

## IN-ROOF™ Cable Truss System

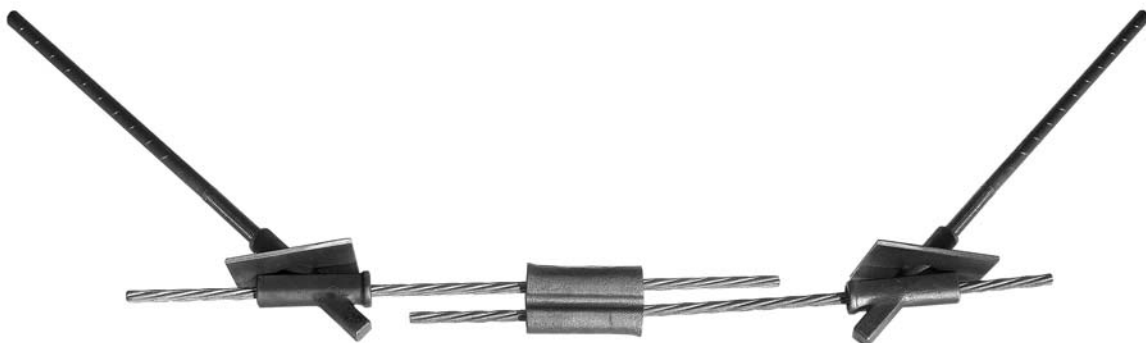
The IN-ROOF™ Cable Truss System is a flexible support system that can be installed in-cycle much faster and easier than existing truss supports. Applications include longwall gates, entries and crosscuts.

- **Simplicity - Only Three Basic Components**
  - IN-ROOF™ bracket/bolt assembly
  - Cable tie rods
  - Cable coupler
  - Integrated cable wedges in the coupler and bracket
- **Maximizes Safety**
  - Installed in-cycle within protective confines of bolter
- **Maximum Clearance**
  - Final assembly extends a maximum of 2-1/2" from the roof line.
- **IN-ROOF™ Bracket**
  - Angle of bracket enables proper anchor bolt angle of installation

*Continued >*

### Specifications:

Roof Bolt	PC Strand	Strand	Borehole
#7 Gr60	.600", Gr270k	Bright, Galvanized	1-1/8", 1-3/8"
7/8" SRD Gr75	.600", Gr270k	Bright, Galvanized	1", 1-1/8"



# IN-ROOF™ Cable Truss System

## Uncompromising Strength

Minova's research indicates that the design capacity of the IN-ROOF™ system should be limited to the ultimate strength of the cable being used (30 tons).

- Roof tensile zones are placed in compression
- Mine roof stability is increased
- Decreased roof falls
- Roof bolt and IN-ROOF™ bracket are combined and shipped as a single unit
- Roof bolt/bracket and bearing plate to be spun as a unit during resin mixing

## Installation Procedures:

1. Drill hole at proper diameter and depth.
2. Insert appropriate Minova resin cartridge.
3. Insert bolt with bracket/bearing plate assembled.
4. Rotate the bolt/bracket/plate assembly for the specified time according to recommendations for the Minova resin being used. Align bracket across entry. When proper mixing and alignment are complete, thrust bolt/bracket/plate assembly tight against roof.
5. The horizontal cable tie rod may be easily installed in-cycle or at a later time, depending on support requirements and the roof control plan.
6. Cable tie rods are inserted through the roof bolt/bracket and center coupler.
7. Tensioning takes place in the opening center using a cast coupler unit and a hydraulic tensioner.

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