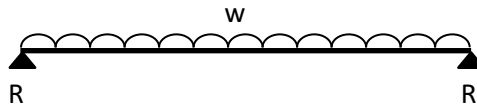


**FLOOR JOIST (WET AREAS)**

L = 4.4 m


**Design Loads**

			DL (kN/m)		LL (kN/m)
Beam S/Weight			0.04		
Wall (Hebel Vnr)	0.00 m	1.00 kPa	0.00		
Roof (Sheet)	0.00 m	0.40 kPa	0.00	0.25 kPa	0.00
Domestic Floor	0.45 m	1.00 kPa	0.45	1.50 kPa	0.68

**Design Load Combinations**

	$\frac{W}{L}$	$\frac{R}{L}$
[S] DL	0.49	1.08
[S] LL	0.68	1.49
[U] 1.2DL+1.5LL	1.60	3.52

 TRY: TSF3575 Le = 0.60 m

**Check Bending**

$M^*_{mid} =$	3.87 kNm	$M_{oa} =$	33.74
$\phi M_{sx} =$	9.70 kNm :: OK	$\alpha_s =$	0.87
$\phi M_{bx} =$	8.39 kNm :: OK	$\alpha_m =$	1.00

**Check Deflection**

$I_x =$	$3.71 \times 10^6 \text{ mm}^4$	
$\Delta_{DL} =$	3.22 mm	(L / 1367)
$\Delta_{DL+LL} =$	7.65 mm	(L / 575)

**Adopt:** TSF3575