



Agenda Item 650-596

Date April 19, 2005

Title: Maximum Cross-Sectional Area of Top Angle

Handled By: John Lieb

Tank Industry Consultants

684 W. Boughton Road, #101

Telephone: (630) 226-0745

Fax: (630) 226-0802

Email: lieb@tankindustry.com

Purpose: Review the meaning of and need for the terminology “maximum cross sectional area of top angle”. In 3.10.5.2 & 3.10.6.2, “maximum cross-sectional area of the top angle” should be “participating area at the roof-to-shell junction”.

Impact: Will correct incorrect wording.

Rationale: The current wording is incorrect. The provisions should require an increase in the total participating area, not just in the top angle. Some of the details permitted by the standard do not incorporate top angles. The current wording could not be applied when using these details.

Existing Text

3.10.5.2 (SI Units)

Note: When the sum of the live and dead loads exceeds 2.2 kPa, the maximum cross-sectional area of the top angle shall be increased by the following ratio:

3.10.5.2 (US Customary Units)

Note: When the sum of the live and dead loads exceeds 45 lbf/ft², the maximum cross-sectional area of the top angle shall be increased by the following ratio:

3.10.6.2 (SI Units)

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3.10.6.2 (US Customary Units)

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Proposed Changes

3.10.5.2 (SI Units)

Note: When the sum of the live and dead loads exceeds 2.2 kPa, the ***area provided at the roof to shell junction*** shall be increased by the following ratio:

3.10.5.2 (US Customary Units)

Note: When the sum of the live and dead loads exceeds 45 lbf/ft², the ***area provided at the roof to shell junction*** shall be increased by the following ratio:

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Note: Proposed changes to existing wording are shown in ***bold italic*** font.