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RE: Hangs Tuff™ Recommended Safe Working Loads

Sioux Chief Manufacturing Co., Inc. Hangs Tuff™ product can safely be used in a variety of applications and installation positions. The following are all satisfactory installation techniques for Hangs Tuff™ per the manufacturer.

- Hang or support (cradle) for CTS and DWV pipe from 1/2" CTS up to 4" DWV.
- Sideways to support vertical pipe or tube runs for sump pump discharge lines, vent lines, drainage lines, pressure tube, etc.
- Installed in an inverted position to support pipe in tight or low clearance applications when cradling is not possible. This application is limited. See chart below.

Hangs Tuff™ is the sole "j-hook"-type hanger that allows the contractor to execute all three types of applications because of the design feature we refer to as the "Locking Finger". This Locking Finger allows the pipe to be snapped into the Hangs Tuff™ and acts to hold the pipe in the Hangs Tuff™. No other product has this unique feature.

Hangs Tuff™ & Hangs Tuff™ Jr. material specifications:

Hook Material: ABS – U.V. resistant, corrosion proof, impact resistant
 Nail: 1-5/8" rust resistant, zinc coated, yellow irradiate, continuous ring-shank
 Temperature Rating: Maximum safe temperature 160°F (71°C)

Hangs Tuff™ Jr.
 Copper Tube Sizes (CTS)
 SAFE* WORKING LOADS

SIZE	CRADLED	INVERTED
1/2"	55 lbs.	12 lbs.
3/4"	45 lbs.	12 lbs.
1"	35 lbs.	12 lbs.
1-1/4"	30 lbs.	12 lbs.

Note: Tests conducted @ 140°F

Hangs Tuff™
 Drain, Waste & Vent Sizes (DWV)
 SAFE* WORKING LOADS

SIZE	CRADLED
1-1/2"	40 lbs.
2"	50 lbs.
3"	45 lbs.
4"	40 lbs.

Note: Tests conducted @ 140°F

Approved Applications ¹		
INVERTED	DRAIN & WASTE	VENT
15 lbs.	Yes	Yes
15 lbs.	Yes	Yes
15 lbs.	No	Yes
15 lbs.	No	Yes

WEIGHT OF PIPE

SIZE	WEIGHT PER FOOT (LBS)			WEIGHT OF PIPE SECTIONS (LBS)	
	EMPTY	FULL OF WATER		EMPTY	FULL OF WATER
1/2" CTS	.28	.365	Six Foot Sections	.84	2.2
3/4" CTS	.45	.64		2.7	3.9
1" CTS	.66	1.00		4.0	6.0
1-1/4" CTS	.88	1.41		5.3	8.5
1-1/2" DWV	.36	1.4		1.44	5.6
2" DWV	.48	2.1	Four Foot Sections	1.92	8.2
3" DWV	1.00	4.6		4.0	18.4
4" DWV	1.42	7.5		5.68	30.0

Note: CTS pipe is Type L copper
 DWV Pipe is Foam Core PVC

*SAFE LOAD determined by 1/2 of Failure Load

¹ Approved Applications of Inverted DWV Sizes of Hangs Tuff
 Assuming that all applications for DWV are 4-ft. sections, only the 3" and 4" DWV Hangs Tuff™ are not recommended for inverted applications to drainage or waste piping where the pipe may be intermittently full of water. All DWV sizes of Hangs Tuff™ may be used in suspending vent piping with the hanger in the inverted position.

SALES

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