2005 Survey Results
PTI Method for Design of Post-Tensioned Slabs
22 Respondents

► What parameters do you measure prior to determining PTI parameters?
   EI   PI   %Clay   %Fines   Confined Swell/Suction   UCC or Triax
   73%  91%  77%    64%           14%           5%

► If you do several tests, what do you give the most weight to?
   EI   PI   %Clay   %Fines   Confined Swell/Suction
   50%  27%  23%    5%            5%

► Do you measure depth to constant soil suction at the site?
   No   Yes   Assume Worst Condition   Estimate
   27%  5%   77%           14%

► Do you perform the above tests on every project?
   No   Yes
   57%  43%

► Do you follow the PTI procedure rigorously?
   No   Yes
   73%  27%

► Do you modify the procedure based on percent coarse grained material?
   No   Yes   Sometimes
   77%  18%   5%

► Do you use Volfio computer program?
   No   Yes   Sometimes
   68%  9%   23%

► Do you use the Thornthwaite Moisture Index from the PTI manual?
   No   Yes   Sometimes
   45%  41%   14%

► Do you give different numbers for conventional PT’s vs. mat PT’s (No Perimeter Beam)?
   No   Yes   Haven’t Done Mat Slabs
   64%  27%   9%

► Do you recommend presoaking?
   No   Yes   Sometimes
   9%   77%   14%
Do you believe that presoaking influences slab performance?

No | Yes | Sometimes
---|-----|-------
0% | 86% | 14%

Do you recommend a minimum depth perimeter footing (or moisture cut-off wall)?

No | Yes | Sometimes
---|-----|-------
18% | 73% | 9%

Do you think a perimeter footing reduces moisture infiltration or just stiffens the slab?

No | Yes | Both
---|-----|-----
14% | 0% | 86%

Do you modify PTI design parameters to account for other deflections caused by geotechnical conditions, for example deep fills?

No | Yes
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48% | 52%