Steel Reinforced Rubber Guard

RAMGuard™ provides superior rack column protection with its patented Rubber Armored Metal design. Molded of energy absorbing rubber with a “U-shaped” steel insert and force distributing rubber voids, RAMGuard absorbs significantly more energy during impact than most column protection devices offered today.

**RAMGuard Advantages**

- Protects rack structures from frontal, angled and side impacts
- Significantly lowers impact damage to pallet rack columns
- Requires no hardware or straps to retain the guard on column
- Endures many impacts with no loss of performance
- Significantly outperforms most plastic guards commonly used today

The 12” high RAMGuard snaps onto rolled or structural steel columns 3” wide and up to 3” deep.

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**Maximum Impact Resistance by Design**

There is a wide range of products designed to help protect pallet rack columns from the everyday abuses that commonly occur in busy warehouse environments. These products include steel reinforced columns, slant-back or offset frames, floor-mounted steel guards, bumpers, barriers and aftermarket attachable guards. Each of these serves a purpose for different applications.

Aftermarket attachable guards have a variety of applications ranging from small plants with high traffic areas to large facilities where it is critical to reduce the time and cost of replacing damaged uprights... and everything in between. There are many types, kinds and sizes of guards on the market today, but none like the RAMGuard.

After nearly two years of development, testing and proto-type designs, the new patented RAMGuard delivers the greatest impact resistance available in aftermarket snap-on or strap-on column guards.

**RAMGuard’s Design**

Through extensive design, testing and evaluation, a specific rubber compound was formulated to provide a balance between durability, density and impact absorption qualities. The chart to the right shows the energy absorbing capacity of various materials that are commonly used in column guards. Clearly, this shows elastomers offer far greater absorbing properties than other common materials.

Once the rubber compound was selected, various steel inserts were tested, culminating in the use of a “U-shaped” steel plate to maximize impact protection from multiple angles. Finally, rubber voids were introduced to assist in the distribution of impact forces. The results speak for themselves!

Elstromers like Rubber absorb much more potential energy per unit mass than most other materials. In fact, between 10 and 100 times more.

- Energy absorbing elastomer guards outperform plastic guards
- Elastomer guards lower the peak acceleration levels at the column
- Elastomer guard with steel reinforcement can endure multiple impacts with no loss of performance
**Impact Tests show...**

**RAMGuard Reduces Peak Stress in a Column by 72%**

Impact testing to FEM 10.2.02 standards has shown the RAMGuard dissipates more impact energy and better distributes impact forces than other commonly used guards, resulting in no damage to the column or the guard.

In fact, frontal impact data shows the RAMGuard reduces impact stress levels in the column as much as 72%.

The RAMGuard performs equally well for both frontal and 45 degree impacts. In fact, both the column and RAMGuard were fully functional after 20 impacts!

**45% Angle Fork Impact Test**

Protected 11 gage column with the RAMGuard after 20 impacts. NO DAMAGE TO EITHER COLUMN OR RAMGUARD!

Unprotected 11 gage column after 6 frontal impacts.

As shown above, the RAMGuard and 13 gage column were undamaged after 6 impacts. In fact, the same column and RAMGuard were tested an additional 14 times and remained fully functional!

An unprotected 13 gage column after 2 impacts shows significant damage.
**RAMGuard Specifications**

### Dimensions
Size: 12” high 5.5” wide  
Weight: 9 lbs

### Fit
Columns: 3” wide and up to 3” deep  
Fits all 3” wide face columns

### Adapters
Rubber adapters for 3 x 2-1/4” roll-form,  
3 x 1-5/8” roll-form and 3” structural columns.  
Each guard requires two adapters per guard.  
Adapters are sold in kits containing two adapters.