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NOTIFICATION NO. 60 Dated 28 November 2009

Subject: Amendments to Material Properties of Steel and Concrete as mentioned in IRC:6-2000, IRC:18-2000, IRC:21-2000, IRC:22-2008 and IRC:24-2001

Amendments to the values of coefficient of Thermal Expansion (α), Modulus of Elasticity (E) and Modulus of Rigidity (G) as mentioned in IRC:6-2000, IRC:18-2000, IRC:21-2000, IRC:22-2008 and IRC:24-2001 are hereby notified.

It has been decided to issue the amendments to values of these constants, so that they are in conformity with respective BIS Codes.

Sl. No.	Constants	Values
1	Value of Coefficient of Thermal Expansion (α) for Steel	12×10^{-6}/ °C – For Steel (As per IS:800-2007)
2	Value of Coefficient of Thermal Expansion (α) for Concrete	1.2 to 1.3 x 10^{-5}/°C – For concrete with Quartzite aggregate 0.9 to 1.2 x 10^{-5}/°C – For concrete with Sandstone aggregate 0.7 to 0.95 x 10^{-5}/°C – For concrete with Granite aggregate 0.8 to 0.95 x 10^{-5}/°C – For concrete with Basalt aggregate 0.6 to 0.9 x 10^{-5}/°C – For concrete with Limestone aggregate (As per IS:456-2000)
3	Value of Modulus of Elasticity (E)	2.0×10^5 MPa - For Structural Steel (As per IS:800-2007)
4	Value of Modulus of Rigidity(G)	0.769×10^5 MPa – For Structural Steel (As per IS:800-2007)

R.P. Indoria

(R.P. Indoria)
Secretary General