

Installation Instructions

for CAMO® Structural Fasteners Used in Beam and Wall Connections

1 Installation

- 1.1 Installation shall comply with the approved construction documents, the manufacturer installation instructions, Report Number 2404-04 and the applicable building code.
- 1.2 In the event of a conflict between the manufacturer installation instructions and this report, the more restrictive shall govern.
- 1.3 Fasteners shall be installed in accordance with the appropriate subsection of Section 6 in National Nail Report Number 2404-04.
- 1.4 *General Guidelines*
 - 1.4.1 Fasteners shall be installed with a 1/2" (12.7 mm), low rpm/high torque electric drill (450 rpm).
 - 1.4.2 Fasteners shall be installed with manufacturer-supplied bits.
 - 1.4.3 Fasteners shall be installed with the topside of the head flush to the surface of the wood member.
 - 1.4.4 Fasteners shall not be overdriven.
 - 1.4.5 Fasteners shall not be struck with a hammer during installation.
 - 1.4.6 Lead holes are not required but may be used where lumber is prone to splitting.
 - 1.4.6.1 Provisions for lead holes for lag screws in Section 12.1.4 of the NDS shall be followed.
 - 1.4.7 Installer shall use appropriate/required personal protection equipment during installation and must not place fasteners in mouth.
 - 1.4.8 Minimum requirements for fastener spacing, edge distance and end distance shall be in accordance with **Table 1**.

Table 1. Minimum Spacing, Edge Distance and End Distance Requirements

Connection Geometry	Minimum Spacing/Distance (in)
	5/16" Flat Head or Hex Head Screw
Edge Distance – Load in any direction	5/8
End Distance – Load parallel to grain, towards end	3 3/8
End Distance – Load parallel to grain, away from end	2 1/4
End Distance – Load perpendicular to grain	2 1/4
Spacing between Fasteners in a Row – Parallel to grain	3 3/8
Spacing between Fasteners in a Row – Perpendicular to grain	2 1/4
Spacing between Rows of Fasteners – In-line	1 1/8
Spacing between Rows of Fasteners – Staggered	5/8
SI: 1 in. = 25.4 mm 1. Edge distances, end distances and spacing of fasteners shall be sufficient to prevent splitting of the wood or as shown in this table, whichever is the more restrictive. 2. Values for "Spacing between Rows of Fasteners – Staggered" apply where the fasteners in adjacent rows are offset by one half of the "Spacing between Fasteners in a Row".	