



A FULL-SERVICE CIVIL ENGINEERING FIRM

THE GATEWAY ENGINEERS, INC.

100 MCMORRIS ROAD

PITTSBURGH, PA 15205

November 23, 2020

C-39980-0001

Neuvokas Corporation  
3206 #6 Road  
Ahmeek, MI 49901

Re: GatorBar® in Residential Foundations subject to the Residential Code 2015 of New York State

Dear Mr. Kero:

It is my professional opinion, as a registered professional engineer in the State of New York, that #3 GatorBar® as manufactured by Neuvokas Corp. may be substituted for traditional #4 steel rebar in the conditions described below for a one- or two-family residential construction which is subject to the requirements of the Residential Code 2015 of New York State edition.

**Horizontal Steel Reinforcement in Foundation Walls** – The Residential Code 2015 of New York State Section Table 404.1.2(1) specifies the minimum required horizontal reinforcement in foundation walls (subject to compliance with Table R608.3). That steel reinforcing is specified to be #4 steel bars (at a certain spacing) and location and a minimum yield of 40,000 psi. The tensile capacity of the #3 GatorBar (Guaranteed Tensile Strength = 130 ksi) exceeds the tensile strength of the required minimum rebar (40 ksi) and therefore in my opinion would exceed the minimum required by the Residential Code 2015 of New York State.

**Longitudinal Steel Reinforcement in Foundation Wall Strip Footings** – The Residential Code 2015 of New York State Section R403.1.3 specifies the minimum required continuous reinforcement in cast concrete footings subject to Seismic Design Categories D0 D1 and D2 foundation walls. That steel reinforcing is specified to be one #4 steel bar. Section R403.1.3.1.5.1 specifies that reinforcing in cast concrete footings shall have a minimum yield of 40,000 psi. The tensile capacity of the #3 GatorBar exceeds the tensile strength of the required minimum rebar (as stated above) and therefore in my opinion would exceed the minimum required by the Residential Code 2015 of New York State.

A sketch illustrating the above discussed acceptable location (based on The Residential Code 2015 of New York State 403.1.3) is seen below.



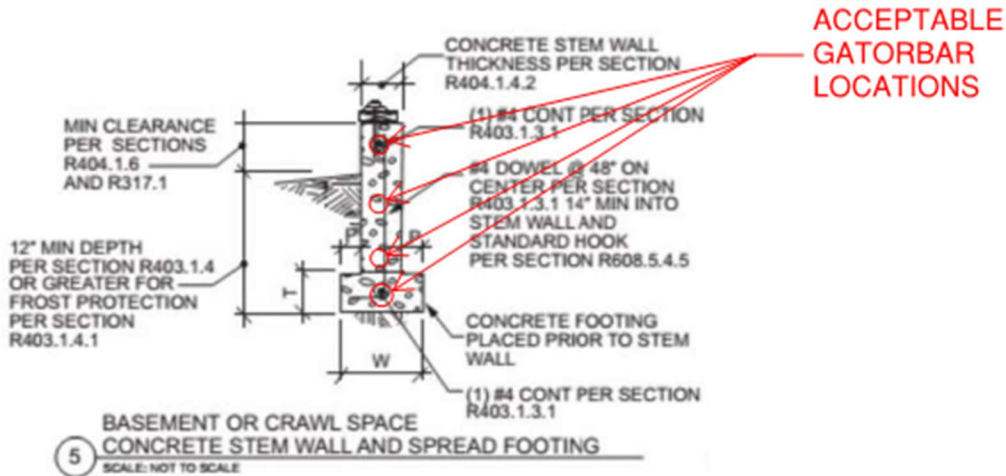
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The above is my professional opinion based on my understanding of the applicable sections of the Residential Code 2015 of New York State and based on my review of the GatorBar by Neuvokas Corp. material properties.

Please let us know if you have any questions or concerns.

Sincerely,  
THE GATEWAY ENGINEERS, INC.

Daniel P. Messmer, P.E., D. GE  
Engineer



SKETCH: ACCEPTABLE GATORBAR LOCATIONS