

Technical Bulletin (TB-IJ-8)

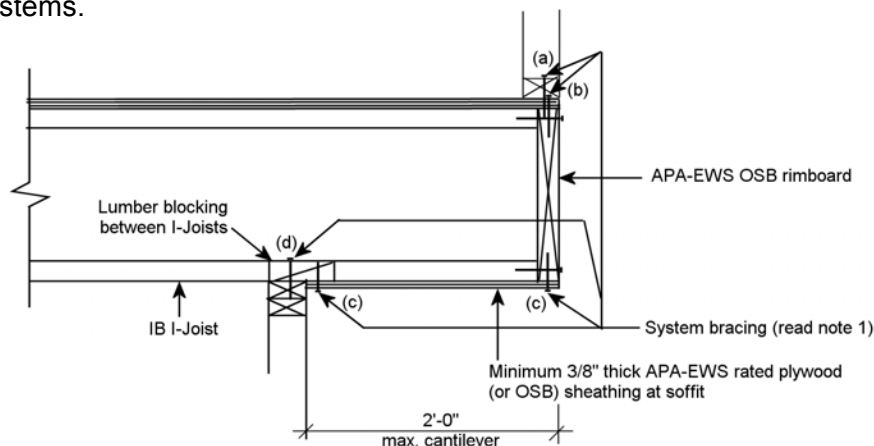
Subject: System Bracing Option for Cantilevered IB I-Joists

July 2013 (Revised 2017)

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System bracing is always required by the building code. IRC (International Residential Code) refers to “braced walls”. IBC (International Building Code) refers to “shear walls”. Both require system bracing at the floor (and roof) level for global lateral stability.

The most common type of system bracing at the floor level includes OSB rimboard continuously supported by and nailed to the bearing wall. This also tends to be the most economical and expedient method. However, there are cases where alternate methods are desired. For example, at cantilevers, it is desirable to have a clear path for installation of fiberglass insulation. The following detail illustrates another option for providing the required system bracing. Any alternate system bracing method, including this one, should be reviewed and approved by the building designer who is ultimately responsible for the design of lateral and global stability systems.



System Bracing Option At Floor Level (not to scale)

Notes:

- (1) (a) Nail bottom wall plate thru subfloor into OSB rimboard, (b) nail subfloor to OSB rimboard, (c) nail plywood (or OSB) soffit to OSB rimboard and lumber blocking, and (d) nail lumber blocking to top wall plate per 2009 IRC Table R602.3(1) or applicable local building code.
- (2) I-Joist shall be designed for additional vertical load (if any) at the end of the cantilever.
- (3) Temporary lateral bracing (for example, I-Joist blocking every 4th joist bay) is required during I-Joist installation to prevent rollover. System bracing serves to laterally brace the end of the I-Joist in the permanent installation.