## **Commins Manufacturing**



TM

360-378-9484

## Continuous rod tie-down systems and the issue of



Jurisdiction	De d Linsite	Max. Limits all components	Some of the many TUCC City Members			
or Group	Rod Limits		Alameda Albany	Moraga Newark	Cupertino	Belmont
Los Angeles	.200" rod only		Antioch Oakland San Jose Antioch Oakland Woodsid Benicia Oakley Foster Ci	San Jose Woodside Foster City	Santa Clara Gilroy Santa Cruz	
San Diego	.125" rod only		Brentwood Clayton	Pittsburg Pleasant Hill	Pleasanton Burlingame San Francisco Los Gatos Foster City Milpitas South San Francisco Menlo Park Redwood City	Cupertino Monterey King City Seaside Marina Salinas Soledad Greenfield Capitola
San Francisco		.179" All Com- ponents	Concord Danville Dublin El Cerrito Emeryville Fremont Hayward Hercules Livermore Martinez	Pleasanton Richmond San Pablo San Leandro		
TUCC (ICC Group) *	.125" All Com- ponents	.200" All Com- ponents		San Ramon Union City Walnut Creek		
ICCES 391 3.2.2.2	.125" Rod Only	.250" All Com- ponents		Los Altos Monte Sereno Los Altos Hills		

Some Engineering firms are requiring limits as tight as .125" total system elongation.

We are happy to see this trend is growing as it will create higher performance in the shear walls and safer buildings.

Some companies still only require rod elongation, yet it is recognized that as much as half the elongation in the systems is in the components other than the rod.

Just in the Shrinkage compensator there may be .170" + of deflection when you add the load deflection to the  $\Delta r$  !

 $\Delta r$  "Average travel and seating increment" (AC 316 section 1.4.7).

 $\Delta r$  is independent of load and is always added in full. (AC 391 section 3.1.1).

Why would it be mandated that these numbers be factored in if we are only going to consider the rod's elongation? Why not measure all the components with deflection in mind?

So we are asking you— What limits is your company putting on Rod Hold-down elongation?

Please help us with this survey by emailing us your answer.

Email: mikec@comminsmfg.com



## Systems Evaluated per AC 391; AC155; and AC 316



Screw TUD System



Standard

Hold Downs

Ratchet TUD System

## See the Difference—Watch this Video **Click on the link**

**CLICK HERE**