

## Technical Certificate

### Description

Plastic Chairs and Spacers designed to achieve the projected position of steel reinforcement in the concrete structures and obtain the specified concrete covers.

### Technical Features

<b>Raw Material</b>	Polypropylene and polyethylene pigmented,
<b>Manufacturing Process</b>	Plastic Injection Molding,
<b>Chemical Properties</b>	100% Inert, does no react with the concrete,
<b>Humidity</b>	100% Waterproof, ASTM D570,
<b>Concrete Behavior</b>	100% compatible with the concrete, Integrate without causing fissures and does not generate the entrance of any polluting agents of the steel,
<b>Temperature</b>	Range of optimal operation between 20 to 140 °F.
<b>Load Resistance</b>	Each model has its own manufacturing specifications,
<b>Regulations</b>	Fulfill with the ACI regulations (315-99 chapter 5) and CRSI specifications (Manual of Standard Practice chapter 3, CLASS 1, offering Maximum Protection against oxidation of the steel or the entry of a steel pollutant,  Meet the specifications given by the Florida DOT and for the Building Codes of the State of Florida in terms of load capacity and deflection resistance.

### Important Considerations

These are excellent and advanced plastic accessories for construction, used in many countries as a Integral Construction System. Nevertheless, in no case can they be considered a structural element. In extreme temperatures they have certain limitations that must be considered.

### Warning

Unsuitable use or installation can cause injuries to personnel. When there are doubts about the appropriate use or installation, contact FTP for assistance.

