

STRONGWELL

APPLICATION PROFILE



EXTREN® COMBINES THE OLD AND THE NEW FOR CELLULAR SHIELDING

The Santa Ana Historical Building, known as the old city hall, is a well known and widely recognized landmark in Santa Ana, California. It is also the location for one of the newest cell-sites for L.A. Cellular. EXTREN® fiberglass plate and structural shapes were used to blend the building's architecture with the new cell site.

The rooftop site was a critical cell-site location needed to fill the coverage of cellular reception in the area. The problem was that the site was located on top of a historical building and building codes required exact replication of the building's architectural features.

Using the EXTREN® *Design Manual*, the city was able to approve a design for a transparent cellular shielding that would match the style and appearance of the historical building. EXTREN® fiberglass structural shapes and plate are ideally suited to cellular shielding applications. Both lab tests and field applications have proven EXTREN® to be transparent to the cellular transmissions.

R. E. Boermans Construction built the two cellular shields on each side of the front of the building. The framework used EXTREN® 4" angle and 4" square tube connected with FIBREBOLT® fiberglass studs and nut fastener system. It was covered with 1/4" EXTREN® plate painted to match the front of the building. All the necessary antennae and equipment could then be located behind these shields without distracting from the appearance of the historical landmark.

TECHNICAL DATA

Product:	Architectural Cellular Shielding
Process:	Pultrusion, Fiberglass Fabrication
Materials:	EXTREN® Series 525 fiberglass reinforced polyester, fire retardant EXTREN® structural shapes used: 1/4" Plate 4" x 1/4" Angle 4" x 1/4" Square tube
For:	L.A. Cellular
User:	Sana Ana City Hall

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ARCHITECTURAL CELLULAR SHIELDING