



LISTING REPORT

Number: UEL-5028

Originally Issued: 05/24/2019

Revised: 04/03/2023

Valid Through: 05/31/2024

**LISTING REPORT FOR
FREEAXEZ, LLC
1805 Underwood Boulevard
Delran, New Jersey 08075
(856) 764-0400**

<https://freeaxe.com>

**LISTING SUBJECT:
FREEAXEZ GRIDD® ADAPTIVE CABLING
DISTRIBUTION SYSTEMS**

**CSI Section:
09 69 33 Low Profile Fixed Height Access Flooring**

1.0 SCOPE OF LISTING

1.1 Test results to the following standard:

- Ceilings and Interior Systems Construction Association (CISCA) Recommended Test Procedures for Access Panels – Section 3: Rolling Loads.

1.2 Properties assessed:

- The durability and deformation of the Adaptive Cabling Distribution Systems exposed to commercially anticipated traffic using a specified load.

2.0 FINDINGS

2.1 Product Information: Gridd® is designed to create a low-profile floor that provides underfloor, adaptive cabling distribution and management that is concealed, modular, allows access, and is gravity-held. The Freeaxe Gridd® is available in four types of systems, Gridd® 40 Standard, Gridd® 40 Reinforced, Gridd® 70 Standard and Gridd® 70 reinforced. Additional information on this product may be found in [ER-518](#).

2.2 Test Data: Testing was performed based on Section 3 of the CISCA Recommended Test Procedures for Access Panels. The manufacturer recommends that the maximum localized permanent deformation due to rolling loads not exceed 0.06 inch (1.52 mm). The results of testing from an independent third-party laboratory are furnished in Table 1 of this report.

3.0 INSTALLATION

The manufacturer’s published installation instructions and this listing shall be strictly adhered to. A copy of the instructions and this listing shall be available on the job site during installation.

The concrete subfloor shall comply with the applicable code and the Freeaxe specifications before the assembly of the system. The subfloor shall be flat within a tolerance of ¼-inch deviation per 10 feet (2.08 mm per meter).

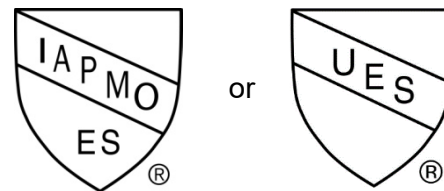
The undersheet supplied by Freeaxe shall be applied to the concrete subfloor before placement of the Gridd® system. Spray-glue shall be applied at the ends of the undersheet as required by the manufacturer’s installation instructions to assure that the undersheet is flat.

The Gridd® system shall be laid out using the layout and material staging drawings prepared by Freeaxe and as required by the Freeaxe installation instructions. The base units are connected using the channel plates and corner plates supplied by Freeaxe. The panels typically interconnect without the use of fasteners.

The overlay and finish materials including carpet tile and plywood, where applicable, shall be installed prior to any loading.

4.0 IDENTIFICATION

Gridd® 40 Standard, Gridd® 40 Reinforced, Gridd® 70 Standard and Gridd® 70 Reinforced are identified on the packaging by the Freeaxe name and trademark, product name, part number, date of manufacture, and evaluation report number ([ER-518](#)) or listing number (UEL-5028). Each Gridd® base unit is stamped with the Freeaxe company name and the evaluation report number or listing number. The identification of both the packaging and the base units may also include either of the IAPMO Uniform Evaluation Service Marks of Conformity as shown below:



IAPMO UES UEL-5028

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.

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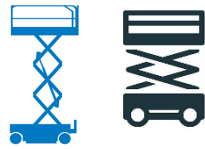


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TABLE 1– Gridd® Permanent Deformations Due to Rolling Loads

	Gridd® 40/70 ³	Gridd® 40/70 with 3/4" plywood overlay	Gridd® 40/70 Reinforced	Gridd® 40/70 Reinforced with 3/4" plywood overlay
Rolling Live Load Tested ⁴	Cart traffic¹			
	  			
	Lift Traffic (NOT RECOMMENDED BY MANUFACTURER) 	Lift Traffic² Genie AWP 25S (+0 lbs) JLG 20 MVL (+500 lbs) Hybrid 1030 (+250 lbs) Genie SLC18 (+500 lbs) 	Lift Traffic² Hybrid 1030 (+250 lbs) Genie SLC18 (+500 lbs) 	Lift Traffic² Genie AWP 25S (+0 lbs) Hybrid 1030 (+250 lbs) JLG 20 MVL (+500 lbs) Genie GS 1930 (+500 lbs) Genie SLC18 (+500 lbs) 
Number of Passes	1000 passes			
Permanent Deformation (inch)	≤ 0.06			

SI: 1 pound = 0.454 kg; 1 inch = 25.4 mm

Notes:

¹The loading shown on each cart traffic device is in addition to the self-weight of the cart. See Table 2 for weight, wheel dimensions, and other information for the carts.

²Loads shown in parentheses for the lift vehicles are in addition to the self-weight of the vehicles. See Table 2 for weight, wheel dimensions, and other information for the lift vehicles.


³Deformation for the Gridd® 40/70 is shown for cart traffic only. Deformation exceeds 0.06 inch for lift traffic for the Gridd® 40/70.

⁴The following legend describes the symbols noted in Table 1.


CART TRAFFIC (Unpowered pushcarts and hand trucks)


 2 Wheel Hand truck
 (10x4 Pneumatic)


 4 Wheel Push Cart
 (10x4 Pneumatic & 5x1.5 flat plastic)
 (6x2 flat plastic & 6x2 flat plastic)


 6 Wheel Platform Cart
 (6x2 flat plastic & 8x2 flat plastic & 6x2 flat plastic)

**LIFT TRAFFIC (Occupied lifts and aerial work platforms)
 Equipment as noted above**


 Electric Scissor Lift (powered)


 Manual Scissor Lift (Push Around)



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TABLE 2– Specifications of Cart and Lift Vehicles Used in Testing¹

Manufacturer	Model	Wheel MOC	Front Wheel (Qty) (Diameter x width in inches)	Rear Wheel (Qty) (Diameter x width in inches)	Weight (lbs)
Uline	H1364 (2-wheel configuration)	Pneumatic/hard plastic	NA	2 (10x4)	39
Uline	H1364 (4-wheel configuration)	Pneumatic/hard plastic	2 (5x1.5)	2 (10x4)	39
Rehrig	D356.200	Hard Plastic	2 (6x2)	2 (6x2)	113
Generic	Black Cart	Hard Plastic	2 (6x2)	2 (Middle - 8x2) 2 (Back - 6x2)	148
Genie	AWP 25S Transit position	Hard rubber	2 (5x2)	2 (8x2)	776
Genie	GS1930	Hard rubber	2 (12x4.5)	2 (12x4.5)	2702
JLG	20 MVL	Hard rubber	2 (8x2)	2 (12.5x2)	2710
Custom Equipment	Hybrid HB-1030	Hard rubber	4 (8x5.375)	2 (10x4)	1273
Genie	SLC 18 (compact/transit mode)	Hard plastic	2 (3.75x1.5)	2 (Back-4.75x1.5) 2 (Middle-2.5x1.25) 2 (Stabilizer-3.25x1.25)	307

SI: 1 pound = 0.454 kg, 1 inch = 25.4 mm

Note 1: Contact report holder for additional guidance regarding allowable wheel details for specific equipment/applications.