

BACKER BLOCK AND HEADER DETAIL

Backer block required for face-mount hangers (both sides of I-joist) & when top mount hanger load exceeds 250 lbs.

See charts for backer block thickness & depth.

Install backer block tight to the top flange.

Attach backer block to web with 16 - 10d common nails, clinched. See chart for maximum capacity for this detail.

Backer block must be wide enough to permit required nailing without splitting (min. width of 12" recommended)

GENERAL NOTES:

For hanger capacity see hanger manufacturer recommendations.

Verify I-joist capacity to support concentrated load from "header joist" in addition to all other loads.

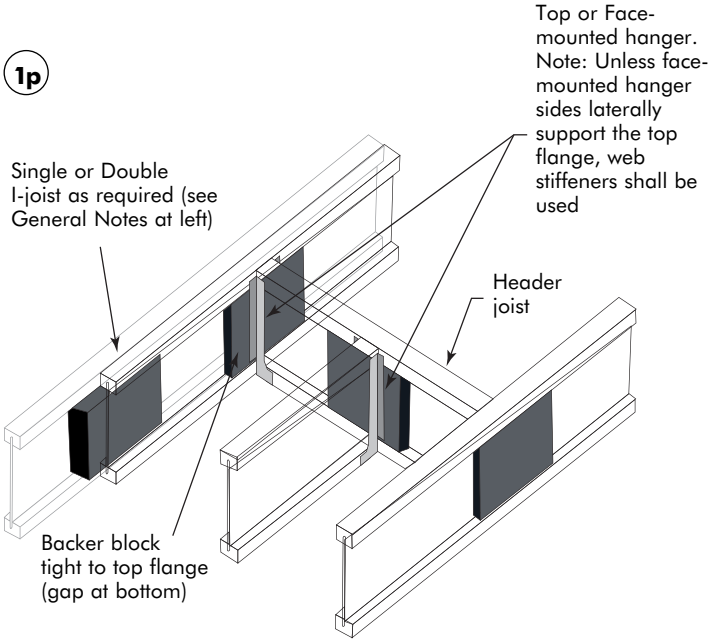
If a double I-joist is required to support "header joist" load, refer to Roseburg EWP Design Guide or Installation Guide for double I-joist connection guidelines.

Before installing a backer block to a double I-joist, drive 4 additional 10d nails from both sides of double I-joist through the webs and filler block at backer block location. Clinch nails.

I-Joist Flange Width	Backer block Material Thickness Required ^{(a)(b)}	Max. load capacity using 16-10d com. nails
1-3/4"	23/32"	975 lbs
2-1/16"	7/8"	1135 lbs
2-5/16"	1"	1250 lbs
2-1/2"	1-1/8"	1250 lbs
3-1/2"	1-1/2"	1250 lbs

(a) Minimum grade for backer material shall be Utility grade SPF or better for solid sawn lumber and Rated Sheathing grade for wood structural panels.

(b) Glue 2-ply backer blocks together with construction grade adhesive (ASTM D-3498)



Backer Block Depth				
Joist Depth	9-1/2"	11-7/8"	14"	16"
Top Mount Hangers - Min. Backer Block Depth	5-1/2"	5-1/2"	7-1/4"	7-1/4"
Face Mount Hangers - Req'd Backer Block Depth	6-1/4"	8-5/8"	10-3/4"	12-3/4"