

Width-Thickness Limits

When reviewing the width-thickness ratios of elements in a custom shape, I found the term “NA” under ζ_p in ANSI/AISC 360-05 Table B4.1. Does that signify that for this case, the shape having this element may be considered compact until the width-thickness ratio of that element reaches the limit defined by ζ_r ?

No. Some of the cases in Table B4.1 are for use when computing the axial strength, P_n , per Chapter E of the AISC *Specification*, while some are for computing the flexural strength, M_n , per Chapter F.

For compressive strength calculations, the AISC *Specification* Chapter E considers two situations for a W-shape column and other types of sections are similar: those with and those without slender elements. A section with non-slender elements can

steel interchange