

Litecast Limited
 Unit 6, Pool Road Business
 Centre
 Pool Road
 Nuneaton
 Warwickshire
 CV10 9AQ

Tel: 024 7635 6161
 Fax: 024 7635 6363
 Email: sales@litecast.co.uk
 Web: www.litecast.co.uk



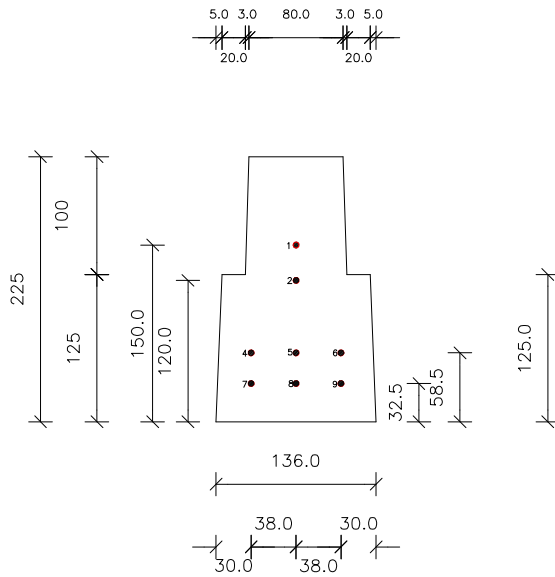
Structural Properties of Litecast 225mm Deep Beam

Steel

Characteristic Strength, f_{pk} 1770 N/mm²
 Young's Modulus, E_s 200 kN/mm²
 Tendon Diameter 5 mm

Concrete

Compressive Strength at transfer, $f_{ci}(t)$ 40 N/mm²
 Compressive Strength-cylinder, $f_{ck}(28)$ 55 N/mm²
 Compressive Strength-cube, $f_{cu}(28)$ 65 N/mm²
 Compressive Strength at transfer, $f_c(t)$ 37 N/mm²
 Youngs Modulus at transfer, $E_c(t)$ 29 kN/mm²
 Youngs Modulus at 28 days, $E_c(28)$ 36 kN/mm²



	Area	yb	b	Depth	Inertia	Zt	Zb
	mm ²	mm	mm	mm	mm ⁴	mm ³	mm ³
Constants	24675	99.916	80	225	99241602	7933997	99325

Product	Servicability Limit State		Ultimate Limit State		Wire Positions
	XC1	XC2-XC3	Bending	Shear	
	+ve kNm	+ve kNm	M _{Rult} kNm	kN	
T8	11.553	16.798	25.998	34.145	1-8