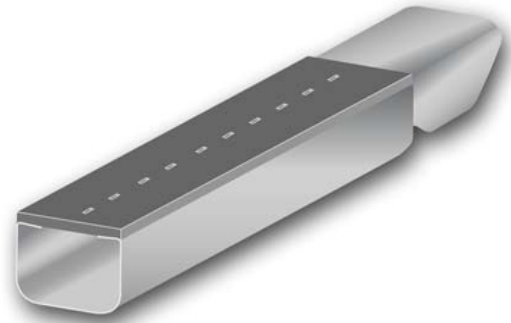
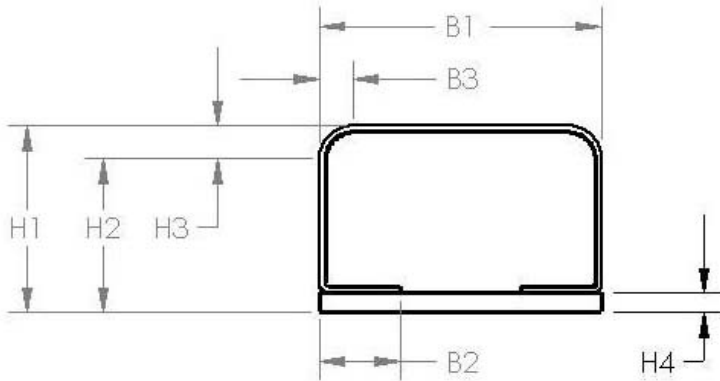


TOPIC: FENZI THERMALEDGE (Hygrade Metal) Spacer Technical Specifications	DATE: January 2010
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1. Spacer Properties

Cross Section and Tolerances



Description	Air Space Height * Fixed	PIB Flange * Fixed	Spacer Back Fill Cavity * Fixed	Thermal Bridge Thickness	Air Spacer Width * Varies	Metal Spacer Lip * Fixed	Spacer Cavity Back Fill
Spacer Bar Width	H1 +/- .05	H2 +/- .003	H3	H4 + / - .003	B1 +/- .005	B2 + / - .010	B3
1/4	.285	.215	.067	.036	.250	.105	.067
3/8	.285	.215	.067	.036	.375	.105	.067
7/16	.285	.215	.067	.036	.438	.105	.067
1/2	.285	.215	.067	.036	.500	.105	.067
17/32	.285	.215	.067	.036	.531	.105	.067
9/16	.285	.215	.067	.036	.563	.105	.067
5/8	.285	.215	.067	.036	.625	.105	.067
11/16	.285	.215	.067	.036	.688	.105	.067
3/4	.285	.215	.067	.036	.750	.105	.067

***Please Note:**

Dimensions fixed, with only the spacer width varying
 Chrome steel thickness fixed at .008 +/- .005

Description		Internal Test Method
1.2	Spacer geometry /shape The spacer geometry shape is shown in the cross section picture above. Tolerances shown above	Go / No Go gauge
1.3	Length and straightness Standard length is 13 feet +/- .25 inches. Straightness deviation .125	Steel Ruler Visual
1.4	Plastic Rigid PETG bridge applied to perforations in the metal with heat	90° Bend Test
1.5	Perforation See comments below ** Perforations are typically spaced at .275 distance on center	Visual inspection

****1.5 Level of perforation**

The Fenzi Warmedge (Hygrade Metal) standard perforation in the vinyl bridge will absorb moisture vapor, regardless of spacer width as perforations fixed

**** 1.5 Function of the perforation**

The perforation holes are able to detain dust from the desiccant, from entering the air space.

2. Spacer Material

2.1	Material Chrome Steel PETG Plastic Extrusion Available in white, black and light & dark grey colors	
2.2	Surface The surface is clean and free of contaminates, free of any chemicals.	Visual test & Adhesion test
2.3	Tolerances of the material The wall thickness of the metal spacer is at .008 +/- .005	Measure with gauge
2.4	Lubrication During the roll forming process, some lubrication is used. The lubrication is cleaned off and will evaporate, leaving the surface without any volatile elements.	Adhesion test
2.5	Volatile elements Volatile elements are tested by Dallas Laboratories, Dallas, TX	Industry Standard Outgas Testing

3. Quality Aspects

Quality Management

Fenzi Warmedge (Hygrade Metal) spacer has many customers IGMAC / IGMA certified. It is currently listed in the IGMA Directory of Spacer Components.

Tests of the Product

Processes and routines are established to secure the quality of the delivered materials to our customers. During the production process the spacers are constantly monitored through random checks for consistency in the finished spacer materials.

4. Customer Focus

To secure the performance of the spacers and maintain stock levels of finished goods at an acceptable amount. To continue to focus on our customers needs and develop additional products to meet these needs.