
RESHORE SAFETY FACTOR

Ramon J. Cook, P. E.

18 April 2006

Mr Paul Gillespie, President
Gillespie Practical Technologies, Inc
Toronto, Ontario Canada

Re: TABLA Reshore Safety Factor

Safety Factors of **shoring**: supports for concrete forms under **unstable wet weights**; have long been required to adhere to minimum limits of 2.5/1.0 for framed shoring and 3.0/1.0 for single post shoring. TABLA takes no exception to this rule.

TABLA standard post shore rating is 7,200 lbs each, when plumb, under braced panel arrays, and extended to 12'- 0" max height, with 3/1 Factor of Safety on ultimate strength.

OSHA, ANSI A10.9, and ACI 347 are all silent on the subject of Safety Factors for **RESHORES of dry weights**. ACI 347.2R-05, Shoring/Reshoring of Concrete Multi-Story Buildings says "Where manufactured shores/reshores are used, **the manufacturer's data** should be consulted for safe working loads and other safety requirements of the shores/reshores and hardware." (Section 5.1.5, Adequacy of shoring/reshoring system)

GPT has chosen a safety factor for RESHORES of 1.7 based on the structure's own design load factors. These are given in SEI/ASCE 37 as 1.2 for dead loads, 1.4 for all loads, and 1.6 for construction live loads. Dead load of TABLA shoring/reshoring system is so light in comparison to construction slab & superimposed construction forces being carried (which equal to "live loads", as far as reshoring is concerned) that the total factor = 1.7 was chosen by GPT as a legitimate load factor for practical design purposes and jobsite safety.

This is tenable because the reshores are standing on a braced surface: a completed slab is braced into its building structure, or it wouldn't be able to support reshores! In addition, the slab above being propped is stable, also tied into its columns and walls, or it couldn't have been stripped of forms to be reshored. So, it only remains for the reshores to be stable at ceiling heights per ACI's spec: "manufacturers' data". TABLA post shores were tested per SSFI methods to obtain that verified strength-to-height data.

Respectfully submitted,



Ramon J. Cook, P. E.



2006 P.E. Licenses: Delaware #6119; District of Columbia #7543; Maryland # 12521;
Virginia #13351; Georgia #17268; Texas #22830; New Jersey #28480