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DESIGN LISTING # 1345

LISTING & TESTING DIVISION

PRODUCT: ABS & Steel FOUNDATION PADS

Renewed: January 2016

Subject to Renewal:
January 2017

LISTEE: TIEDOWN ENGINEERING, INC.
5901 Wheaton Drive
Atlanta, GA 30336

CATEGORY: DESIGN - FOUNDATION

APPLICATION: MANUFACTURED HOME - FOUNDATION

SECTION 1: INTRODUCTION

At the request of Tiedown Engineering, Inc., **RADCO** has examined their ABS Foundation Pads and Steel Pads to determine the design load capacity in accordance with Section 3280.401(b) of The Federal Manufactured Home Construction and Safety Standards.

SECTION 2: DESCRIPTION

ABS pads are molded pads having continuous ribs running parallel and diagonal with the pad sides. The Steel pads are made of 12 gage galvanized steel. The pads may be used to distribute concentrated pier loads to underlying soil for manufactured housing constructed in accordance with The Federal Manufactured Home Construction and Safety Standards 24 CFR Part 3280. The ABS pads are available in various sizes as noted in Table 1.

SECTION 3: APPLICATION

The pads shall be installed in accordance with the manufacturer's installation instructions. The maximum design concentrated loads are provided in Table 1.

SECTION 4: EVIDENCE SUBMITTED

a) Test report of "Full Scale ABS Footer Test: by K2 Engineering, Inc. Test Report #99-MH01-TDE, January 1999.
b) Test report of "Full Scale ABS Footer Test: by K2 Engineering, Inc. Test Report #99-MH05-TDE, May 1999.
c) Test report of "Full Scale ABS Footer Test: by K2 Engineering, Inc. Test Report #99-MH06-TDE, May 1999.
d) Test report of "Full Scale ABS Footer Test: by K2 Engineering, Inc. Test Report #99-MH07-TDE, May, 1999.
e) Test report of "Full Scale ABS Footer Test: by K2 Engineering, Inc. Test Report #99-MH09-TDE, September, 1999.
f) Test report of "Full Scale ABS Footer Test: by K2 Engineering, Inc. Test Report #00-MH15-TDE, September, 2000.
g) Test report of "Full Scale ABS Footer Test: by K2 Engineering, Inc. Test Report #01-MH17-TDE, August 2001.
h) Test report of "Vector-Xi Foundation Pad: by RADCO TestReport # RAD-3849, May 2006

SECTION 5: RECOMMENDATIONS

RADCO recommends that these pads be accepted for use of pads in bearing capacity of soils listed in Table 1 for support of concrete masonry unit piers, provided that:

a) Each pad shall be fabricated, identified and installed in accordance with this listing, the manufacturer's published installation instructions, and the applicable code(s). In the event of a conflict between the manufacturer's published installation instructions and this listing, this listing shall govern. The installation instructions shall be available at the point of installation.

b) Each pads shall be marked with manufacturer name and address, product name, RADCO name/logo and Listing #1345.

c) The ABS pads are of the same quality and size as tested by K2 Engineering, Inc. The steel pad is the same quality and size as tested by RADCO.

d) Piers are limited to steel piers or single or double stacked concrete masonry unit blocks of this listing.

e) The design pier load does not exceed the lesser of the pad capacity, soil capacity or pier capacity.

f) The home installer is responsible for the foundation design of each home.

g) RADCO's follow-up audits be continued at the prescribed frequency.

SECTION 6: APPROVAL

This listing is subject to approval on an annual basis by **RADCO**. Updating of data and further information will be submitted as necessary.

Table 1: Maximum Design Load Capacity for ABS Pads

Model	ABS Pad Size	Soil Bearing Capacity*		
		1,000 psf	2,000 psf	3,000 psf
59300	16”x18”	2,000	4,000	6,000
59301	16”x22.5”	2,500	5,000	7,500
59302	17”x25”	3,000	6,000	N/A
59303	24”x24”	4,000	8,000	N/A
	Steel Pad			
21" Steel Pad	21"x21"	3062	6125	9187

*Concrete blocks are rated at 8000 lbs. foundation pads must be double blocked for loads greater than 8000 lbs upto 12000 lbs and limited to 10000 lbs for steel piers..

Figure 1 Single and Double Stack Course