

PROFESSIONAL ENGINEERING SERVICES

3212 Mill Run, Raleigh NC 27612
North Carolina License 021195

CONSULTING.DESIGN
P (919) 749.5151

ottel@yahoo.com

October 01, 2025

Ref: Structural Evaluation of:
Number of King Studs

Address: 246 Cubillos Way,
Fuquay Varina, NC 27526

To: Icon Contractors Inc./Whom it may concern

On September 30, 2025, I visited the above listed property to check the king studs under the headers in different location. The provided structural plan asks for higher number of king studs than the one currently installed.

The subject report provides the design for king studs to comply with engineering design standards.

Use the following table to install the minimum number of king studs in relation to opening and wind speed:

TABLE R602.7.5



MINIMUM NUMBER OF FULL-HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS^a

MAXIMUM HEADER SPAN (feet)	ULTIMATE DESIGN WIND SPEED AND EXPOSURE CATEGORY	
	< 140 mph, Exposure B or < 130 mph, Exposure C	≤ 115 mph, Exposure B ^b
4	1	1
6	2	1
8	2	1
10	3	2
12	3	2
14	3	2
16	4	2
18	4	2

The table was revised in the code and approved recently.

PROFESSIONAL ENGINEERING SERVICES

3212 Mill Run, Raleigh NC 27612
North Carolina License 021195

CONSULTING.DESIGN
P (919) 749.5151

ottel@yahoo.com

For the above site visit for subject property, I found the current number of king studs installed on this property is adequate for all openings.

Should you have any questions or concerns regarding the information contained in this report, please contact me at: 919-749-5151.

Sincerely,

Kamal Essaid PE

