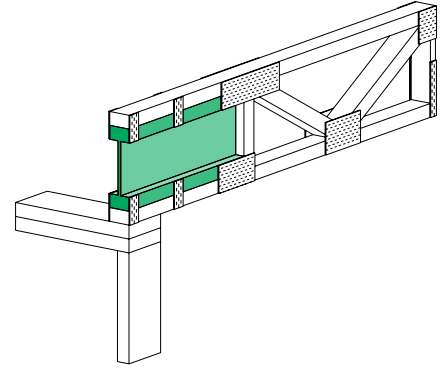


## Nordic Joist Inserts

This technical note provides the design properties for I-joist inserts for use in floor or roof trusses.

This technical note is based on the following assumptions:

1. Inserts used on exterior bearings.
2. Inserts with a maximum length of 16 inches.
3. Connection detail with common nails or truss plates by others.



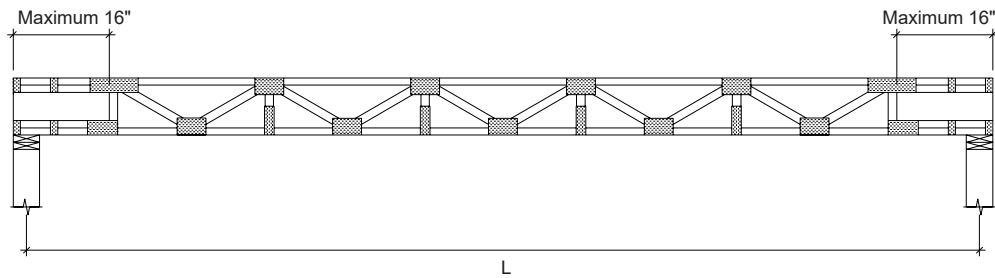
### Design Properties for Nordic Joist Inserts

Depth (in.)	Series	V <sup>(a)</sup> (lbf)	VLC <sup>(b)</sup> (lbf/ft)	1 3/4" Bearing		Weight (plf)
				ER <sup>(c)</sup> (lbf)	ER <sup>(c)</sup> w/ BS (lbf)	
8-7/8	NI-40x	1,050	2,000	1,035	1,035	2.51
	NI-80	1,050	2,000	1,050	1,050	3.15
11	NI-40x	1,380	2,000	1,240	1,380	2.79
	NI-80	1,380	2,000	1,310	1,380	3.37
13	NI-40x	1,610	2,000	1,300	1,590	2.93
	NI-80	1,610	2,000	1,405	1,590	3.61

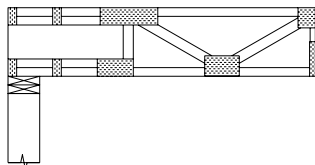
- a) Shear capacity, V, of the I-joist.
- b) Uniform vertical load capacity, VLC, of the I-joist.
- c) End reaction capacity, ER, of the I-joist with and without bearing stiffeners (BS).

#### Notes:

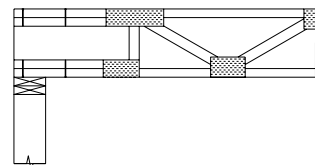
1. The tabulated values are design values for normal duration of loading. All values may be adjusted for other load durations as permitted by the code.
2. The maximum vertical linear load capacity for the I-joist without load or bearing stiffeners is 2,000 lbf/ft.



Elevation view of a simple span joist with inserts



Connection with truss plates (by others)



Connection with common nails (by others)