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## TECHNICAL BULLETIN

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**DATE:** October 19, 2009

**RE:** **Hangs Tuff™ or Zip Stick™ - Embedded in concrete pours**

Sioux Chief Manufacturing produces Hangs Tuff™ and Zip Stick™ hangers for supporting DWV pipe.

The most common application is to install the hangers from floor or ceiling joists with the ring-shank nails that we provide with each hanger.

Installers may also invert the Hangs Tuff to raise the pipe when necessary to achieve proper slope. The stem of each hanger is marked and nail holes are placed 1" increments on one side of the stem, and ½" increments on the adjacent side of the stem.

Another acceptable installation is using the Hangs Tuff or Zip Stick as a support for DWV piping before pouring concrete where the stem will be permanently embedded in the concrete and the cradle/hook/loop are positioned below the slab.

Hangs Tuff and Zip Stick stems are made from 100% corrosion-proof ABS; the I-beam stem design provides strength and rigidity. Should soil or earth from beneath the concrete shift or disappear over time, we are confident that our hangers' ability to support the pipe, as long as the pipe does not exceed hanger's load ratings when embedded in concrete is acceptable. The hangers are *not* designed however, to support the weight of concrete that may cave in or collapse over time. Please find load ratings below:

<b>Hangs Tuff™ Safe Working Loads</b>				
Size:	1-1/2"	2"	3"	4"
Cradle	40-lbs	50-lbs	45-lbs	40-lbs
Inverted	15-lbs	15-lbs	15-lbs	15-lbs

Load based on hangers installed every 4-feet

<b>Zip Stick™ Safe Working Loads</b>	
Temperature	Weight
32°F	50 lbs
72°F	50 lbs
140°F	25 lbs.

Load based on hangers installed every 4-feet.

If this bulletin does not satisfy your concerns regarding installations please do not hesitate to contact us at (800) 821-3944. Thank you for your time and interest in our products.

Sincerely,

Carol Flanagan  
 Product Group Director – Support & Tools

