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## RACK PROTECTION SPECIFICATIONS

### PART 1 GENERAL

#### 1.1 SCOPE

This specification is intended as a quick reference of general information related to pre-engineered guardrail system consisting of heavy-duty barrier rail, RackPal rack protectors, rack post protectors, bollards, pedestrian barrier rail and wire mesh rack guards.

#### 1.2 APPROVED MANUFACTURER

Cogan Wire and Metal Products Ltd.  
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#### 1.3 QUALITY ASSURANCE

The guardrail manufacturer shall be an established firm with a minimum ten years of experience in the design and fabrication of pre-engineered guardrail systems. The installation contractor shall be a firm experienced in installing guardrail systems.

The supplier shall warrant the guardrail materials to be free from manufacturing defects for a period of one year. Warranty does not cover damage caused by conditions beyond the control of the supplier.

#### 1.4 PROJECT APPROVAL

The client or owner must submit signed, approved drawings prior to the fabrication of the guardrail. The client or owner shall be responsible for all quantities and dimensions, including the verification of and coordination with field conditions. The client or owner shall verify all critical dimensions and conditions of existing construction that relate to the guardrail project prior to manufacturing. Cogan must be notified, in writing, of any elements found to be inconsistent or not compatible with the details indicated by approval drawings.



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## PART 2 ARCHITECTURAL AND MATERIAL SPECIFICATIONS

### 2.1 OVERVIEW

The rack protection product shall be a pre-engineered system consisting of protective equipment and hardware. The rack protection products encompass the following models:

- 2.1.1 RACKPAL RACK PROTECTORS
- 2.1.2 RACK POST PROTECTORS
- 2.1.3 WIRE MESH RACK GUARDS

### 2.2 RACKPAL RACK PROTECTORS

RackPal rack protectors shall be manufactured of a heavy steel crescent welded to a floor angle. RackPals are available with right-side, left-side or double-sided crescents. Crescents shall be manufactured of  $\frac{3}{8}$ " thick steel plate that meets the material requirements of ASTM A36 44W. Floor angles shall be manufactured of L5"x3" structural steel angles that meets the material requirements of ASTM A36 44W.

Single-sided RackPals are manufactured in the following standard lengths: 24", 42", 48" or 54".

Double-sided RackPals are manufactured in the following standard lengths: 42" or 48".

RackPal crescents are manufactured in the following standard heights: 12".

Single-sided Tapered RackPals are manufactured in the following standard lengths: 24", 42" or 48".

Double-sided Tapered RackPals are manufactured in the following standard lengths: 42" or 48"

### 2.3 RACK POST PROTECTORS

Rack post protectors shall be manufactured of a steel crescent welded to a base plate that is notched to fit around the most common rack posts. Crescents shall be manufactured of  $\frac{1}{4}$ " thick steel plate that meets the material requirements of ASTM A36 44W. Base plates shall be manufactured of steel plate that meets the material requirements of ASTM A36 44W. Each base plate shall include a 4" deep by  $5\frac{1}{4}$ " wide notch.

Rack post protectors are manufactured in the following standard heights: 12", 18" or 24".

### 2.4 WIRE MESH RACK GUARDS

Wire mesh rack guard panels shall be framed. Panel frames shall be made of  $1\frac{1}{4}$ "x $1\frac{1}{4}$ "x12ga structural steel angle. Corners shall be notched and seam welded. The panel shall be welded of 10-gauge wire creating a fabric of wire spaced 2"x2". The fabric shall be welded to the frame at every 6-inches.

### 2.5 FINISH

All rack protection products shall be finished with a safety yellow powder coat paint finish except wire mesh rack guard panels.

Wire mesh guard panels shall be finished with standard Cogan grey powder coat paint finish.



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## 2.6 HARDWARE

All necessary assembly fasteners shall be provided except floor and wall anchors.

# PART 3 INSTALLATION STANDARDS

## 3.1 WORK AREA

The area where the guardrail is installed shall have a concrete slab, troweled smooth and level.

## 3.2 WORK AREA AND INSPECTION

Working areas shall be inspected and cleaned of all debris to ensure that adequate access is provided to the installers. The client or owner shall advise the installation company of any embedded floor obstacles that may interfere with the installation of floor anchors.

## 3.3 INSTALLATION

Erection of the guardrail system shall be in accordance with the specifications and instructions contained in the erection manual and installation drawings. The installation plan is based on the specifications, dimensions and approval of the dealer and/or client. All drawings must be reviewed carefully prior to installation.

## 3.4 ON-SITE MODIFICATIONS

Any modifications required during installation (on-site) of any Cogan products shall be proposed to and approved by a product engineer employed by Cogan. Cogan shall not guarantee any products modified without the consent from a product engineer employed by Cogan.

**Cogan Wire & Metal Products Ltd.**

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