

# AD 552:

## Errata in P362 - Steel building design; concise Eurocodes

Expressions 6.61 and 6.62 of BS EN 1993-1-1 are used when verifying a member subject to combined biaxial bending moments and axial force. SCI publication P362 provides a table to determine the  $k$  interaction factors used in expressions 6.61 and 6.62 that are based on the section type and cross-section classification using Annex B. Unfortunately, there are some typographical mistakes in the table. The corrected table is given here:

**Table D.1: Interaction factors for combined axial compression and bending**

Interaction factors	Criteria	Section type	Section class		C factor
			1 and 2	3	
$k_{yy}$	-	All	Figure D.1	Figure D.2	$C_{my}$
$k_{yz}$	-	All	$0.6 k_{zz}$	$k_{zz}$	-
$k_{zz}$	Member not susceptible to torsional deformation	RHS sections	Figure D.6	Figure D.7	$C_{mz}$
	Member susceptible to torsional deformation	I sections	Figure D.5	Figure D.7	$C_{mz}$
$k_{zy}$	Member not susceptible to torsional deformation	All	$0.6 k_{yy}$	$0.8 k_{yy}$	-
	Member susceptible to torsional deformation	All	Figure D.3	Figure D.4	$C_{mLT}$

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[1] C factors may be obtained from Table D.2  
 [2] In Figure D.3 and Figure D.4,  $k_{zy}$  is based on the conservative assumption that  $C_{mLT} = 1.0$ .

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