



ABOUT THE TOOL

This tool is based on EN 1993-1-4:2006/A1:2015 Annex A “Eurocode 3 – Design of steel structures – Part 1-4: General rules – Supplementary rules for stainless steels” and is supplemented with Outokumpu experience of material supply to bridge projects. It is intended to provide general, simplified guidance as a first step in selecting a stainless steel grade for European bridge projects in the external environment. Any examples of bridges located outside of Europe are given for the reader’s general information only as the tool itself is applicable only to European environments. The tool should not be relied on to specify a material for a particular project; more detailed knowledge of local environmental conditions is needed before a material is finally selected and this may lead to alternative grade suggestions. The tool gives guidance to grade selection for load bearing structural components in bridge construction; in cases where the aesthetic appearance of the steel is an additional consideration further guidance should be sought. The tool is applicable to external atmospheric exposure of stainless steel, it is not applicable when the steel is in frequent contact with seawater, embedded in concrete (e.g. rebar) or embedded below ground level within earthworks. The reader is directed to EN 1993-1-4:2006/A1:2015 Annex A for further commentary. Outokumpu offers further guidance for specific projects, please contact us directly in this case.

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