

## SPEEDFLOOR WITH 75mm CONCRETE SLAB

**TABLE 1: SECTION PROPERTIES**

Joist series(mm)	Non-composite			Composite			
	Ist (x10 <sup>6</sup> mm <sup>4</sup> )	Zt (x10 <sup>3</sup> mm <sup>3</sup> )	Zb (x10 <sup>3</sup> mm <sup>3</sup> )	Icomp (x10 <sup>6</sup> mm <sup>4</sup> )	Zt (x10 <sup>3</sup> mm <sup>3</sup> )	Zb (x10 <sup>3</sup> mm <sup>3</sup> )	I effective for deflection (x10 <sup>6</sup> mm <sup>4</sup> )
200	8.14	65.00	72.00	29.38	594.70	130.20	26.00
250	14.00	92.90	101.90	38.30	776.80	138.90	34.70
300	20.40	108.00	136.00	60.80	1117.60	189.60	54.50
350	28.70	129.00	173.00	87.90	1465.00	240.80	79.00
400	38.10	160.60	189.70	95.20	1649.90	228.00	86.60

**TABLE 2: SECTION CAPACITIES**

Joist series (mm)	Non-composite		Composite			
	Shear capacity with holes ØVv (kN)	Shear capacity without holes ØVv (kN)	ØMsx (kN.m)	Shear capacity with holes ØVrc (kN)	Shear capacity without holes ØVrc (kN)	ØMrc (kN.m)
200	/	71.00	20.50	/	73.00	44.80
250	30.20	100.00	29.30	32.20	102.20	41.40
300	42.00	85.00	34.00	44.00	87.00	61.00
350	60.00	72.00	40.60	62.00	74.00	83.00
400	30.20	62.00	50.50	32.20	64.40	72.30

