

Numerical Evaluation on Warping Constants of General Cold-Formed Steel Open Sections

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Abstract

The calculation of warping constant C_w for an open thin-walled open section is a tedious and difficult task and this presenting an obstacle to routine design. Although C_w formulas and values for selective cold-formed steel sections are available in the AISI design manual, most practicing engineers have limited idea of evaluating the warping constants for sections not listed in the AISI design manual. This paper proposes a detailed step-by-step algorithm procedure for evaluating the warping constant of a general open thin-walled section. Comparison shows a virtually no difference between the calculated values and those listed in the AISI design manual. The proposed procedure is a reliable and useful tool for computing the warping constant for an arbitrary cold-formed steel open section, which does not need a sophisticated computer software.

Keywords: warping constant, torsional stress, thin-walled section, cold-formed steel, torsional property

1. Introduction

Open thin-walled sections subjected to torsion will result in pure torsional shear stress, warping shear stress and warping normal stress. Evaluation of these torsion induced stresses is not a routine job for practicing engineers as the value differently arises from the determination of sectional warping constant C_w . Computer formulas for C_w , usually involving multidimensional integrations are available from previous researchers (Gibson, 1972; Galambos, 1988; Kulkarni and Shuker, 1989; Isak, 1975; Wu, 1981). Computations of warping constants for open thin-walled sections can be greatly simplified by recognizing the linear variation of unit warping properties between the two consecutive intersection points of line elements. As a result, the sophisticated integral forms for C_w can be represented by numerical expressions suitable for computer coding as has been done in the past (Dobrovick, 1978; Yeo and Aww, 1980; Kato and Fukumoto, 1988; Tishina, 1990; Lee and Elhindi, 1992, 2000; Salazar and Johnson, 1999; Panagiotis and Hatzicola, 1997; Elhindi and Lee, 1998; Liu and Isak, 2003). Although the C_w values and formulas for nine selective practical sections are provided in the AISI design manual (2002), the formulas presented are rather complicated to most users. When the open section is irregular or not available in the AISI Manual, a guide for integrating C_w for such shapes is warranted. A simple and reliable approach for evaluating C_w values

would be very useful for practicing engineers when dealing with unusual profiles.

In this study, a step-by-step numerical procedure for C_w calculation is presented and discussed. A simple example problem was developed to illustrate the tedious calculation of C_w and a representative section was selected to illustrate the details of the proposed procedure. The accuracy of the proposed procedure was verified by comparing with the values tabulated in the AISI design manual. The comparative study shows that the differences between the integrated and tabulated C_w values are negligible. This implies that the proposed computational method to compute C_w for a cold-formed steel open section is accurate and reliable. This study will satisfy those who are looking for a better estimation on torsional mechanism of cold-formed steel open sections.

2. Integration Forms for Warping Constants of Open Thin-walled Sections

Integration forms for warping constants C_w of open thin-walled sections are summarized as follows, based on Galambos (1988) and Isak (1975). To calculate the C_w value, the centroid (C) and shear center (SC) of a section must be located first. By basic mechanics, the centroid (C) coordinates of a section is given by Eq. (1).

$$X_c = \frac{1}{A} \int_0^s x dA \quad Y_c = \frac{1}{A} \int_0^s y dA \quad (1)$$

where x and y are the coordinates of infinitesimal area dA along the section and A is the total area of open thin-walled section. The origin of the coordinate system is

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