



BUILDING DEPARTMENT

Village of Sag Harbor
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Memo

To: Applicants
From: Timothy R. Platt
CC:
Date: 10/4/2013
Re: Fasteners for use with pneumatic nailers

The Village of Sag Harbor is situated in a 120MPH 3-second wind gust region. The attachment of roof and wall sheathing must be designed pursuant to ASCE-7 or the WFCM.

Both of these standards reference a common nail for attachment. The NDS defines an 8d common nail as 2-1/2" long, 0.131" in diameter and having a head diameter of 0.281".

"8d" pneumatically actuated nails are available in a number of diameters, including 0.131", 0.120" and 0.099". Specifying "8d common" to the supplier is not sufficient to assure the correct nail is furnished to the jobsite. You must specify the diameter.

There being dozens of pneumatically actuated nailers, it is almost certain that some nailers will not accommodate the proper fasteners.

However, the following fasteners have been used successfully:

Coil Nailers:

Grip Rite GRC8PZDG ElectroGalvanized 2-1/2 in x .131 fits most coil nailers
Bostich C8P131D-4.5M Coated 2-1/2 x .131 fits N80CB, N86C, N89C, N100C, N100CPP, N75C
Senco KD25APBF Sencote 2-1/2 x .131 fits Senco
Hitachi 12237 ElectroGalvanized 2-1/2 x .131 fits NV83A, NV83A2, NV65AC
Hitachi 12711 Hot Dipped Galvanized 2-1/2 x .131 fits NV83A, NV83A2, NV65AC
Hitachi 12611 304 Stainless Steel 2-1/2 x .131 NV83A, NV83A2, NV65AC

Paslode IMCT:

405253 2-1/2" x .131 available in Bright finish only

Stick Nailers:

S8D131-FH Coated 2-1/2" x .131 fits N79WW, N80SB, N86S, N88WWB, N100S, F28WW

Alternatively, some contractors have had success using 10d x 0.131" diameter nails when the 8d were not immediately available.

Many contractors prefer to use ring shank nails. Furthermore, the FEMA High Wind Construction Guide recommends the use of ring shank nails. The Village does not have the authority to enforce Federal guidelines, but does agree with the best practices included in the Guide. As with other types of nails, ring shank nails have many diameters. You would not fasten a shear wall panel with the same 8d ring shank nail commonly used to attach cedar shingles and beveled siding. There is no prohibition on using ring shank nails, provided the root diameter of the nail is equivalent to a common nail. Finding this type of ring shank nail "on the shelf" is not common; finding a nailer that accepts this type of nail is even less common. The Hitachi 12612 is an example of a stainless steel ring shank coil nail with a 0.131" diameter.

In all cases, the nail heads should be flush with the surface of the plywood. Excessive countersinking reduces the capacity of the sheathing and may require the panel to be nailed again or the designer to calculate and confirm the reduced capacity exceeds the design criteria.