



S.P. OVERCASTS

- ◆ New Sprayed Panel Overcasts are constructed with PMR prefabricated panels
- ◆ Panels are formed of spaced apart wire grids with insulated cores
- ◆ They are installed side by side across the mine passageway and fastened together with wire
- ◆ The wire grids interconnect with strut wires which pass through the insulation core and form a truss system
- ◆ A deck of similar panels is placed across the top, spanning the full distance between the passageway sidewalls
- ◆ The deck serves as the roof for one airway and the floor for the intersecting airway
- ◆ Wing walls are mounted on the deck if sidewalls do not reach the ceiling at the intersection
- ◆ Following installation, all panels are coated with gunite or shotcrete creating a structure impervious to air
- ◆ The layer of concrete extends beyond the edges onto the side walls and ceiling to form a monolithic, airtight structure



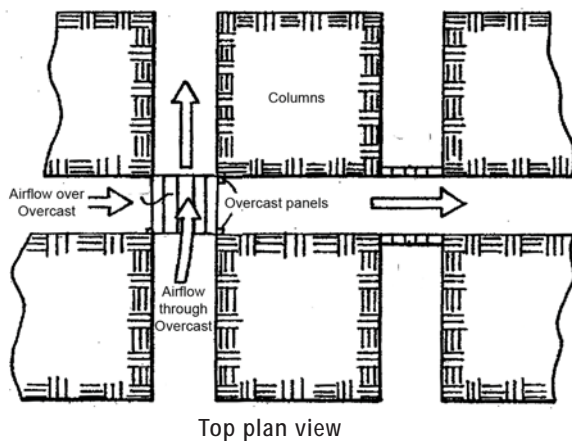
S.P. OVERCASTS



Constructing overcast



Side and deck panels



CONVENTIONAL SYSTEMS

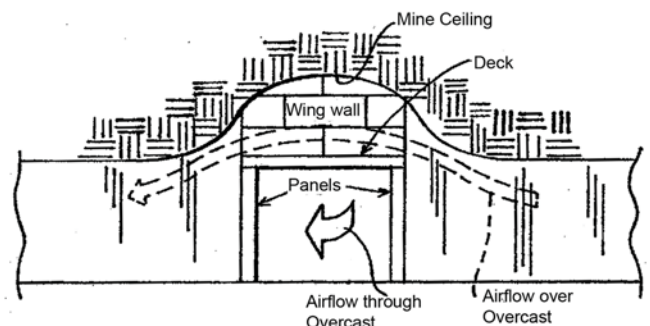
Concrete block walls, iron beams, steel plates and/or similar materials. Treated with sealants

- Significant amount of air leakage and pressure loss
- Large amount of heavy materials required
- Many supply trips
- Large crews of manpower
- Difficult and dangerous to install in confined areas
- Slow construction - Halts production up to four days

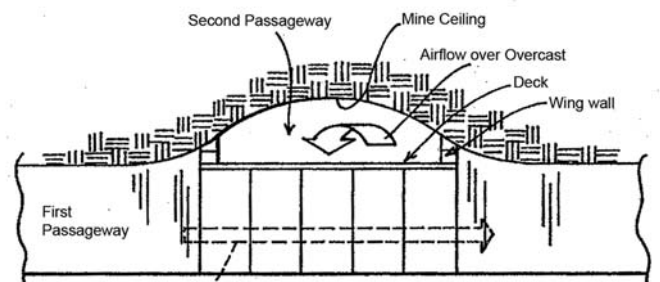
NEW SP SYSTEM BENEFITS

Lightweight Panels of wire and insulation. Coated with concrete

- Air tight - no leaking and pressure changes
- Lighter-weight and easier to handle
- Less materials handling
- Faster and easier installation - completely installed in two days
- Fully coated with robust gunite or shotcrete which is impervious to air
- Minimal follow-up maintenance



Side elevation



Perspective view

