YOUNG + SATHARIA
consulting structural and civil engineers

SUITE 3, 78 JULIA ROAD
DURBAN 4001
PO BOX 37070, OVERPORT 4067
KWAZULU-NATAL SOUTH AFRICA
E-MAIL: consult@yands.co.za
TEL +27 31 207 7252
FAX +27 31 207 7259
WEBSITE: www.yands.co.za

160mm x 600mm Hollowcore Slab with 50mm screed - 15 No. x 5mm diameter wires						
DESCRIPTION	**UNIT**		***RECOMMENDED for 110mm brick partitions**			***NOT RECOMMENDED for brick partitions. Use lightweight partitions only**
Maximum Clear Span	m		5.900	6.550	6.600	6.900
50mm screed	kN/m^2	a	1.00	1.00	1.00	1.00
12.5mm tile	kN/m^2	b	0.25	0.25	0.25	0.25
160mm slab Selfweight	kN/m^2	c	2.70	2.70	2.70	2.70
Total Dead Load (DL)	kN/m^2	d = a+b+c	3.95	3.95	3.95	3.95
Partition Load	kN/m^2	e	**4.25**	**2.50**	**2.35**	**1.50**
Live Load	kN/m^2	f	1.50	1.50	1.50	1.50
Total Live Load (LL)	kN/m^2	g = e + f	5.75	4.00	3.85	3.00
1.0 DL + 1.0 LL	kN/m^2	h = d + g	9.70	7.95	7.80	6.95
1.2 DL + 1.6 LL	kN/m^2		13.94	11.14	10.90	9.54
Design span	m		6.000	6.650	6.700	7.000
Minimum Bearing each side:						
on Brickwork	m		0.100	0.100	0.100	0.100
on Structural Steel	m		0.075	0.075	0.075	0.075
Tensile stress at maximum allowable (Class 2)			Yes	Yes	Yes	Yes
Long Term Deflection (Span/250)		mm	24.00	26.60	26.80	28.00
Young + Satharia 78 Julia Road, Overport, Durban. t: 031 2077252 f: 031 2077259: Ref 2588/GAG/01 Rev 1						

*When using the above table, the Design Engineers need to take into account that large rooms can be sub-divided by the use of partitions, and it is their responsibility to select the partition loading accordingly.