

KoldLok® Extended Raised Floor Grommets



Item Nos. 4010 and 10002



Item Nos. 4020 and 10003

Applications

Designed to seal a variety of existing perimeter openings, with the added flexibility of modification for large and unique openings.

Based on measurements at multiple data centers, 50-80% of valuable conditioned air is not reaching the air intake of IT equipment due to unsealed floor openings. This lost air, known as bypass airflow, contributes to IT equipment hot spots, cooling unit inefficiencies, and increasing infrastructure costs. KoldLok products specifically address bypass airflow and its detrimental effects on data center cooling.

Benefits

- Increases existing cooling unit capacity
- Reduces the need to purchase additional cooling units
- Improves equipment reliability and extends equipment life
- Increases static pressure under the raised floor and improves cool air delivery through perforated tiles and floor grates
- Facilitates Cold Aisle/Hot Aisle best practices

Features

The Grommets can be modified to seal unique cable openings.

The Grommets integrate with the raised floor static dissipation system, providing 1 GigaOhm of resistance.

The Grommets contain no loose or partially fastened parts, which can become separated or fall through the raised floor.

KoldLok products are compliant with Directive 2002/95/EC of the European Parliament and the Council on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).

Specifications

Dimensions and Tile Cutting Requirements	Inches (W x D x H)	Millimeters (W x D x H)
Overall size (Item No. 4010)	24 x 6 x ¾ *	610 x 152 x 19 *
Maximum cutout size sealed	22 x 5	559 x 127
Usable cable area	22 x 2½	559 x 64
Overall size (Item No. 4020)	24 x 9 x ¾ *	610 x 229 x 19 *
Maximum cutout size sealed	22 x 8	559 x 203
Usable cable area	22 x 5½	559 x 140
Overall size (Item No. 10002)	23⅝ x 6 x ¾ *	600 x 152 x 19 *
Maximum cutout size sealed	21¼ x 5	540 x 127
Usable cable area	21 x 2½	533 x 64
Overall size (Item No. 10003)	23⅝ x 9 x ¾ *	600 x 229 x 19 *
Maximum cutout size sealed	21¼ x 8	540 x 203
Usable cable area	21 x 5½	533 x 140
	*1 with mounting system installed	*25 with mounting system installed

Patented Sealing System (U.S. Patent No. 6,632,999 and International patents pending)

Multi layer, opposing and interwoven filaments consisting of:

- 0.010" diameter upper filaments for Item Nos. 4010 and 10002
- 0.020" diameter lower filaments for Item Nos. 4010 and 10002
- 0.020" diameter upper filaments for Item Nos. 4020 and 10003
- 0.036" diameter lower filaments for Item Nos. 4020 and 10003
- Approximately 34,000 filaments for Item Nos. 4010 and 10002
- Approximately 10,000 filaments for Item Nos. 4020 and 10003
- Static dissipative properties
- Premium-grade nylon Type 6, ensuring flexibility and self-sealing recovery

Sealing Effectiveness

- 100% bypass-airflow sealing in areas undisturbed by cable penetrations at static pressures up to 0.10 inches of water column

- 100% bypass-airflow sealing with four ½ inch cables penetrating the Grommet at the static pressure required to cool up to 3 kW/cabinet
- 95% bypass-airflow sealing with four ½ inch cables penetrating the Grommet at a static pressure of 0.50 inches

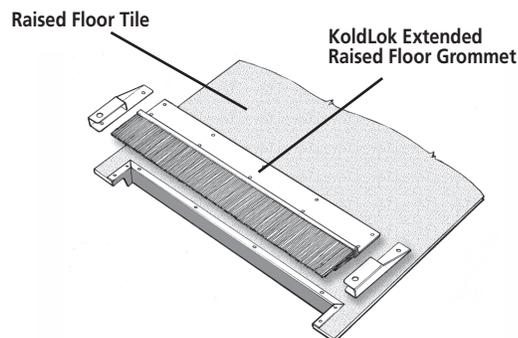
Floor Mounting System

Standard self-tapping screws or custom adhesive mounting kit consisting of:

- Double-sided, pressure sensitive foam with adhesive backing
- Polyethylene foam buttons for static dissipation
- All foam components are non-particulating

Other Materials

- Filament holder: anodized aluminum alloy, black finish
- End Caps: 18 gauge cold rolled steel, black powder coat finish, with static dissipative properties



The Grommets can be disassembled for custom modification

