



**Nucor-Yamato Steel Co.**

*It's Our Nature.* 

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May 17, 2016

**RE: Surface Corrosion (Rust) on Structural Steel Shapes**

Nucor-Yamato Steel stores the structural steel shapes we produce both inside in one of our warehouses and outside in our yard. Structural steel shapes that are stored outside will begin to form surface corrosion (rust) selectively where the mill scale layer has been removed (see photographs on the next page). This selective corrosion typically occurs on the flanges and the web depending on several production factors. The beams in the photographs were produced on 10/17/07 and stored in one of our outside yards and the photographs were taken on 11/7/07. As the photographs show, there is already an appreciable amount of “orange” surface rust out near the flange toes, on the inside surface of the flanges, and on the web out near the fillet radius after less than one month of being stored in an outside environment.

ASTM A6/A6M, the general requirements specification for rolled structural steel bars, plates, shapes, and sheet piling, states in Section 9.1 Note 5:

*Unless otherwise specified, structural products are normally furnished in the as-rolled condition and are subjected to visual inspection by the manufacturer or processor. Non-injurious surface or internal imperfections, or both, may be present in the structural product as delivered and the structural product may require conditioning by the purchaser to improve its appearance or in preparation for welding, coating, or other further operations.*

We trust that this information will answer your questions regarding surface corrosion on Nucor Yamato Steel’s structural steel products. If we can be of any further assistance, please feel free to contact us.



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