



Preliminary Floor Panel Thickness Selection Table

Maximum Permissible Span (feet) for Allowable Superimposed Uniform Loads					
Superimposed Loads		Panel Thickness (inches)			
		6	8	10	12
Dead Load (psf)	Live Load (psf)				
10	20	13.00'	16.25'	19.25'	19.67'
	30	12.00'	15.00'	18.00'	19.67'
	40	11.25'	14.50'	17.00'	19.50'
	50	10.75'	13.75'	16.25'	18.75'
	60	10.25'	13.25'	15.75'	18.00'
	80	9.25'	12.25'	14.50'	16.50'
	100	8.25'	11.25'	13.75'	15.25'
15	20	12.50'	15.75'	18.50'	19.67'
	30	11.75'	14.75'	17.50'	19.67'
	40	11.00'	14.00'	16.75'	19.00'
	50	10.50'	13.50'	16.00'	18.25'
	60	10.00'	13.00'	15.50'	17.50'
	80	9.25'	12.00'	14.50'	16.25'
	100	8.00'	11.00'	13.50'	15.00'
20	20	12.00'	15.25'	18.00'	19.67'
	30	11.25'	14.50'	17.00'	19.50'
	40	10.75'	13.75'	16.25'	18.75'
	50	10.25'	13.25'	15.75'	18.00'
	60	9.75'	12.75'	15.25'	17.50'
	80	9.25'	11.75'	14.25'	16.00'
	100	7.75'	10.75'	13.25'	14.75'

Notes:

1. All panels meet or exceed 1/360 live load and 1/240 total load vertical deflections at the allowable loads indicated.
2. The permissible spans listed are to centerlines of support, based on 3" bearing. Maximum overall length of panels is 19'-8".
3. Tabulated spans are for uniform loads on simply supported panels only. Contact your Xella representative for non-uniform loading conditions.
4. Since all panels are detailed for a specific project, maximum span lengths may vary from tabulated values. Linear interpolation is **not** allowed between tabulated values.
5. Tabulated panel thicknesses are nominal imperial dimensions. Actual thicknesses are 150mm, 200mm, 250mm, and 300mm.
6. This table is intended to provide information for determining preliminary panel thicknesses and does not replace the judgment of a qualified design professional.
7. Information subject to change without notice. Refer to Xella Aircrete North America Inc. website below for most current information.



Preliminary Roof Panel Thickness Selection Table

Maximum Permissible Span (feet) for Allowable Superimposed Uniform Loads					
Superimposed Loads		Panel Thickness (inches)			
		6	8	10	12
Dead Load (psf)	Live Load (psf)				
10	20	13.75'	17.25'	19.67'	19.67'
	30	12.75'	16.00'	19.00'	19.67'
	40	12.00'	15.25'	18.00'	19.67'
	50	11.50'	14.50'	17.25'	19.00'
	60	11.00'	14.00'	16.50'	18.00'
	80	10.00'	13.00'	15.00'	16.50'
	100	8.25'	11.25'	14.00'	15.25'
15	20	13.25'	16.50'	19.50'	19.67'
	30	12.25'	15.75'	18.50'	19.67'
	40	11.75'	15.00'	17.50'	19.67'
	50	11.25'	14.25'	17.00'	18.75'
	60	10.75'	13.75'	16.25'	17.75'
	80	9.50'	12.75'	14.75'	16.25'
	100	8.00'	11.00'	13.50'	15.00'
20	20	12.75'	16.00'	19.00'	19.67'
	30	12.00'	15.25'	18.00'	19.67'
	40	11.50'	14.50'	17.25'	19.25'
	50	11.00'	14.00'	16.50'	18.25'
	60	10.50'	13.50'	16.00'	17.50'
	80	9.25'	12.50'	14.50'	16.00'
	100	7.75'	10.75'	13.25'	14.75'

Notes:

1. All panels meet or exceed 1/240 live load and 1/180 total load vertical deflections at the allowable loads indicated.
2. The permissible spans listed are to centerlines of support, based on 3" bearing. Maximum overall length of panels is 19'-8".
3. Tabulated spans are for uniform loads on simply supported panels only. Contact your Xella representative for non-uniform loading conditions.
4. Since all panels are detailed for a specific project, maximum span lengths may vary from tabulated values. Linear interpolation is **not** allowed between tabulated values.
5. Tabulated panel thicknesses are nominal imperial dimensions. Actual thicknesses are 150mm, 200mm, 250mm, and 300mm.
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