

# BAR GRATING TERMS A-Z

## A

### Anchor

Device by which grating is attached to its supports

## B

### Bearing Bars

Load-carrying members extending in the direction of the grating span

## C

### Cutout

An area of grating to be removed to clear an obstruction for pipes, ducts, columns, gussets, etc. to pass through the grating

## D

### Deflection

The movement of grating from its original position under a load

## E

### Electro-Forged

Process combining hydraulic pressure and heat fusion to forge bearing bars and cross bars into a panel grid

## F

### Finish

The coating, usually paint or galvanizing, which is applied to the grating

## G

### Grating

Open grid assembly of metal bars, are spaced by rigid attachment to cross bars running perpendicular to them or by bent connecting bars extending between them

## H

### Hinged Panels

Grating panels which are hinged to their supports or to other grating parts to create access

## I

### I-Bar

An extruded aluminum bearing bar having a cross sectional shape resembling the letter "I"

## J

### Junk Yard

Our steel doesn't end up in a junk yard, we are North America's largest recycler

## K

### Kick Plate

Or Toe Plate, is a flat bar attached flat against the outer edge of a grating or rear edge of a tread, and protecting above the top surface of grating or tread to form a lip or curb

## L

### Load-Carrying Band

A band used to transfer the load between bearing bars

## M

### MBG Manuel

Metal Bar Grating Manuel is a technical manual published by the National Association of Architectural Metal Manufacturers (NAAMM)

## N

### Nosing

A special L-section member serving as the front or leading edge of a stair tread, or of grating at the head of a stair

## O

### Open Area

The amount of open area in grating stated as a percentage that allows for ventilation, light, and liquids to pass through

## P

### Press-locked

A type of grating where notched bearing bars and cross bars are pressed together using hydraulic press

## Q

### Quenching

Cooling rapidly from the hardening temperature by subjecting the part to the proper coolant- such as, oil, water, molten lead, etc

## R

### Radial Grating

Rectangular grating cut into shapes as angular segments for use in circular or angular areas

## S

### Span of Grating

The distance between points of grating support, or the direction of this dimension

## T

### Treads

A panel of grating having carriers and nosing attached by welding, and designed specifically to serve as a stair tread

## U

### Uniform Deflection

This is a calculation to determine allowable uniform load and deflection. Uniform load is per square foot

## V

### Vehicular Loading

Heavy rolling loads are defined as Vehicular Loads per NAAMM

## W

### Welded Bar Grating

Bar grating in which the bearing bars and cross bars are joined at their intersections by a weld

## X

### X - Cross Rods

The connecting bars which extend across the bearing bars, perpendicular to them

## Y

### Yield Point

Is the point in which metal no longer behaves elastically

## Z

### Zero Accidents

Nucor Safety...

**NUCOR**  
**GRATING**