

# WHY USE WELDED WIRE REINFORCEMENT (WWR)?

Welded wire reinforcement is an efficient and economical replacement for rebar as reinforcement in concrete construction. Welded wire reinforcement can be used for:

- Slab on grade
- Floor and wall systems
- Topping slabs
- Tilt-up construction wall systems
- Architectural precast wall panels
- Mechanically stabilized earth (MSE) reinforcement
- Shear walls
- Retaining walls

The use of welded wire reinforcement saves time and installation costs compared to standard rebar concrete reinforcement. Wires are welded into a sheet eliminating the time needed for tying rebar, and ensuring that the wires will not move when concrete is placed.

All Tree Island Steel's welded wire reinforcement is manufactured to strict industry standards and complies with ASTM A1064 / A1064M. Galvanized coating options meet ASTM A641 / A641M standards.

### INDUSTRY METHOD OF DESIGNATING WIRE & WWR STYLE:

**Wire Size:**  
Imperial wire sizes are designated by their cross-sectional area in hundredths of a square inch.  
E.g.: for W8, Area = 0.08 in<sup>2</sup>  
Metric wire sizes are designated by their cross-sectional area in mm<sup>2</sup>.  
E.g.: for MW51.6, Area = 51.6 mm<sup>2</sup>.  
“W” denotes plain wire e.g.: W18.  
“D” denotes deformed wire e.g.: D18  
“M” denotes metric e.g.: MW116 or MD116

**WWR Description:**

Example: 6" x 12" - W12 / W5  
152 mm x 305 mm - MW78 / MW32

# STANDARD WELDED WIRE REINFORCEMENT (WWR)

Standard WWR is available with wire sizes of W1.4 (MW9.2) up to W4.0 (MW25.7) with standardized spacing of 4" (102 mm) and 6" (152 mm) for both longitudinal and transverse wires. Standard WWR is typically used for residential and light duty concrete reinforcement, and concrete crack control applications.

The table below shows a list of common WWR configurations. Standard WWR is typically available in sheets and rolls, in bright or galvanized finishes. Standard sheet sizes are 8'x20' or 7'x20'.

STANDARD WELDED WIRE REINFORCEMENT SIZES				
*Gauge	IMPERIAL		METRIC	
	Wire Spacing (in)	Wire Size	Wire Spacing (mm)	Wire Size
10/10	6" x 6"	W1.4 / W1.4	152 x 152	MW9.2 / MW9.2
8/8	6" x 6"	W2.1 / W2.1	152 x 152	MW13.3 / MW13.3
6/6	6" x 6"	W2.9 / W2.9	152 x 152	MW18.7 / MW18.7
4/4	6" x 6"	W4.0 / W4.0	152 x 152	MW25.7 / MW25.7
10/10	4" x 4"	W1.4 / W1.4	102 x 102	MW9.2 / MW9.2
8/8	4" x 4"	W2.1 / W2.1	102 x 102	MW13.3 / MW13.3
6/6	4" x 4"	W2.9 / W2.9	102 x 102	MW18.7 / MW18.7
4/4	4" x 4"	W4.0 / W4.0	102 x 102	MW25.7 / MW25.7