



www.safetyrailsource.com

(877) 723-3766 info@safetyrailsource.com

Kee Safety, Inc. 100 Stradtman Street Buffalo, NY 14206 www.keesafety.com

Tel: (716) 896 4949
Fax: (716) 896 5696
(800) 851 5181

info@keesafety.com

Testing of STS Skylight Screen in accordance with OSHA Standard 29 CFR 1910.28 & 1910.29

Test location Kee Safety, Inc

100 Stradtman Street Buffalo, NY 14206

Test Date: 09/04/2019

OSHA Requirements

1910.28(b)(3) Holes. The employer must ensure:

1910.28(b)(3)(i)

Each employee is protected from falling through any hole (**including skylights**) that is 4 feet (1.2 m) or more above a lower level by one or more of the following:

1910.29(e)

Covers. The employer must ensure each cover for a hole in a walking-working surface:

1910.29(e)(1)

Is capable of supporting without failure, at least twice the maximum intended load that may be imposed on the cover at any one time;

1910.140(d)(1)(v)

If the personal fall arrest system meets the criteria and protocols in appendix D of this subpart, and is being used by an employee having a combined body and tool weight of less than 310 pounds (140 kg), the system is considered to be in compliance with the provisions of paragraphs (d)(1)(i) through (iii) of this section. If the system is used by an employee having a combined body and tool weight of 310 pounds (140kg) or more and the employer has appropriately modified the criteria and protocols in appendix D, then the system will be deemed to be in compliance with the requirements of paragraphs (d)(1)(i) through (iii).





www.safetyrailsource.com

(877) 723-3766 info@safetyrailsource.com

Kee Safety, Inc. 100 Stradtman Street Buffalo, NY 14206

www.keesafety.com

Tel: (716) 896 4949
Fax: (716) 896 5696

(800) 851 5181

info@keesafety.com

Screen Material

0.312" diameter galvanized carbon wire in a 4" x 4" grid for OSHA requirements of 620 lbs factored load.

Purpose of Test

To determine the ability of a Kee Safety Type STS Skylight Screen to withstand an employee having a combined body and tool weight of less than 310 pounds (140 kg), with a test load of at least twice the maximum intended load of 310lb. The test load was 620 pounds (280 kg) applied at any point on the skylight screen.

Test Method

Kee Safety STS Style Skylight was secured to a (5' wide x 10' length) skylight.

Weights where measured at 622 lbs as per **Photo 1** and positioned on the skylight in two separate tests. At the front end and center of the skylight which was deemed worst case.

Note: Weights were stacked in a column as if someone was standing in these positions to give worst case results.

Conclusion

The 622lb applied at the front end and center of the STS skylight in two separate tests showed the STS screen could support without failure the factored load. Once the weights were removed there was no visible sign of damage to fixings or the skylight. Deflection was 4" when weight applied to front end worst case deflection.





www.safetyrailsource.com

(877) 723-3766 info@safetyrailsource.com Kee Safety, Inc. 100 Stradtman Street Buffalo, NY 14206

www.keesafety.com

Tel: (716) 896 4949Fax: (716) 896 5696

(800) 851 5181

info@keesafety.com

Photo 1. – Measured Weight for testing. (622lb)





Photo 2. Kee Safety STS Skylight secured to skylight screen as per the installation guidelines.







www.safetyrailsource.com

(877) 723-3766 info@safetyrailsource.com Kee Safety, Inc. 100 Stradtman Street Buffalo, NY 14206

www.keesafety.com

■ Tel: (716) 896 4949 ■ Fax: (716) 896 5696

(800) 851 5181 info@keesafety.com

Photo 3. - Test weight (622lb) Center of STS Skylight



Photo 4. - Test weight (622lb) front end of STS Skylight

