Table IV. Unit Working Stresses for Static Loads From various building codes

migated the best of the	Working stresses, in 1b per sq in			
Classification of stresses	1928 * San Fran- cisco	1929, Philadelphia		
		Proportionment by arbitrary volumes†	Propor- tionment by water/ cement ratio;	1930 Boston
Extreme fiber-stress in concrete in	4			= 4 (*)
compression: In general	715	650	40% f'c	715
ous beams	825	747	45% f'.	825
Shearing-stress in concrete when	495	500	25% f'e	495
no steel is provided to resist	SHOW	too by	Date Triff v	14% [7]
diagonal-tensionVertical shearing-stress when the	amp	40	2% f'e	44
diagonal-tension requirements are satisfied	132	120	9% §f'.	132
Between concrete and plain bars. Between concrete and deformed	88	80	4%f'c	88
bars Maximum tensile stress in steel re-	110	100	5% f'c	110
inforcement	18 000	18 000	18 000	18 000
drawn steel wire	20 000	The state of	no i	22 500

Values based on a 28-day compressive strength of 2 200 lb per sq in, and corresponding to a mixture of one part cement to six parts of combined aggregate, where the coarse aggregate is of granite or trap-rock. The proportions are by volume of cement to the combined aggregates, measured separately. For example, a 1:2:4 mixture might also be referred to as a 1: 6 mixture.

† Values based on a 28-day compressive strength of 2 000 lb per sq in; proportions, one part of cement to six parts of combined aggregate. The amount of water, including the moieture the moisture content to six parts of combined aggregate. The transfer of the aggregate, is limited to 7¼ gallons per bag of cement.

The value of f'c represents the 28-day compressive strength as determined by actual sts. The following table gives the tests. The concrete is proportioned by the inspector. The following table gives the approximate and corresponding miniapproximate quantities of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates, water ratios, and corresponding minimum 28-day of combined aggregates agreement of combined aggregates. hum 28-day strengths for the various mixtures. Water or moisture contained in the aggregates and in determining the amount of aggregates and ascertained by daily tests, is to be included in determining the amount of water corresponding water corresponding to a required water-cement ratio.

Beams with web-reinfo

Approximate volume of Port- land cement to sum of sep- arate volumes of dry and todded fine and coarse ag-	States and see Of the cooled	Assumed ultimate strength at 28 days
1:8½ 1:6½ 1:5½ 1:5½	814 71⁄2 63⁄4	1 500 2 000 2 500 3 000