

Materials & Finishes Information

METALS:

Pemko's extruded metal products are made from: 6063 and 6463 aluminum alloys, and CDA alloy C38500 architectural bronze (brass). Roll-formed metal products are made from stainless steel, high-strength special-purpose zinc alloy, 70-30 yellow brass or 85-15 red brass. Roll-formed aluminum weatherstripping is produced from various alloys selected for the particular properties required. 357SP is made from hot rolled galvanized steel; the 357SS is made from 304-stainless steel. (See finishes information below for all finish designations). If you do not see the option you require, please inquire with our customer service department about the feasibility of a custom finish.

STANDARD FINISHES:

- A** - Mill Finish Aluminum
- AK** - Mill Finish Aluminum w/PemKote™
- B** - Mill Finish Extruded Bronze (Brass)
- BDC** - Bright Dip Clear Anodized Aluminum
- BDG** - Bright Dip Gold Anodized Aluminum
- C** - Clear Anodized Aluminum
- CB** - Cladded Brass
- D** - Dark Bronze Anodized Aluminum
- G** - Gold Anodized Aluminum
- K** - PemKote™ (on aluminum or bronze)
- PA** - Mill Finish Aluminum
- PD** - Painted Dark Bronze Aluminum
- PG** - Painted Gold Aluminum
- PW** - Painted White Aluminum
- S** - Cladded Stainless Steel
- SN** - Satin Nickel Anodized Aluminum
- SP** - Galvanized Steel
- SS** - Stainless Steel (see individual part for finish)
- Z** - Zinc Metal

SPECIAL ORDER FINISHES:

- Champaigne
- Light/Medium Dark Bronze
- Painted Aluminum (any color)
- Polished Aluminum, Uncoated
- Polished Bronze, Uncoated
- Satin Brushed Aluminum, Uncoated
- Satin Brushed Bronze, Uncoated
- Oxidized and Oil Rubbed Bronze

FINISH OPTIONS:

- PemKote™
- Anodized (clear, light/medium dark bronze, black, champaigne, gold)
- Chrome Plate
- Prime Coat
- Pewter Finish for Aluminum
- Polish/Buf Brass
- Polish/Buf Aluminum
- Satin Buff Brushed Brass
- Oxidized & Oil Rubbed L-metal (ANSI/BHMA 722)
- Oxidized & Oil Rubbed L-metal (custom finish)
- Oxidized & Oil Rubbed Thresholds (ANSI/BHMA 722)
- Oxidized & Oil Rubbed Thresholds (custom finish)
- Oxidized & Oil Rubbed Weatherstrip (ANSI/BHMA 722)
- Oxidized & Oil Rubbed Weatherstrip (custom finish)

ADHESIVE GASKETING and REPLACEMENT VINYL FINISHES:

- BL** - Black
- C** - Clear
- D** - Dark Brown
- GR** - Light Gray
- TAN** - Tan
- W** - White

HINGE FIREPIN FINISHES:

- B** - Black Oxide
- Z** - Zinc

LITES & LOUVERS FINISHES:

- B** - Beige Powder Coat
- D** - Dark Bronze Duranodic Powder Coat
- G** - Gray Primer Powder Coat

INSERTS:

Pemko manufactures many products with gasketing inserts (seals). Some products are made completely from non-metallic materials. Please refer to specific parts throughout the catalog for complete information. SiliconSeal™ (S) and PemkoPrene™ (PK) attributes can be found in the Self-Adhesive Gasketing section. All vinyl (V) parts and inserts are extruded from the highest quality vinyl and comply with all the requirements specified in Commercial Standard CS 230-60, as developed by the U.S. Department of Commerce. (See insert information below for all insert (seal) designations). Also, the available inserts (seals) for each individual product are shown adjacent to each individual product.

- F** - Felt
- M** - Magnetic
- N** - Neoprene
- NB** - Nylon Brush
- P** - Pile
- PK** - PemkoPrene™
- Q** - Kerf-in Foam
- R** - Sponge Neoprene
- S** - SiliconSeal
- SB** - Soft Brush
- T** - ThermoSeal™
- TF** - Triple Foam
- V** - Vinyl

COMPONENT OPTIONS:

- Aluminum Pan, 3-1/2", for Water Return Thresholds*
- Brass Pan, 3-1/2", for Water Return Thresholds*

* Additional widths available upon request

FABRICATION OPTIONS:

Pemko offers many fabrication options to fit specific job requirements including beveling special cuts, rips, tack welds, lead lining, L-notches, U-notches, half notches, full notches, drill, mill and drill, as well as single and double miter returns. Please consult our Customer Service and/or Engineering departments for details. Custom fabrications are subject to engineering design costs and are quoted on a time and material basis.

- Bevel One Edge
- Cut Thresho-Sill Nosing Flush
- Leadline Leadline of Astragals
- Rip Width
- Tack Weld One Line
- Tab Welded Tab & Screw
- Support Leg For Elevated Plates 3" CC (Center to Center)
- L-Notch Both Ends of Threshold
- U-Notch Both Ends of Threshold
- Drill Thresho-Sill (Add "H" to Prod. #)
- Mill & Drill Thresho-Sill (Add "M" to Prod. #)
- Miter1 Single, One End of Threshold
- Miter2 Single, Both Ends of Threshold
- Miter1 Double, One End of Threshold
- Miter2 Double, Both Ends of Threshold
- Half Notch 1/2", Door Shoe, Both Ends, Drip Only
- Full Notch 1/2", Door Shoe, Both Ends
- Half Notch 3/4", Door Shoe, Drip Only, Both Ends
- Half Notch 5/8", Door Shoe, Drip Only, Both Ends
- Half Notch 9/16", Door Shoe, Drip Only, Both Ends
- Weepholes All Door Shoes
- WPS-SSL Side Light Adapter
- WPS-DSL Double Side Light Adapter

FABRICATION OPTIONS IMPORTANT NOTE: Complicated fabrications are quoted based on time and materials.

Materials & Finishes Information (Cont.)

FASTENER OPTIONS:

Most products are furnished with standard fasteners. Please refer to specific products or product categories for standard fastener details. When specified, Pemko will furnish special types of available screws and anchors at an extra cost.

Automatic Door Bottom Kits:

K411	Kit for 411 Door Bottom
K412PA	Kit for 412 Door Bottom - Aluminum Finish
K412PD	Kit for 412 Door Bottom - Dark Bronze Finish
K412PG	Kit for 412 Door Bottom - Gold Finish
K420	Kit for 420 Door Bottom
K430MPA	Kit for 430 Door Bottom - Aluminum Finish (Mortised App.)
K430MPD	Kit for 430 Door Bottom - Dark Bronze Finish (Mortised App.)
K430MPG	Kit for 430 Door Bottom - Gold Finish (Mortised App.)
K430PA	Kit for 430 Door Bottom - Aluminum Finish (Surface App.)
K430PD	Kit for 430 Door Bottom - Dark Bronze Finish (Surface App.)
K430PG	Kit for 430 Door Bottom - Gold Finish (Surface App.)

Hinge Fasteners:

KCCP	Kit for Center Pivot Continuous Hinge - Clear Finish
KCFS	Kit for Full & Half-Surface Continuous Hinge - Clear Finish
KDCP	Kit for Center Pivot Continuous Hinge - Dark Bronze Finish
KDFS	Kit for Full & Half-Surface Continuous Hinge - Dark Bronze Finish

Anchors:

ES10L	#10-24 x 3/4", Lead Expansion Shields
ES14L	1/4-20 x 3/4", Lead Expansion Shields
LS10L	#10-12-14 x 1" Lead Shield
PLA580-3	#10-12 x 1" Plastic Expansion Shield (3 per pack)

Machine Screws:

MS10100Z	#10-24 x 1" Machine Screw, Zinc
MS10150Z	#10-24 x 1-1/2" Machine Screw, Zinc
MS10200Z	#10-24 x 2" Machine Screw, Zinc
MS14150Z	1/4-20 x 1-1/2" Machine Screw, Zinc
MSE10Z3	#10-24 x 1-1/2" Machine Screw, Zinc (3 pack w/ Exp. Shield)
MSE25Z3	1/4-20 x 1-1/2" Machine Screw, Zinc (3 pack w/ Expansion Shield)
MS12044Z40	#12-24 x 7/16" Machine Screw, FHUC Self Tap #3 Phillips, Zinc, 42 pack, Hinge Fastener
MS&ES10	#10 Machine Screws & Expansion Shields
MS&ES25	1/4-20 Machine Screws & Expansion Shields
SS/MS&ES10	#10 Stainless Steel Machine Screws & Expansion Shields
SS/MS&ES25	1/4-20 Stainless Steel Machine Screws & Expansion Shields
MS10	#10 Machine Screws Only (No Anchors)
MS25	1/4-20 Machine Screws Only (No Anchors)
SS/MS10	#10 Stainless Steel Machine Screws Only
SS/MS25	1/4-20 Stainless Steel Machine Screws Only

Nails:

NL13516Z	#13 x 5/16" Weatherstrip Nail
NL16345S	#16 x 3/4" Stainless Steel Weatherstrip Nail
NL1678Z	#16 x 7/8" Weatherstrip Nail - Flat Head
SCNL578Z	#5 x 7/8" Screw Nail

Sheet Metal Screws:

SMS6585S	#6 x 5/8" Stainless Steel Sheet Metal Screw
SMS10100	#10 x 1" Sheet Metal Screw - Phillips Flat Head
SMS634TRSS	#6 x 3/4" Stainless Steel Phillips Truss Head
SMS12150BL20	#12 x 1-1/2" Sheet Metal Screw, 21 pack

Concrete Screws:

Concrete1.25	#10x1-1/4" Concrete Screws Phillips Flat Head
Concrete1.75	#10x1-3/4" Concrete Screws Phillips Flat Head

TEK Screws:

TKS6585S	#6x5/8 Stainless Steel TEK Screw, Pan Head
TKS1234UCBL21	#12x3/4" TEK Screw, Phillips Flat Head, Undercut Hinge fastener, 21 pack

Thru Bolts:

TB1420MSZ	1/4-20 Thru Bolt with Machine Screw
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TORX Screws:

TORXMS10150Z	#10 x 1-1/2" Flat Head Torx Machine Screw
TORXSM6345S	#6 x 3/4" Stainless Steel Sheet Metal Torx
TORXMS12050SS20	#12-24 1/2" Stainless Steel FHUC Screw - Hinge Fastener, 20 Pack

Wood Screws:

WS/LS	#10 x 1-1/2" Wood Screw & Lead Shield
WS/PA	#10 x 1-1/2" Wood Screw & Plastic Anchor
WS/RP	#10 x 1-1/2" Wood Screw & Fiber Plug
WS10100Z	#10 x 1" Wood Screw - Flat Head
WS10200Z	#10 x 2" Wood Screw - Flat Head
WS10250Z	#10 x 2-1/2" Wood Screw - Flat Head
WS10300Z	#10 x 3" Wood Screw - Flat Head
WS10400Z	#10 x 4" Wood Screw - Flat Head
SS/WS	#10 x 1-1/2" Stainless Steel Wood Screw

FASTENER OPTIONS IMPORTANT NOTE: Some thresholds require more than 1 row of fasteners across their width. Carpet thresholds which are 4" or wider (2364, 2464 and 2366) require 2 rows of fasteners. Floor plates and safety treads which are 6" or wider (such as 193) require 2 rows of fasteners. All thermal barrier thresholds (such as 253x3AFG) require 2 rows of fasteners. All other thresholds which are 8" or wider (including custom assemblies) require more than 1 row of fasteners. Special order fastener prices double, triple, quadruple, etc. depending upon the number of rows of fasteners across the width of a given threshold.

HOW TO ORDER (PRODUCT NUMBER DESIGNATIONS):

When placing your order, please specify the product profile number, finish, insert and size/length. Also make sure to clearly state any special fabrication needs, optional fasteners or custom finishes/sizes required.

Throughout the catalog, products are listed with an underscore (_) where variable finishes are available. Lengths are added on to the end of product numbers and are not typically shown per product. More in-depth ordering information for specific lines are available in that product's section of the catalog.

STANDARD PRODUCTS:

Example: 2001 | A | T | 36 (Shown as 2001_T in catalog)

Profile #:	Finish:	Insert:	Size/Length:
2001	A	T = ThermoSeal™	36 = 36"
216	SN	PK = PemkoPrene™	48 = 48"
297	BDG	V = Vinyl	3684 = 1 piece @ 36" + 2 pieces @ 84"

ADHESIVE GASKETING PRODUCTS:

Example: 5773 | D | 21 (Shown as 5773_ in catalog)

Profile #:	Finish:	Size/Length:
5773	W	21 = 21' coil
PK55	BL	510 = 510' (bulk packaging)
S88	D	17 = 17' coil

PEMKOHINGE™ PRODUCTS:

See detailed ordering chart on page 14 in the PemkoHinge™ section.

MODULAR RAMP PRODUCTS:

See ordering information throughout Modular Ramps section.

Product Testing/Classification Symbols

• These symbols are shown adjacent to products throughout the catalog so that one can readily identify and select products which meet specification and/or code requirements.



Air Infiltration Tested
Tested To:
 ASTM E-283

Products indicated by this symbol have been air infiltration tested in accordance with the requirements of ASTM E-283 Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors.



Sound Tested
Tested To:
 ASTM E 90-97 and
 ASTM E 1408-91

Products indicated by this symbol have been acoustically tested in accordance with ASTM E 90-97 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions, and ASTM E 1408-91 Standard Test Method for Laboratory Measurement of Sound Transmission Loss of Door Panels and Door Systems. Tests were conducted by Western Electro-Acoustic Laboratory Inc., and Riverbank Acoustical Laboratory. Both are accredited laboratories for acoustic testing. Contact Pemko or refer to page GI-11 for recommended **SoundSeal Systems**.



Barrier-Free
Meets Requirements of:
 ADAAG-1998 (Amended) and
 ICC / ANSIA117.1-2003

Products indicated by this symbol are access compliant by having installed height differences not over 1/2" with allowable edge and slope conditions. All ramp products have ADA compliant 1:12 slopes: Pemko **Modular Ramp Thresholds** (Ramps Section), **Rubber Ramp Thresholds** (Ramps Section), and **Recycled Rubber Ramps** (Ramps Section). Contact Pemko or refer to page GI-12 for recommended **BarrierFree Systems**.



Non-Skid/PemKote™
Tested To:
 UL410
Meets Requirements of:
 ASTM D 2047 and
 Federal Specifications P-F-430C

PemKote™ is a rugged abrasive finish of nickel-aluminum composite which is fused to the metal surface by an exothermic reaction. This process produces an aesthetically pleasing skid resistant coating with extremely high bond strength and excellent resistance to oxidation. Pemkote™ carries a TEN (10) YEAR GUARANTEE, and is available on all Pemko metal thresholds. Pemko highly recommends the use of Pemkote™ for all Barrier-Free Modular Ramps, and as a durable, economical alternative for cast abrasive products. For corrosive applications, request sealant for extra protection. Pemko provides tested skid resistant walking surfaces that are Listed and Labeled by Underwriters Laboratories, Inc.®, including PemKote™ for metal surfaces as well as extruded or molded rubber ramp surfaces such as Pemko "SBR" Series extruded Fire Retardant Rubber Ramps and "RR" Series molded Recycled Rubber Ramps.



Smoke Tested
Tested To:
 UL 1784-01
Meets Requirements of:
 NFPA 105-99

Products indicated by this symbol are Listed by WYLE Laboratories as having been tested in accordance with Underwriters Laboratories Inc.®, Standard UL 1784-2001 Air Leakage Tests of Door Assemblies, and meet the performance criteria for allowable air leakage as specified in NFPA 105-99 Installation of Smoke Control Door Assemblies.



Fire Rated



Products indicated by this symbol are fire rated, classified and listed (U.S.A. and Canada) to meet the requirements/standards of UL10B, UL10C, UL10C (Edge Sealing) and UBC7.2 (positive pressure). For a complete listing of fire rated and UL rated products, please refer to the UL website.



PemkoHinge™ Rating:
LISTED
 Door Hinges
 76Y2



All models designated with these symbols (left) are tested and certified by Underwriters Laboratories Inc.® (U.S.A. and Canada) to standards UL10B, UL10C and UBC7.2 (positive pressure) for up to a **3-Hour (A-Label) Fire Listing** for all 4'-0" x 10'-0" and 8'-0" x 10'-0" door and frame assemblies. Fire listing certifications apply to all approved hollow metal and wood door assemblies in drywall or masonry wall construction. Check UL Rating #R14745 on the UL website for a complete and current listing of applicable PemkoHinge™ products.



**Builders
 Hardware
 Manufacturers
 Association**

Products indicated by this symbol have been voluntarily submitted to rigid third party testing and follow-up audits to confirm that these products fully and continuously meet or exceed the requirements of their underlying ANSI / BHMA Standards. These products are listed in the BHMA Directory of Certified Products, published annually and available for purchase from BHMA. They are also posted and frequently updated on the BHMA web site at <http://www.buildershardware.com>. Pemko products are covered by the following: ANSI / BHMA A156.21-2006 Standard for Thresholds, ANSI / BHMA A156.22-2005 Standard for Door Gasketing Systems, and ANSI / BHMA A156.26-2005 Standard for Continuous Hinges.



UL1547 - Check UL Rating #R18375 on the UL website for a complete and current listing of applicable Pemko edge sealing and fire glazing products. (Not specifically listed by item in this product catalog).

UL4L10 - Check UL Rating #R14369 and #SA9939 on the UL website for a complete and current listing of applicable Pemko products. (Not specifically listed by item in this product catalog).

Check Pemko's Category G, Category H and Category J listings on ITS website for a complete and current listing of applicable Pemko edge sealing, perimeter gasketing and fire glazing products.

SoundSeal Systems

Introduction: Pemko SoundSeal Systems and sound tested products are the result of extensive testing in acoustic laboratories. Our current listings represent those systems which performed consistently and with the highest STC ratings. STC stands for "Sound Transmission Class", wherein the higher the rating, the lower the transmission of sound. Testing performed at Western Electro-Acoustic Laboratories, Inc. in Santa Monica, CA, and Riverbank Acoustic Laboratories in Geneva, IL. Both are certified and nationally accredited acoustic laboratories.




Methods and Procedures: Testing conforms to the provisions and requirements of ASTM E 90-97 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements and ASTM E 1408-91 Standard Test Method for Laboratory Measurement of the Sound Transmission Loss of Door Panels and Door Systems. The system assembly is placed in the test chamber between the source room and receiving room and is

subjected to 17 one-third octave bands between 125 and 5000 Hertz. The resulting sound transmission loss values are tabulated in accordance with ASTM E 413 Standard Classification for Rating Sound Insulation. The Sound Transmission Class (STC) rating is determined by comparison to the standard STC contour.

Door Types: Tests performed with acoustic rated steel or wood composite doors fabricated by nationally recognized manufacturers, most of whom furnish Pemko products when supplying a door, frame, and gasketing as a package.

Limitations: It should be anticipated that a properly functioning acoustic gasketing system will result in higher than normal closing forces. Lever handle lock sets are suggested, as opening torque may also be higher than normal. If at all possible, pairs of doors should be avoided in acoustic applications. If they are necessary, please consult Pemko's technical staff for meeting stile designs and recommendations.

SoundSeal Systems Listings

SYSTEM RATING	DOOR TYPE AND SEALED IN PLACE RATING	JAMB GASKET TYPE	DOOR BOTTOM	THRESHOLD			
STC-44	Steel, STC-48	S88_ (Double Row)	434_RL (3)	2005_T (2)	Yes	Yes	Yes
STC-43	Wood, STC-47	S88_ (Double Row)	434_PKL (3)	2005_T (2)	Yes	Yes	Yes
STC-42	Wood, STC-45	S88_ (Double Row)	411_RL (3)	2005_T (2)	Yes	Yes	Yes
STC-41	Wood, STC-44	350_SR	434_RL (3)	2005_T (2)	Yes	Yes	Yes
STC-40	Wood, STC-44	312_R	411_RL (3)	2005_T (2)	Yes	Yes	Yes
STC-40	Wood, STC-42	S88_ (Double Row)	234_V (3)	2005_T (2)	Yes	Yes	Yes
STC-39	Wood, STC-45	S88_ (Single Row)	411_RL (3)	2005_T (2)	Yes	Yes	Yes
STC-39	Wood, STC-44	322_SN	434_NL (3)	2005_T (2)	Yes	Yes	Yes
STC-37	Wood, STC-41	312_R	234_V (1)(3)	2005_T (2)	Yes	Yes	Yes
STC-33	Wood, STC-36	S88_ (Single Row)	411_RL (3)	271_(4)	Yes	Yes	Yes

Jamb Gasketing Notes: Can also use single row of **S773** instead of double row of S88. Using a single row of **S88** where a double row is listed, subtract 3 dB.

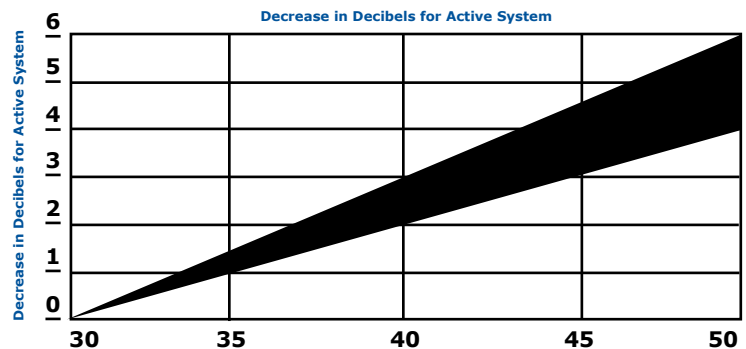
Door Bottom Notes: (1) Substitute any **door shoe** for the **234_V**, subtract 0 dB. (2) Consult door manufacturer for label and clearance requirements.

(3) Door bottom legs may require mortising to allow for necessary clearance between the mounting legs and the **2005_T**.

Threshold Notes: (4) Substitute any **latching panic exit saddle threshold** (using ThermoSeal™ insert "T") for the **2005_T**, subtract 0 dB; substitute any **threshold** for the **2005_T**, subtract 1 dB.

SoundSeal Systems Expectations

When acoustic gasketing is required there are two basic guidelines to consider: (1) Is the surrounding construction compatible with the STC rating desired? (2) Does the door and frame being considered have an ample STC rating? The following can be used as a guideline for determining the decrease in decibels that can be anticipated with any **Pemko SoundSeal System**: standard solid core wood doors will have a rating of about STC-30 and any **Pemko SoundSeal System** will maintain this level with no additional loss. For an acoustic steel door with an STC-50 rating, the resulting active rating with a **Pemko SoundSeal System** will be STC-45, a decrease of 5dB. Intermediate levels can be determined by using the chart shown right and by comparing the "**Door Type and Rating**" to the "**System Rating**" in the "**SoundSeal System** listing" above.



Note: Standard non-acoustic doors can be anticipated to provide the following ratings:

- solid core wood = STC 28 to STC 32
- insulated hollow metal = STC 38 to STC 40

STC Rating

The range of sound frequencies used in these tests is that of normal human speech and hearing, and in most cases the level of attenuation achieved does not totally eliminate but rather muffles the sound to an unintelligible level. The chart shown right compares the level of speech that would be heard through a door system having the indicated active STC rating (active STC rating is for an operable system as contrasted to the sealed-in-place rating of the door only).


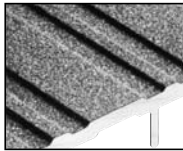







ACTIVE STC RATING	LEVEL OF SPEECH HEARD
STC-30	Loud speech understood
STC-35	Loud speech heard but not understood
STC-40	Loud speech audible as a murmur
STC-45	Some loud speech barely audible
STC-48	Hearing strained to hear loud speech
STC-50	Loud speech not audible

Barrier-Free Systems



- With respect to accessible routes having, ramps, stairs and doors, Pemko offers numerous access compliant products that will enable you to meet the requirements of the Americans with Disabilities Act, ADA, as outlined in the Americans with Disabilities Act Accessibility Guidelines, ADAAG-1998 (Amended), ICC/ANSI A117.1-1998 Standard Accessible and Usable Buildings and Facilities, any of the various Uniform Building Codes, or any State Access Code (California Building Code, Title 24). The following table recommends various Pemko products that comply with the indicated sections of the ADAAG Guidelines and the ICC/ANSI Standard.

- The following sections are listed, and text stated, in accordance with ICC/ANSI A 117.1-1998. Reference in parenthesis is for the comparable ADAAG Section.

ICC / ANSI A117.1 (ADAAG)	Pemko Recommendation
<p>302 (4.5) Floor or Ground Surfaces.</p> <p>302.1 (4.5.1) General. "shall be slip resistant"</p>  <p>UL Listed skid resistant.</p>	<p>General: "slip-resistant" PemKote™ non-slip</p> <ul style="list-style-type: none"> PemKote™ (finish code: "K") is a rugged abrasive finish of nickel-aluminum composite. PemKote™ provides safety in environments used by youths and people with disabilities. For complete information, see the Modular Ramps section.  <p>PemKote™: skid resistant surface.</p>
<p>302.2 (4.5.3) Carpet. "Exposed edges of carpet....shall have trim along the entire length of the exposed edge. trim shall comply with Section 303."</p>	
<p>303 (4.5) Changes in Level</p> <p>303.2 (4.5.2) Vertical. "Changes in level of 1/4" (6mm) high maximum shall be beveled with a slope not steeper than 1:2"</p>	
<p>303.3 (4.5.2) Beveled. "Changes in level between 1/4" (6mm) high minimum and 1/2" (13mm) high maximum shall be beveled with a slope not steeper than 1:2"</p>	
<p>303.4 (4.5.2) Ramped. "Changes in level greater than 1/2" (13mm) shall be ramped and comply with Section 405 (4.8)"</p>	<ul style="list-style-type: none"> Patented assemblies (U.S. Patent Number D345,218 and Number 5,446,397) accommodate 1/2" to 2-1/4" floor offsets in meeting the 1:12 slope requirements of the "Americans with Disabilities Act". Rubber ramp component assemblies meet the same requirements. Answer the needs of architects, specifiers, building owners, installers, and most importantly, physically challenged people. For use in schools, hospitals, stadiums, offices, restaurants, hotels, airports, and more. For complete information, see the Modular Ramps section. 
<p>404 (4.13) Doors and Doorways.</p> <p>404.2.5 (4.13.8) Thresholds at Doorways. "...shall be 1/2" high maximum...shall comply with Sections 302 and 303."</p>	
<p>404.2.9 (4.13.11) Door-Opening Force.</p> <p>4.13.8 Thresholds at Doorways</p>	
<p>405 (4.8) Ramps</p> <p>405.2 (4.8.2) Slope. "Ramp runs shall have a running slope not steeper than 1:12"</p> <p>(Note: Some exceptions apply to this with respect to existing buildings having space limitations. Consult Pemko for specific applications.)</p>	
<p>504 (4.9) Stairways.</p> <p>504.4 Tread Surface.</p> <p>504.5 (4.9.3) Nosings.</p>	