

# TECHNICAL BULLETIN

## PIPE HANGERS

HangsTuff™

**SUBJECT:** HangsTuff™ Safe Working Loads

**DATE:** August 2017

**PAGE:** 1 of 1

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

- Hang or support (cradle) for CTS and DWV pipe from ½" 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.

HangsTuff™ is the only “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 HangsTuff™ and acts to hold the pipe in the HangsTuff™. No other product has this unique feature.

### HangsTuff™ & HangsTuff 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)

#### HangsTuff™

Drain, Waste & Vent Sizes (DWV)

##### SAFE\* WORKING LOADS

Approved Applications<sup>1</sup>

SIZE	CRADLED	INVERTED	DRAIN & WASTE	VENT
1½"	40 lbs.	15 lbs.	Yes	Yes
2"	50 lbs.	15 lbs.	Yes	Yes
3"	45 lbs.	15 lbs.	No	Yes
4"	40 lbs.	15 lbs.	No	Yes

Note: Tests conducted @ 140° F

#### HangsTuff Jr.™

Copper Tube Sizes (CTS)

##### SAFE\* WORKING LOADS

SIZE	CRADLED	INVERTED
½"	55 lbs.	12 lbs.
¾"	45 lbs.	12 lbs.
1"	35 lbs.	12 lbs.
1¼"	30 lbs.	12 lbs.

Note: Tests conducted @ 140° F

### WEIGHT OF PIPE

SIZE	WEIGHT PER FOOT (LBS)			WEIGHT OF PIPE SECTIONS (LBS)	
	EMPTY	FULL OF WATER		EMPTY	FULL OF WATER
½" CTS	.28	.365	Six Foot Sections	.84	2.2
¾" CTS	.45	.64		2.7	3.9
1" CTS	.66	1.00		4.0	6.0
1¼" CTS	.88	1.41		5.3	8.5
1½" DWV	.36	1.4	Four Foot Sections	1.44	5.6
2" DWV	.48	2.1		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 ½ of Failure Load  
<sup>1</sup>Approved Applications of Inverted DWV Sizes of HangsTuff™  
Assuming that all applications for DWV are 4-ft. sections, only the 3" and 4" DWV HangsTuff™ are not recommended for inverted applications to drainage or waste piping where the pipe may be intermittently full of water. All DWV sizes of HangsTuff™ may be used in suspending vent piping with the hanger in the inverted position.

The information contained herein is believed to be reliable, but no representations, guarantees, or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be attained therefrom. Before using, the user shall determine suitability of the information for the user's intended use and shall assume all risk and liability in connection therewith. Installation shall comply with local codes where applicable. **To The Extent Permitted By Law, Sioux Chief Disclaims All Warranties, Express Or Implied, Including But Not Limited To Any Implied Warranties Of Merchantability or of Fitness For A Particular Purpose.**