

SureBuilt

Concrete Forms & Accessories

www.surebuilt-usa.com

Line Card - *click any item for website link*

Bar Support *

- Slab Bolster
- Slab Bolster Upper
- Individual High Chair
- Continuous High Chair
- Continuous High Chair Upper
- Beam Bolster

Bridge Deck Forming

- Bridge Overhang Bracket *
- Exterior Hangers *
- Exterior Half Hangers *
- Interior Hangers *
- Interior Half Hanger *
- Adjustable Joist Hanger

Coil Rod *

- 1/2" Coil Rod
- 3/4" Coil Rod
- 1" Coil Rod
- 15mm Coil Rod
- 20mm Coil Rod

Coil Ties *

- 1/2" Coil Ties
- 3/4" Coil Ties
- 1" Coil Ties
- 1-1/4" Coil Ties

Concrete Hoppers

- Hoppers
- Elephant Trunk
- Tremie Pipe
- Steel Collar

Floor Systems *

- Dowel Basket
- Taper Dowel
- Steel Edge Nosing
- VaporStop™ Moisture Barrier

Form Liners *

Form Ties *

- HD Loop Ties
- HD Gang Loop Ties
- X-Flat Ties
- Base Ties
- Aluminum Form Ties
- Residential Form Ties

Heavy Forming *

- Taper Ties
- She-Bolts
- Inner Units
- Euro Taper Ties
- Euro She-Bolts

GFRP Reinforcement Bar #2 - #11 *

Metal Rib *

- Expanded Metal Mesh

Modular Braces *

- Type 6-5/8"
- Type 8-5/8"

Pipe Braces *

Plywood Forming *

- Coil Ties
- Pencil Rod and Clamps
- Self-Centering Ties
- Snap Ties

Precast

- Anchor Rail HD
- Coil Inserts *
- Column Base Connector *
- Edge Connector *
- Ferrule Inserts *
- Ring and Cable Lifter
- Slant Anchor *
- Straight Leg Anchor *
- Wall Base Connector
- Wire Truss / FRP Truss *

Rebar Safety Caps

Rebar Splicing

- Groutec
- Unitec

Self-Riser System *

Shoring *

- Cross Braces
- Frames
- Post Shores
- Screw Jacks

Snap Ties *

SPAN-X Beams *

Staybox Rebar Splicing *

Steel Stakes *

- 3/4" Stakes
- 7/8" Stakes

Stud Rail DSA Reinforcement *

SurePly™ Forming *

- Panels and Fillers
- Hardware
- HD Loop Ties
- X-Flat Ties
- Birch Plywood

Tilt-Up

- Brace Inserts *
- Helical Ground Anchor *
- Lifting Hardware
- Panel Base Connector *
- ProLift Inserts *
- Slant Anchor *
- SureLift (SL) Inserts *
- Edge Form Brackets

Walers *

- Butt Plate
- Double Channel

* Products are Made in the USA or available to be made in the USA

Rev 08-24

CONCRETE POUR PRESSURE CHART (For Walls Only) *

RATE (R) PER HOUR	CONCRETE TEMPERATURE (°F) & WALL HEIGHTS					
	55°	60°	65°	70°	75°	80°
	Over 14'-0"	14'-0" and Less	Over 14'-0"	14'-0" and Less	Over 14'-0"	14'-0" and Less
1'-0"	600	600	600	600	600	600
2'-0"	668	630	600	600	600	1068
3'-0"	897	840	792	750	714	1117
4'-0"	1126	1050	985	930	882	840
5'-0"	1355	1260	1179	1110	1050	1215
6'-0"	1585	1470	1373	1290	1238	1155
7'-0"	1814	1680	1587	1470	1388	1313

* Black Values are for Wall Heights 14'-0" and Less. Green Values are for Wall Heights Over 14'-0".
 * Concrete Pour Pressure Values shown are listed as pounds per square foot (psf).
 * Concrete Temperature Values (T) shown are listed as Fahrenheit degrees.
 * The chart above does not include all variables or represent all possible Concrete Pour Pressure results.
 * Use the Concrete Pour Pressure Equations below for precise calculations of Concrete Pour Pressures.

* All information shown is based on American Concrete Institute (ACI) 347 R-14, dated July 2014.

* The chart above shows Concrete Pour Pressure results based on a specific set of variables, as follows:
 * Allows for Concrete Mix Designs that include Slag, Fly Ash and Retarders - (Cc = 1.4)
 * Allows for a Maximum Slump of 7"
 * Allows for a Maximum Vibration Depth of 4'-0"
 * Unit Weight Coefficient - (Cw = 1.0)

CONCRETE POUR PRESSURE EQUATIONS *

SLUMP (in) *	INTERNAL DEPTH OF VIBRATION (ft)	ELEMENT TYPE	RATE (R)	CONCRETE POUR PRESSURE EQUATIONS (psf)	UNIT WEIGHT COEFFICIENT - (Cw)	CHEMISTRY COEFFICIENT - (Cc)
> 7 in	Any	Any	Any	$R = w \cdot h$	Concrete weighing less than 140 lbs / cu ft	Types I, II and III Cement without slag, fly ash or retarders *
<= 7 in	> 4 feet	Any	Any	$R = Cw \cdot Cc \cdot (150 + (9000 \cdot R / T))$	Concrete weighing 140 to 150 lbs / cu ft	Types I, II and III Cement without slag or fly ash, but with retarder *
		Column **	Any	$R = Cw \cdot Cc \cdot (150 + (9000 \cdot R / T))$	Concrete weighing more than 150 lbs / cu ft	Any cement types without retarders containing less than 70% slag and less than 40% fly ash
		Wall (Ht <= 14')	< 7 ft / hr	$R = Cw \cdot Cc \cdot (150 + (9000 \cdot R / T))$		Any cement types with retarders containing less than 70% slag and less than 40% fly ash
		Wall (Ht > 14')	< 7 ft / hr	$R = Cw \cdot Cc \cdot (150 + (43400 / T) + (2800 \cdot R / T))$		Any cement types without retarders containing 70% or more slag or 40% or more fly ash
		Wall ***	7 ft/hr - 15 ft/hr	$R = Cw \cdot Cc \cdot (150 + (43400 / T) + (2800 \cdot R / T))$		Any cement types with retarders containing 70% or more slag or 40% or more fly ash
		Wall	>= 15 ft / hr	$R = w \cdot h$		Retarders include any admixtures such as retarders, retarding water reducers, or retarding midrange or high-range water-reducing admixtures that delay the setting of concrete.

NOTES

- h = Depth of fluid concrete (feet)
- R = Rate of concrete placement (feet per hour)
- T = Temperature of concrete at time of placement (degrees Fahrenheit)
- w = Unit weight of concrete (pounds per cubic foot)
- Slump to be measured after the addition of all admixtures
- Column defined as vertical element with no plan dimension > 6.5 ft
- Wall defined as vertical element with at least one plan dimension > 6.5 ft

* All information shown is based on American Concrete Institute (ACI) 347 R-14, dated July 2014

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SUREBUILT Forming System* shown below. Utilizing HD Loop Ties.
 *Allowable 1,000 PSF-Load Rated

