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## **PART 1 - GENERAL**

### **1.01 WORK INCLUDED**

The contractor shall provide all labor, materials and accessories necessary for installation of the commercial welded wire fence system defined herein at (SPECIFY PROJECT SITE).

### **1.02 REFERENCES**

ASTM A641/A641M	Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire
ASTM A653/A653M	Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process
ASTM B117	Practice for Operating Salt-Spray (Fog) Apparatus
ASTM D523	Test Method for Specular Gloss
ASTM D714	Test Method for Evaluating Degree of Blistering in Paint
ASTM D822	Practice for Conducting Tests on Paint and Related Coatings and Materials using Filtered Open-Flame Carbon-Arc Light and Water Exposure Apparatus
ASTM D1654	Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments
ASTM D2244	Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates
ASTM D2794	Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)
ASTM D3359	Test Method for Measuring Adhesion by Tape Test
ASTM F2453/F2453M	Standard Specification for Welded Wire Mesh Fence Fabric

### **1.03 SUBMITTAL**

The manufacturer's submittal package shall be provided prior to installation.

### **1.04 QUALITY ASSURANCE**

Installer Qualifications: The installer shall have completed similar installations in material, design.

## **PART 2 - MATERIALS**

### **2.01 MANUFACTURER**

#### **Rampart 284 Welded Wire**

Wallace Perimeter Security

Product: Rampart 284 Welded Wire

115 Lowson Crescent, Winnipeg, Manitoba Canada, R3P 1A6

T. 866.300.1110 <https://www.wallaceperimetersecurity.com/>

## 2.02 FABRICATION

- A. Panel heights should be approximately: 4 ft. (1.2m), 6ft. (1.8m), 8 ft. (2.4m), or a multiple of stacked panels. Specific panel heights: 48.4" (1230mm), 72.0" (1830mm) and 95.7" (2430mm) respectively as per standard drawings.
- B. Wire mesh panels shall be precut to specified lengths of approximately 8'2"; actual, 8'-2<sup>3</sup>/<sub>4</sub>" or 98.75" (2508 mm) wide.
- C. Steel Wire mesh fence panels shall be welded by resistance welding per ASTM F2453 using pre-galvanized steel wire; using one Vertical 6 GA (4.88mm) pre-galvanized steel wire(s) and two Horizontal 4 GA (6mm) pre-galvanized steel wires to form a mesh opening of 2" x 8" (50mm x 200mm).
- D. One end of the vertical wires of the panel shall exceed 1" (25mm) from the first horizontal wire creating a spiked top.
- E. The cold rolled wire shall have a tensile strength of at least 74,000 psi (510 MPa) and 68,000 psi (469 MPa) shear strength. Wire strand shall be galvanized before welded (GBW), 0.50 ounces per square foot zinc coating conforming to the ASTM A641.

### 2.02.1 FENCE AND ACCESSORIES

- A. Available Rampart 284 - DOUBLE WIRE - Welded Wire Panel Sizes:

WPS Part Number	Pre-Galvanized Steel Wire Gauge		Mesh Size	Standard Panel Length	Approximate Standard Panel Height - ft [m]	Standard Panel Height - in. [mm]
	Horizontal	Vertical				
100488 (Black) 100487 (Galv.)	2 x 4 GA [6mm]	1 x 6 GA [5mm]	2" x 8" [50mm x 200mm]	≈8'2" (8'-2 <sup>3</sup> / <sub>4</sub> " ) [2508mm]	4' [1.2m]	48.4" [1230mm]
100490 (Black) 100489 (Galv.)	2 x 4 GA [6mm]	1 x 6 GA [5mm]	2" x 8" [50mm x 200mm]	≈8'2" (8'-2 <sup>3</sup> / <sub>4</sub> " ) [2508mm]	6' [1.8m]	72.0" [1830mm]
100492 (Black) 100491 (Galv.)	2 x 4 GA [6mm]	1 x 6 GA [5mm]	2" x 8" [50mm x 200mm]	≈8'2" (8'-2 <sup>3</sup> / <sub>4</sub> " ) [2508mm]	8' [2.4m]	95.7" [2430mm]
Finish: Hot Dipped Galvanized Optional Powder Coat Finish Available						

B. Post and Bracket Options for Rampart 284 - DOUBLE WIRE - Welded Wire Fence

WPS Part Number	Post Size/Type	Panel Height	Bracket Qty/Panel	Bracket Type	Finish
7' Dig and Set Option Available (Black or Galv.)	2-3/8" [60mm] Round Post	4' [1.2m]	3	13 GA U-Clamp <sup>(1)</sup>	Standard: Galvanized Optional: Powder Coat, Black
100772 (Black, 10' Long, SS20, Dig and Set) -OR-  100771 (Galv., 10' Long, SS20, Dig and Set)	2-3/8" [60mm] Round Post	6' [1.8m]	4	13 GA U-Clamp <sup>(1)</sup>	Standard: Galvanized Optional: Powder Coat, Black
100774 (Black, 12' Long, SS20, Dig and Set) -OR-  100773 (Galv., 12' Long, SS20, Dig and Set)	2-3/8" [60mm] Round Post	8' [2.4m]	5	13 GA U-Clamp <sup>(1)</sup>	Standard: Galvanized Optional: Powder Coat, Black
<sup>(1)</sup> NOTES: 1.5" carriage bolt with washer and 5/16-18" nut. Corner has to be a 90-degree angle. If not, use two end/universal brackets.					
7' Long Dig and Set Option Available (Black or Galv.) -OR-  Option Available (Black or Galv., 4' Long with flange plate)	2" x 2" [51mm x 51mm] Square Post	4' [1.2m]	3	12-14 GA U-Clamp <sup>(2)</sup>	Standard: Galvanized Optional: Powder Coat, Black
100770 (16 GA, Black, 8'9" Long, Dig and Set) -OR-  100631 (16 GA, Black, 10' Long, Dig and Set) -OR-	2" x 2" [51mm x 51mm] Square Post	6' [1.8m]	4	12-14 GA U-Clamp <sup>(2)</sup>	Standard: Galvanized Optional: Powder Coat, Black



WPS Part Number	Post Size/Type	Panel Height	Bracket Qty/Panel	Bracket Type	Finish
100118 (11 GA, Black, 6' Long, with 4"x6" flange plate) -OR-  100738 (11 GA, Galv., 6' Long, with 4"x6" flange plate)					
<sup>(2)</sup> NOTES: 1.5" carriage bolt with washer and 5/16-18" nut. Use two end brackets for corner installation. 2" posts available in 4' & 6' only.					
7' Dig and Set Option Available (Black) -OR-  Option Available (Black, 4' Long with flange plate)	3" x 3" [76mm x 76mm] Square Post	4' [1.2m]	3	12-14 GA U-Clamp <sup>(3)</sup>	Standard: Galvanized Optional: Powder Coat, Black
100126 (12 GA, Black, 9' Long, Dig and Set) -OR-  100769 (12 GA, Black, 10' Long, Dig and Set) -OR-  100122 (11 GA, Black, 6' Long, with 6"x6" flange plate)-OR-  100737 (11 GA, Galv., 6' Long, with 6"x6" flange plate)	3" x 3" [76mm x 76mm] Square Post	6' [1.8m]	4	12-14 GA U-Clamp <sup>(3)</sup>	Standard: Galvanized Optional: Powder Coat, Black
100121 (12 GA, Black, 12' Long, Dig and Set) -OR-  100125 (11 GA, Black, 8' Long with 6"x6" flange plate) -OR-	3" x 3" [76mm x 76mm] Square Post	8' [2.4m]	5	12-14 GA U-Clamp <sup>(3)</sup>	Standard: Galvanized Optional: Powder Coat, Black

WPS Part Number	Post Size/Type	Panel Height	Bracket Qty/Panel	Bracket Type	Finish
100739 (11 GA, Galv., 8' Long with 6"x6" flange plate)					
<sup>(3)</sup> NOTES: 1.5" carriage bolt with washer and 5/16-18" nut. Use two end brackets for corner installation.					

C. Privacy Inserts for Rampart 284 - DOUBLE WIRE - Welded Wire Fence

Insert Width	Insert Length	Panel Height	Insert Qty	Available Colors
7.5" [190mm]	100.4" [2550mm]	4' [1.2m]	7	Black (RAL# 9005) Anthracite (RAL# 7016) Transparent
7.5" [190mm]	100.4" [2550mm]	6' [1.8m]	9	Black (RAL# 9005) Anthracite (RAL# 7016) Transparent
7.5" [190mm]	100.4" [2550mm]	8' [2.4m]	12	Black (RAL# 9005) Anthracite (RAL# 7016) Transparent
<ul style="list-style-type: none"> <li>• Insert Material: Polyethylene</li> <li>• One package of inserts contains 10, 7.5" [190mm] x 100.4" [2550mm] inserts.</li> <li>• Different insert weave styles can be achieved using standard length inserts.</li> <li>• Cut to length of fence panel to ease installation.</li> </ul>				

**2.03 COATING**

- A. Hot-dip galvanized: The wire mesh is coated with 0.5 oz./sq. ft. (150 g/m<sup>2</sup>) zinc in conformity with ASTM A641 (1989) Class 1.
- B. Pre-galvanized and polyester powder coated: The polyester surface coating color shall be standard black or optional color as per RAL chart. Polyester coating to be minimum 4 mils (0.102mm) with an average thickness of 100µm (4 mils approx.) applied by an electrostatic method. Coating shall cover all surfaces of the wire sections.
- C. Corrosion: The wires are galvanized according to ASTM A641/A641M with a minimum of 40 gr/m<sup>2</sup>. After the welding process the panels will be pre-treated and provided with a

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conversion layer for a better anti-corrosion effect and better adhesion of the polyester powder coating.

### **PART 3 - EXECUTION**

All new installation shall be laid out by the contractor in accordance with the construction plans. The manufacturers' gate drawings shall identify the necessary gate hardware and installation recommendations required for the application.