

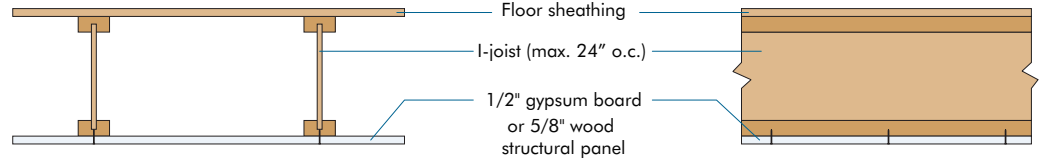
# Fire Protection of Floors Constructed with I-Joists for Compliance with the International Residential Code

Beginning with the 2012 IRC, new fire protective membrane provisions were added for residential floor assemblies. The provisions apply to I-joists, floor trusses, light-gauge steel framing and less than 2" x 10" nominal dimension lumber and structural composite lumber. The provisions are in Section R501.3 of the 2012 IRC and Section R302.13 of the 2015 and 2018 IRC.

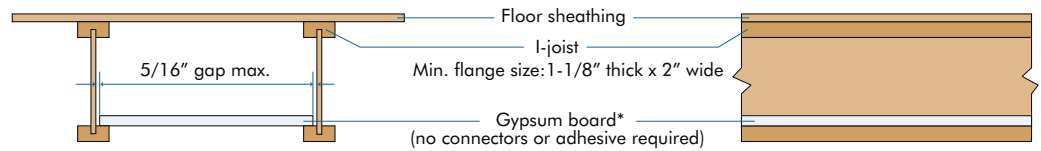
This informational flyer shows prescriptive methods for fire protection of floors constructed with prefabricated wood I-joists, including Roseburg RFPI®-Joists.

For specific requirements and limitations regarding I-joists, refer to APA report SR-405 (generic I-joists) and APA report PR-S259 (Roseburg RFPI®-Joists) at [www.apawood.org](http://www.apawood.org) or [www.Roseburg.com](http://www.Roseburg.com).

## 1/2-INCH GYPSUM BOARD ATTACHED TO BOTTOM OF FLANGE

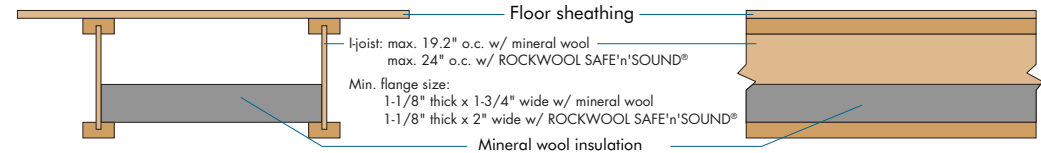


## GYPSUM BOARD PLACED ON TOP OF BOTTOM FLANGE\*

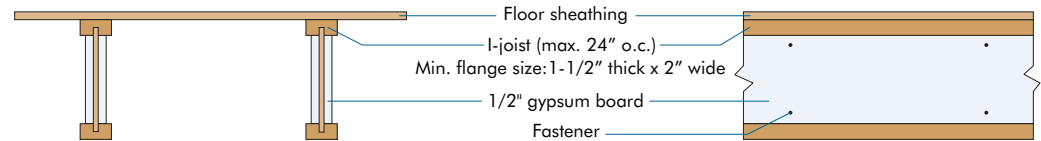


\* Minimum 1/2" thick gypsum board for joists at 19.2" o.c. or less. Minimum 5/8" thick gypsum board for joists at 24" o.c.

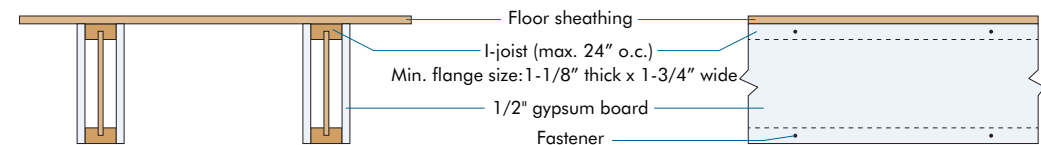
## MINERAL WOOL INSULATION



## 1/2-INCH GYPSUM BOARD ATTACHED TO WEB



## 1/2-INCH GYPSUM BOARD ATTACHED TO SIDES OF FLANGE



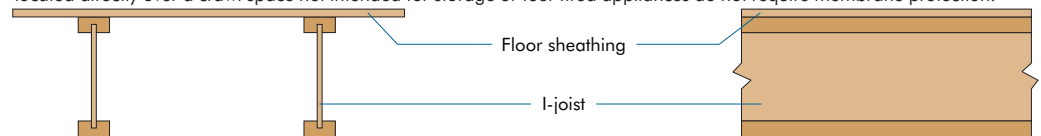
## STRUCTURAL COMPOSITE LUMBER EXCEPTION

In accordance with Exception 4 of the 2012 IRC Section R501.3 and 2015 and 2018 IRC Section R302.13, floor assemblies using dimension lumber or SCL equal to or greater than 2 x 10 nominal do not require membrane protection.



## CRAWL SPACE EXCEPTION

In accordance with Exception 2 of the 2012 IRC Section R501.3 and 2015 and 2018 IRC Section R302.13, floor assemblies located directly over a crawl space not intended for storage or fuel-fired appliances do not require membrane protection.



## AUTOMATIC SPRINKLER EXCEPTION

In accordance with Exception 1 of the 2012 IRC Section R501.3 and 2015 and 2018 IRC Section R302.13, floor assemblies located directly over a space protected by an automatic sprinkler system do not require membrane protection.

