

Gasketing and Edge-sealing Materials for Fire Doors, Positive-pressure Tested

COMPANY

PEMKO MFG

4226 TRANSPORT ST

PO BOX 3780

VENTURA, CA 93006-3780 United States

R14369

Astragal/Meeting Stile Types: 297PK, 297S, 297V, 303PK, 303S, 303V, 305N, 316PK, 316S, 316V, 332N, 351N, 351P, 351PK, 351S, 351V, 352, 355PK, 355S, 357, 369P, 369P4, 369PK, 3692PK, 369PK773, 369S, 369V, 3572, 5025NB, 5041NB, 5061NB, 5100NB, 18041NB, 18061NB, 18062NB, 29310P, 29310PK, 29310S, 29310V, 29324NB, 29326NB, S771, S772, S1125 - Category J gaskets for use with listed steel frames and/or classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes.

Astragal/Meeting Stile Types: 297PK, 297S, 303PK, 303S, 316PK, 351S, 351PK, 355S, 369S, 369PK, 369PK773, 29310PK, and 29310S - Category H gaskets for use with Listed steel frames and/or Classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes.

Automatic Door Bottom Types: 405V, 420VL - Category J gaskets for use on classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes. Model 420VL to be used with only the hollow metal doors.

Automatic Door Bottom Types: 411NBL, 411PKL, 411RL, 411SL, PDB411, PDB4131, 412PKL, 412RL, 412SL, 420PKL, 420SL, 430MRL, 430MPKL, 430PKL, 430RL, OS434NBL, OS434PKL, OS434RL, 434NBL, 434PKL, 434RL, 510, 530, 4301NBL, 4301PKL, 4301RL, OS4301NBL, OS4301PKL, OS4301RL, 4131NBL, 4131PKL, 4131RL, 4131SL, PDB411NB, PDB4131NB, STC411, STC4131- Category J and H gaskets for use with classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes without hose stream. Models 420 PKL and 420 SL are to be used with only the hollow metal doors.

Automatic Security Door Bottom: 510, STC510, 530.

Brush Types for use as perimeter seals, door bottom sweeps and in pairs as split astragals, rolling steel and passenger elevator type fire doors, 345NB, 3452NB, 5025NB, 5041NB, 5061NB, 5100NB, 18041NB, 18061NB, 18062NB, 18100NB, 18137NB, 18175NB, 18250NB, 18400NB, 18950NB, 283200NB, 29324NB, 29326NB, 29344NB, 29346NB, 29366NB, 35041NB, 35061NB, 45041NB, 45061NB, 45062NB, 45100NB, 45137NB, 45175NB, 45250NB, 45400NB, 90062NB, 90100NB, 90137NB, 283200NB - Category J gaskets for use with listed steel frames and/or classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes.

Brush Types for use as door bottom sweeps 18041NB, 18061NB, 18062NB, 18100NB, 18137NB, 18175NB, 18250NB, 18400NB, 18950NB, 29324NB, 29326NB, 45041NB, 45061NB, 45100NB, 45137NB, 45175NB, 45250NB, 45400NB, 90062NB, 90100NB, 90137NB, 293100NB - Category J and H gaskets for use with classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes without hose stream.

Door Shoe/Sweep Types: 209V, 210PK, 210V, 211PK, 211V, 215PK, 215V, 216PK, 216V, 217PK, 217V, 220PK, 220V, 221PK, 221V, 222PK, 222V, 225V, 225PK, 234PK, 234V, 307V, 307PK, 308V, 308PK, 309P, 315N, 321N, 345NB, 346, 368N, 2163V, 2203V, 2211PK, 2211V, 2212PK773, 2221PK, 2221V, 2251V, 2251PK, 345V, 345PK, 3452NB, 3452V, 3452PK, 5041NB, 5061NB, 18041NB, 18061NB, 18062NB, 18100NB, 18137NB, 18175NB, 18250NB, 18400NB, 18950NB, 283200NB, 29324NB, 29326NB, 29326V, 29344NB, 29346NB, 29366NB, 3692PK773 - Category J gaskets for use with listed steel frames and/or classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes.

Door Shoe/Sweep Types: E199 - Category J gaskets for use with listed wood core doors rated for 20 minutes.

Door Shoe/Sweep Types: 209V, 210PK, 210V, 211PK, 211V, 215PK, 215V, 216PK, 216V, 217PK, 217V, 220PK, 220V, 221PK, 221V, 222PK, 222V, 225V, 225PK, 234V, 307V, 307PK, 308V, 308PK, 309P, 315N, 321N, 368N, 2113V, 2163V, 2170V, 2173V, 2203V, 2211PK, 2211V, 2212PK773, 2221PK, 2221V, 2251V, 2251PK, 2343V, 345V, 3452PK, 3452V, 18061NB, 18100NB, 223NB, 2230NB, 293100V, 293100NB, 3692PK773 - Category J and H gaskets for use with classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes without hose stream.

Hot Smoke Seal Type: HSS2000 Category G Edge Sealing System for use with Category B wood and plastic covered composite doors rated up to and including 1 1/2 hour and Category B wood core doors rated 20 minutes without hose stream. Also suitable as a category J gasket for use with Listed steel frames and/or Classified steel covered composite, hollow metal doors rated up to 3 hrs.

Hot Smoke Seal Type: HSS1000 Category G Edge Sealing System for use with Category B wood and plastic covered composite doors rated up to and including 1 hour.

Hot Smoke Seal Type: HSS2000 perimeter seal with Pemko lite kit in steel covered fire doors rated up to and including 1 1/2 hours.

Perimeter Seal Types: PK33, PK52, S52, PK55, S44, S442, S77, S88, S99, Q102, Q103, Q106, S104, S105, Q107, Q108, S109, 285PK, 285R, 290PK, 290S, 290V, 294V, 296PK, 296R, 296S, 297PK, 297S, 297V, 303PK, 303S, 303V, 305N, 305R, 305S, 305SSE, 305SSR, 305SSS, 306Q, 306V, 309P, 312R, 315BR, 315SSR, 316PK, 316S, 316V, 319N, 319R, 319S, 321N, 322N, 322SN, 322PK, 322SPK, 329N, 330ES, 330V, 332R, 332S, 332SSR, 345NB, 350PK, 350R, 350SPK, 350SR, 368N, 375R, 379PK, 379R, 379S, S771x6, S773, S776, 2891PK, 2891S, 2891V, 2892V, 2893V, 2902V, 2903V, 3151R, 3452NB, 5025NB, 5041NB, 5061NB, 5100NB, 18041NB, 18061NB, 18062NB, 18100NB, 18137NB, 18175NB, 18250NB, 18400NB, 18950NB, 29045NB, 29310NB, 29310P, 29310PK, 29310S, 29310V, 29313PK, 29324NB, 29326NB, 29344NB, 29346NB, 29366NB, 35041NB35061NB, 45041NB, 45061NB, 45062NB, 45100NB, 45137NB, 45175NB, 45250NB, 45400NB, 90062NB, 90100NB, 90137NB, 283200NB, 293100NB, AM44, AM88 - Category J gaskets for use with listed steel frames and/or classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes.

Self Adhesive Types: PK33, PK55, S44, S442, S77, S771, S771x6, S772, S773, S776, PF114, S88, S99, S1125, AM44, AM88 - Category J gaskets for use with listed steel frames and/or classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes .

Self-Adhesive Perimeter Seal Type: S88, S773, AM88 Category G Edge Sealing System for use with Category B wood core doors rated 20 minutes without hose stream.

Smoke and Draft Control Types: PK33, PK52, S52, S44, S442, S77, S771, S771x6, S88, S99, 303S, S773, S776, S1125, 18062NB, 45062NB - Category H gaskets for use with listed steel frames and/or classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes without hose stream.

Smoke and Draft Control Types - Perimeter Seals - 375R - Category H Gasket for use with listed steel frames and/or classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes without hose stream.

Stop Strip Types: 184, 184S, 184T, 290STOP, 290SSTOP, 290PKSTOP, 1842, 1842PK, 1842S - Category J gaskets for use with listed steel frames and/or classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes.

Threshold Types: 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A, 11A, 12A, 14/1, 18/1, 140, 141, 142, 145, 149, 151, 153, 154, 154SS, 156, 157, 158, 158SS, 159, 159T, 159V, 159P, 160, 161, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 175, 175SS, 176, 177, 177P, 177S, 177T, 177V, 179, 179P, 179S, 179T, 179V, 180, 180S, 181, 181P, 181S, 181T, 181V, 182, 183, 184, 185, 188, 189, 190, 191, 192, 193, 194, 195, 196, 198, 200, 205, 212, 213, 214, 218, 219, 227, 228, 229, 231, 233, 236, 246, 249, 250, 252, 252x226, 253x226, 254x226, 255x226, 253, 254, 254x4, 275, 254x5, 255, 255x5, 256, 256x2, 256x3, 256x4, 256x5, 256x6, 257, 270, 271, 272, 273, 274, 274x4, 276, 277, 277S, 278, 279, 282, 283, 290PKSTOP, 290SSTOP, 290VSTOP, 292, 566, 573, 573x5FG, 650, 651, 652, 670, 671, 672, 766, 1415, 1417, 1418, 1546, 1547, 1571, 1665, 1700, 1701, 1710, 1715, 1716, 1717, 1718, 1719, 1842, 1855, 1855S, 1855T, 1875, 1877, 1885T, 2001, 2001S, 2001T, 2005, 2005S, 2005T, 2005V, 2006, 2006T, 2006V, 2006PK, 2006STC, 2007, 2007T, 2007V, 2007PK, 2007STC, 2008PK, 2009PK, 2010PK, 2051, 2052, 2053, 2054, 2055, 2266, 2286, 2364, 2366, 2464, 2548, 2549, 2550, 2555, 2565, 2705T, 2705P, 2705V, 2715, 2716, 2727, 2727SS, 2746, 2746x3, 2746x4, 2746x6, 2748, 2749, 2750, 2755, 19125, 19125AK, 19325 - Category J gaskets for use with listed steel frames and/or classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes. Threshold Types 142 and 145 may be provided with the Models 61, 66 and 67 hooks.

Threshold Types:

These Models may be used in any combination 224, 226, 252, 253, 254, 255, 256S, 273, 274, 275, 278, 278, 292, 566, 766, 2746, 2749. These combinations may include a gasket or thermal key, where applicable, and may include any of the following designations, FG, P, PK, T, V.

Threshold Types: EV232*, EV2320*, EV2321*, EV2322*, EV2325*, EV2326*, ADJ232V8, ADJ232V14 - Category J gaskets for use with Classified swinging type fire doors of the hollow metal type or steel covered composite type fire doors, rated up to and including 1-1/2 hours or wood core fire doors rated up to 3/4 h.

Threshold Type: 252SSFG, 253SSFG and 254SSFG Series - Category J gaskets for use with listed steel frames and/or classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1 1/2 hours; and wood core doors rated for 20 minutes.

Thresholds may or may not contain gasketing material.

All products may have prefix or suffix letters to indicate material and finishes.

*Eco-V thresholds may be used in a variety of configurations, where the V2321 or EV2321 is used in conjunction with any end piece listed in this listing.

Combination edge sealing and smoke seal systems, Model Nos. HSS7750 [a], Category G / Category H Edge Seal / Smoke Seal and Draft Control Gasket for use with Classified Category B wood and plastic covered composite and wood core doors rated up to 1-1/2 hr., and Listed steel frames and/or Classified steel covered composite, hollow metal doors rated up to and including 3 hrs., up to 4'0" x 9'0" single swing and 8'0" x 9'0" standard pair. Also suitable as a Category J gasket.

Combination edge sealing and smoke seal systems, Model Nos. HSS7850 (c)

Edge sealing systems, Model No. XG10 (e)

[a] - Products may include additional suffix letters: BL, C, D, W.

(c) - May include suffix BL, GR, W, BR, T for color options.

(e) - May include suffix BL, GR, W, BR for color options.

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Gasketing and Edge-sealing Materials for Fire Doors, Positive-pressure Tested

[See General Information for Gasketing Materials for Fire Doors](#)

GENERAL

This category covers positive pressure tested gasketing materials for fire doors intended for installation on certified fire doors and/or certified fire door frames or in their thresholds, as specified in the individual certifications. The gasketing material is intended to be installed in accordance with the installation instructions packaged with the material.

Gaskets and edge seals are categorized as follows:

Category G Edge Sealing Systems — Edge seals are gasket materials that have demonstrated their ability to assist the door in meeting the positive pressure fire test requirements. They expand and fill the gaps around the door edges to prevent the passage of hot smoke and gases. These materials are required for Category B Swinging Type Fire Doors, Positive Pressure Tested ([GSZN](#)). Edge seals are surface applied to frames or doors. These seals may or may not affect the leakage (smoke) requirements for the smoke ("S") rating. Edge Sealing Systems are either certified for general use on all products in a door type family or limited to individual door manufacturers as noted in the individual certifications. Edge seals that are also smoke seals are denoted as Category G/Category H Edge Seal/Smoke and Draft Control Gasketing in the individual certifications.

Category H Smoke and Draft Control Gasketing — Gasketing materials that are surface applied to a door and frame assembly to comply with the requirements of [UL 10C](#), "Positive Pressure Fire Tests of Door Assemblies," and [UL 1784](#), "Air Leakage Tests of Door Assemblies." Smoke and draft control gasketing is either certified for general use on all products in a door type family or limited to individual door manufacturers as noted in the individual certifications.

Category J Gaskets — Gasket materials that are added to a door assembly for purposes other than Category G Edge Seals and Category H Smoke and Draft Control Gaskets. They are used for purposes such as weather stripping, sound control, etc. Category J Gasketing Materials have only been investigated to positive pressure with respect that they do not contribute to flaming during the fire test. They have not been evaluated for any contribution for a door assembly to help meet the positive pressure requirements.

Gasketing materials consist of a metal frame or a flexible material, either mechanically secured within a metal frame or housing or applied by means of a pressure sensitive adhesive to the perimeter of the certified fire door and/or certified door frame or installed within their thresholds, as specified in the individual certifications.

The gasketing material can be installed on the certified fire doors at the fire door and/or frame manufacturer's plant or at the job site. Category G materials are materials that assist with doors meeting the positive pressure test requirements. Category H Gasketing Materials for fire doors have been investigated only with respect to determination that the materials do not adversely affect the fire rating of fire doors in which they are installed. Category J Gasketing Materials have only been investigated with respect to determination that the materials do not adversely affect the fire rating of fire doors in which they are installed. Gasketing material identified for use at the meeting edges of pairs of doors is not intended to replace the astragal (if required by the door manufacturer) nor to alter the clearance between doors, as specified in ANSI/NFPA 80, "Fire Doors and Other Opening Protectives," or in the door manufacturer's installation instructions.

PRODUCT IDENTITY

The following product identity appears on the product:

Positive-pressure-tested Gasketing Material for Fire Doors

ADDITIONAL INFORMATION

For additional information, see Gasketing Materials for Fire Doors ([GVWZ](#)), Fire Door Accessories ([GVUW](#)), Fire Doors ([GSNV](#)) and Fire-resistance Ratings ([BXRH](#)).

REQUIREMENTS

The basic standard used to investigate products in this category is [UL 10C](#), "Positive Pressure Fire Tests of Door Assemblies."

The basic standard used to investigate products in this category for smoke and draft control gasketing is [UL 1784](#), "Air Leakage Tests of Door Assemblies."

UL MARK

The Certification Mark of UL Solutions on the product or on the smallest unit container in which the product is packaged is the only method provided to identify products manufactured under its Certification and Follow-Up Service. The [Certification Mark](#) for these products includes the UL symbol, the words "CERTIFIED" and "SAFETY," the geographic identifier(s), and a file number.

Additional Certification Markings

Products covered under this category are additionally marked with the following information:

**FOR APPLICATION TO + FIRE DOORS
RATED UP TO ++
CATEGORY +++**

+ HOLLOW-METAL-TYPE, WOOD-TYPE, FIBERGLASS-TYPE or COMPOSITE-TYPE

++ 4 H, 3 H, 1-1/2 H, 1 H, 3/4 H, 30 MIN or 20 MIN

+++ G, H or J

Alternate UL Mark

The Classification Mark of UL Solutions on the product or on the smallest unit container in which the product is packaged is the only method provided to identify products manufactured under its Classification and Follow-Up Service. The Classification Mark for these products includes the UL symbol, the word "CLASSIFIED" above the UL symbol, and the following additional information:

POSITIVE-PRESSURE-TESTED GASKETING MATERIALS FOR FIRE DOORS

FOR APPLICATION TO + FIRE DOORS

**RATED UP TO ++
CATEGORY +++**

Control No.

+ HOLLOW-METAL-TYPE, WOOD-TYPE, FIBERGLASS-TYPE or COMPOSITE-TYPE

++ 4 H, 3 H, 1-1/2 H, 1 H, 3/4 H, 30 MIN or 20 MIN

+++ G, H or J

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