

NAIL HOLDING POWER OF PERLITE CONCRETE

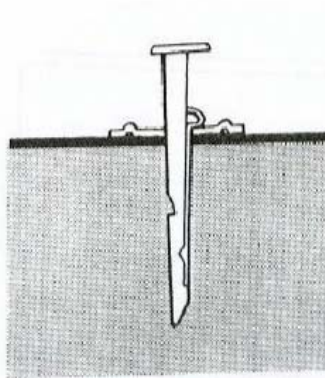
INTRODUCTION

One of the advantages of perlite insulating concrete in many types of construction is the fact that it is easily nailable. Roofing contractors, for example, may nail the first ply of built-up roofing to perlite insulating concrete roof decks. In these applications, the holding power of the nails is important.

In general, the force required to remove nails from perlite concrete depends on three factors:

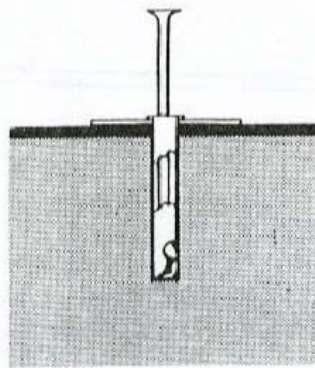
1. Type of nail used.
2. Density of concrete.
3. Age of concrete at time of nailing.

To obtain data on the holding power of several self-clinching nails, Perlite Institute, Inc. initiated a testing program under the supervision of the United States Testing Company, Inc. A description of the test procedure and tabulated results are included in the laboratory report reproduced herein. Data are presented on the E. G. Insuldeck Loc-Nail, Simplex Tube-Lok nail and E/S Products Nail-Tite MK III nail. Additional information on a specific fastener may be obtained directly from the manufacturer. Perlite Institute does not recommend or specify any brand or type of nail. Such recommendations are the prerogative of the roofing manufacturer. As test data on the holding power of other nails become available, they will be included in revisions to this report.



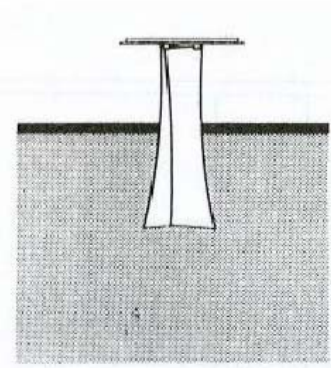
(A)

E. G. Insuldeck Loc-Nail



(B)

Simplex Tube Lok Nail



(C)

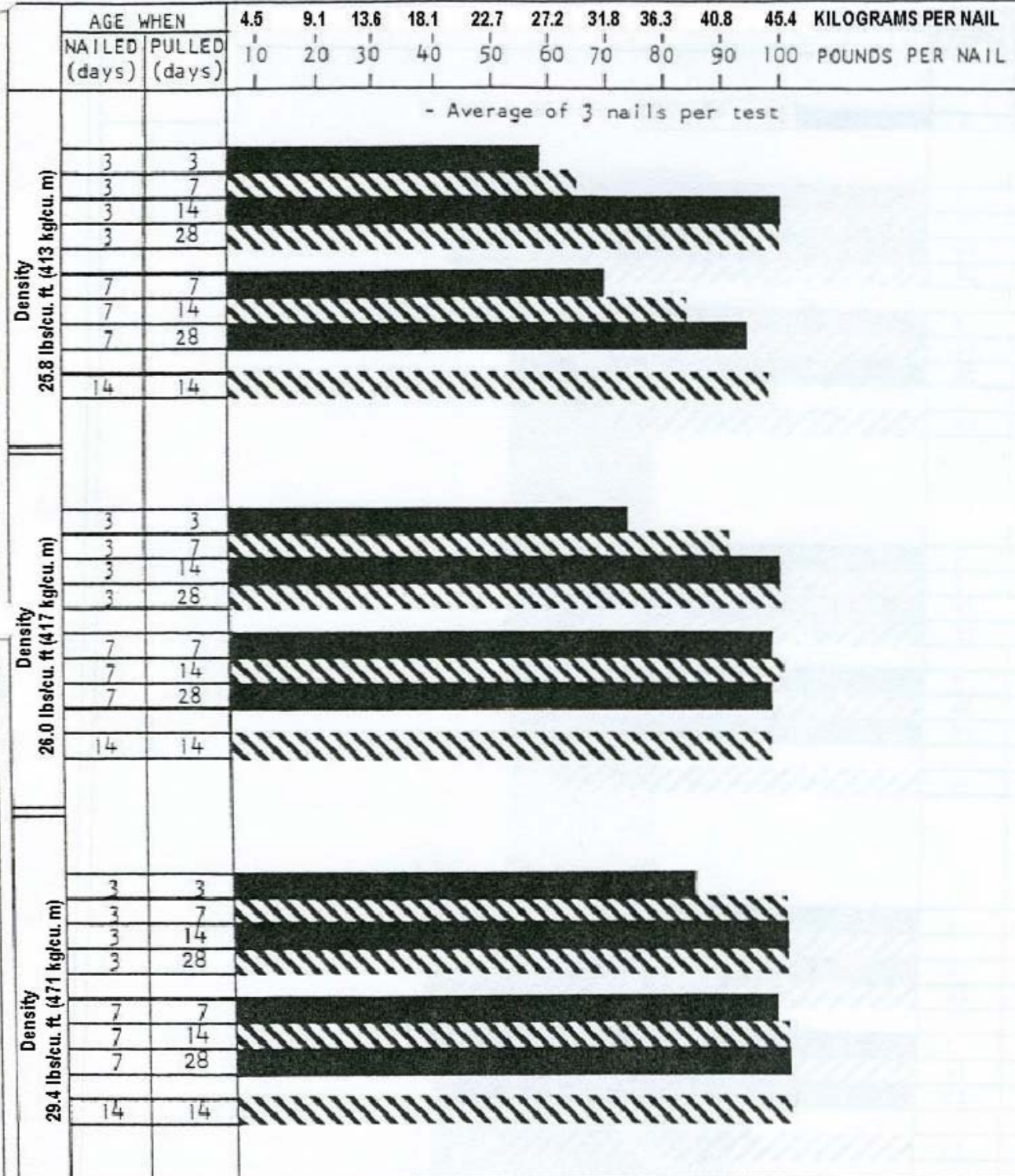
Nail-Tite® MK III (Zono-Tite)

E. G. BUILDING FASTENERS CORP.
420 Lexington Avenue
New York, N. Y. 10017

SIMPLEX NAILS, INC.
P. O. Box 545
Americus, Georgia 31709

ES PRODUCTS
30 Pleasant Street
New Rochelle, N. Y. 10801

NAIL HOLDING POWER OF PERLITE CONCRETE WITH ES NAIL-TITE MK III NAIL



NOTE: For specific data and applicable notations on each withdrawal refer to United States Testing Company, Inc. report.

NAIL HOLDING POWER OF PERLITE CONCRETE WITH E. G. INSULDECK LOC-NAIL

AGE WHEN		4.5	9.1	13.6	18.1	22.7	27.2	31.8	36.3	40.8	45.4	KILOGRAMS PER NAIL
NAILED (days)	PULLED (days)	10	20	30	40	50	60	70	80	90	100	POUNDS PER NAIL

- Average of 3 nails per test

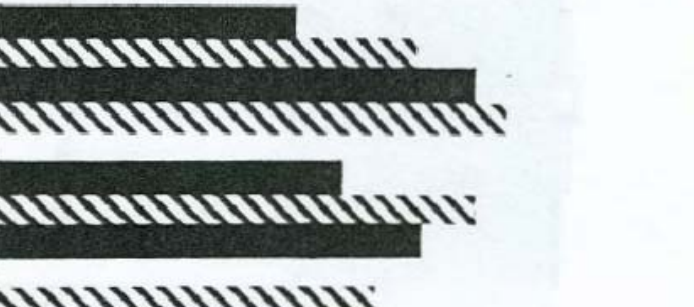
Density
25.8 lbs/cu. ft. (413 kg/cu. m)

3	3
3	7
3	14
3	28
7	7
7	14
7	28
14	14



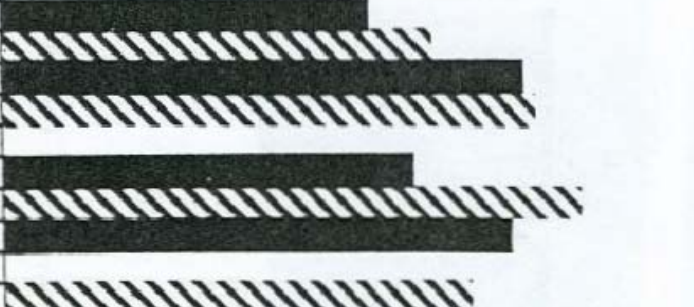
Density
26.0 lbs/cu. ft. (417 kg/cu. m)

3	3
3	7
3	14
3	28
7	7
7	14
7	28
14	14



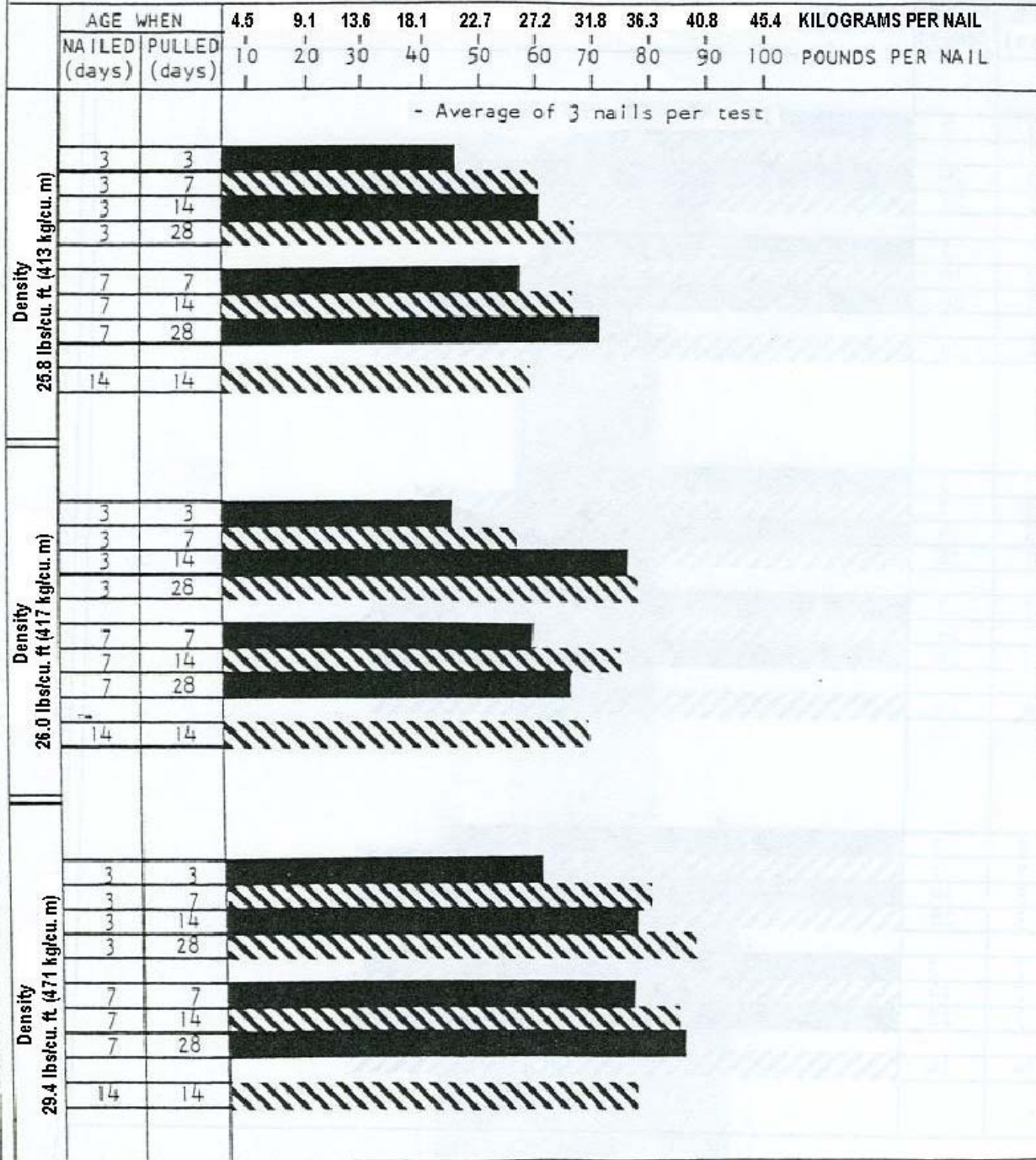
Density
29.4 lbs/cu. ft. (471 kg/cu. m)

3	3
3	7
3	14
3	28
7	7
7	14
7	28
14	14



NOTE: For specific data and applicable notations on each withdrawal refer to United States Testing Company, Inc. report.

NAIL HOLDING POWER OF PERLITE CONCRETE WITH SIMPLEX TUBE-LOK NAIL



NOTE: For specific data and applicable notations on each withdrawal refer to United States Testing Company, Inc. report.



Perlite Institute, Inc.
 4305 North Sixth Street, Suite A, Harrisburg, PA 17110
 717.238.9723 / fax 717.238.9985 / www.perlite.org

Technical data given herein are from sources considered reliable, but no guarantee of accuracy can be made or liability assumed. Your supplier may be able to provide you with more precise data. Certain compositions or processes involving perlite may be the subject of patents.