

### Customer Value Proposition:

Parker Chomerics foreign object debris (FOD) free electromagnetic interference (EMI) shielding honeycomb vents provide custom attenuation and airflow solutions to applications with sensitivity to debris contamination. Extending upon traditional EMI vent offerings, numerous mechanical design and plating composition variations ensure the ability to replace existing designs with minimal application redesign and rework requirements, while also providing effective solutions for new to world applications. Customers can expect to see up to a 25% total cost of ownership reduction through improvements with assembly, as well as rework, inspection, and redesign avoidance.

### Features:

- 100% FOD free.
- Numerous design options offer the ability to obtain equivalent geometric and technical performance when compared to traditional EMI vent designs.
- Traditional EMI vent base-metal (brass, steel, stainless steel, aluminum and plating (e. nickel, tin, tin-lead, chem-film) options available.

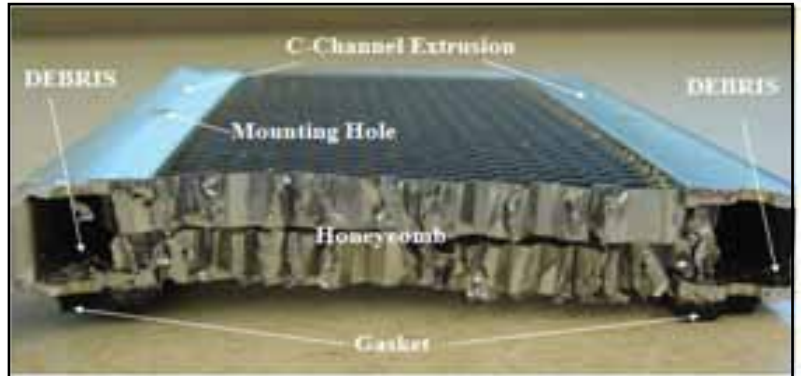
### Benefits:

- 100% FOD free designs ensures the elimination of debris contamination and associated system reworks.
- Numerous design offerings ensure solutions can be provided for any existing or new-to-world requirements.
- Geometric and performance (attenuation, airflow, structural integrity, etc.) equivalency ensures expensive application reworks and qualifications can be avoided.

### Applications:

- IT cabinets
- Portable shelters
- Electronics enclosures
- Optical assemblies

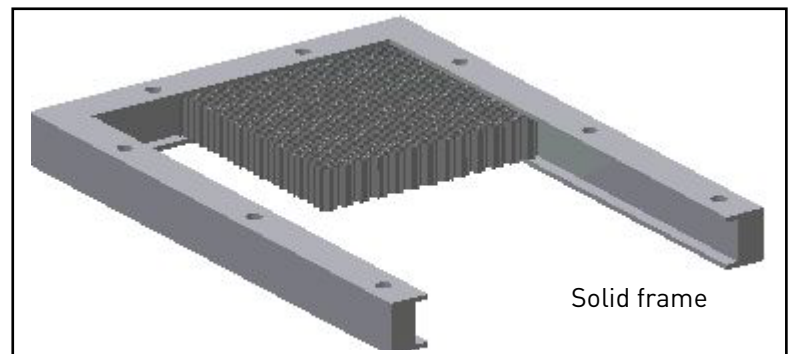
Historical C-Channel construction:



### Design Options:

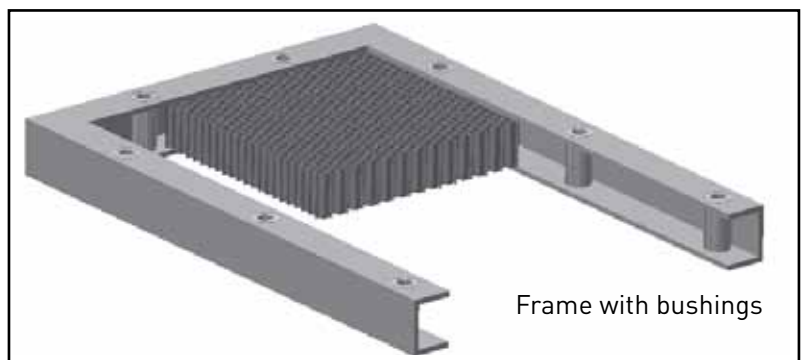
#### 1. Solid frame extrusion

- Eliminates hollow c-channel along outer section of frame.
- Drilling through the solid section avoids trapping debris in a hollow channel.
- Ideal for aluminum frames, so weight increase is minimized.



#### 2. Bushings/standoffs inserted at mounting hole locations.

- Eliminates hollow c-channel at mounting hole location, avoiding trapping debris from drilling process.
- Minimizes weight increase, by allowing hollow c-channel to remain between hole locations.
- Ideal for more dense frame materials, such as, brass and steel.



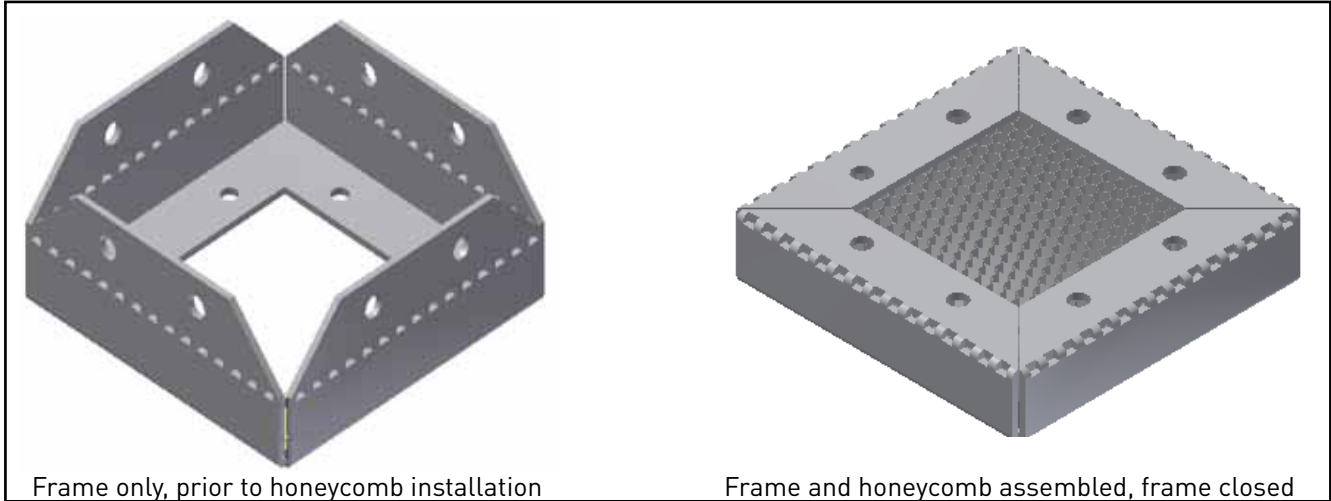
# Foreign Object Debris (FOD) Free Honeycomb Vent Solutions

## Application Note



### 3. Stamped, enveloped frame

- Mounting holes are pre-stamped, eliminating drilling process all together.
- Flaps are folded after honeycomb is installed.
- Often no increase in weight.



### 4. Weight minimizing frame

- Material eliminated between solid sections where mounting hole are drilled.
- Allows for a contiguous frame, rather than having integrated bushings/standoffs as with design option (3).
- Minimizes weight increase, by allowing hollow c-channel to remain between hole locations.
- Ideal for more dense frame materials, such as, brass and steel.



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