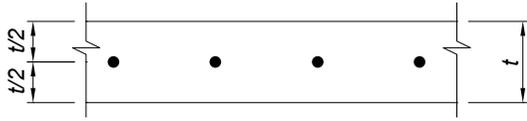


Design Aid 3.13.4. Partial Interaction Curves for Precast, Prestressed Solid and Insulated Wall Panels



Curves based on minimum average compressive stress in concrete due to an effective prestress no less than 225 psi.

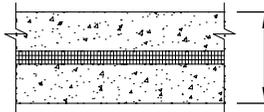
$f'_c = 5000$ psi, normalweight
 $f_{pu} = 270,000$ psi
 Width and configuration may vary

t, in.	Full interaction curve data						
	ϕP_o	Partially developed strand force			Fully developed strand force		
		ϕP_{nb}	ϕM_{nb}	ϕM_c	ϕP_{nb}	ϕM_{nb}	ϕM_c
4	129	46	5.3	0.9	22	4	2.2
6	194	69	11.9	2.0	33	9	5.0
8	259	92	21.2	3.6	45	16	9.0
10	323	115	33	5.6	56	25	14.0

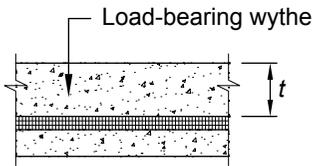
Units for ϕP are kip, units for ϕM are kip-ft.

Values are for 1 ft width.

See Chapter 5 for definitions of partially developed and fully developed strand.

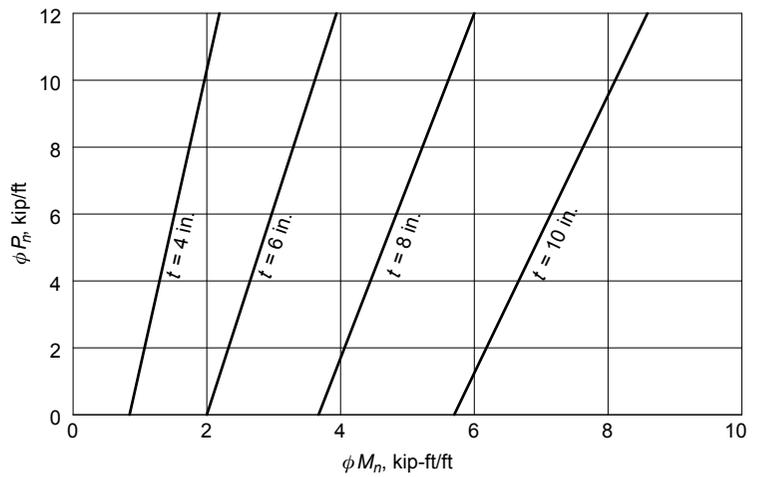


Full composite sandwich panel



Partially composite or noncomposite

Partially developed strand



Fully developed strand

