NAIL HOLDING POWER

OF

PERLITE CONCRETE



PERLITE INSTITUTE, INC. 88 NEW DORP PLAZA, STATEN ISLAND, NY 10306 718-351-5723, Fax: 718-351-5725, Telex: 262167 PERLITE UR

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.

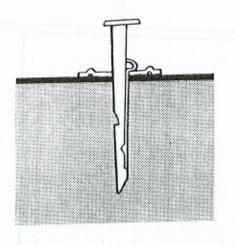
In general, the force required to remove nails from perlite concrete depends on three factors:

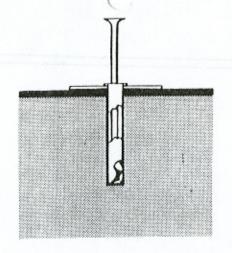
- Type of nail used.
- 2. Density of concrete.
- 3. Age of concrete at time of nailing.

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.

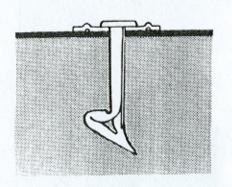
Perlite Institute does not recommend or specify any brand or type of nail. Such recommendations are the prerogative of the roofing manufacturer. As test data on the holding power of other nails become available, they will be included in revisions to this report.

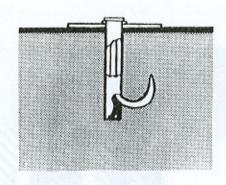
PERLITE INSTITUTE, INC.

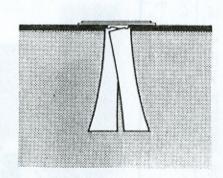












(A)

(C)

E. G. Insuldeck Loc-Nail

Simplex Tube Lok Nail

(B)

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

20	14	14	ZIIIIIIIIIIIIIII	
DENSITY 9.4 lbs/cu.	7	14 28	annanimum philip	
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ft.	3	3 7 14		
26	14	14	MINIMINI.	
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	3	28		
ft.	3 3	3 7		
25	14	14	umminim.	
5.8 lbs/qu. ft.	7 7 7	7 14 28	annanana.	
	3	28	annumum.	
	3 3	7	mmmmm.	
	(days)	(days)		
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NOTE: For specific data and applicable notations on each withdrawal refer to United States Testing Company, Inc. report.

1

	AGE WHEN		POUNDS PER NAIL - Average of 3 nails per test
		(days)	10 20 30 40 50 60 70 80 90 100
/cu. ft.	3	3 7	
	3	14	
bs/cu	7	7	
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	(days)	(days)	1 1 1 1 1 1 1 1
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DENSITY 29.4 lbs/cu.	3	28	annanananana),
	7 7 7	7 14 28	
	14	14	MINIMININI.

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