

STALITE Suggested Mix Designs*

Material to Produce One Cubic Yard

Standard Mixes

Specified Compressive Strength	3000 psi	4000 psi	5000 psi
Cement (lbs)	564	658	752
Stalite 3/4" LWA (lbs – SSD)	875	875	875
Sand (lbs – SSD)	1446	1357	1268
Water (lbs)	296	300	304

The mix water content assumes the use of a normal water-reducing admixture to produce a 4" to 6" slump range.

Design Air Content (%)	5%	5%	5%
w/cm	.52	.46	.40
Calculated Equilibrium Density (pcf)	111.8	112.7	113.6
Calculated Fresh Density (pcf)	117.8	118.2	118.5

High Strength Mixes

Specified Compressive Strength	6000 psi	8000 psi	10000 psi
Cement (lbs)	705	799	893
Fly Ash (Class F) (lbs)	75	0	0
Silica Fume (lbs)	0	56	63
STALITE 1/2" LWA (lbs – SSD)	925	900	1000

STALITE weights changed to achieve specific concrete densities.

Sand (lbs – SSD)	1209	1220	1120
Water (lbs)	280	270	260

The mix water content assumes the use of a high-range water-reducing admixture to produce the desired slump.

Design Air Content (%)	5%	5%	2%
w/cm	.36	.32	.27
Calculated Equilibrium Density (pcf)	114.4	117.3	121.6
Calculated Fresh Density (pcf)	118.3	120.2	123.6

Bridge Deck Mixes

Specified Compressive Strength	4500 psi	4500 psi
Cement (lbs)	715	572
Fly Ash (Class F) (lbs)	0	172
Stalite 3/4" LWA (lbs – SSD)	900	900
Sand (lbs – SSD)	1235	1158
Water (lbs)	295	295

The mix water content assumes the use of a normal water-reducing admixture to produce a 2" to 4" slump range.

Design Air Content (%)	6%	6%
w/cm	.41	.40
Calculated Equilibrium Density (pcf)	111.6	110.1
Calculated Fresh Density (pcf)	116.5	114.7

* These are suggested mix designs and should be used as guidelines only.

Contact your STALITE representative for specific job mixes and information.