



**ESSENTRA**

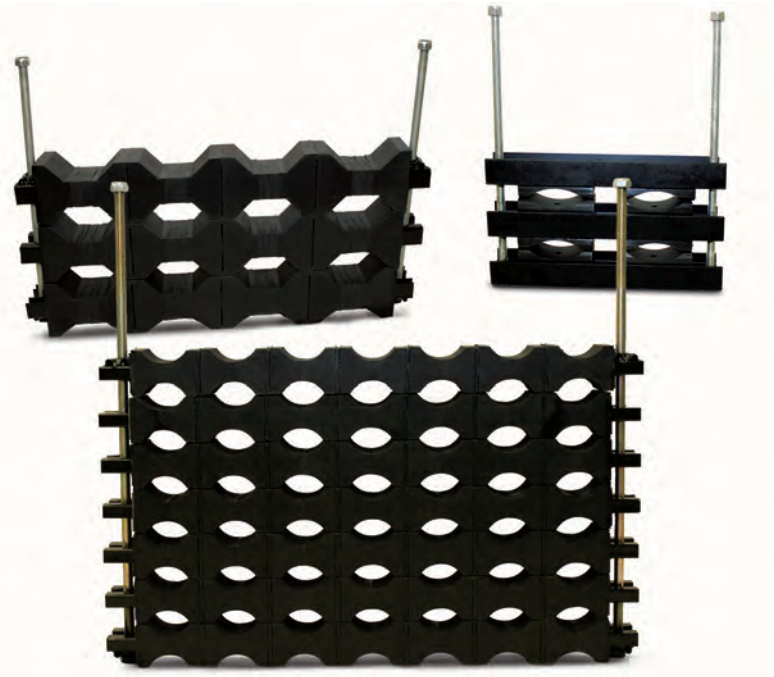
PIPE PROTECTION  
TECHNOLOGIES

## RAPTOR PIPE PACKAGING FRAMES™

Raptor Pipe Packaging Frames™ are a new protection product from Essentra Pipe Protection Technologies. These quality-designed pipe packaging frames offer a way to securely bundle drill pipe, as well as tubing and casing, for ease in storage and transportation in a most cost-effective way.

Our new frames are offered in a range of common sizes, from 2 3/8" – 13 5/8". They are comprised of steel bars surrounded with multiple segments of molded high-density polyethylene (HDPE) which are grooved to the joint's OD to ensure the most optimal fit. Steel bolts are used to secure the segments to the pipe and tighten the frame. A bundle of pipe will generally consist of 4 Raptor Pipe Packaging Frames™ to ensure that all joints are properly and safely secured. When bundled, joints can be lifted by forklift or slings, providing the lifting occurs on the pipe itself.

Raptor Pipe Packaging Frames™ are an ideal choice to meet storage and transportation requirements, and can be customized to accommodate more specific customer needs.



Bundle Your Pipe Safely, Securely, Skillfully...

Raptor Pipe Packaging Frames™

| TUBULAR SIZE<br>TUBING (IN)     | BUNDLE<br>ARRANGEMENT<br>COLUMN x ROW | QTY OF JOINTS<br>PER BUNDLE |
|---------------------------------|---------------------------------------|-----------------------------|
| 2 3/8                           | 8 X 7                                 | 56                          |
| 2 7/8                           | 7 X 6                                 | 42                          |
| 3 1/2                           | 6 X 5                                 | 30                          |
| TUBULAR SIZE<br>CASING (IN)     | BUNDLE<br>ARRANGEMENT<br>COLUMN x ROW | QTY OF JOINTS<br>PER BUNDLE |
| 4 1/2                           | 5 X 3                                 | 15                          |
| 5 1/2                           | 4 X 3                                 | 12                          |
| 7                               | 4 X 2                                 | 8                           |
| TUBULAR SIZE<br>DRILL PIPE (IN) | BUNDLE<br>ARRANGEMENT<br>COLUMN x ROW | QTY OF JOINTS<br>PER BUNDLE |
| 2 3/8                           | 7 X 4                                 | 28                          |
| 2 7/8                           | 6 X 4                                 | 24                          |
| 3 1/2                           | 5 X 4                                 | 20                          |
| 4 1/2                           | 4 X 3                                 | 12                          |
| 5 1/2                           | 4 X 2                                 | 8                           |
| 6 5/8                           | 3 X 2                                 | 6                           |

