

Building Fabric

Common Stock Styles of Welded Wire Fabric

<u>Style Designation</u>	<u>Steel Area – Square Inches Per Foot</u>		<u>Approx. Weight Per 100 Sq. Ft.</u>
	<u>Longitudinal</u>	<u>Transverse</u>	
*W or D			
6x6 1.4/1.4	.028	.028	21
6x6 2.1/2.1	.042	.042	30
6x6 2.9/2.9	.058	.058	42
6x6 4.0/4.0	.080	.080	58
4x4 4.0/4.0	.120	.120	85

*W designates smooth wire, D designates deformed wire.

Specifications Covering Welded Wire Fabric

<u>U.S. Specification</u>	<u>Canadian Standard</u>	<u>Title*</u>
ASTM A 82	CSA G 30.3	Cold-Drawn Steel Wire for Concrete Reinforcement
ASTM A 185	CSA G 30.5	Welded Steel Wire Fabric for Concrete Reinforcement
ASTM A 496	CSA G 30.14	Deformed Steel Wire for Concrete Reinforcement
ASTM A 497	CSA G 30.15	Welded Deformed Steel Wire Fabric for Concrete Reinforcement

*The Titles of the ASTM Specifications and CSA Standards are identical.

ASTM and CSA Minimum Properties of Steel Wires in Welded Wire Fabric

<u>Type of Fabric</u>	<u>Tensile Strength psi</u>	<u>Yield* Strength psi</u>	<u>Weld Shear Strength</u>
Welded Plain Wire Fabric	75,000	65,000	35,000
Welded Deformed Wire Fabric	80,000	70,000	35,000

*Yield strength is measured at 0.005 inch per inch extension of gauge length.

Insteel Wire Products is a major supplier of welded wire fabric used in concrete construction. Building fabric is used to control cracking in residential and commercial concrete slabs placed on grade. Drying shrinkage, temperature changes, heavy loads and poor sub-grade can cause concrete to crack. Insteel building fabric, when properly placed within the slab, holds the cracked sections close together. This enables the slab to act as one unit, maintaining its appearance and keeping the surface level. Welded wire fabric adds structural strength to the slab. Insteel manufactures and stocks building fabric in styles and sizes to meet your requirements.