



ARCHITECTURAL CONCRETE FORMLINERS

FORM PRESSURE GUIDE

Sika thermoformed plastic formliners are able to accommodate form pressures up to a maximum 1,000 lb/ft² in all three of the rigid, plastic grades manufactured.

The maximum recommended rate of placement of Sika formliners is shown in the following table.

RATE OF PLACEMENT R (ft/hr)	90 ° F	80 ° F	70 ° F	60 ° F	50 ° F	40 ° F
1	250	262	278	300	330	375
2	350	375	407	450	510	600
3	450	487	535	600	690	825
4	550	600	664	750	870	1050
5	650	712	792	900	1050	1275
6	750	825	921	1050	1230	1500
7	850	937	1050	1200	1410	1725
8	881	972	1090	1246	1466	1795
9	912	1007	1130	1293	1522	1865
10	943	1042	1170	1340	1578	1935

Based on ACI 347 - Guide to Formwork for Concrete, pressure formulas for concrete placement at 10 ft/hr or less. The table shown is based on the following assumptions:

ACI 347R Section 2.2.2.1 For concrete made with Type I cement, weighing 150 lb/ft³, containing no pozzolans or admixtures, having a slump of 4 inches or less, and normal internal vibration to a depth of 4 feet or less, formwork may be designed for lateral pressures as follows, where R = rate of placement, ft/hr; and T = temperature of concrete in the form (°F). For walls with a rate of placement less than 7 ft/hr (Eq. 2-2a: $p = 150 + 9000 R / T$) and for walls with a rate of placement of 7 to 10 ft/hr (Eq. 2-3: $p = 150 + 43,400/T + 2800 R / T$), both with a maximum of 2,000 lb/ft², a minimum of 600 lb/ft², but in no case greater than 150h.

The table also assumes that the temperature of the concrete at the time of placement is roughly equal to the ambient air temperature. These values will be skewed slightly if placing concrete at very cold or very hot temperatures.

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