

Section 27 - Classes of Concrete

27.1 NJDOT Standard Specifications Concrete Class Designations

The NJDOT Standard Specifications for Road and Bridge Construction provide the following classes of concrete for the various items of work of concrete structures:

Structural Concrete Items	Concrete Class	Design Compressive Strength (f'c)
Cast-in-Place Items		
Nonreinforced Footing	B	3000 psi
Reinforced Footings	B	3000 psi
Abutments, Walls	B	3000 psi
Concrete Barrier Curb, Bridge	B	3000 psi
Piles	B	3000 psi
Drilled Shafts	A (or SCC)	4000 psi
Columns and Caps for Piers, Arch Spans, Rigid Frames, Culverts, Approach Slabs	A	4000 psi
Decks, Sidewalks, Concrete Patch, Parapets, Curbs, Pylons	HPC-1	4000 psi
Seal (Tremie) Concrete	S	2000 psi
Prestressed Items		
Beams	P, P-1 & P-2	*
Columns	P, P-1 & P-2	*
Piles	P, HPC	*
*P=5000 psi, P-1=5500 psi, P-2=6000 psi, HPC=as specified		
Precast Items		
Crib Wall Members	A	4000 psi
Piles	B	3000 psi
Culverts	P	5000 psi
Proprietary Retaining Wall Members	P	5000 psi
Noise Barriers	P	5000 psi
Columns	P	5000 psi
Others		
Concrete Slope Protection	B	3000 psi