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Manufacturers of Vibration Control Products

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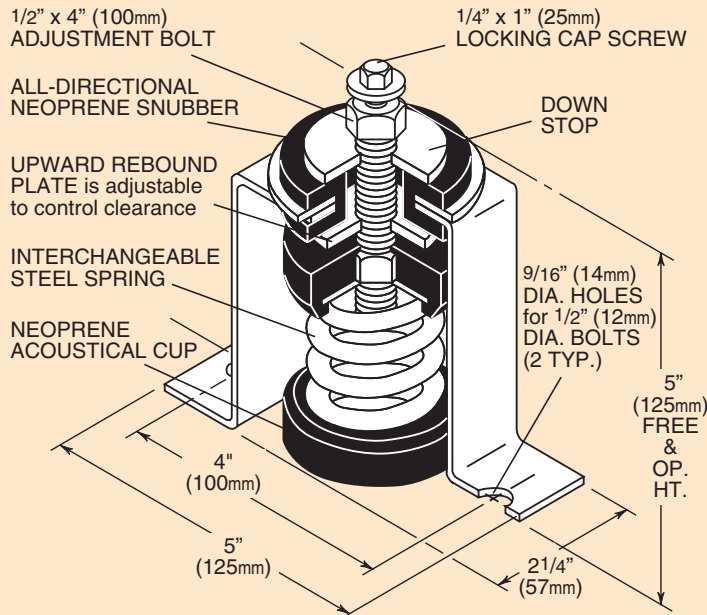
1"(25mm)

**DEFLECTION
X SPRING SERIES
SEISMIC MOUNTS**

TYPE

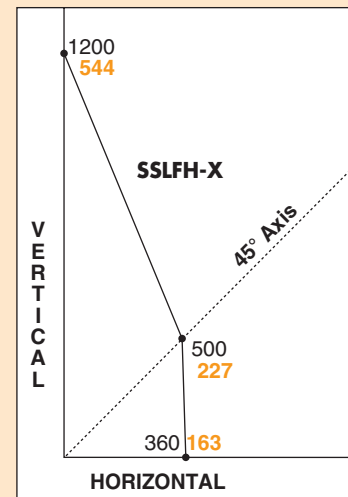
SSLFH-X

DATA SHEET DS-05A



Mounts are galvanized.

OSHPD R-0199 Rated Load Curves (lbs kg)[†]



[†]For kN divide kg by 102

Horizontal and Vertical plotted Ratings are California OSHPD approved values having the OSHPD Anchorage Preapproval Number R-0199. Testing and calculations were performed to meet OSHPD criteria.

To use approved OSHPD rated load curves:

- 1) Calculate Vertical and Horizontal Forces on mounts including translations and overturning moments.
- 2) Plot Horizontal Load vs Vertical Load. The point must fall within the area below the OSHPD curve.

TYPE SSLFH RATINGS

Size	Rated Capacity (lbs) (kgs)	Rated Defl (in) (mm)	Mount Constant (lbs/in) (kg/mm)	Spring Color	Max Horiz. Static G Rating*
SSLFH-X-23	23 10	1.30 33	18 0.31	Brown	15.7
SSLFH-X-33	33 15	1.10 28	30 0.54	Red	10.9
SSLFH-X-54	54 25	1.20 30	45 0.82	White	6.7
SSLFH-X-76	76 35	1.02 26	73 1.33	Black	4.7
SSLFH-X-113	113 51	1.00 25	113 2.05	Yellow	3.2
SSLFH-X-130	130 59	1.00 25	130 2.36	Purple	2.8
SSLFH-X-175	175 79	1.00 25	175 3.20	Silver	2.1
SSLFH-X-210	210 95	1.00 25	210 3.82	Blue	1.7

*Horizontal G Ratings are for quick reference only—Use OSHPD Rated Load Curves.

SPRING DATA

Size	Spring OD (in)(mm)	Free Height (in)(mm)	Ratio Kx/Ky	Ratio OD/OH
23-130	1 1/2 38	23/8 60	0.86-1.00	1.09-1.40
175-210	1 1/2 38	25/8 66	0.75	0.92-1.00

INSTALLATION INSTRUCTIONS:

1. Remove locking cap screws and place mountings under holes in equipment base.
2. Shim mountings level before securing.
3. In all mounting locations, pass cap screws through holes in equipment base and screw loosely into leveling bolts.
4. Take two full counter-clockwise turns on each leveling bolt and continue even adjustment of all mounts until all springs are loaded and mountings are back to Free and Operating Height.
5. Take no more than two additional counter-clockwise turns on any leveling bolt to level equipment.
6. Tighten cap screws to secure equipment.
7. Adjust plates so there is 1/8" (3mm) clearance between top of plate and underside of all-directional neoprene cushion. Turn rebound plates clockwise to lower or counter-clockwise to raise.



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HOLE CLEARANCE FILLER FOR SEISMIC AND BLAST APPLICATIONS

TYPE

HCF

DATA SHEET DS-05B

When there is excessive clearance between anchor bolts and equipment holes, the equipment has a tendency to shear off the anchor bolts during earthquakes or bomb blasts at accelerations as low as 0.2 g. The reason as explained in figure 1 is a velocity buildup because of sliding. What was initially analyzed as a static system becomes dynamic.

Type HCF hole clearance filler provides a quick solution as it fills this clearance created by practical tolerances, off center bolts or the extreme situation where holes are enlarged on the jobsite by drilling or burning.

HCF is a hand kneadable, non-rusting, steel reinforced epoxy that mixes in one minute to provide fast, permanent bonds to items made of ferrous and aluminum metals. After mixing, HCF has the consistency of clay and can be forced into the clearance with any tool similar to a putty knife or small scraper.

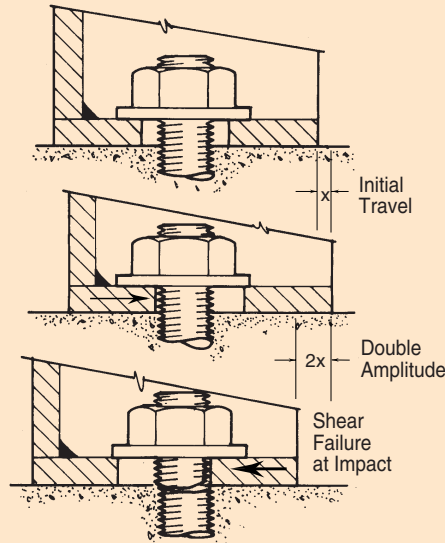


Figure 1- IMPACT SHEAR FAILURE

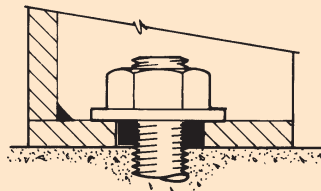


Figure 2- HCF REMEDY

PACKAGING:

HCF is packed in a clear plastic reusable tube with a plastic friction top.

COLOR: Black after cure.

HEALTH PRECAUTIONS:

HCF has been proven to be non-toxic and non-skin irritating when tested in accordance with the Federal Hazardous Substances Labeling Act. However HCF contains epoxy resins and amine which may cause irritation to sensitive skin. Wear protective plastic gloves to be safe and wash your hands and any exposed skin with soap and warm water after use.

In case of eye contact, flush with water and consult a physician. It may be harmful if swallowed. Keep out of the reach of children.

WARRANTY:

All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct.

PERFORMANCE DATA:

WORKING LIFE	3 1/2 – 5 minutes
SHELF STABILITY	12 months min. @ 75°F(24°C)
SHORE D HARDNESS	80 after 24 hours
TEMPERATURE LIMITATIONS	250°F(121°C) continuous; 300°F(148°C) intermittent
CHEMICAL RESISTANCE	Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.
SHRINKAGE	Less than 1%
COMPRESSIVE STRENGTH	12,000 psi (844 kg/cm ²)

APPLICATION INSTRUCTIONS:

SURFACE PREPARATION: In order to achieve optimum adhesion, surfaces must be cleaned free of grease.

MIXING: Twist or cut off required amount. To mix, knead with fingers to a uniform color. If mixing is difficult, warm HCF to room temperature or slightly above.

FILLING: Shape into an oversized doughnut and force into equipment bolthole with a putty knife. Insert cap screw through washer and

doughnut and tighten before hardening begins (within two minutes of mixing). Strike off excess material, preferably with a tool wetted with clean water. HCF sets up in 30 minutes and the cure time is 24 hours.

