

# GuardRite® Steel Safety Barrier

Ideal in situations where rigid, durable protection is needed.



Single Rail System



Double Rail System

## Separation means protection in your plant

Your plant can be a dangerous place. When it comes to protection, a yellow line painted on the floor just doesn't cut it.

A common alternative is steel posts and fixed guardrail systems, which do an excellent job of separating common areas from dangerous ones.

## Protect your assets

- » GuardRite® Steel helps prevent forklifts, sweepers and other in-plant vehicles from damaging your facility or equipment, and injuring your employees
- » Helps avoid costly downtime and repairs

## Solid performance and easy installation

- » Designed to stop up to 30,000 lbs. (13636 kg). Consult the GuardRite Steel BLAST Impact Rating Chart for complete weight and speed ratings
- » Choose the single rail system at 23" (580 mm) – high or the double rail system at 44" (1120 mm) – high when extra protection is needed
- » Simply bolt GuardRite Steel components together and anchor the mounting posts to the floor
- » Install without any disruption to your operation
- » Ideal in situations where rigid, durable protection is needed. Examples include isolating open, exposed work areas, separating conveyors from pallet storage, and protecting workstations at loading docks

# Specifications/Survey

Date \_\_\_\_\_

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip Code \_\_\_\_\_

Representative \_\_\_\_\_

Salesperson \_\_\_\_\_

Quantity: \_\_\_\_\_ Signature: \_\_\_\_\_

## GuardRite® Steel:

- » Painted Safety Yellow
- » Shipped with all hardware and anchors included

## Rail:

- » 11.8" (300 mm) high, 3" (75 mm) deep
- » Formed from 0.125" (3.175 mm) thick steel
- » 9'4" (2850 mm) maximum length (120" (3050 mm) column centerline)

## Double High Column:

- » 44" (1120 mm) tall
- » 10" (255 mm) square base plate, 0.625" (16 mm) thick
- » 5" (125 mm) square tubing column, 0.1875" (4.8 mm) thick
- » Center of bottom rail is 11" (280 mm) from the floor
- » Center of top rail is 35" (890 mm) from the floor
- » Provided with four 0.75" (20 mm) x 7" (178 mm) concrete anchors per post

## Single High Column:

- » 23" (585 mm) tall
- » 10" (255 mm) square base plate, 0.625" (16 mm) thick
- » 5" (125 mm) square tubing column, 0.1875" (4.8 mm) thick
- » Center of rail is 11" (280 mm) from the floor
- » Provided with four 0.75" (20 mm) x 7" (178 mm) concrete anchors per post

## Hardware:

- » All hardware for rail attachment is 0.50" (13 mm) diameter, grade 5 hardware

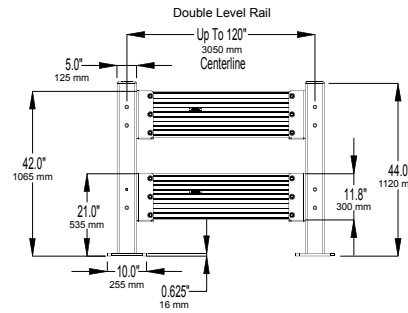
## Unit Length

Unit Length Feet: \_\_\_\_\_

Unit Length Inches: \_\_\_\_\_

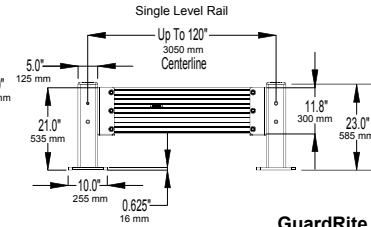
## Rail Configuration

- Single Level Rail (23" Posts)
- Double Level Rail (44" Posts)



## Measurement Method

- Center of Post to Center of Post
- Inside of Post to Inside of Post
- (Outside of Post to Outside of Post)
- Inside of Base Plate to Inside of Base Plate
- Outside of Base Plate to Outside of Base Plate



## Common Post Centerline

- 10' (recommended)
- 8'  6'  5'  4'

## Subtract Extra Posts (QTY):

- 0  1  2

## Number of Posts: \_\_\_\_\_

## Number of Rails:

- 10' rails: \_\_\_\_\_
- 8' rails: \_\_\_\_\_
- 6' rails: \_\_\_\_\_
- 5' rails: \_\_\_\_\_
- 4' rails: \_\_\_\_\_

## GuardRite Steel Deflection\*

| KE (Joules) | Inches | mm  |
|-------------|--------|-----|
| 5000        | 5.5    | 140 |
| 10000       | 8.5    | 216 |
| 15000       | 12.0   | 305 |
| 20000       | 15.0   | 381 |



\*Deflection measured from rail

## BLAST Impact Rating Chart - GuardRite® Steel

| MPH | Ft/sec | M/sec | Kinetic Energy KE (Joules) |       |       |       |       |       |       |       |       |       |       |  |
|-----|--------|-------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|     |        |       | 5000                       | 7000  | 9000  | 10000 | 12000 | 13500 | 15000 | 17000 | 20000 | 22000 | 30000 |  |
|     |        |       | 2268                       | 3175  | 4082  | 4536  | 5443  | 6123  | 6804  | 7711  | 9072  | 9979  | 13608 |  |
| 2.0 | 2.9    | 0.89  | 906                        | 1269  | 1632  | 1813  | 2176  | 2447  | 2719  | 3082  | 3626  | 3989  | 5439  |  |
| 2.5 | 3.7    | 1.12  | 1416                       | 1983  | 2549  | 2833  | 3399  | 3824  | 4249  | 4816  | 5666  | 6232  | 8498  |  |
| 3.0 | 4.4    | 1.34  | 2040                       | 2855  | 3671  | 4079  | 4895  | 5507  | 6119  | 6935  | 8158  | 8974  | 12237 |  |
| 3.5 | 5.1    | 1.56  | 2776                       | 3887  | 4997  | 5552  | 6663  | 7495  | 8328  | 9439  | 11104 | 12215 | 16657 |  |
| 4.0 | 5.9    | 1.79  | 3626                       | 5076  | 6527  | 7252  | 8702  | 9790  | 10878 | 12328 | 14504 | 15954 | 21756 |  |
| 4.5 | 6.6    | 2.01  | 4589                       | 6425  | 8260  | 9178  | 11014 | 12390 | 13767 | 15603 | 18356 | 20192 | 27534 |  |
| 5.0 | 7.3    | 2.24  | 5666                       | 7932  | 10198 | 11331 | 13597 | 15297 | 16997 | 19263 | 22662 | 24928 | 33993 |  |
| 5.5 | 8.1    | 2.46  | 6855                       | 9597  | 12339 | 13711 | 16453 | 18509 | 20566 | 23308 | 27421 | 30163 | 41132 |  |
| 6.0 | 8.8    | 2.68  | 8158                       | 11422 | 14685 | 16317 | 19580 | 22027 | 24475 | 27888 | 32860 | 35937 | 48950 |  |
| 6.5 | 9.5    | 2.91  | 9575                       | 13405 | 17234 | 19149 | 22979 | 25852 | 28724 | 32551 | 38299 | 42259 | 57448 |  |
| 7.0 | 10.3   | 3.13  | 11104                      | 15546 | 19988 | 22209 | 26651 | 29982 | 33313 | 37755 | 44418 | 48859 | 66626 |  |

- Will absorb multiple impacts at this level with minimal damage. (10878 Joules maximum)
- Will absorb an impact, may sustain damage. (20192 Joules maximum)
- Will not absorb an impact of this level.

\* The Barrier Load And Speed Test (BLAST) chart expresses an impact rating in terms of kinetic energy. Consult [The Science of Safety](#) white paper for a complete explanation of the information contained within this chart.



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