

STANDARDS AUSTRALIA

Amendment No. 1
to
AS 3600:2018
Concrete structures

CORRECTION

The 2018 edition of AS 3600 is amended as follows; the amendments should be inserted in the appropriate places.

SUMMARY: This Amendment applies to Clauses 3.1.7.2, 4.10.3.7, 5.6.3, 5.6.4, 8.1.3, 8.1.5, 8.2.3.4, 8.2.4.2.1, 8.2.7, 8.2.8.3, 9.4.4.1, 14.5.2.2, 14.6.7, 17.4.1, 17.4.2, 18.3, 18.4, 19.3.1, 20.4.3 and 21.3.2, and Tables 2.4 and 5.7.2.

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Table 2.4

Item 2, first column, *delete* and *replace* with the following:

Concrete ($\phi_{c,fat}$)

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Clause 3.1.7.2

1 Equation 3.1.7.2(5), *delete* and *replace* with the following:

$$\varepsilon_{csd,b} = (0.9 - 0.005f'_c) \times \varepsilon_{csd,b}^*$$

2 Paragraph 7, *delete* and *replace* with the following:

where $\varepsilon_{csd,b}^* = 800 \times 10^{-6}$ or determined by testing.

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Clause 4.10.3.7

Paragraph 1, line 1, *delete* 'Clause 14.2' and *replace* with 'Clause 19.2'.

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Clause 5.6.3

1 Item (c), *delete* ' $A_s \geq 0.02A_c$ ' and *replace* with ' $A_s \geq 0.02A_g$ '.

2 Equation 5.6.3(2), definition of expression b' , *delete* and *replace* with the following:

= $2A_g / (y + x)$ for rectangular cross-sections

= the diameter of circular cross-sections within the limits

$200 \text{ mm} \leq b' \leq 450 \text{ mm}$ and $y \leq 1.5x$

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Clause 5.6.4

Item (e), *delete* 'FRP > 90 mm' and *replace* with 'FRP > 90 min'.

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Table 5.7.2

- 1 Item 2, second column, *delete* and *replace* with the following:

$$\frac{N_f^*}{\phi N_u} = 0.35$$

- 2 Item 2, third column, *delete* and *replace* with the following:

$$\frac{N_f^*}{\phi N_u} = 0.7$$

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Clause 8.1.3

Item (b), *delete* ‘ $a_2 f'_c$ ’ and *replace* with ‘ $\alpha_2 f'_c$ ’.

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Clause 8.1.5

Second paragraph, *delete* ‘ $M^* > 0.08 \phi M_{uo}$ ’ and *replace* with ‘ $M^* > 0.8 \phi M_{uo}$ ’.

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Clause 8.2.3.4

- 1 Equation 8.2.3.4(1), *delete* and *replace* with the following:

$$\frac{V^*}{b_v d_v} + \frac{T^* u_h}{1.7 A_{oh}^2} \leq \frac{\phi V_{u,max}}{b_v d_v}$$

- 2 Equation 8.2.3.4(2), *delete* and *replace* with the following:

$$\frac{V^*}{b_v d_v} + \frac{T^*}{1.7 t_w A_{oh}} \leq \frac{\phi V_{u,max}}{b_v d_v}$$

- 3 Equation 8.2.3.4(3), *delete* and *replace* with the following:

$$\sqrt{\left[\frac{V^*}{b_v d_v} \right]^2 + \left[\frac{T^* u_h}{1.7 A_{oh}^2} \right]^2} \leq \frac{\phi V_{u,max}}{b_v d_v}$$

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Clause 8.2.4.2.1

Item (b), *delete* ‘ $A_{sv} / s > A_{sv,min} / s$ ’ and *replace* with ‘ $A_{sv} / s \geq A_{sv,min} / s$ ’.

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Clause 8.2.7

Equation 8.2.7.1(2), *delete* and *replace* with the following:

$$\Delta F_{td} = \cot \theta_v \left(\left| V_{eq}^* \right| - 0.5 \phi V_{us} - \gamma_p P_v \right)$$

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Clause 8.2.8.3

Equation 8.2.8.3(1), *delete* and *replace* with:

$$T_{cd} = \left(-\frac{M^*}{z} + \frac{N^*}{2} + \Delta F_{td} \right)$$