

**CI-T
4**
(Mar.
2008)**Optional shear check for primary support members with curved brackets or shallow brackets****Rule Section**

4/2.1.5 Effective shear span of primary support members
4/2.5 Geometrical Properties of Primary Support Members

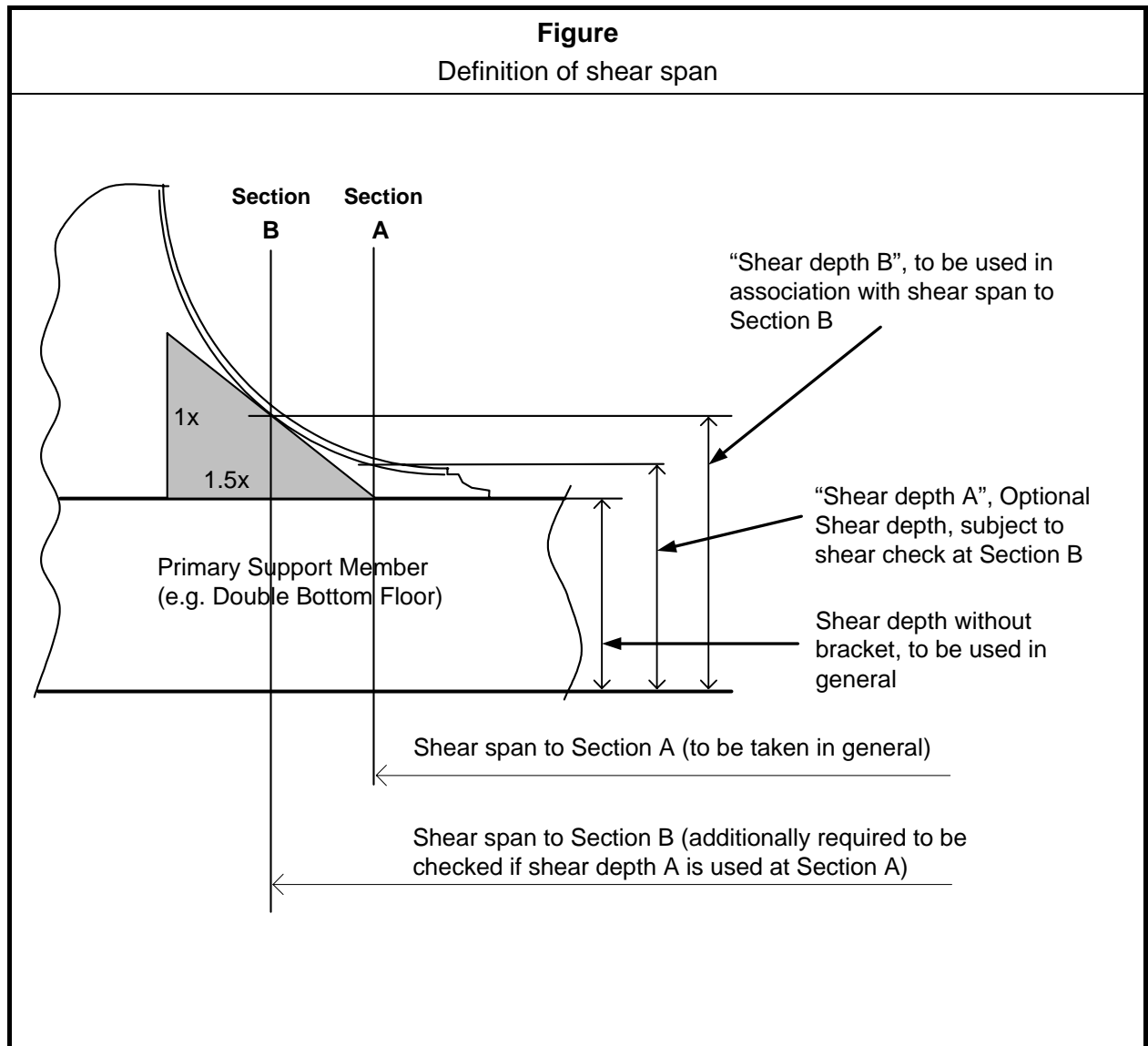
Description

Procedure for the optional shear check for primary support members with curved brackets or shallow brackets.

Common Procedure**1. General**

1. In general, shear check is to be carried out at the end of shear span, Section A, with offered shear depth excluding the bracket part in accordance with 4/2.1.5 and Figure 4.2.8.
2. If the shear requirement is satisfied at this section, then no further shear check is necessary. If a curved bracket or a shallow bracket is fitted as shown in the above figure, and the offered shear requirement is NOT satisfied, then the procedure as per item 3 may be applied.
3. The shear requirement is considered to be satisfied if the shear requirement is satisfied by following two additional shear checks concurrently:
 - (a) Check the shear requirement at Section A with the shear span measured to Section A and the offered shear depth including the bracket part web "shear depth A".
 - (b) Check the shear requirement at Section B with the shear span measured to Section B and the offered shear depth including the bracket part "shear depth B". At this section, the effective shear area may be calculated in accordance with 4/2.5.1.4 with the following formula considering the sloping face plate:

$$A_{w-net50} = 0.01 h_n t_{w-net50} + 1.3 A_{f-net50} \sin 2\theta \sin\theta$$

**Implementation date**

This CI is effective from 1 April 2008.