

Precast PC Pavement

DESCRIPTION

Precast Prestressed Concrete Pavement offers high durability and high strength. It is used both for new construction and for replacement of pavement in such places as road intersections, tunnels, runway, taxiway, container yards, where high durability and/or high strength is required and future repair works should be minimum. Expedited construction saves tremendous costs to the users where impact of traffic interruption is significant.



At an Intersection



In a Tunnel



For a Port



For an Airport

Advantages

- **High Durability** Prestressing offers high durability by improving flexibility, resistance to cracking and reduced number of joints

- **Rapid Construction** Construction takes only several hours. Precast concrete pavement panels can be installed quickly and opened to traffic immediately

- **Easy Replacement** Replacement of panels are easy and fast by removing horizontal joints

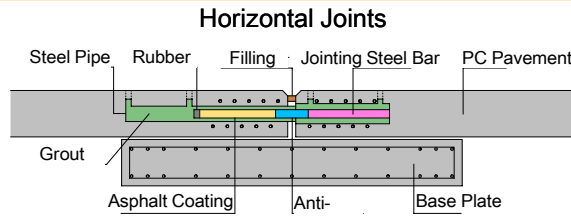
- **High Quality** "Factory made" in a controlled environment offers high quality and less susceptible to construction and material variability

- **Economical** Great cost benefit by minimum lane closure and expedited opening to traffic by weekend or nighttime construction

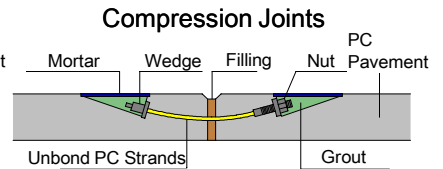
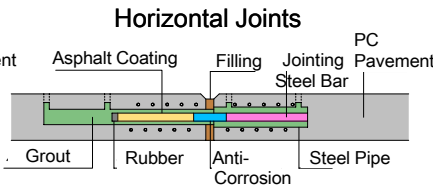
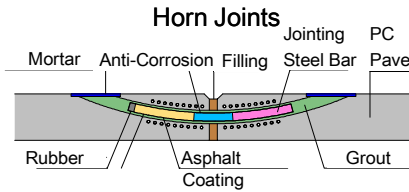
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JOINTING OF PANELS

Expansive Joint



Compressive Joint



CONSTRUCTION

Road Pavement

Remove existing pavement
Prepare road bed

Runway, Taxiway

Produce PPC panels

Carry-in PPC panels

Set horizontal joint
Lay out vinyl sheet

Tension PT strands
Install PPC panels
Adjust evenness

Joint panels
(For horizontal joints)

Grout for Horizontal joints
back-fill

Fill at panel joints
Apply epoxy resin mortar

Completion

