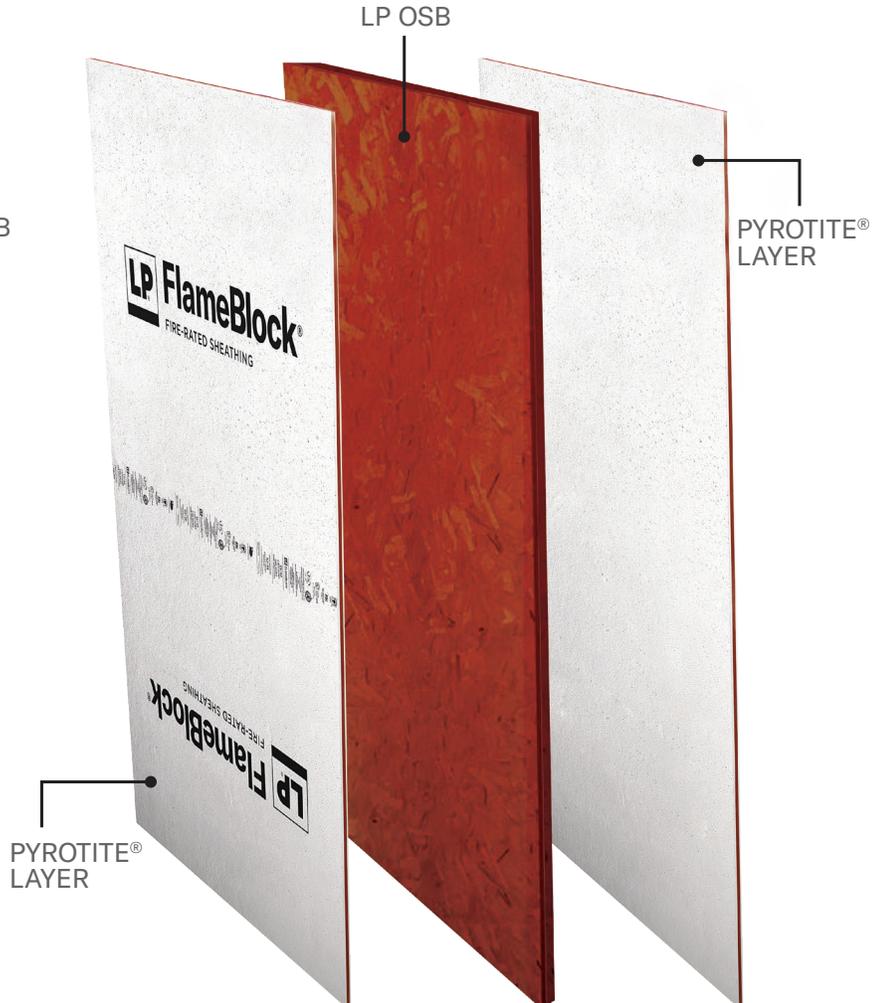
Exposure 1 classification signifies that LP FlameBlock sheathing is intended to resist the effects of moisture on structural performance during active construction. The fire resistance of LP FlameBlock sheathing is not impacted by exposure to moisture during construction.

# LP® FLAMEBLOCK® PROPERTIES

## 1-SIDED LP FLAMEBLOCK SHEATHING



## 2-SIDED LP FLAMEBLOCK SHEATHING



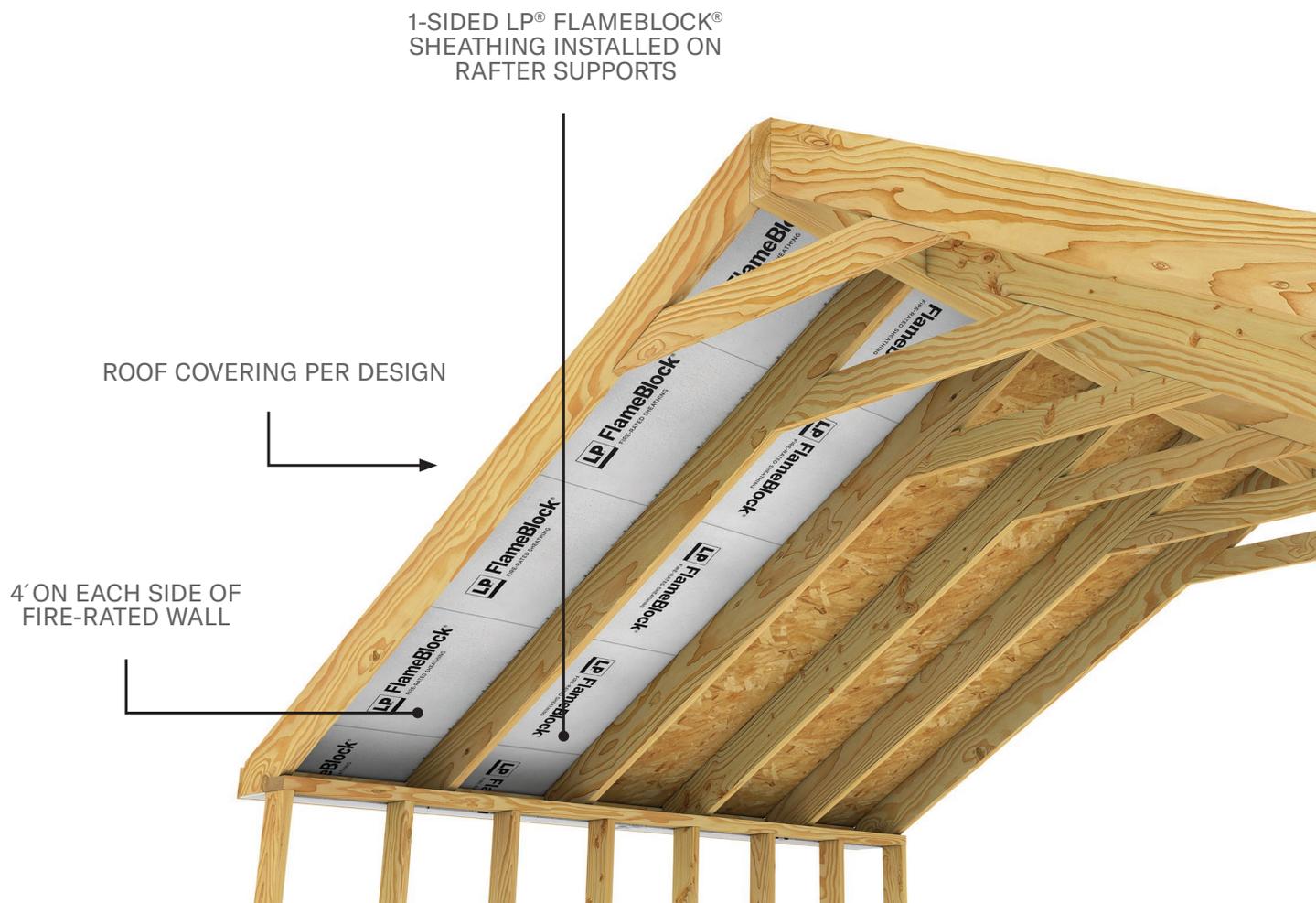
Nominal panel thickness and weights of LP FlameBlock Fire-Rated Sheathing

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

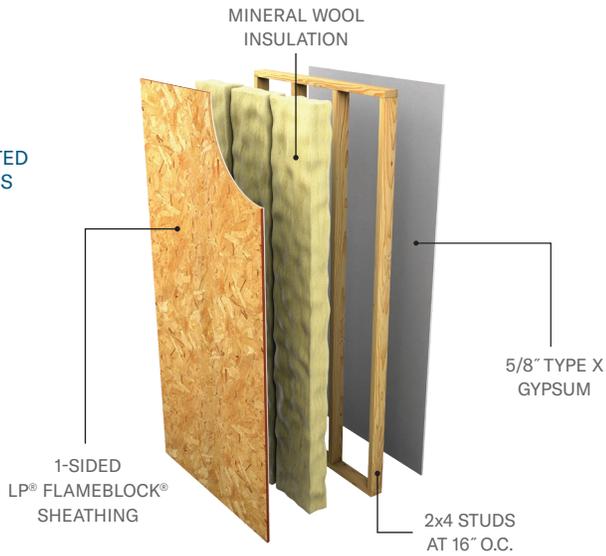
LP® FlameBlock® 1-Hour Fire Resistance Rated Wall Assemblies for single-family construction with fire separation distances (FSD) less than 5'-0". LP FlameBlock assemblies for 1-hour fire resistance have resistance from either side and can eliminate the use of exterior gypsum. Maintains consistent wall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

See pages 17-22 for additional assemblies. Reference assembly listings for additional information.

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

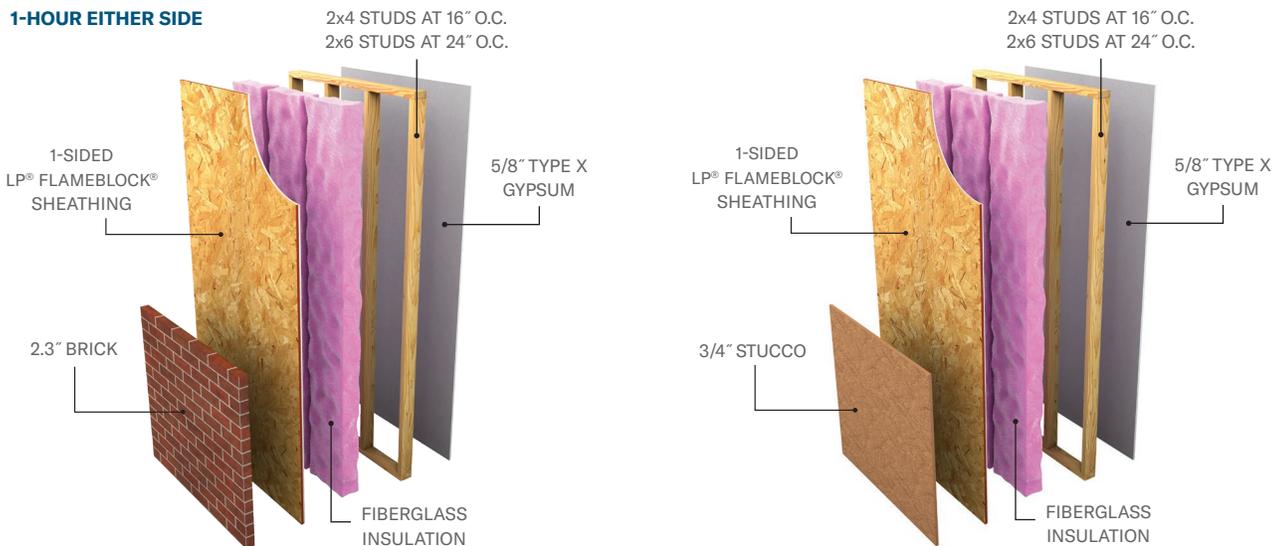
## V340

**1-HOUR EITHER SIDE**  
LOAD RESTRICTED TO 40%  
STUD CAPACITY, CALCULATED  
ASSUMING A SLENDERNESS  
RATIO OF  $l/d=33$



## U348

**1-HOUR EITHER SIDE**



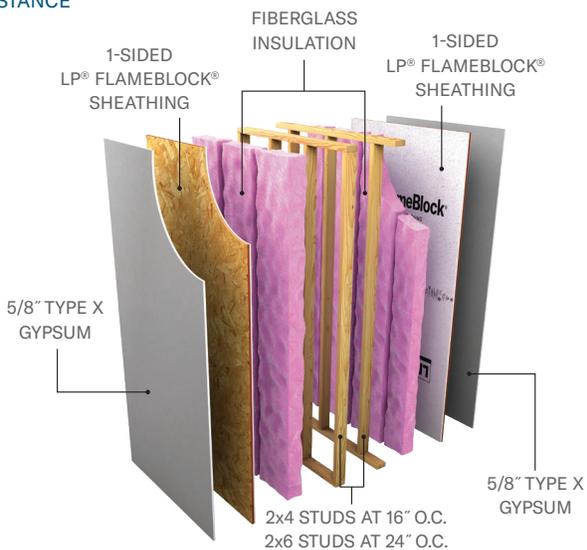
# TOWNHOUSE SEPARATIONS

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

## U350 A

### 2-HOUR EITHER SIDE

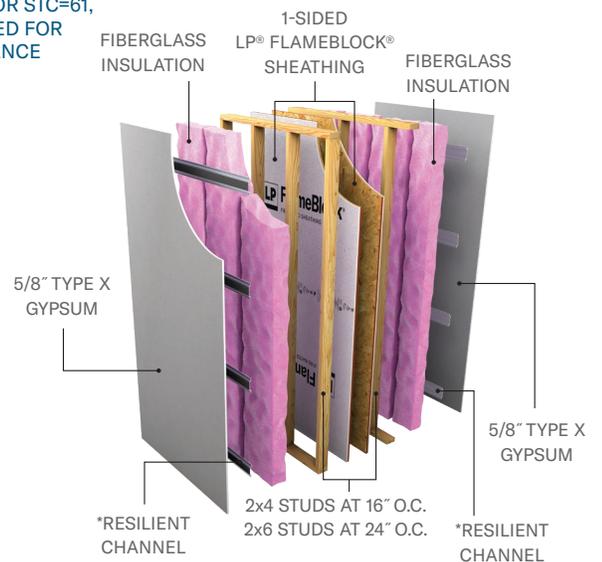
STAGGERED STUDS FOR STC=61, NOT REQUIRED FOR FIRE RESISTANCE



## U350 B

### 2-HOUR EITHER SIDE

\*STAGGERED STUDS AND RESILIENT CHANNEL REQUIRED FOR STC=61, NOT REQUIRED FOR FIRE RESISTANCE



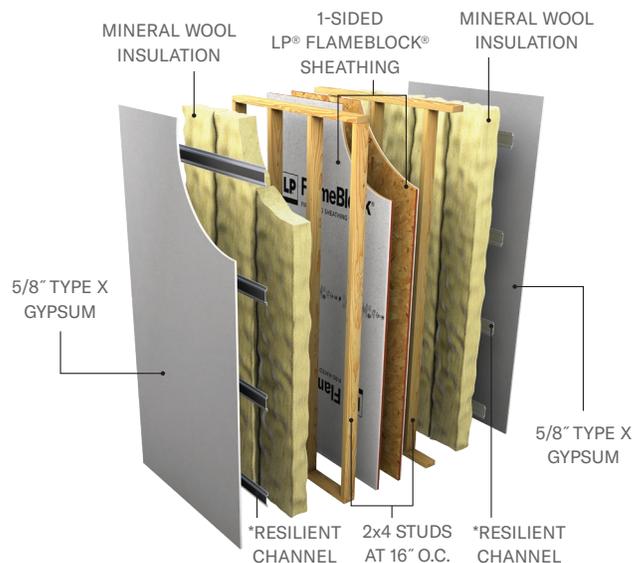
TWO 1-HOUR FIRE-RESISTANCE RATED WALL ASSEMBLIES: IRC SECTION R302.2.1 DOUBLE WALLS

## V340

### TWO 1-HOUR WALLS

LOAD RESTRICTED TO 40% STUD CAPACITY, CALCULATED ASSUMING A SLENDERNESS RATIO OF  $l/d=33$

\*STAGGERED STUDS AND RESILIENT CHANNEL REQUIRED FOR STC=61, NOT REQUIRED FOR FIRE RESISTANCE

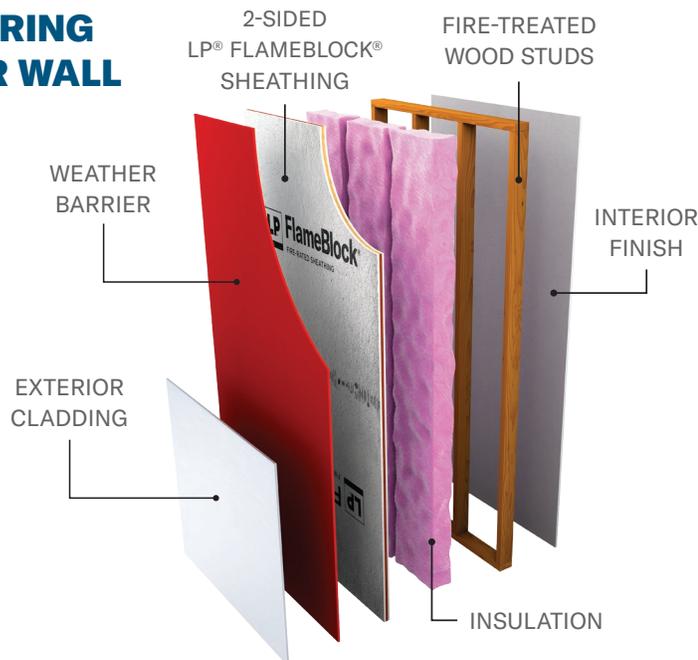


# TYPE I & II CONSTRUCTION

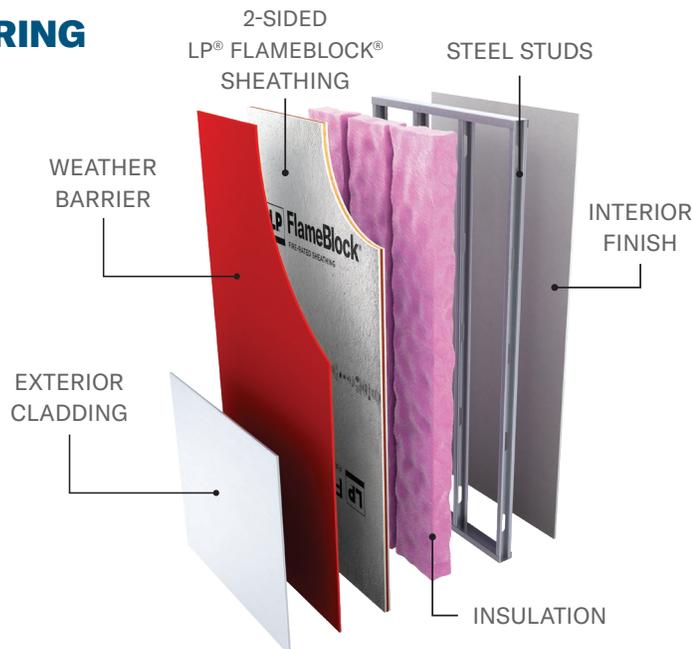
2-sided LP® FlameBlock® sheathing is required for exterior walls and roof deck applications in buildings of Type I & II construction.

Ideal for exterior claddings attached directly to a structural panel. Many water-resistant coatings have been evaluated and demonstrated chemical compatibility with LP FlameBlock sheathing. [Please see LP Technical note.](#)

## TYPE I & II NON-BEARING EXTERIOR WALL



## TYPE I & II NON-BEARING EXTERIOR WALL



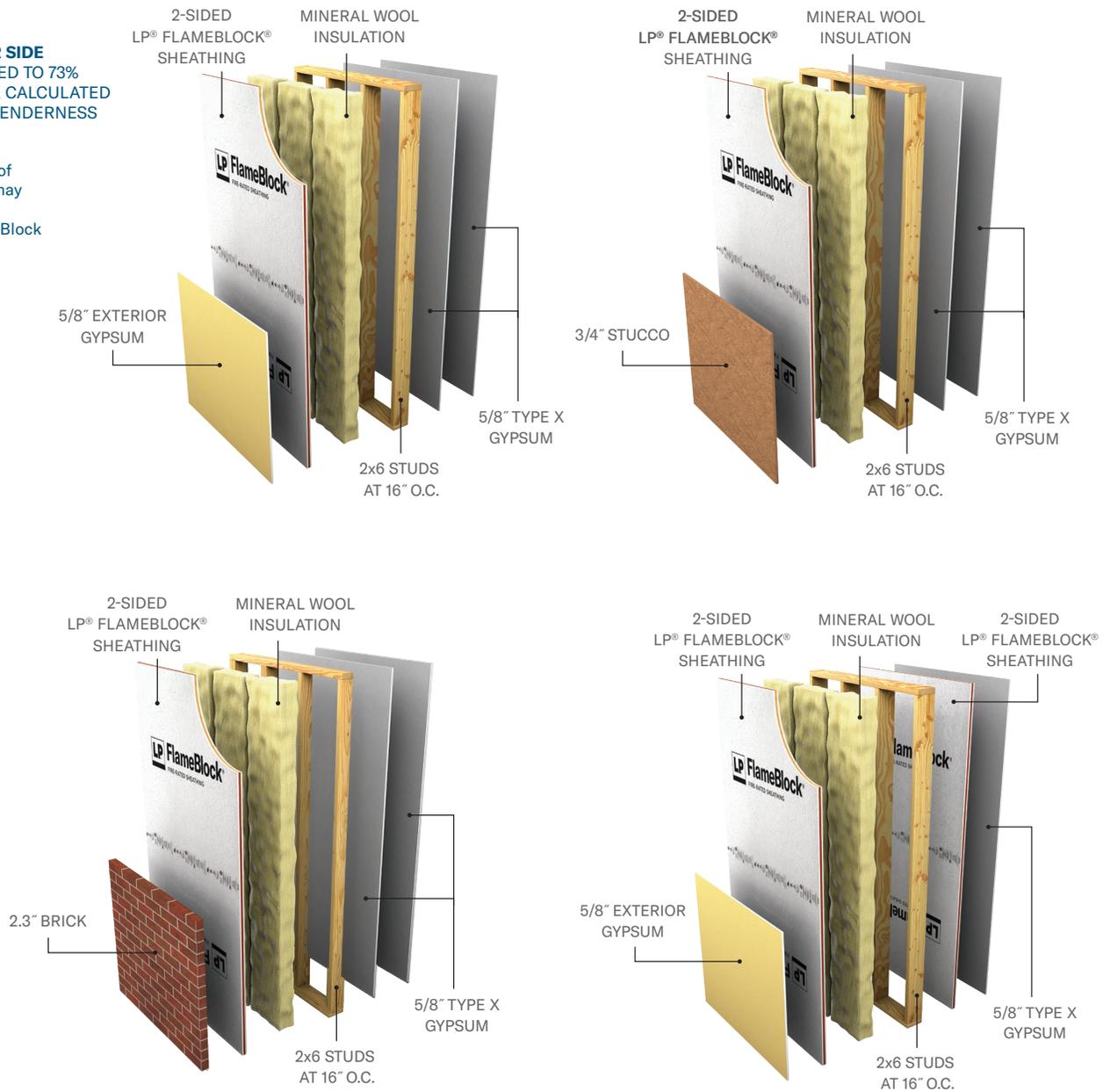
# TYPE III CONSTRUCTION

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

## V337

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

Note: Base layer of  
interior gypsum may  
be replaced with  
2-sided LP FlameBlock  
sheathing.



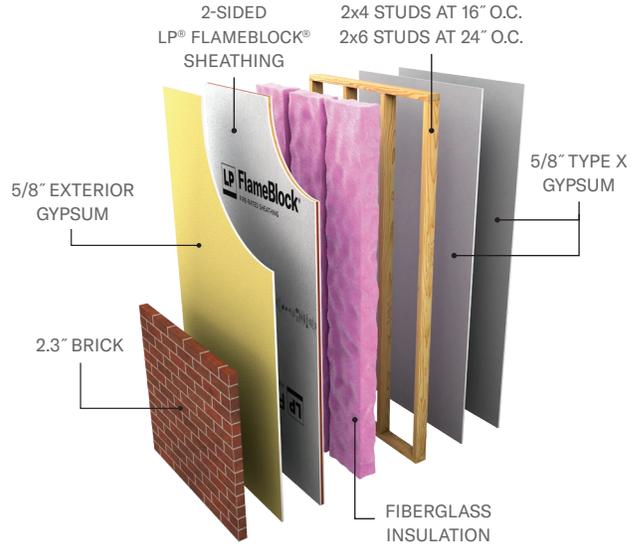
# TYPE III CONSTRUCTION

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

## 2-HOUR EITHER SIDE

### U349

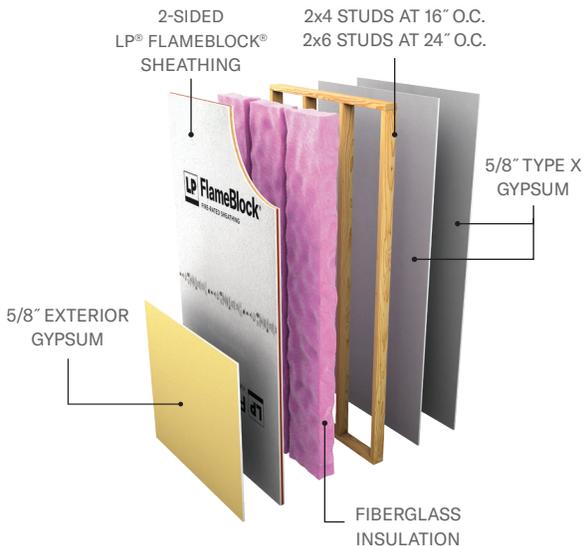
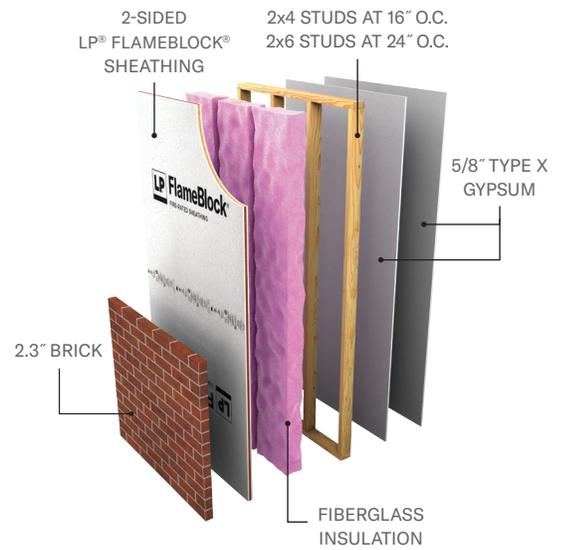
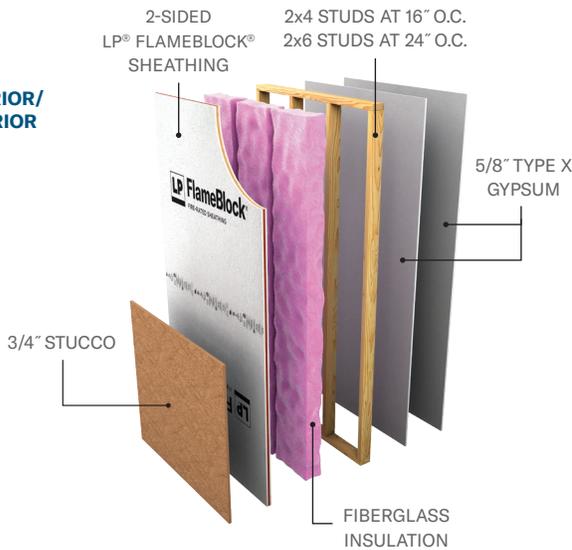
#### 2-HOUR EITHER SIDE



## 2-HOUR INTERIOR, 1-HOUR EXTERIOR

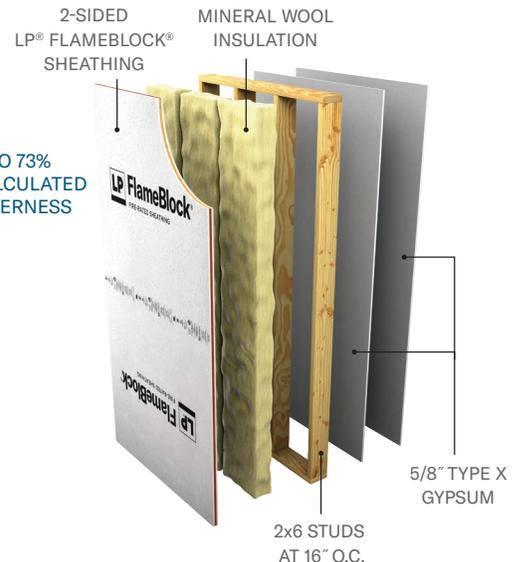
### U349

#### 2-HOUR INTERIOR/ 1-HOUR EXTERIOR



### V337

**2-HOUR INTERIOR  
1-HOUR EXTERIOR**  
LOAD RESTRICTED TO 73%  
STUD CAPACITY, CALCULATED  
ASSUMING A SLENDERNESS  
RATIO OF  $l/d=21$



# 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 17-22 for other wood and metal stud assembly design listings for additional information.

## 2-HOUR INTERIOR ONLY

### U349

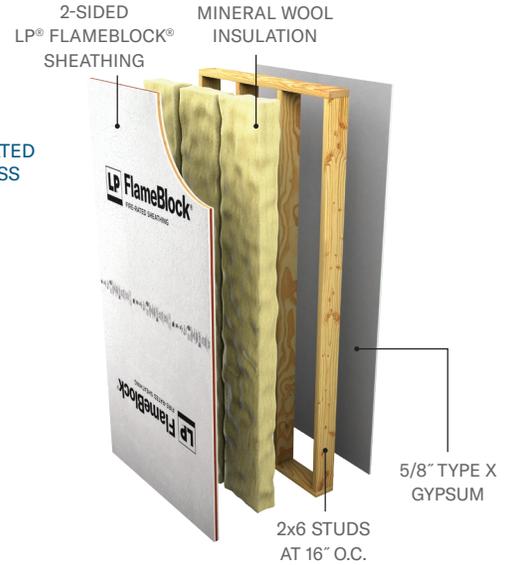
2-HOUR INTERIOR RESISTANCE ONLY



## 1-HOUR EITHER SIDE

### V337

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



### U348

1-HOUR EITHER SIDE



## 1-HOUR INTERIOR ONLY

### U348

1-HOUR INTERIOR RESISTANCE ONLY



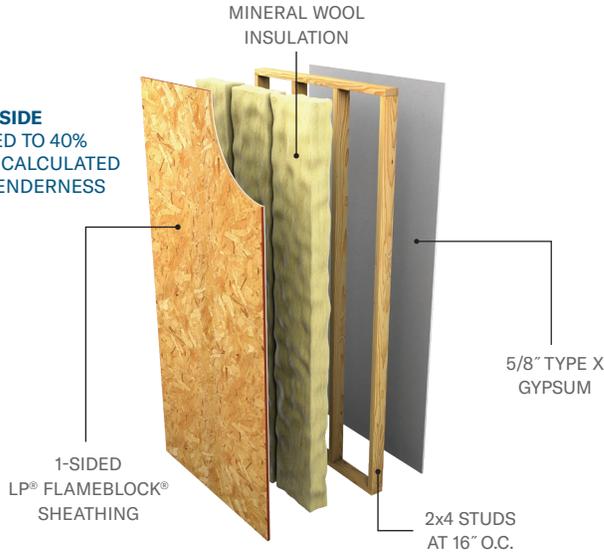
# TYPE V CONSTRUCTION

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

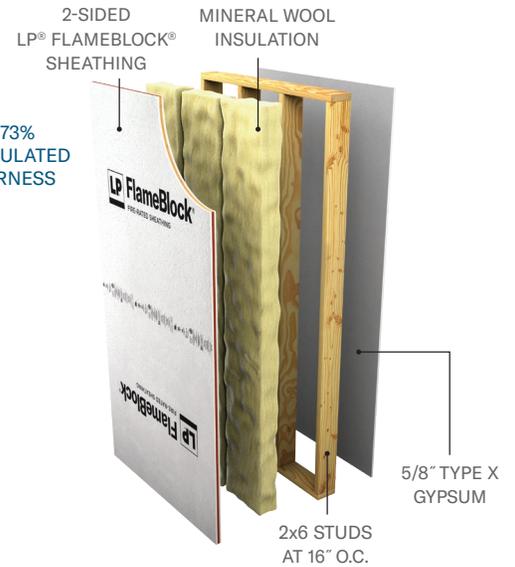
### V340

**1-HOUR EITHER SIDE**  
LOAD RESTRICTED TO 40%  
STUD CAPACITY, CALCULATED  
ASSUMING A SLENDERNESS  
RATIO OF  $l/d=33$



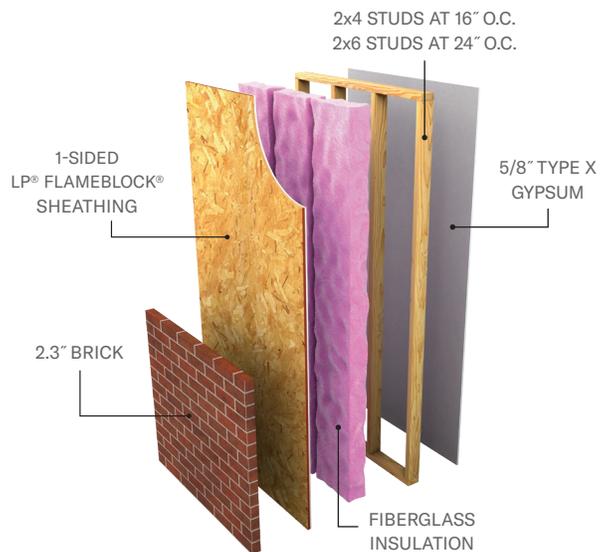
### V337

**1-HOUR EITHER SIDE**  
LOAD RESTRICTED TO 73%  
STUD CAPACITY, CALCULATED  
ASSUMING A SLENDERNESS  
RATIO OF  $l/d=21$



### U348

**1-HOUR EITHER SIDE**



**1-HOUR INTERIOR ONLY**

**U348**

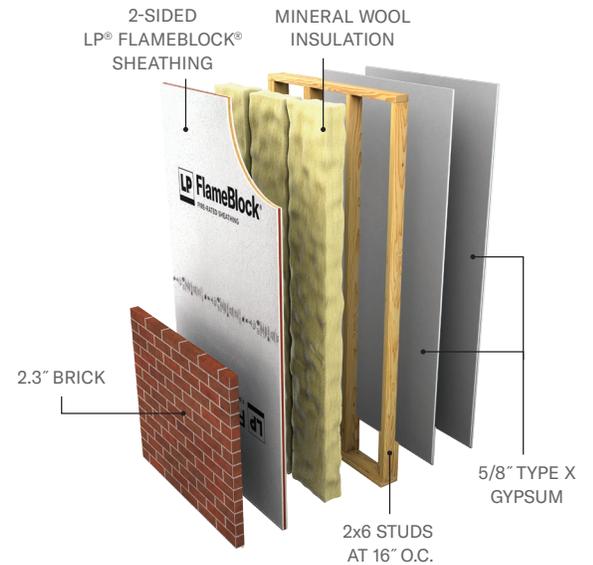
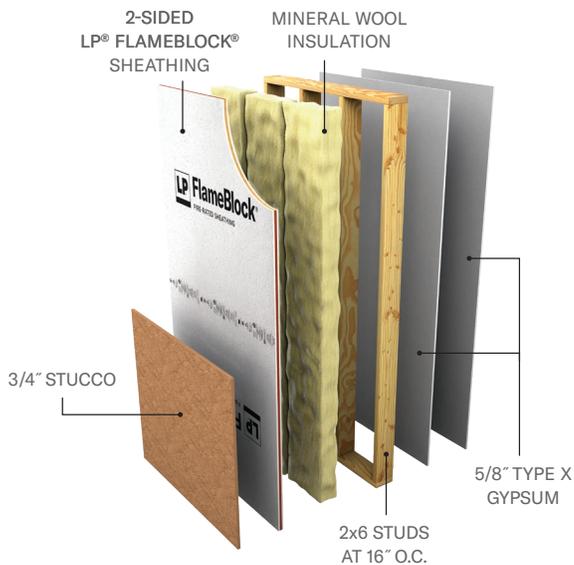
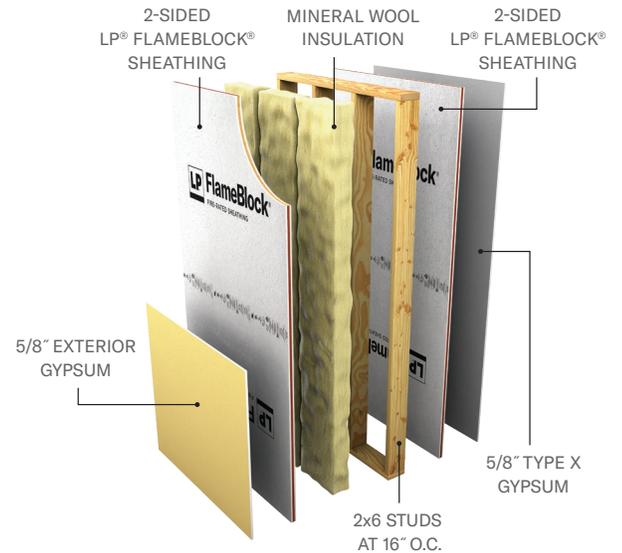
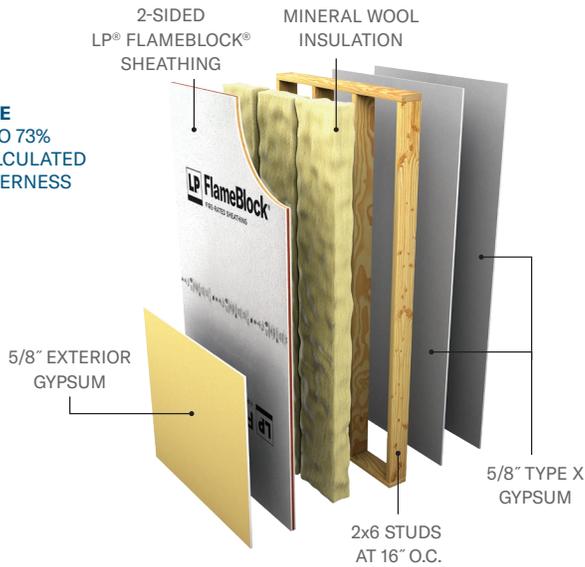
**1-HOUR INTERIOR RESISTANCE ONLY**



**2-HOUR EITHER SIDE**

**V337**

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



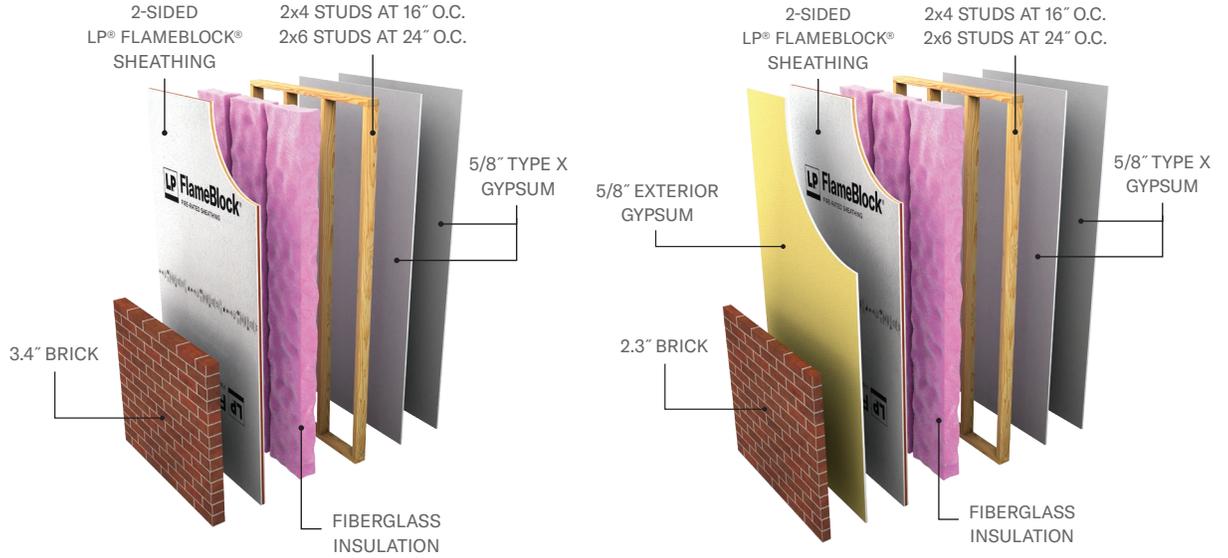
# TYPE V CONSTRUCTION

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

### U349

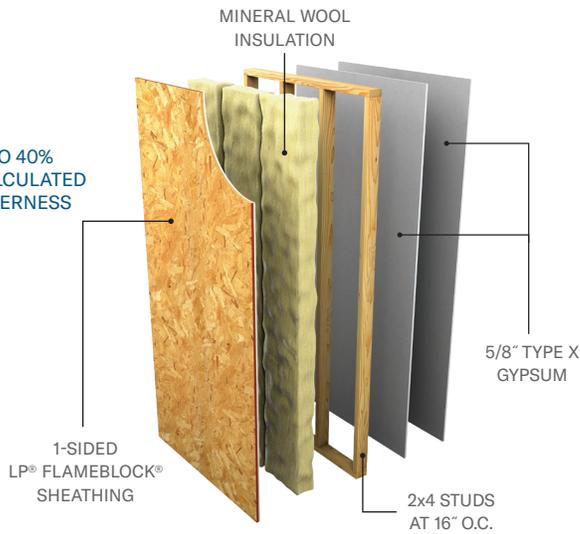
2-HOUR EITHER SIDE



## 2-HOUR INTERIOR, 1-HOUR EXTERIOR

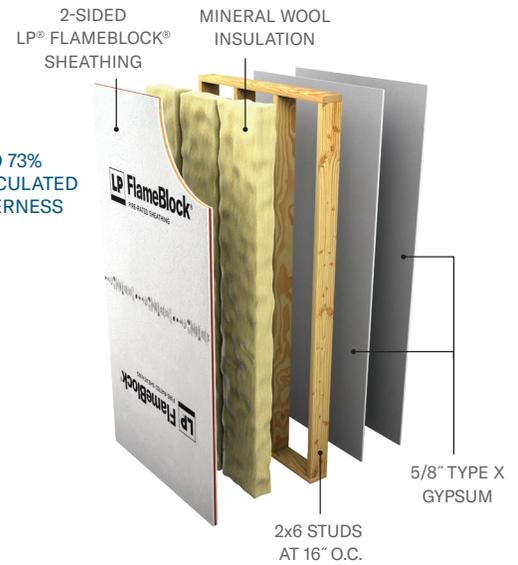
### V340

**2-HOUR INTERIOR**  
**1-HOUR EXTERIOR**  
LOAD RESTRICTED TO 40%  
STUD CAPACITY, CALCULATED  
ASSUMING A SLENDERNESS  
RATIO OF  $l/d=33$



### V337

**2-HOUR INTERIOR**  
**1-HOUR EXTERIOR**  
LOAD RESTRICTED TO 73%  
STUD CAPACITY, CALCULATED  
ASSUMING A SLENDERNESS  
RATIO OF  $l/d=21$



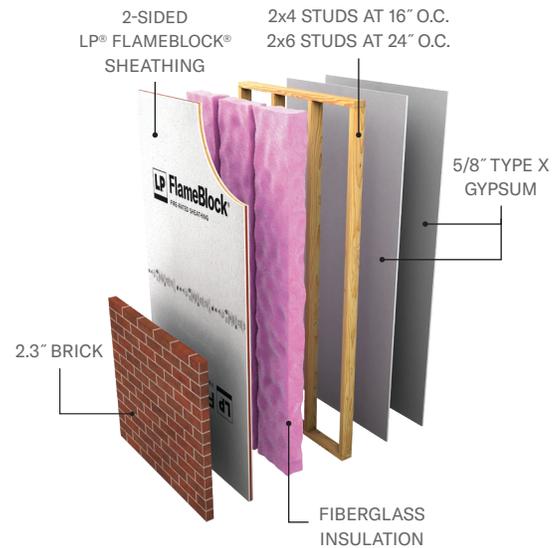
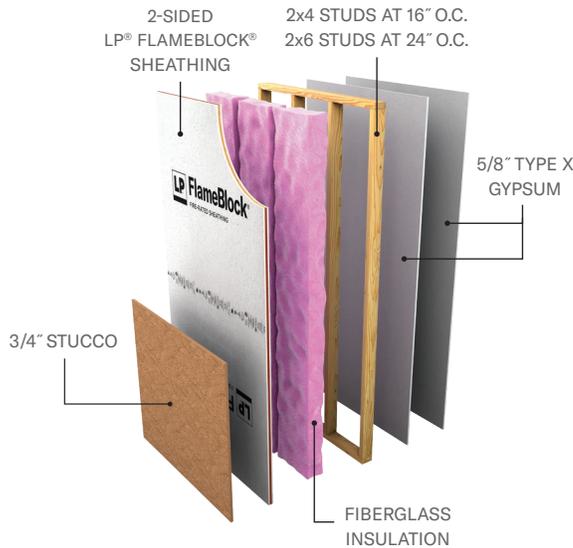
# TYPE V CONSTRUCTION

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

## 2-HOUR INTERIOR, 1-HOUR EXTERIOR

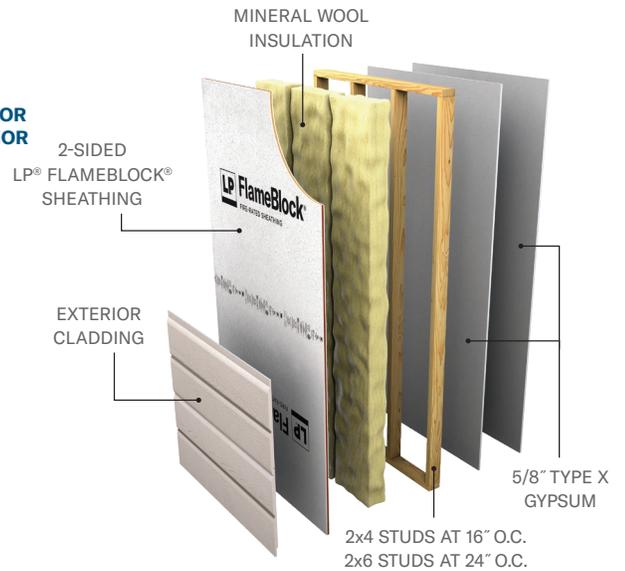
### U349

2-HOUR INTERIOR  
1-HOUR EXTERIOR



### W408

2-HOUR INTERIOR  
1-HOUR EXTERIOR



## 2-HOUR INTERIOR ONLY

### U349

2-HOUR INTERIOR  
RESISTANCE ONLY



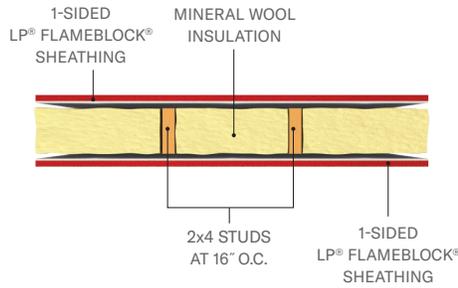
# ASSEMBLIES

## WOOD STUDS

### 45-MINUTE EITHER SIDE

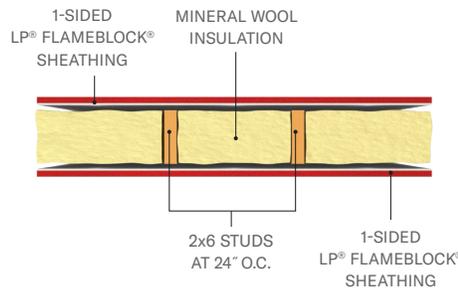
#### V338

**45-MINUTE EITHER SIDE**  
LOAD RESTRICTED TO 51.2%  
STUD CAPACITY, CALCULATED  
ASSUMING A SLENDERNESS  
RATIO OF  $l/d=33$



#### V339

**45-MINUTE EITHER SIDE**  
LOAD RESTRICTED TO 60.6%  
STUD CAPACITY, CALCULATED  
ASSUMING A SLENDERNESS  
RATIO OF  $l/d=21$

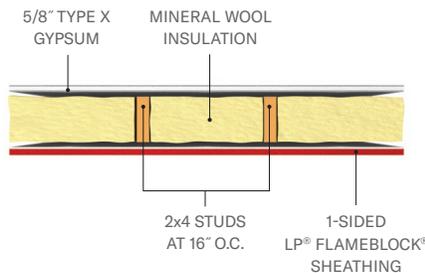


### 1-HOUR EITHER SIDE

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

#### V340

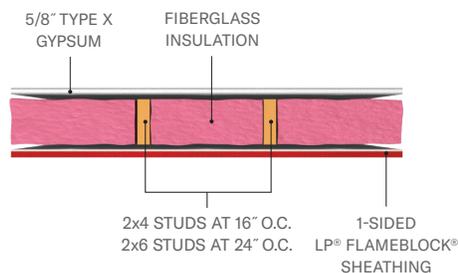
**1-HOUR EITHER SIDE**  
LOAD RESTRICTED TO 40%  
STUD CAPACITY, CALCULATED  
ASSUMING A SLENDERNESS  
RATIO OF  $l/d=33$



### 1-HOUR INTERIOR ONLY

#### U348

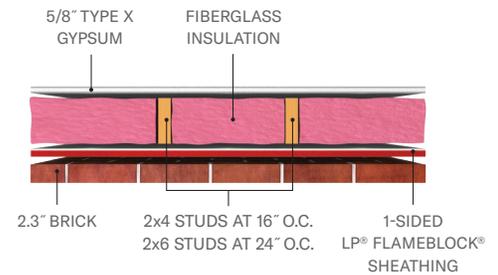
**1-HOUR INTERIOR  
RESISTANCE ONLY**



### 1-HOUR EITHER SIDE

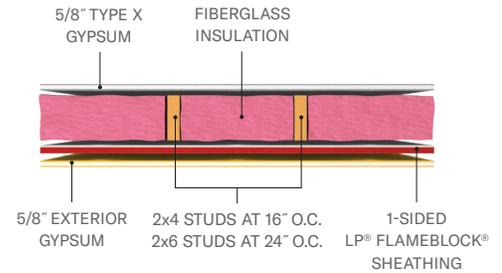
#### U348

**1-HOUR EITHER SIDE**



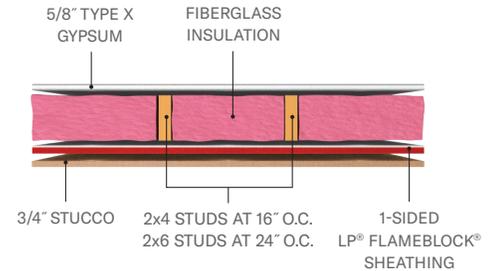
#### U348

**1-HOUR EITHER SIDE**



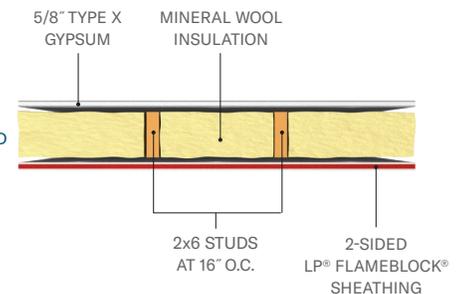
#### U348

**1-HOUR EITHER SIDE**



#### V337

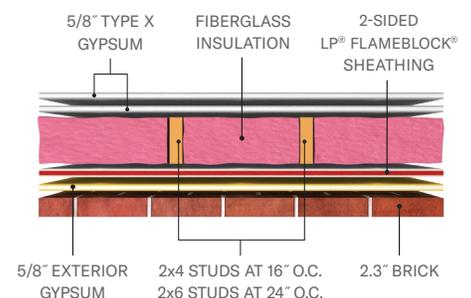
**1-HOUR EITHER SIDE**  
LOAD RESTRICTED TO 73%  
STUD CAPACITY, CALCULATED  
ASSUMING A SLENDERNESS  
RATIO OF  $l/d=21$



### 2-HOUR EITHER SIDE

#### U349

**2-HOUR EITHER SIDE**

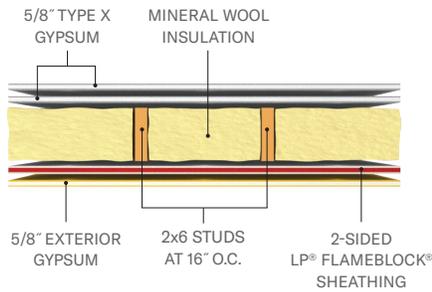


- Reference the UL listings for alternate configurations and additional information.
- The use of 2-sided LP® FlameBlock® sheathing or fire-retardant-treated wood framing may be required by the building Construction Type. Reference section 4.2 in ICC-ES ESR 1365 for additional information not shown.

## 2-HOUR EITHER SIDE

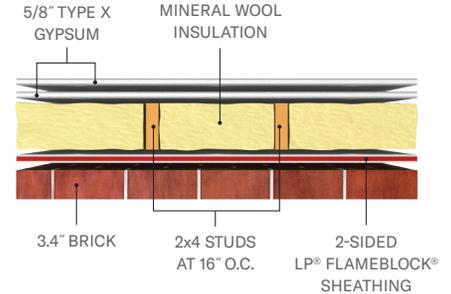
### V337

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



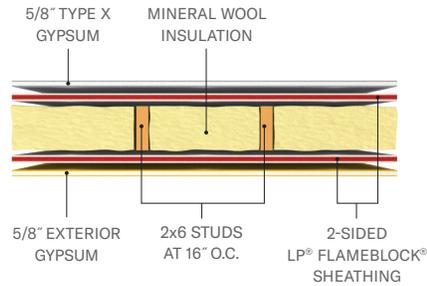
### V340

**2-HOUR EITHER SIDE**  
LOAD RESTRICTED TO 40%  
STUD CAPACITY, CALCULATED  
ASSUMING A SLENDERNESS  
RATIO OF  $l/d=33$



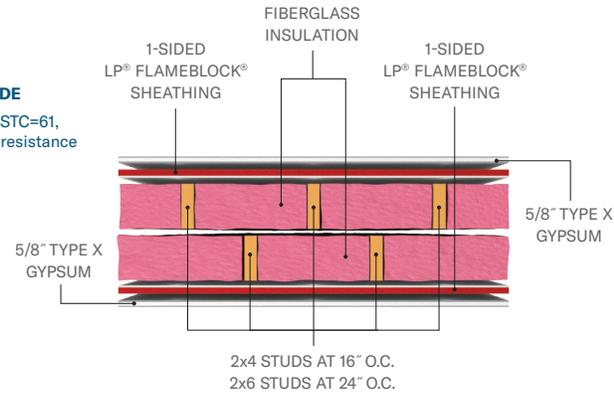
### V337

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



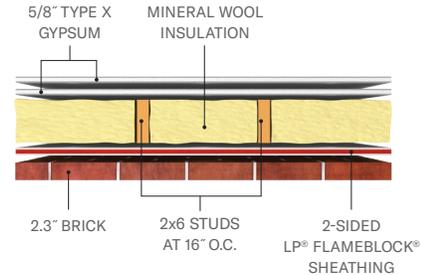
### U350 A

**2-HOUR EITHER SIDE**  
Staggered studs for  $STC=61$ ,  
not required for fire resistance



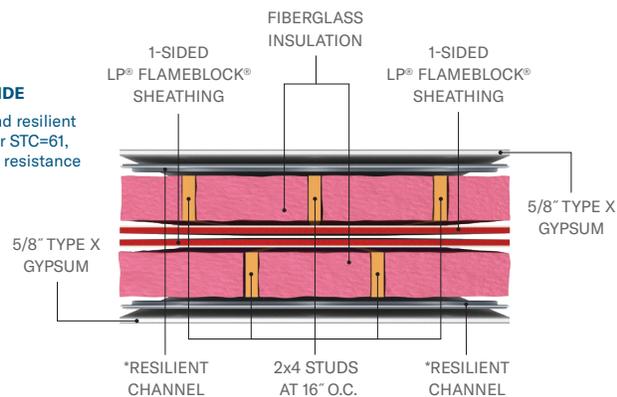
### V337

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



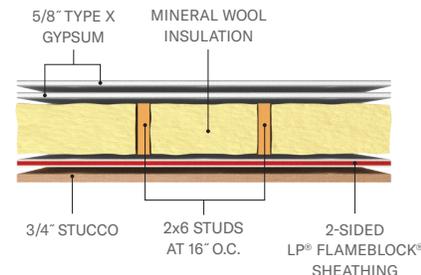
### U350 B

**2-HOUR EITHER SIDE**  
\*Staggered studs and resilient  
channel required for  $STC=61$ ,  
not required for fire resistance



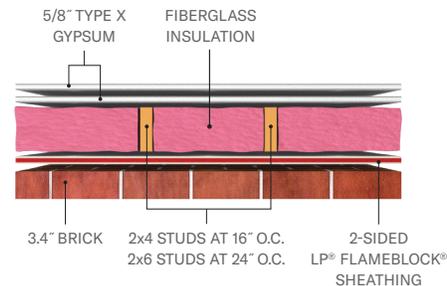
### V337

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



### U349

**2-HOUR EITHER SIDE**



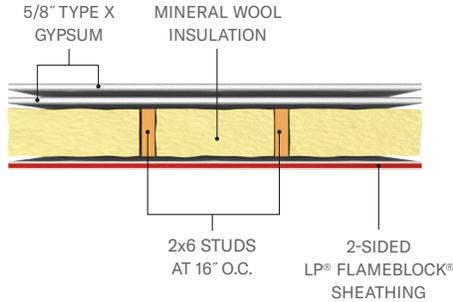
# ASSEMBLIES

## WOOD STUDS

### 2-HOUR INTERIOR, 1-HOUR EXTERIOR

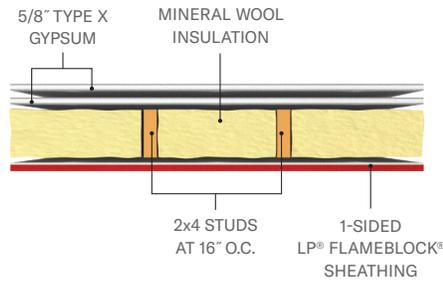
#### V337

**2-HOUR INTERIOR  
1-HOUR EXTERIOR**  
LOAD RESTRICTED TO  
73% STUD CAPACITY,  
CALCULATED ASSUMING  
A SLENDERNESS RATIO  
OF  $l/d=21$



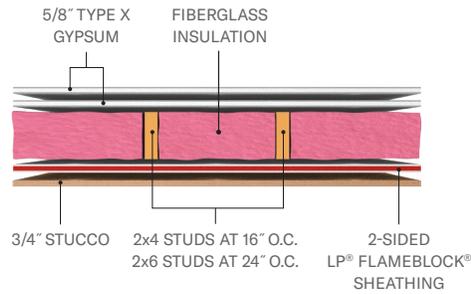
#### V340

**2-HOUR INTERIOR  
1-HOUR EXTERIOR**  
LOAD RESTRICTED TO  
40% STUD CAPACITY,  
CALCULATED ASSUMING  
A SLENDERNESS RATIO  
OF  $l/d=33$



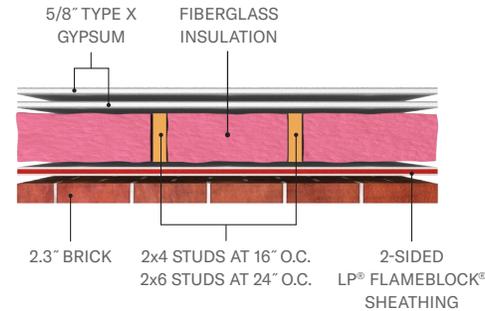
#### U349

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



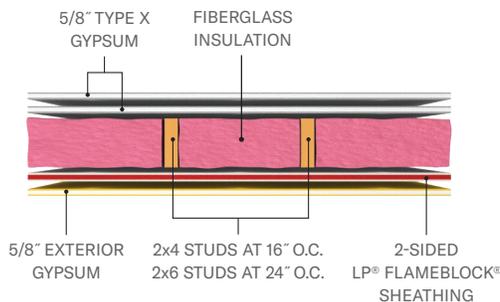
#### U349

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



#### U349

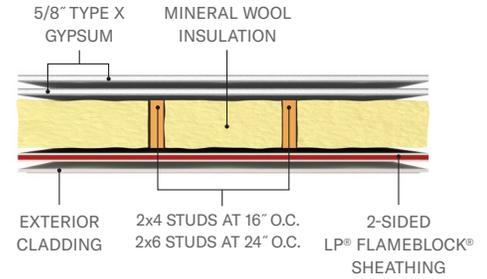
**2-HOUR INTERIOR  
1-HOUR EXTERIOR**



### 2-HOUR INTERIOR, 1-HOUR EXTERIOR

#### W408

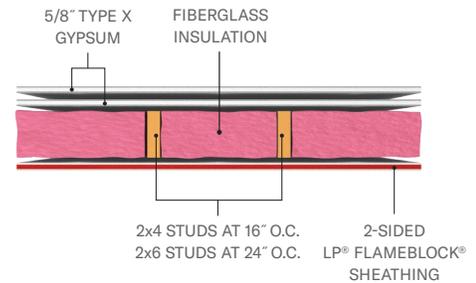
**2-HOUR INTERIOR  
1-HOUR EXTERIOR**



### 2-HOUR INTERIOR ONLY

#### U349

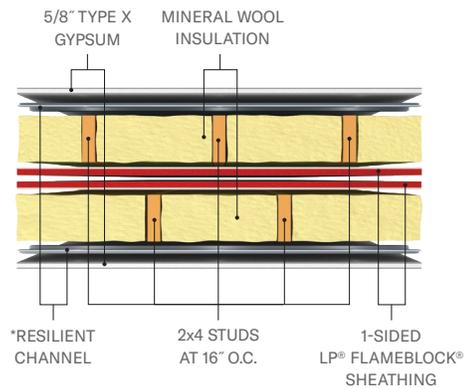
**2-HOUR INTERIOR  
RESISTANCE ONLY**



### TWO 1-HOUR WALLS

#### V340

**TWO 1-HOUR WALLS**  
LOAD RESTRICTED TO  
40% STUD CAPACITY,  
CALCULATED ASSUMING  
A SLENDERNESS RATIO  
OF  $l/d=33$



- 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 4.2 in ICC-ES ESR 1365 for additional information not shown.

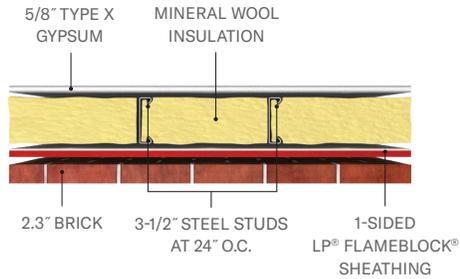
# ASSEMBLIES

## STEEL STUDS

### 1-HOUR EITHER SIDE

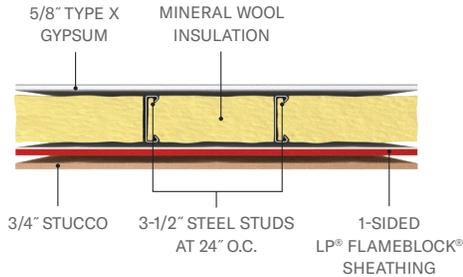
#### U348

1-HOUR EITHER SIDE



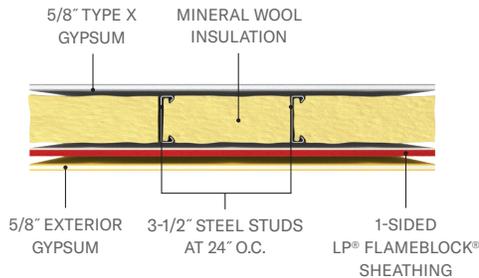
#### U348

1-HOUR EITHER SIDE



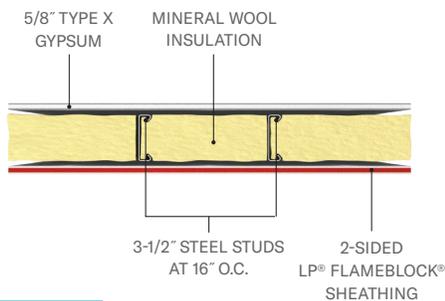
#### U348

1-HOUR EITHER SIDE



#### V337

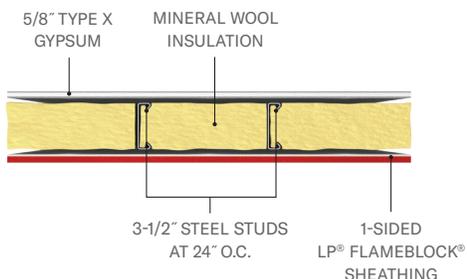
1-HOUR EITHER SIDE  
LOAD RESTRICTED TO 73% STUD CAPACITY, CALCULATED ASSUMING A SLENDERNESS RATIO OF  $l/d=21$



### 1-HOUR INTERIOR ONLY

#### U348

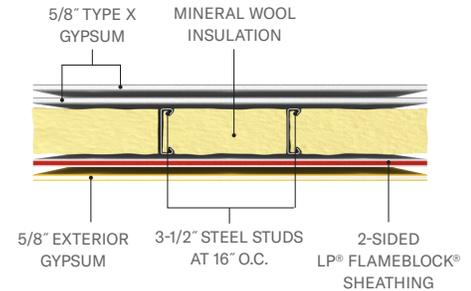
1-HOUR INTERIOR RESISTANCE ONLY



### 2-HOUR EITHER SIDE

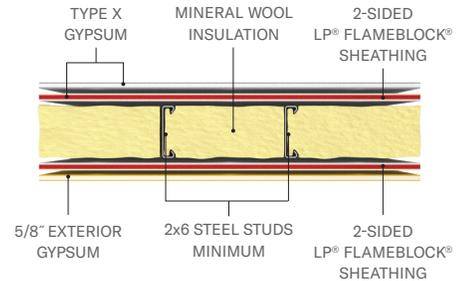
#### V337

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



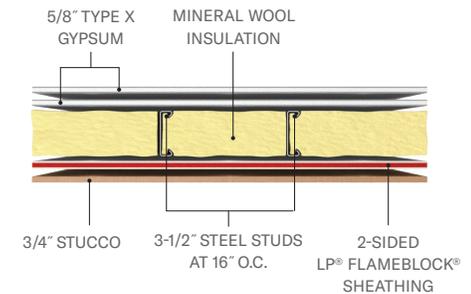
#### V337

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



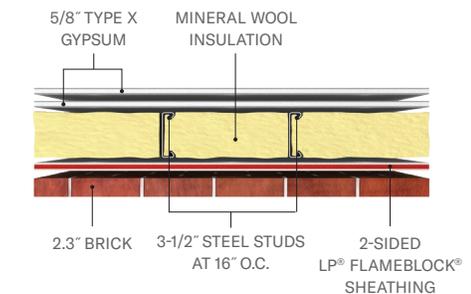
#### V337

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



#### V337

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

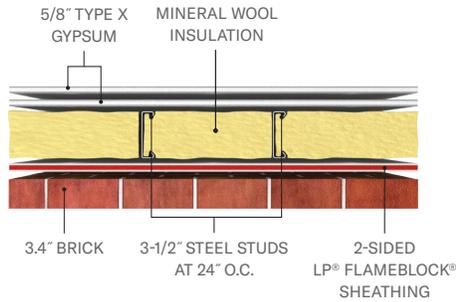


- Reference the UL listings for alternate configurations and additional information.
- The use of 2-sided LP® FlameBlock® sheathing may be required by the building Construction Type. Reference section 4.2 in ICC-ES ESR 1365 for additional information not shown.

## 2-HOUR EITHER SIDE

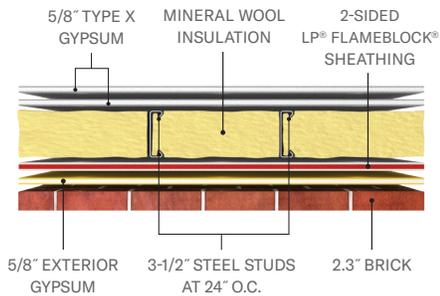
### U349

2-HOUR EITHER SIDE



### U349

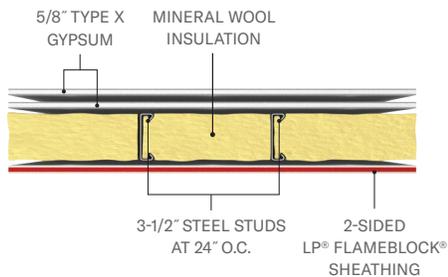
2-HOUR EITHER SIDE



## 2-HOUR INTERIOR ONLY

### U349

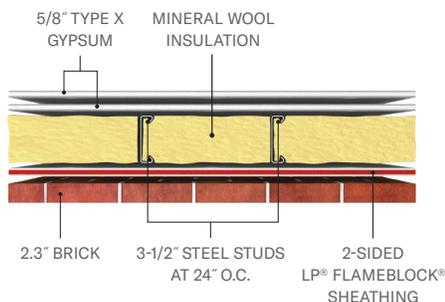
2-HOUR INTERIOR RESISTANCE ONLY



## 2-HOUR INTERIOR, 1-HOUR EXTERIOR

### U349

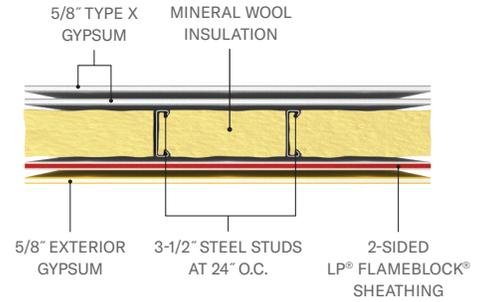
2-HOUR INTERIOR 1-HOUR EXTERIOR



## 2-HOUR INTERIOR, 1-HOUR EXTERIOR

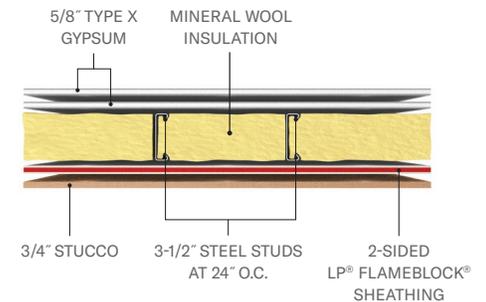
### U349

2-HOUR INTERIOR 1-HOUR EXTERIOR



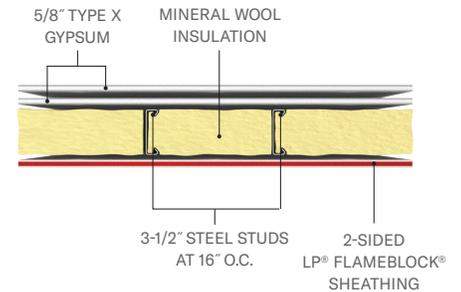
### U349

2-HOUR INTERIOR 1-HOUR EXTERIOR



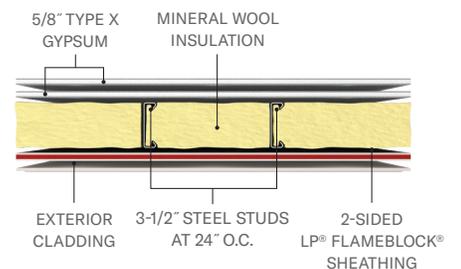
### V337

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



### W408

2-HOUR INTERIOR 1-HOUR EXTERIOR





Find all LP® FlameBlock® product literature at

**LPCORP.COM/FLAMEBLOCK**



**▲ 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](http://www.P65Warnings.ca.gov/wood).

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