



PDHonline Course S242 (2 PDH)

Introduction to Structural Insulated Panels (SIPs)

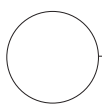
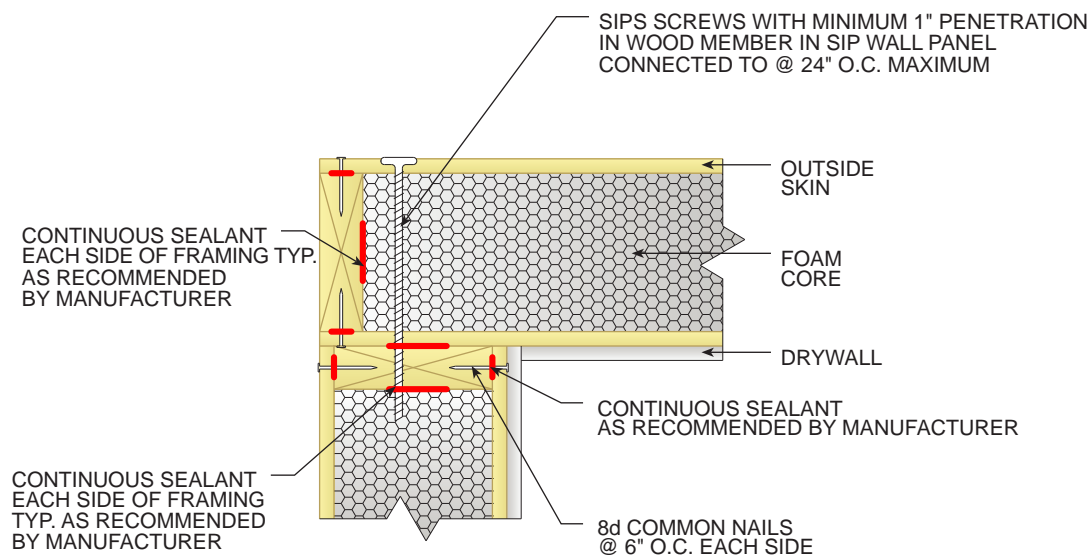
Instructor: Mike J. Nelson, P.E., S.E

2020

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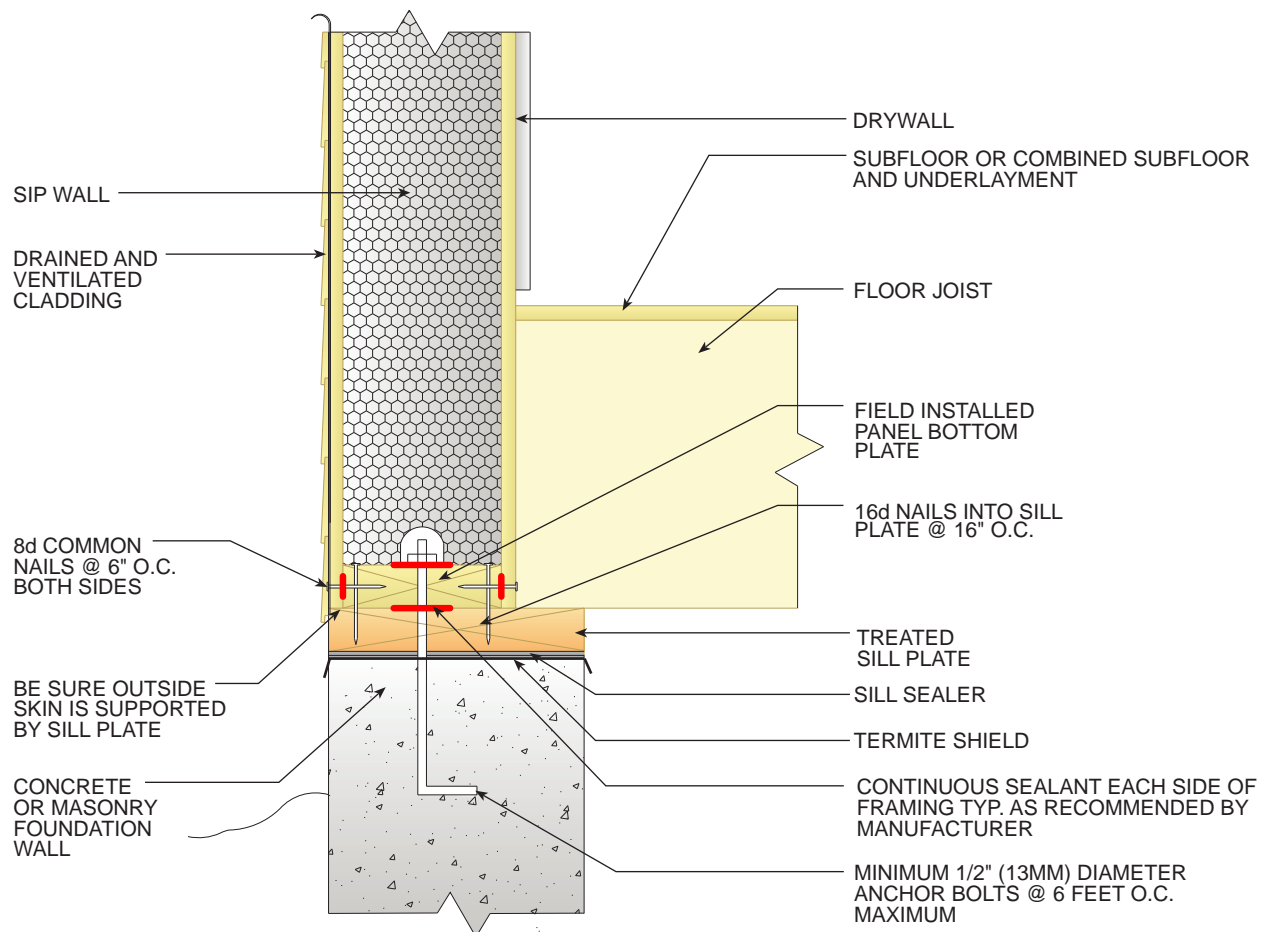
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WALL-TO-WALL PANEL CONNECTIONS

CORNER WALL CONNECTION

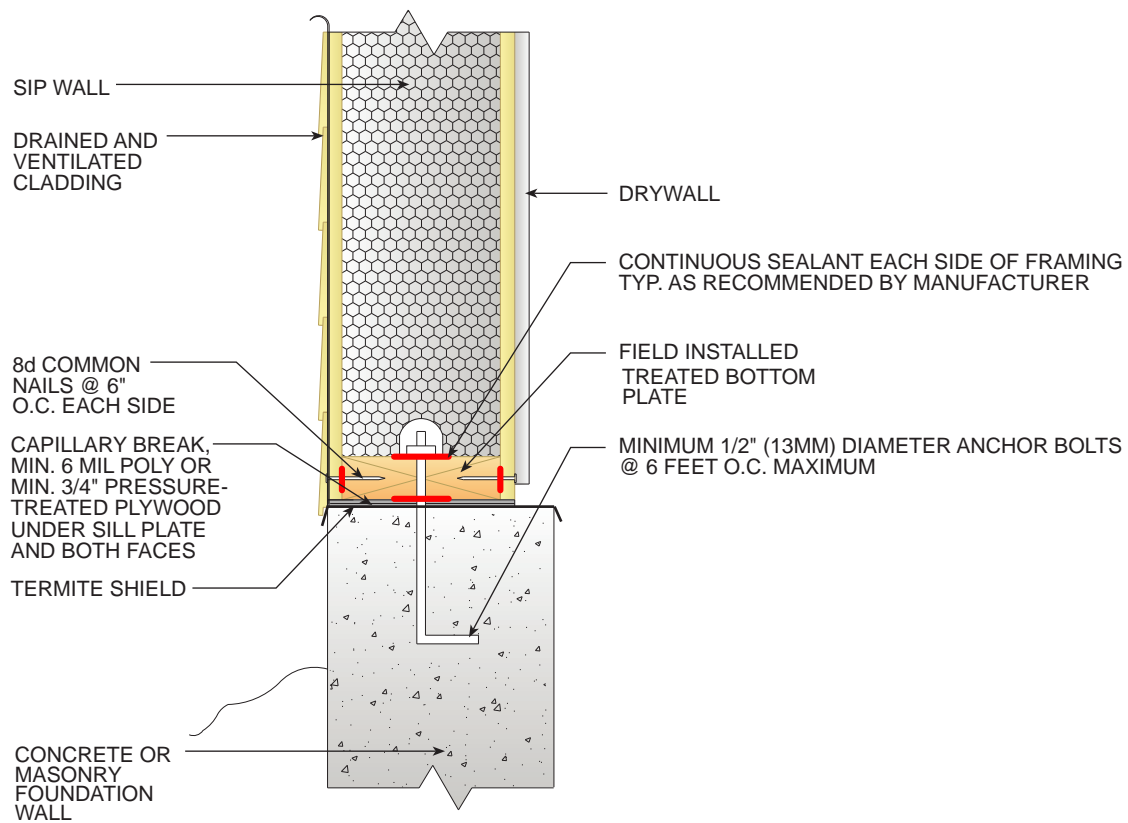
Fig. 2



FOUNDATION CONNECTIONS

FOUNDATION CONNECTION DETAIL A

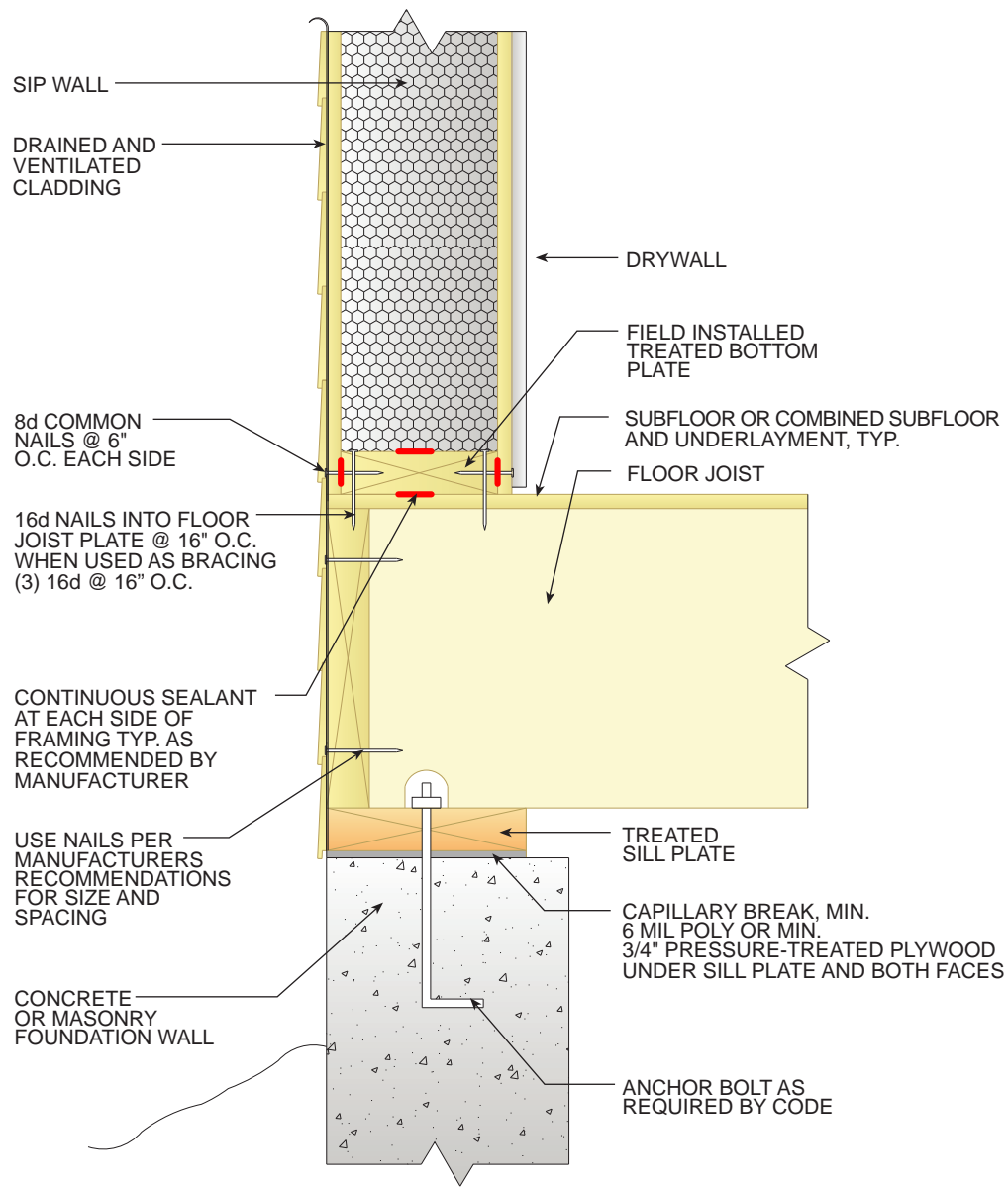
Fig. 3



FOUNDATION CONNECTIONS

FOUNDATION CONNECTION DETAIL B

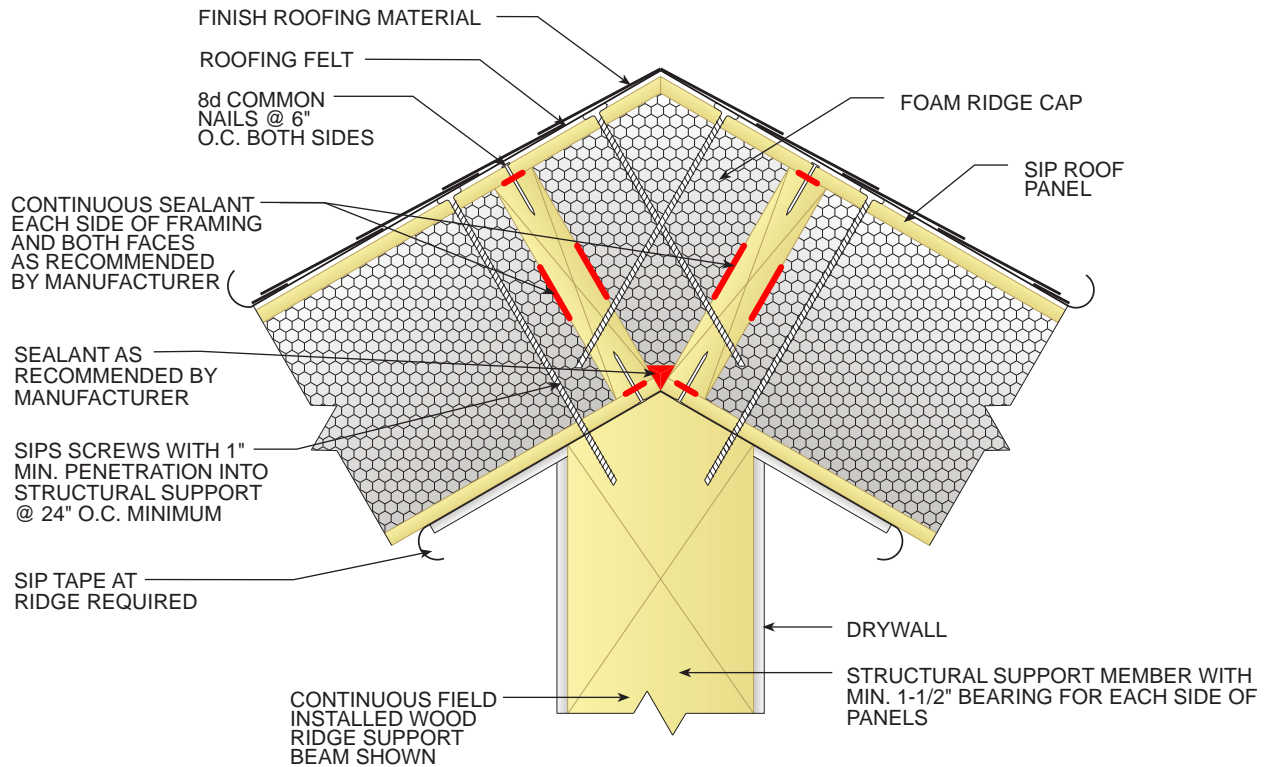
Fig. 4



FOUNDATION CONNECTIONS

FOUNDATION CONNECTION DETAIL C

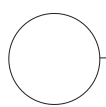
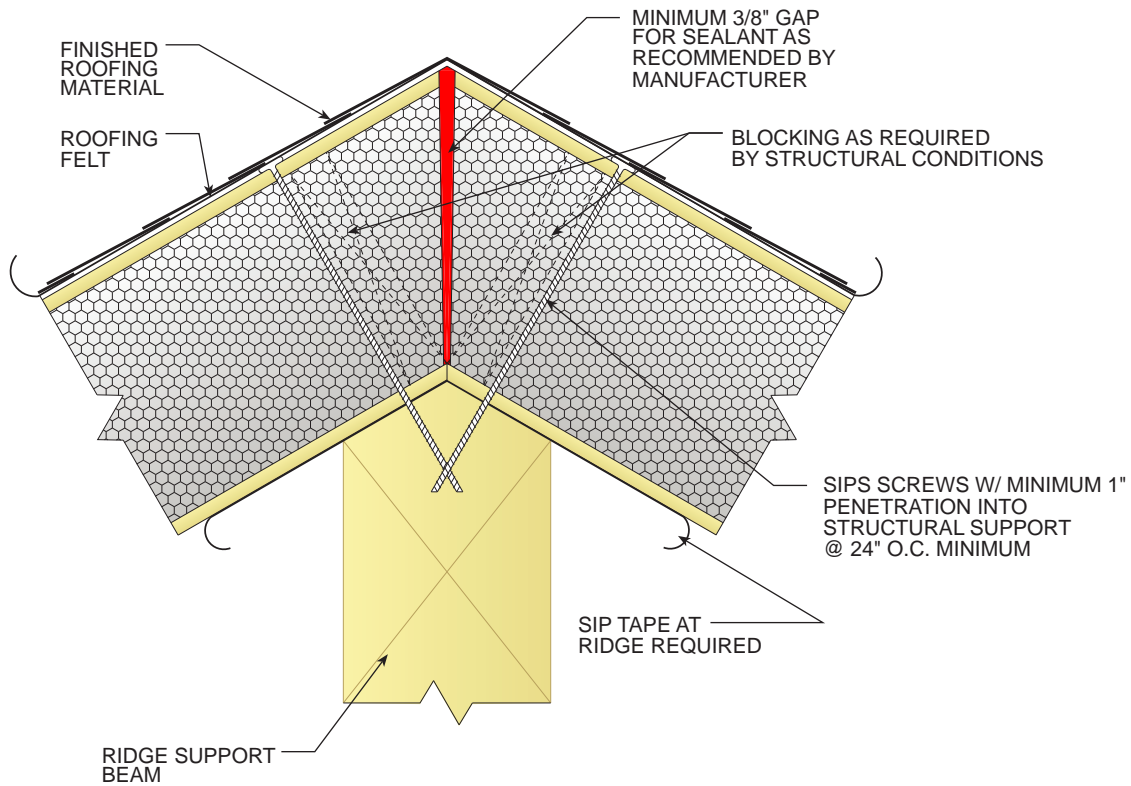
Fig. 5



ROOF-TO-ROOF PANEL CONNECTIONS

FOAM RIDGE CAP DETAIL

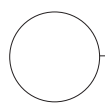
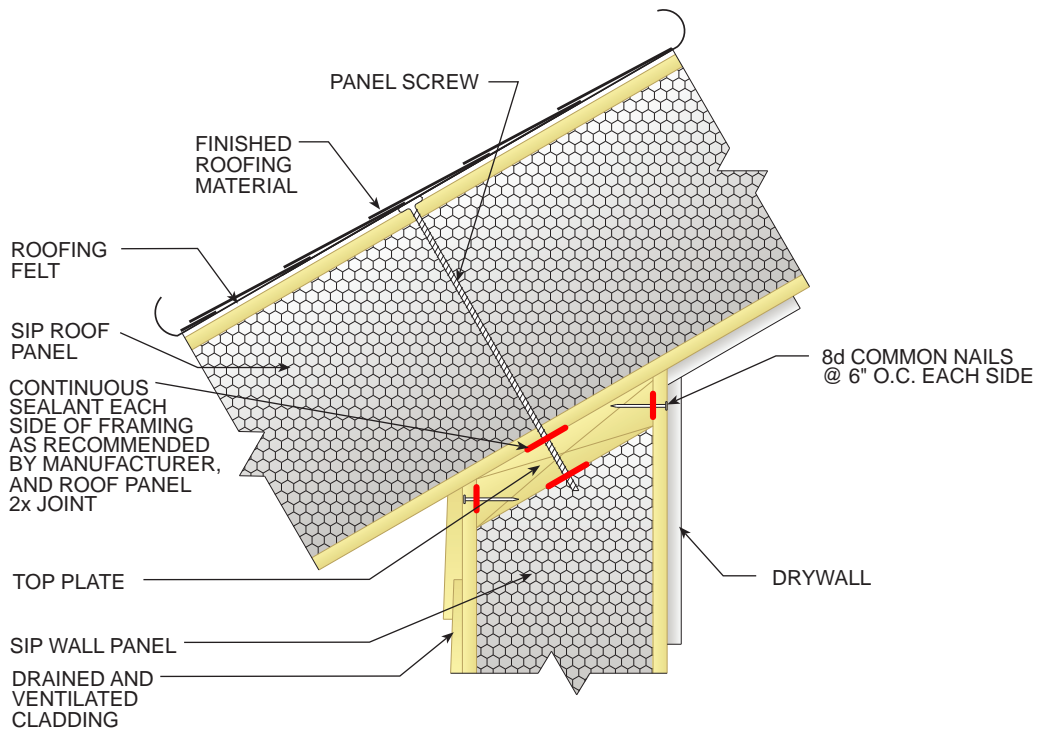
Fig. 6



ROOF-TO-ROOF PANEL CONNECTIONS

BEVELED SIP RIDGE DETAIL

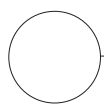
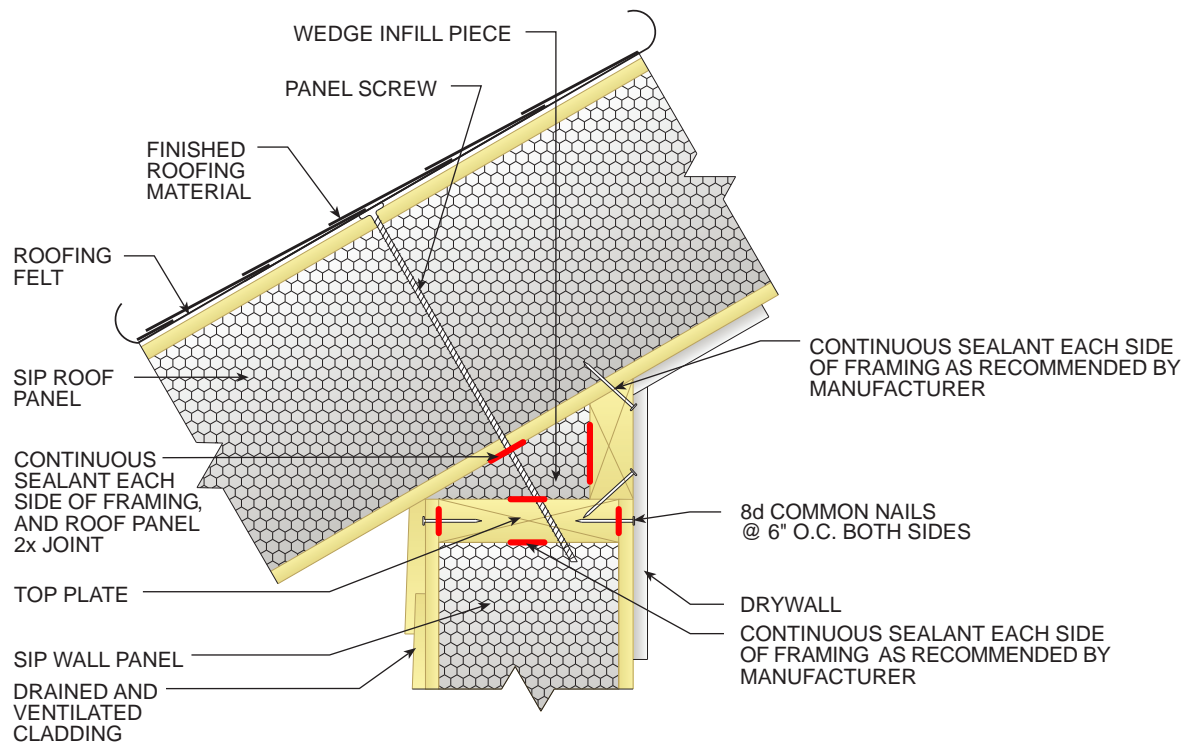
Fig. 7



ROOF-TO-WALL PANEL CONNECTIONS

BEVELED SIP WALL

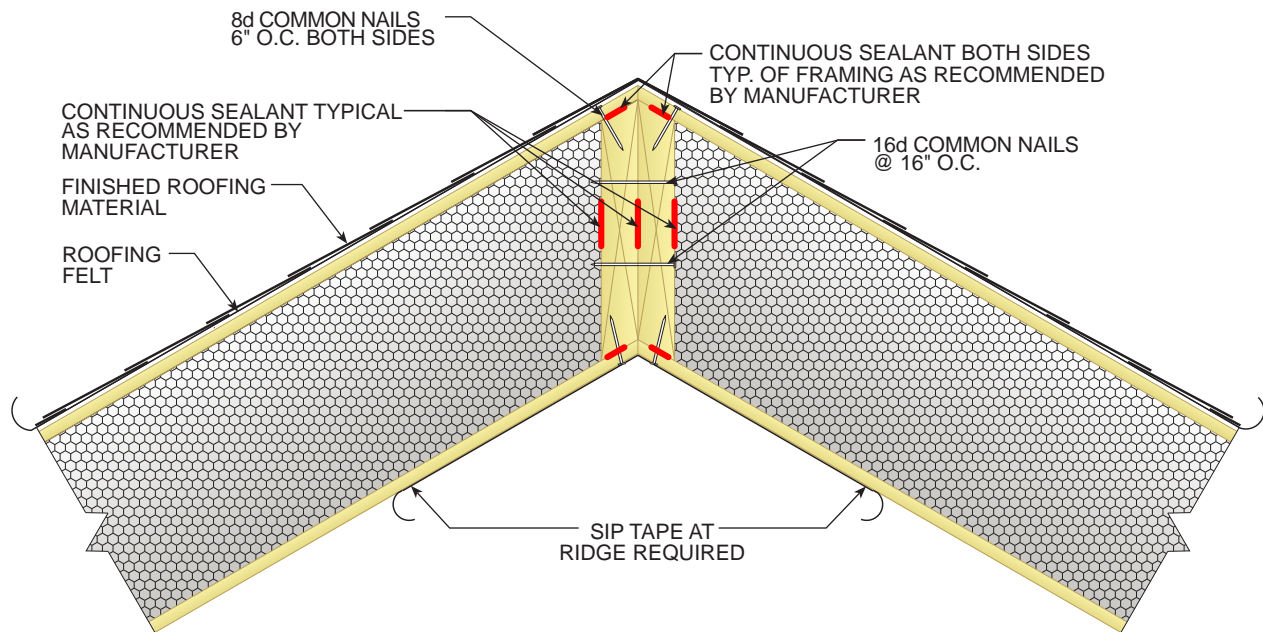
Fig. 8



ROOF-TO-WALL PANEL CONNECTIONS

WEDGE INFILL PIECE

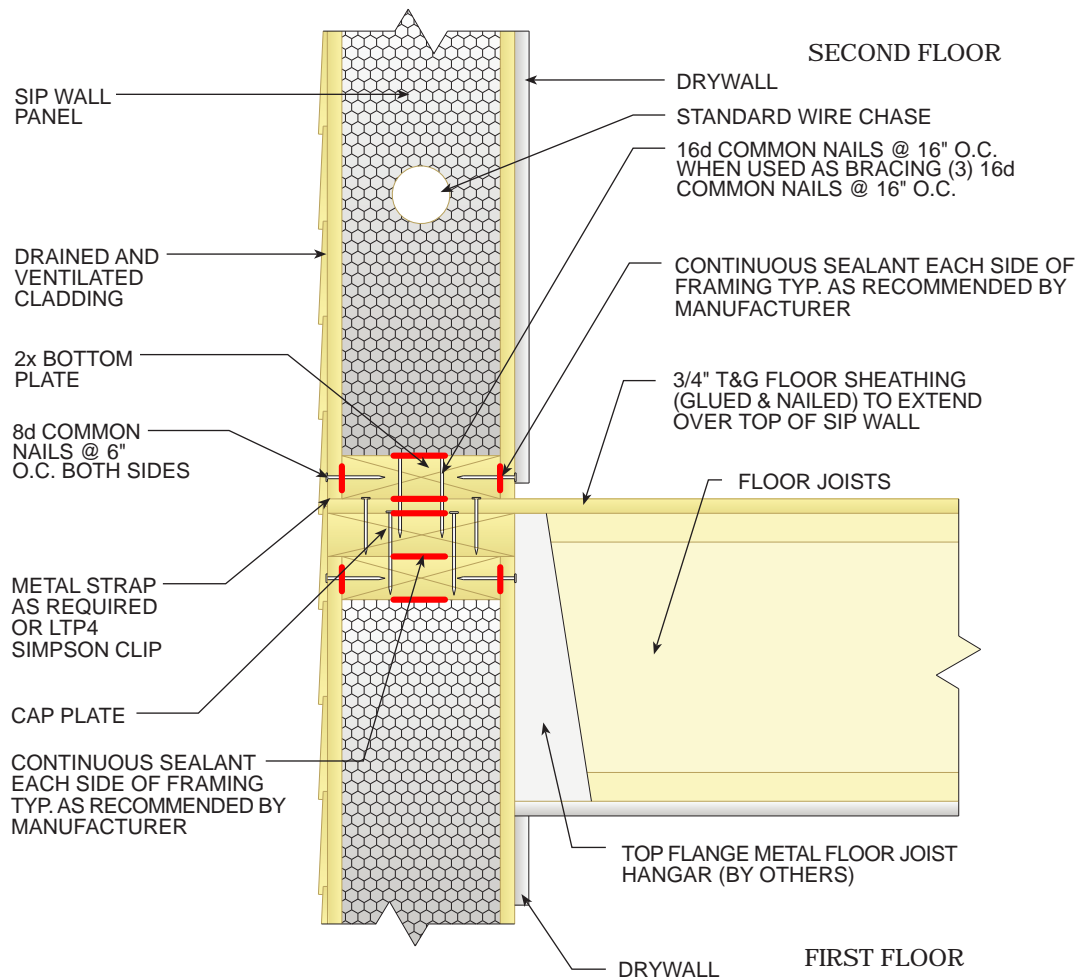
Fig. 10



ROOF-TO-ROOF PANEL CONNECTIONS

RIDGE DETAIL AT CANTILEVER (LIMIT 2' OVERHANG)

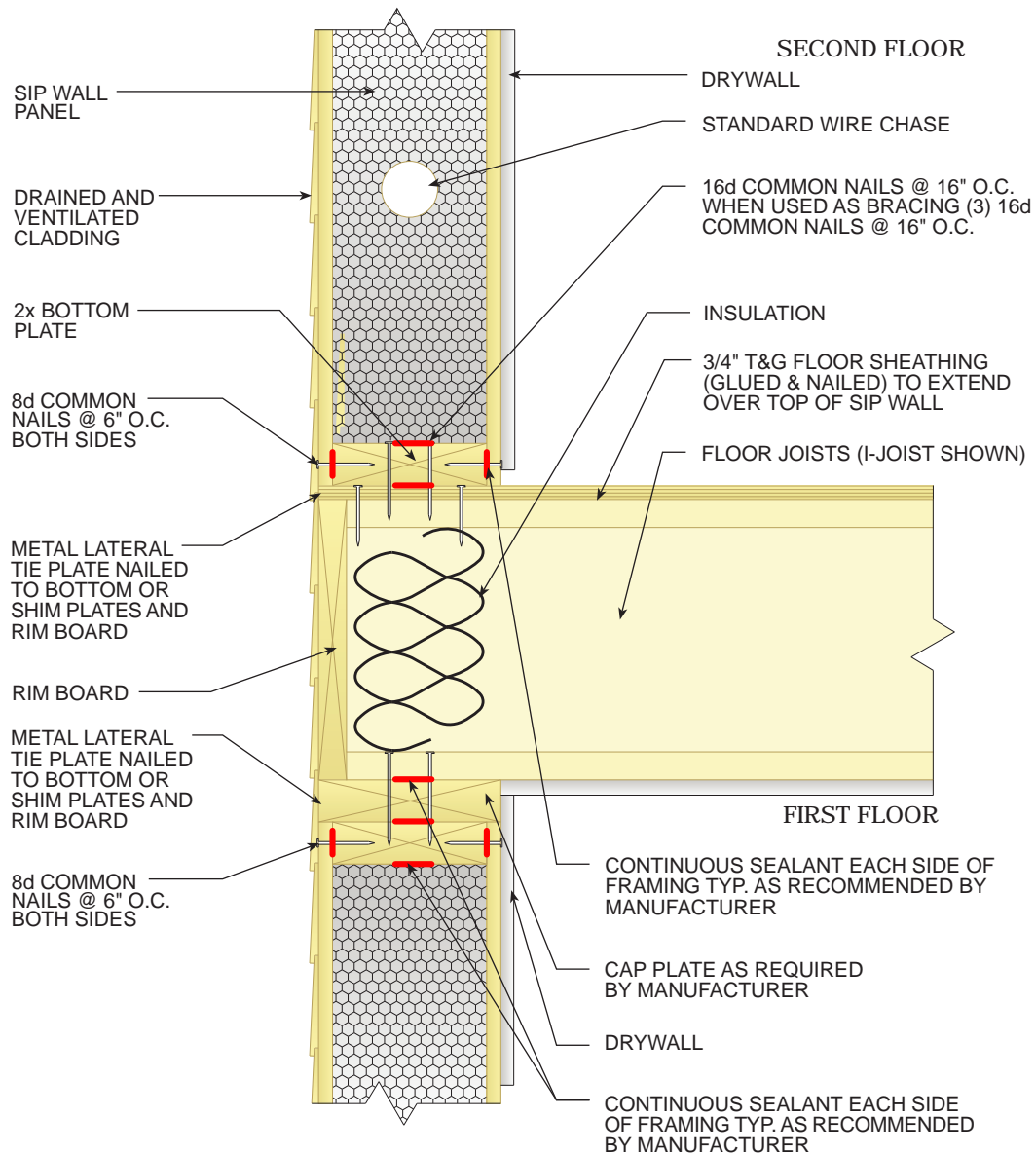
Fig. 11



2ND FLOOR CONNECTION DETAILS

HANGING FLOOR

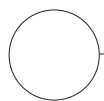
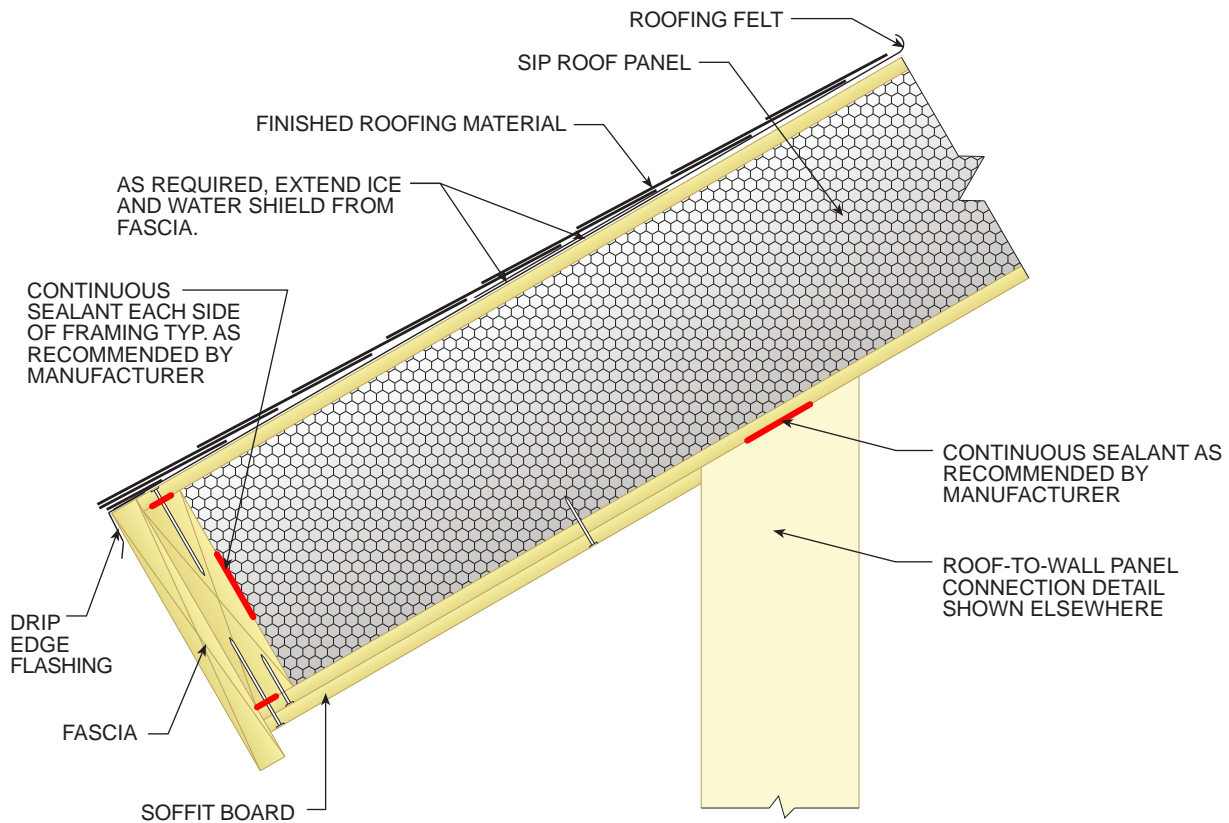
Fig. 12



2ND FLOOR CONNECTION DETAILS

RIM BOARD

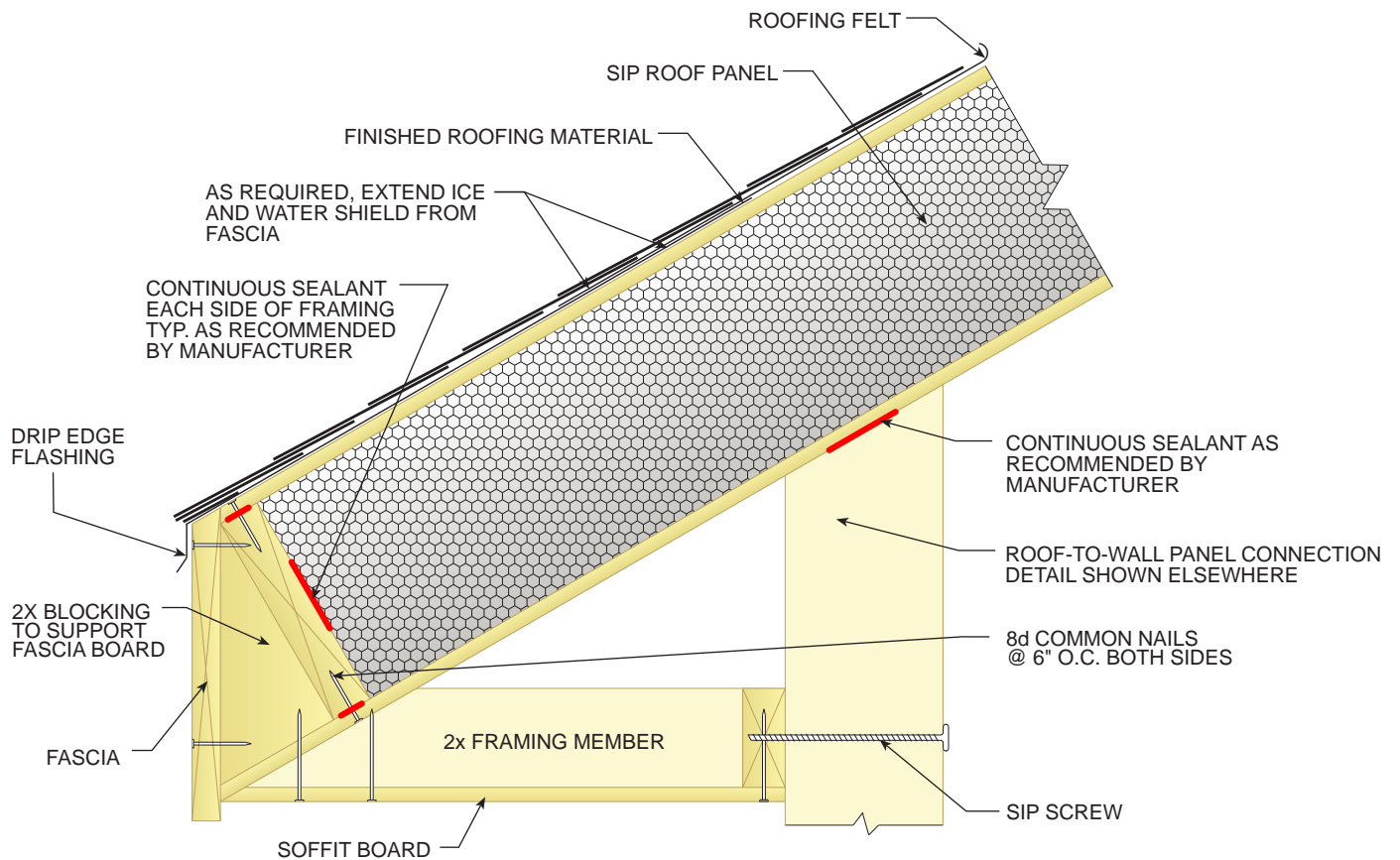
Fig. 13



EAVES DETAILING

EAVES DETAIL A

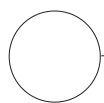
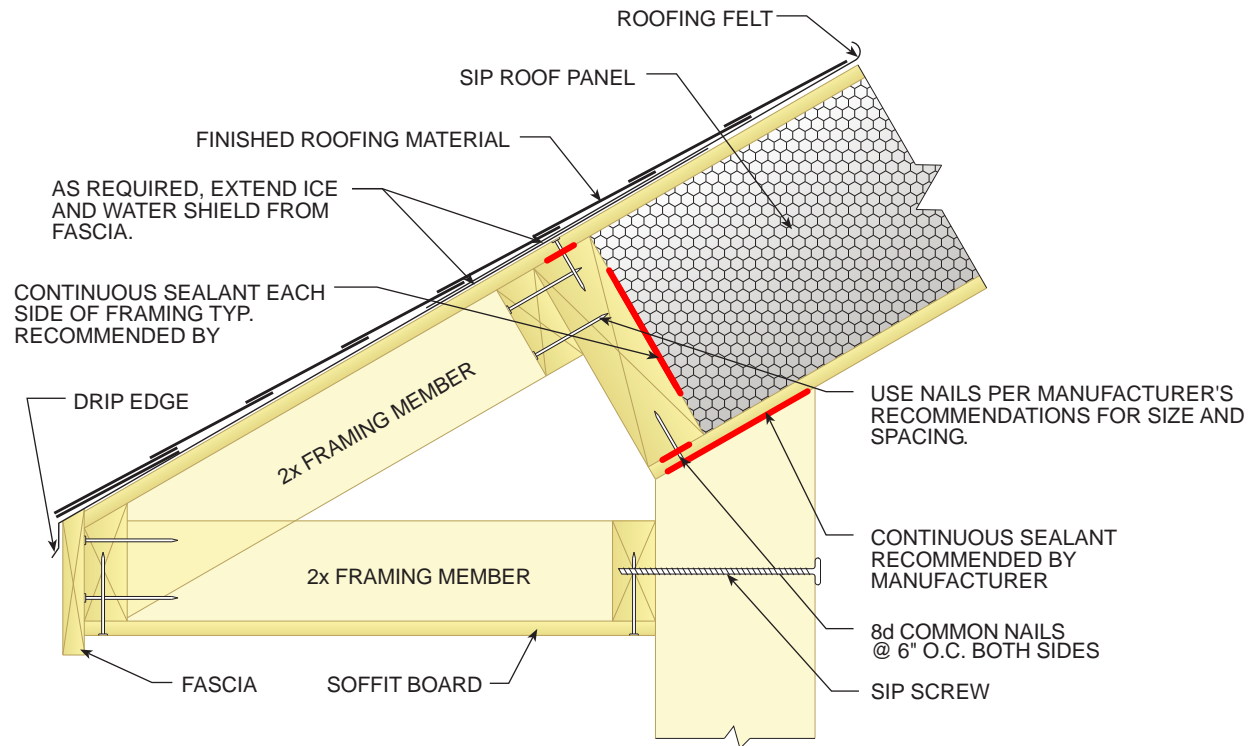
Fig. 14



EAVES DETAILING

EAVES DETAIL B

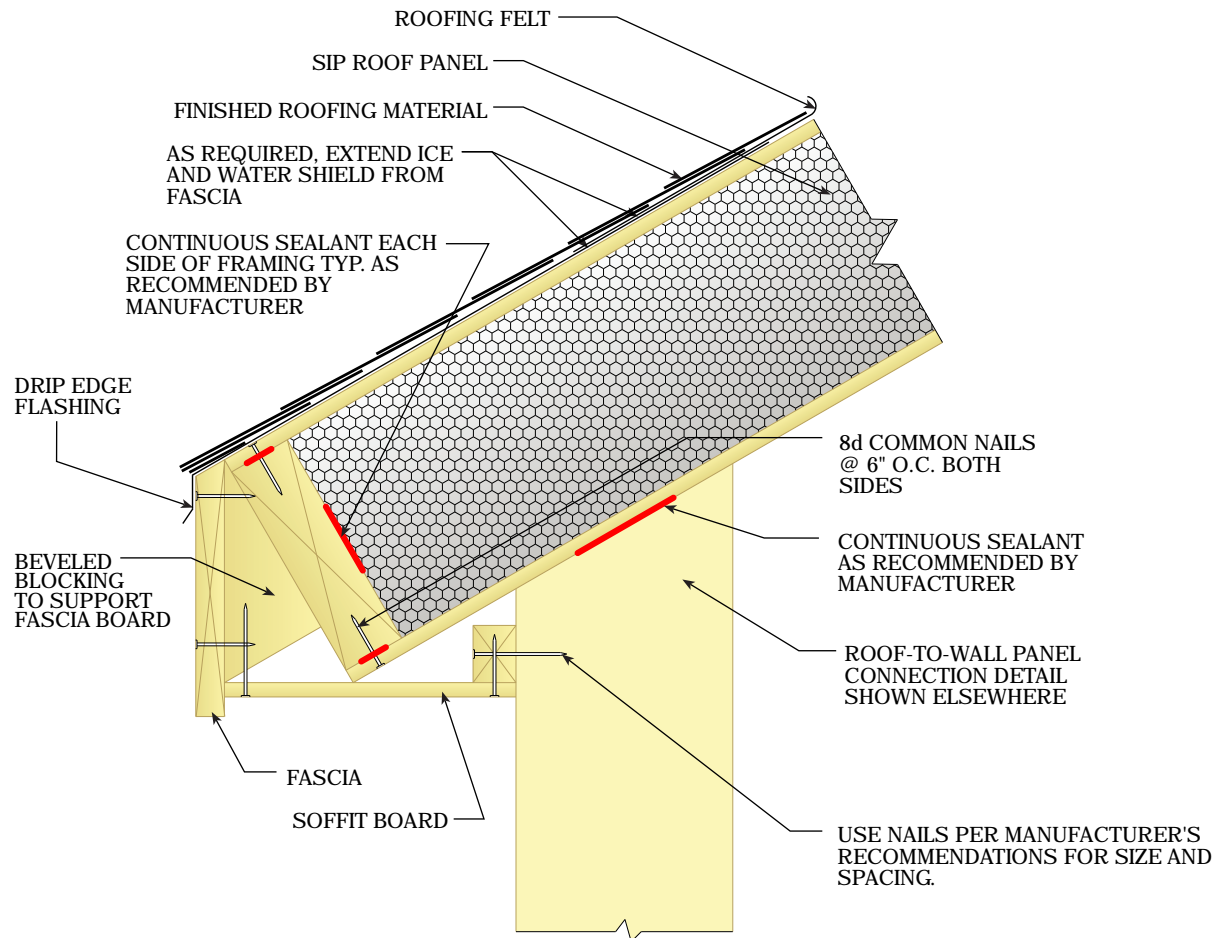
Fig. 15



EAVES DETAILING

EAVES DETAIL C

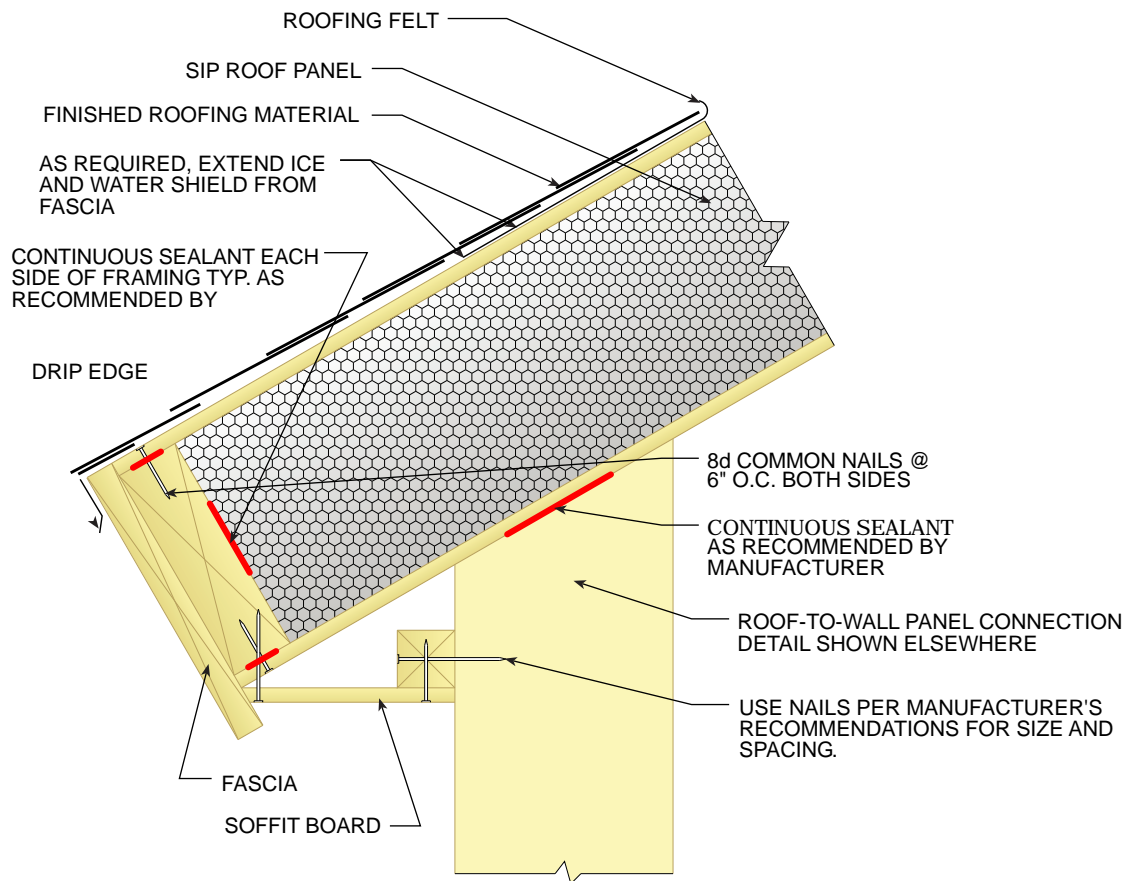
Fig. 16



EAVES DETAILING

EAVES DETAIL D

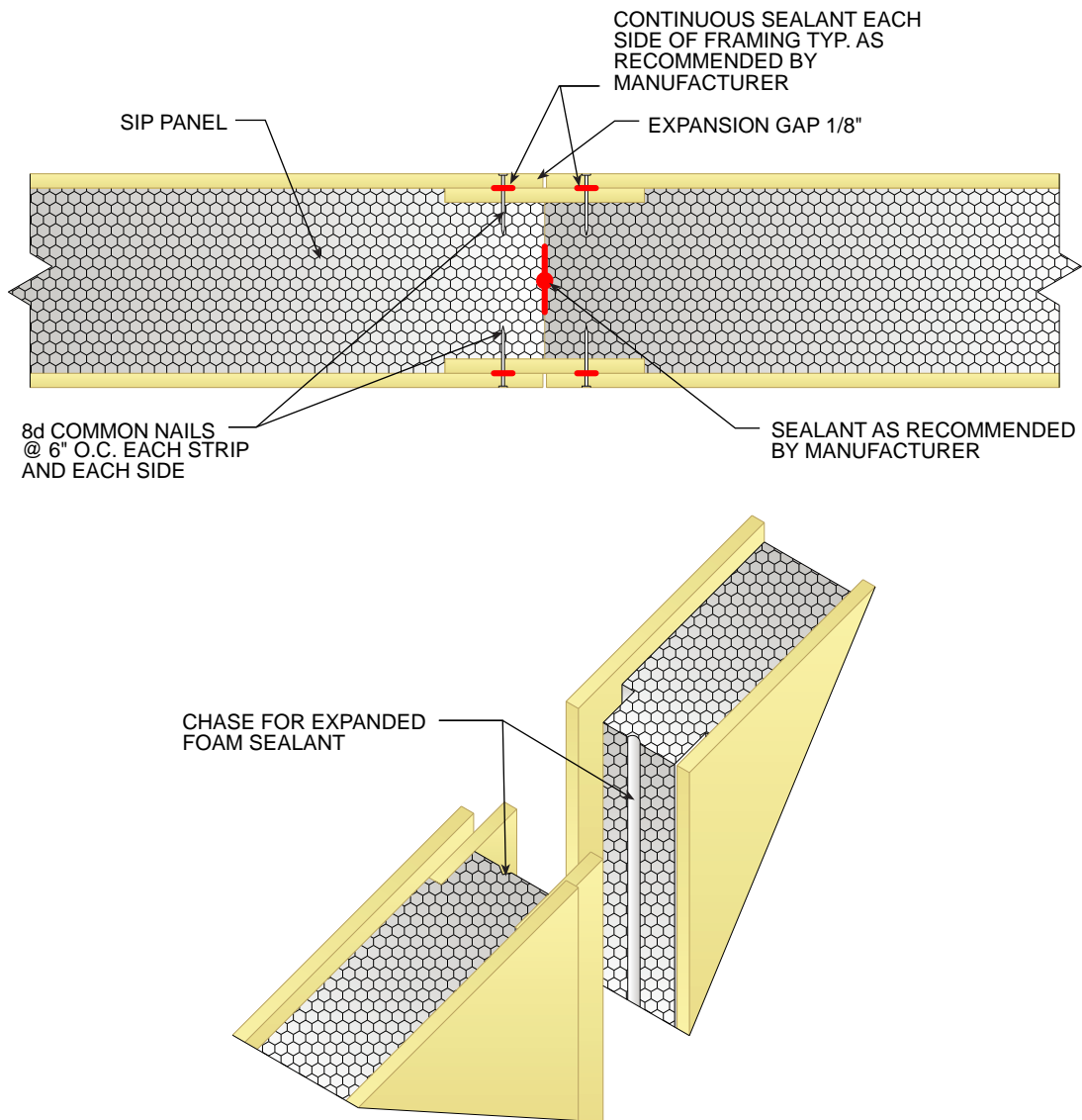
Fig. 17



EAVES DETAILING

EAVES DETAIL E

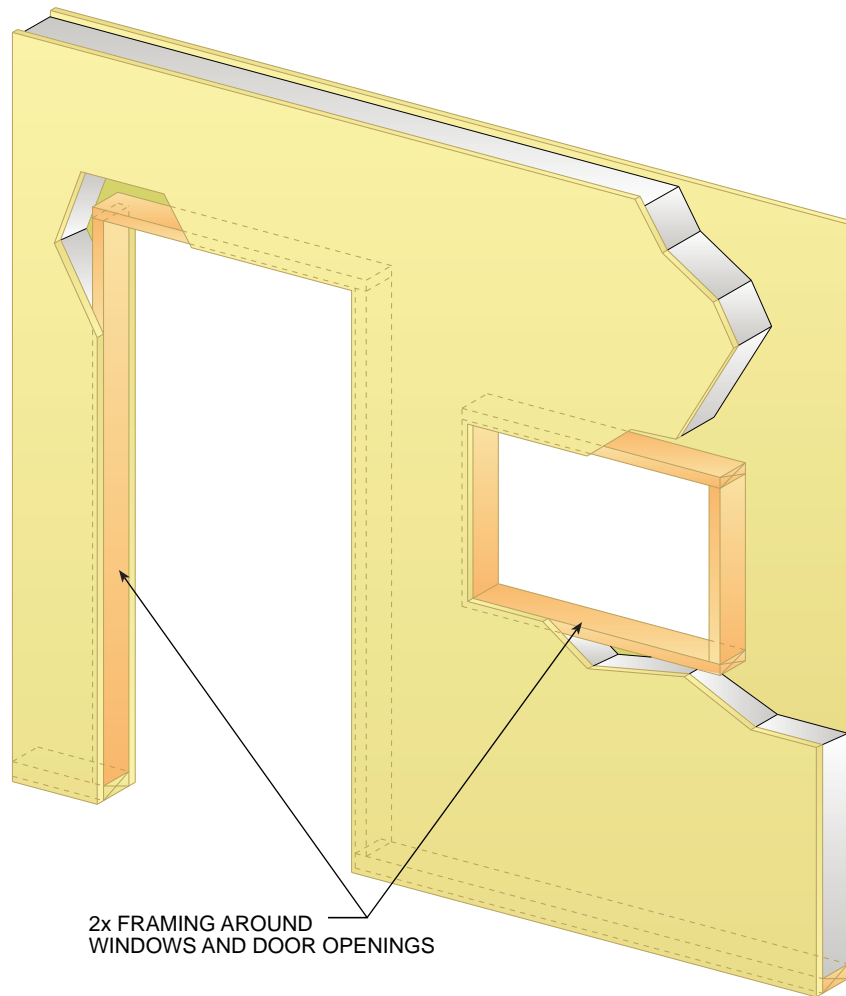
Fig. 18



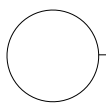
○ WALL-TO-WALL VERTICAL PANEL CONNECTIONS

SURFACE SPLINE FOR VERTICAL SPLICE

Fig. 19

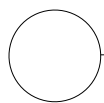
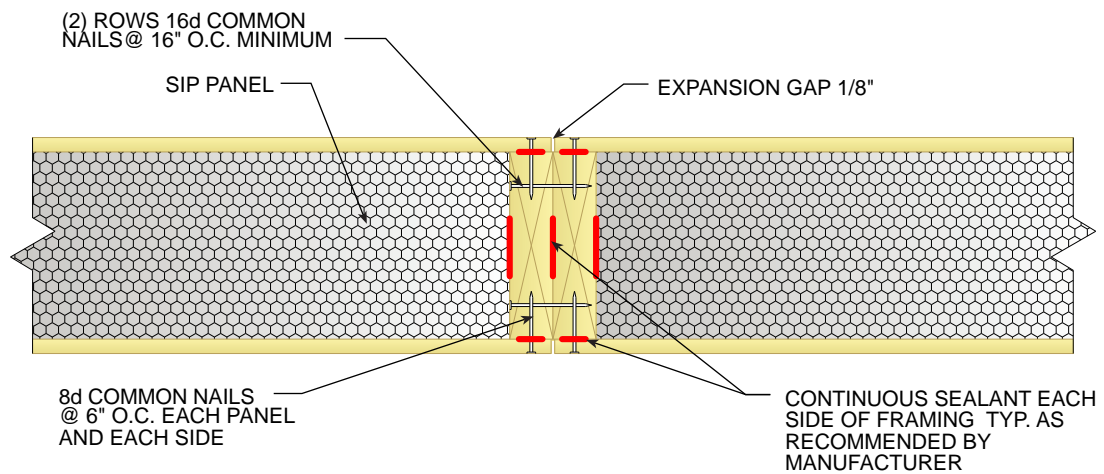


2x FRAMING AROUND
WINDOWS AND DOOR OPENINGS



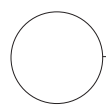
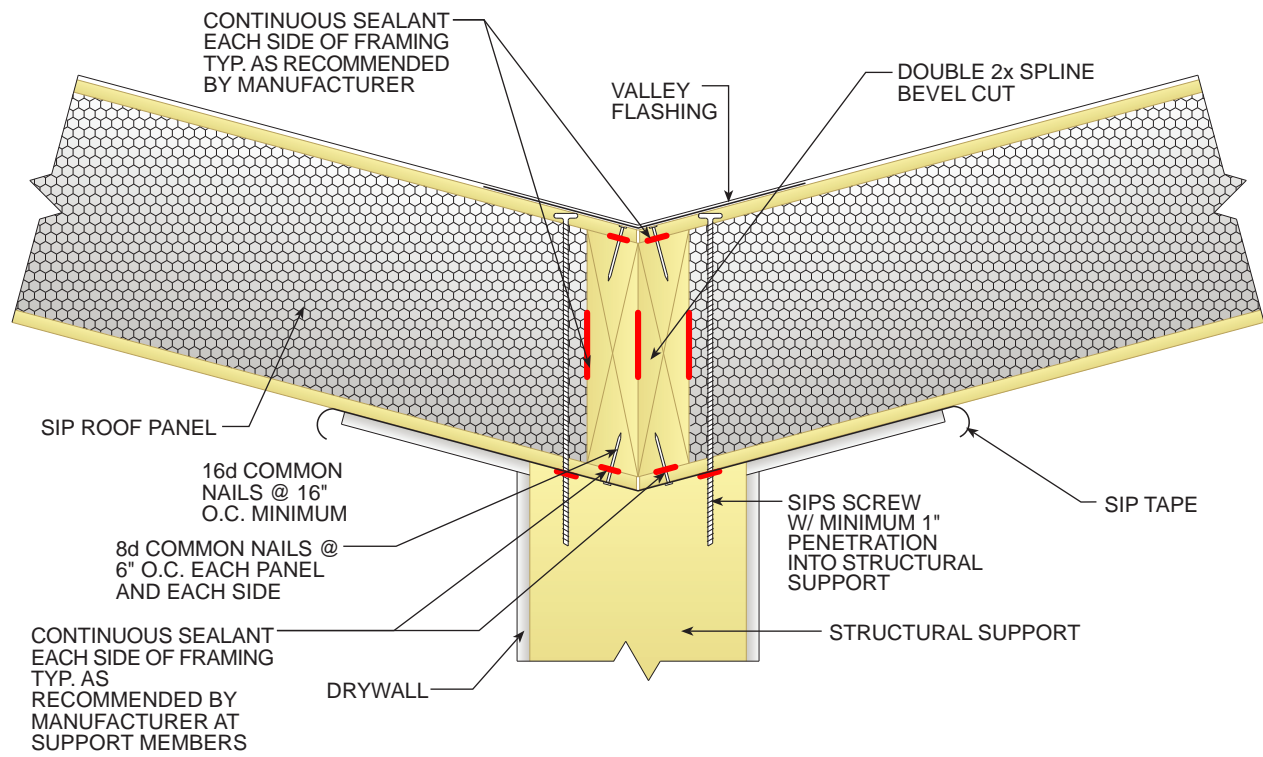
DOOR AND WINDOW FRAMING

Fig. 21



WALL-TO-WALL VERTICAL PANEL CONNECTIONS
 DIMENSIONAL LUMBER SPLINE

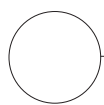
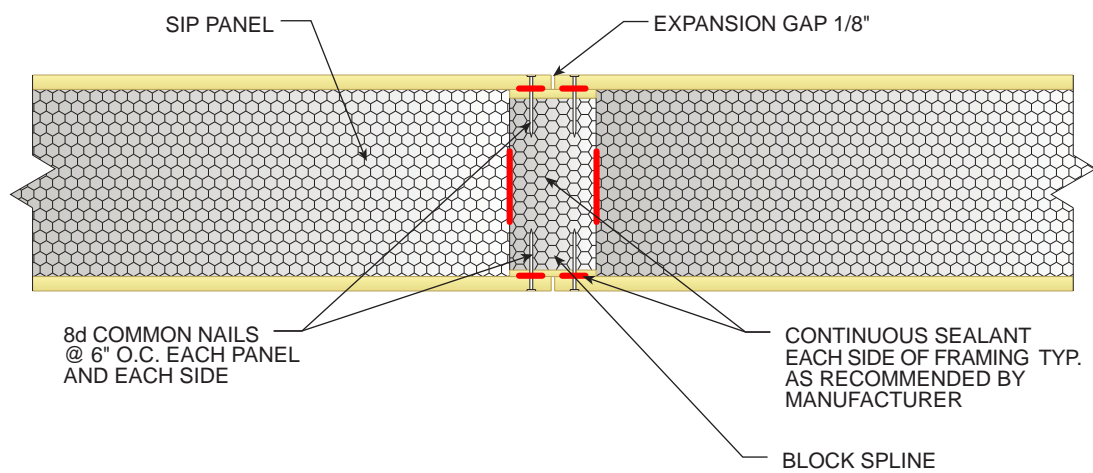
Fig. 20



ROOF-TO-ROOF PANEL CONNECTIONS

VALLEY DETAIL

Fig. 22



WALL-TO-WALL VERTICAL PANEL CONNECTIONS

BLOCK SPLINE

Fig. 23