ASTRAGALS & MEETING STILES

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Astragal and Meeting Stile Gasketing - Split Astragals

- Astragals and meeting stiles on double doors often present problems because of complex conditions and requirements. Pemko offers some simple and inexpensive solutions as well as more detailed ones. Each job should be carefully studied as to the specific requirements when selecting the appropriate gasketing. Note that some astragals consist of two parts, one for each door, and should be ordered as such.
- Punched with slotted holes for adjustment.
- Astragals and meeting stiles with a fire label may be mounted on pairs of doors wherein the gap meets the requirements of NFPA 80, 2-3.1.7 “The clearance between...the meeting edges of doors swinging in pairs on the pull side shall be 1/8" ± 1/16" (3.18mm ± 1.59mm) for steel doors and shall not exceed 1/8" (3.18mm) for wood doors.”
- All clear anodized brush products are supplied with gray brush (available with black brush upon request). Other finishes supplied with black brush.

**AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE** (see General Information section for finish chart)

- A (Mill Finish Aluminum) • BDG (Bright Dip Gold Anodized) • C (Clear Anodized) • D (Dark Bronze Anodized) • G (Gold Anodized) • PW (Painted White) • SN (Satin Nickel Anodized) • Special finishes available upon request
Astragal and Meeting Stile Gasketing - Split Astragals (Cont.)

- All clear anodized brush products are supplied with gray brush (available with black brush upon request). Other finishes supplied with black brush.

**18061_NB**

AVAILABLE FINISHES: C, D, G, PW

**305_N**

AVAILABLE FINISHES: B, C, D, G

**318_V**

AVAILABLE FINISHES: A, BDG, D, G, PW

**310_**

**311CIN**

AVAILABLE FINISHES: A, BDG, D, G, PW, SN

- Material required for one pair of doors: 4 ea. 310 bars and 2 ea. 311CIN cloth inserted rubber pieces.
- Specify 311CIN3.75 for 1-3/4" thick doors.
- Specify 311CIN4.00 for 2" thick doors.
- Specify 311CIN4.25 for 2-1/4" thick doors.

* Sold individually

**S771**

AVAILABLE FINISHES: C, D, W
AVAILABLE LENGTHS: 7’, 8’, 9’, 10’

**S772**

AVAILABLE FINISHES: D, W
AVAILABLE LENGTHS: 7’, 8’, 10’

Adhesive Astragal/Meeting Stile Seals

- The S771 and S772 astragal/meeting stile seals can be installed on virtually any pair of doors where sound attenuation is required. These products seal the opening to prevent heat loss, retard the passage of smoke, and act as a weatherization product.
- Excellent resistance to compression set, particularly at elevated temperatures and for extended periods of time.
- Stays flexible between -58°F and 450°F with very high resistance to flex fatigue. Maintains a low closing force.
- Easy installation requires no mechanical fasteners; can be cut to size in the field.

NOTES FOR ALL ADHESIVE GASKETING:

- Storage and shelf life: All adhesive gaskets have a limited shelf life. This product must be used within 6 months of purchase and must be stored between 50°F and 100°F.
- For further notes/details, please see Adhesive Gasketing section.

### ASTRAGALS AND MEETING STILES

**AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE**

A (Mill Finish Aluminum) • B (Mill Finish Extruded Bronze[Brass]) • BDG (Bright Dip Gold Anodized) • C (Clear Anodized) • D (Dark Bronze Anodized) • G (Gold Anodized) • PW (Painted White) • SN (Satin Nickel Anodized) • Special finishes available upon request
Meeting Stile Gasketing

- Astragals / meeting stiles with a fire label may be mounted on pairs of doors wherein the gap meets the requirements of NFPA 80, 2-5.4.

369_V
AVAILABLE FINISHES: A, D, G

369_PK
AVAILABLE FINISHES: A, D, G

369_S
AVAILABLE FINISHES: A, D, G

369_P
AVAILABLE FINISHES: A, D, G

371P 1/4” pile
372P 3/8” pile

300_P
AVAILABLE FINISHES: B, C, D, G

B71
SS71

- Available in 84” and 96” lengths.
- Available in gray pile only.
- Fasten with nails or staples through pile and backing, or use adhesive. Fasteners not supplied.
- Pile and backing do not separate.

- For a 3/8” gap (or smaller) between doors.
- Spring-loaded from back side.
- This product does not work well on beveled edge pairs of doors.

- .008 gauge hemmed spring bronze (B), stainless steel (SS).
- .015 gauge brass retainer and .020 gauge stainless steel (SS) retainer.
- Available in 36”, 72”, 80”, 84” and 96” lengths.

- 313AN, 313GN, 314CN, 314GN, 358CN, and 358GN, furnished with gray neoprene (N); 313DN, 314DN, and 358DN furnished with black neoprene (N). Black neoprene (N) available with any retainer finish upon request.

313_N
AVAILABLE FINISHES: A, D, G

314_N
AVAILABLE FINISHES: C, D, G

358_N
AVAILABLE FINISHES: C, D, G

AVAILABILE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) • B (Mill Finish Extruded Bronze[Brass]) • D (Hemmed Spring Bronze) • C (Clear Anodized) • D (Dark Bronze Anodized) • G (Gold Anodized) • SS (Stainless Steel) • Special finishes available upon request
## Adhesive-Backed Mullion Gasketing

### 5110
**AVAILABLE FINISHES:** BL  
**AVAILABLE LENGTHS:** 120"

![Diagram of 5110](image)

### Split Astragals with Snap Covers – Concealed Fasteners

- Snap covering helps prevent vandalism and adds an attractive finished look by concealing the fasteners.

#### 29310_S
**AVAILABLE FINISHES:** C, D, G

![Diagram of 29310_S](image)

#### 29310_NB
**AVAILABLE FINISHES:** C, D, G

![Diagram of 29310_NB](image)

#### 29310_PK
**AVAILABLE FINISHES:** C, D, G

![Diagram of 29310_PK](image)

#### 29310_V
**AVAILABLE FINISHES:** C, D, G

![Diagram of 29310_V](image)

#### 29324_SB
**AVAILABLE FINISHES:** C, D

![Diagram of 29324_SB](image)

#### 29324_NB
**AVAILABLE FINISHES:** C, D, G

![Diagram of 29324_NB](image)

### Alternate Inserts for 29310

- **29310_PK**  
  **AVAILABLE FINISHES:** C, D, G

- **29310_P**  
  **AVAILABLE FINISHES:** C, D, G

- **29310_V**  
  **AVAILABLE FINISHES:** C, D, G

### Alternate Inserts for 29324

- **29324_SB**  
  **AVAILABLE FINISHES:** C, D

### AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)

- BL (Black)  
- C (Clear Anodized)  
- D (Dark Bronze Anodized)  
- G (Gold Anodized)

Special finishes available upon request.
**“T” and Overlapping Astragals**

### 355_S

**AVAILABLE FINISHES:**
- B, BDG, C, D, G, PW, SN

Mill finish extruded bronze (brass).

Satin Nickel finished product supplied with BLACK insert. GRAY available upon request.

### 356_V

**AVAILABLE FINISHES:**
- A, BDG, D, PW, SN

### 357_ with S88

**AVAILABLE FINISHES:**
- SP, SS (#4 Finish & #4 Edge)

- If specifications state that an astragal is required to satisfy a fire and / or smoke rated opening, then a thru-bolted 357SP or SS in conjunction with S88 seal is the only configuration that can be used.
- 1/4”-20 machine screws and thru-bolts must be ordered separately at additional cost.
- Standard fastener is #10 x 1” Truss Head SMS.
- S88 (see Adhesive Gasketing section) must be ordered separately at an additional cost, if required.

### 357_ND

**AVAILABLE FINISHES:**
- C, D, G, SP, SS (#4 Finish & #4 Edge)

- Standard fastener is #10 x 1” Truss Head SMS.
- “ND” denotes “no drill” (unless specified “ND”, astragals are drilled).
- Countersink drilling with countersunk flathead screws also available upon request at no extra charge.

### 359_

**AVAILABLE FINISHES:**
- A, B, BDG, D

For light residential installations. Includes #16 x 7/8” flathead zinc nails.

---

### AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
- A (Mill Finish Aluminum) • B (Mill Finish Extruded Bronze[Brass]) • BDG (Bright Dip Gold Anodized) • C (Clear Anodized) • D (Dark Bronze Anodized) • G (Gold Anodized)
- PW (Painted White) • SN (Satin Nickel Anodized) • SP (Galvannealed Steel) • SS (See Individual Part) • Special finishes available upon request
### “T” and Overlapping Astragals (Cont.)

**352_R**
- **Available Finishes:** B, C, D, G
- For reverse bevel doors.

**375_R**
- **Available Finishes:** B, C, D, G

### Adjustable Astragals
- Available in 84”, 96” and 120” lengths.
- 351 is surface applied; 354 is full-mortise applied.
- *When used as split astragals on double doors, two lengths must be ordered: one for each door.*

**351_S**
- **Available Finishes:** B, C, D, G

**351_P**
- **Available Finishes:** B, C, D, G

**351_V**
- **Available Finishes:** B, C, D, G

**354_S**
- **Available Finishes:** C, D, G

**354_P**
- **Available Finishes:** B, C, D, G

**354_V**
- **Available Finishes:** B, C, D, G

---

**NOTE:** If you require split astragals in a metal to gasket configuration, you must order each leaf separately with your choice of insert in the tables below.

### Alternate Inserts for 351
- **351_PK**
  - **Available Finishes:** B, C, D, G
- **351_V**
  - **Available Finishes:** B, C, D, G
- **351_P**
  - **Available Finishes:** B, C, D, G

### Alternate Inserts for 354
- **354_PK**
  - **Available Finishes:** B, C, D, G
- **354_V**
  - **Available Finishes:** B, C, D, G
- **354_P**
  - **Available Finishes:** B, C, D, G

---

▲ **AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE** (see General Information section for finish chart)

B (Mill Finish Extruded Bronze[Brass]) • C (Clear Anodized) • D (Dark Bronze Anodized) • G (Gold Anodized)

Special finishes available upon request
### Offset Security Bar

- For use on single outswing wood or metal doors.
- Covers gap between the door and jamb for the full door height, preventing prying and manipulation.
- Excellent for classroom doors opening onto exterior walkways (specified and approved by major school districts).
- \(3572\text{SP}\) supplied drilled 12” on center with 1/4” holes.
- \(3572\text{SPND} \) (“no drill”) supplied undrilled.
- Thru-bolts are included when drilled only.

### Security Astragal

- Automatic security astragal for outswing pairs of wood and metal doors.
- Discourages manipulation of panic-type hardware.
- Astragal is held flush against other door by 1/2” thick cam (cam and mounting screws included).
- Anodized aluminum with vinyl seal and stainless steel operating spring.
- Either door may be active without requiring a coordinator.
- Only available in 86” and 96” lengths.
- Parts can be trimmed 12” maximum from each end.
- Should be mounted prior to attaching panic hardware to eliminate the problem of interference.
- Must be installed on the inside of a pair of outswing doors.
Locking Astragals – U.S. Patent Number 5,350,207 and Patent Number 5,328,217

- Weatherstriped astragals with locking spring bolts or slide bolts for 1-3/4" and 1-3/8" residential and office suite in-swing double entrance doors.
- Each astragal comes complete with an installation kit and detailed instructions.
- Choose from two locking options: Odd numbered astragals have economical smooth acting slide bolts. Slide bolts are now 18 inches from the top/bottom for easier access. Even numbered astragals have locking spring bolts. Both have full 3/8" diameter steel bolts with 1-1/16" throw for improved locking strength. In the extended and locked position, locking spring bolts cannot be easily retracted by tampering. In the retracted position, the spring loaded bolts latch firmly, thus preventing marking of the floor and door header trim when opening or closing the inactive door.
- All styles are edge mounted on a square edge door.
- Choose from three style options: slimline, colonial and colonial with thermal break.
- The slimline style is available with a vinyl bulb (V) insert or SiliconSeal™ (S) insert. The colonial styles are available with Q102 or Q106 kerf-in foam (Q) insert or kerf-in magnetic (M) insert.

<table>
<thead>
<tr>
<th>Model</th>
<th>Available Finishes</th>
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<tbody>
<tr>
<td>3493_S</td>
<td>BDG, C, D, G, PW, SN</td>
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<tr>
<td>3493_V</td>
<td>BDG, C, D, G, PW, SN</td>
</tr>
</tbody>
</table>

Oak Fascia

- Available in 96" length only; shorter lengths are invoiced at 96".
- An excellent alternative to locking wood astragals (3481, page 84), the oak fascia is attached to the face of 3493/3494 locking metal astragals, providing a warm aesthetic appearance while utilizing the mechanical advantages of the locking metal astragals.
- The oak fascia should be attached to the face of the 3493/3494 using liquid nail adhesive.
- The oak fascia is supplied unfinished, to allow for custom matching.

OAK349-96

Please refer to the listings under each product for stocked finishes. See the General Information section for a complete list of all Pemko stocked and non-stocked finishes. Contact the factory for the price and availability of non-stocked finishes.
# Locking Astragals

## Colonial Style

**Colonial style with slide bolt**

**3495_M**
**3495_Q**
**AVAILABLE FINISHES:**
BDG, C, D, PW, SN

**Colonial style with locking spring bolt**

**3496_M**
**3496_Q**
**AVAILABLE FINISHES:**
BDG, C, D, G, PW, SN

**Colonial Style with Thermal Break**

**3497_M**
**3497_Q**
**AVAILABLE FINISHES:**
BDG, C, D, PW

**3498_M**
**3498_Q**
**AVAILABLE FINISHES:**
BDG, C, D, PW

---

**Handing Chart For Astragals**

(For pages 81-83)

- An astragal is handed by the hand of the active door. The hand of the active door is determined by the position of the hinges on the door, when viewed from the outside (the key side).

3495 also available with 18” aluminum bar (at additional cost) for easier access (specify “L” at the end of the product number for this option i.e. 3495_M96L).

3497 also available with 18” aluminum bar (at additional cost) for easier access (specify “L” at the end of the product number for this option i.e. 3497_M96L).

**Q108_**
**AVAILABLE FINISHES:**
D, W

Available with Q108 insert only upon request.

---

**AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE** (see General Information section for finish chart)

BDG (Bright Dip Gold Anodized) • C (Clear Anodized) • D (Dark Bronze Anodized) • G (Gold Anodized) • PW (White) • SN (Satin Nickel Anodized)

Special finishes available upon request • Kerf Colors: D (Dark Brown) • W (White)
**Slimline Styles**

- **TOP & BOTTOM SLIDE BOLTS** (extra long 1-1/16" throw, 3/8" diameter)
- **LARGE BULB VINYL WEATHER SEAL** (OPTIONAL PemkoPrene™ or SiliconSeal™)
- **BOLT SLIDE**
  - Standard 4" bar (OPTIONAL 18" aluminum slide (at additional cost) for easier access, if specified)
- **PILE INNER SEAL**
- **SNAP IN COVER**
  - (conceals mounting screws and deadbolt cutout)
- **DEADBOLT STRIKE**
  - (not furnished; use plates supplied with locksets.)
- **ADJUSTABLE STRIKE PLATE MOUNTING**
- **LATCHBOLT STRIKE**
  - (not furnished; use plates supplied with locksets.)
- **BOLT SLIDE**
- **MOLDED NEOPRENE SPONGE BOTTOM SEAL**

Illustration not to scale.

**Colonial and Colonial with Thermal Break Styles**

- **TOP & BOTTOM SPRING BOLTS**
  - (extra long 1-1/16" throw, 3/8" diameter)
- **PILE INNER SEAL**
- **SET SCREWS**
- **EMBOSSED COVERED FOAM WEATHER SEAL, 5/8" REACH** (OPTIONAL MAGNETIC SEAL)
- **BOLT RELEASE, PULL AND LOCK**
- **DEADBOLT STRIKE**
  - (not furnished; use plates supplied with locksets.)
- **ADJUSTABLE STRIKE PLATE MOUNTING**
- **LATCHBOLT STRIKE**
  - (not furnished; use plates supplied with locksets.)
- **SNAP IN COVER**
  - (conceals mounting screws and deadbolt cutout)
- **HEAT TREATED SPRING STEEL PULL BAR**
- **SET SCREWS**
- **MOLDED NEOPRENE SPONGE BOTTOM SEAL**

Illustration not to scale.

**Slide Bolt Option**
- Odd numbered astragals (3493, 3495 and 3497) have smooth acting slide bolts. The 3493 is shown above. They are operated by pushing the slide bolts (located at the top and bottom of the astragal) up and down to extend or retract the bolts. Slide bolts are now available 18 inches from the top/bottom (at additional cost) for easier access (specify "L" at the end of the product number for this option i.e. 3495_Q96L).

**Locking Spring Bolt Option**
- Even numbered astragals (3494, 3496 and 3498) have locking spring bolts. The 3496 is shown above. They are operated by pushing the bolt releases (conveniently located near the middle of the astragal). The spring loaded bolts extend and automatically latch in the extended position. To retract the bolt throws, press the releases and pull the two latching pulls toward the center of the door. The bolts also automatically latch in the retracted position.
Locking Wood Astragals

- The two (2) wood options are: **FIR**: Clear fir, stain grade, no knots on visible surfaces. **OAK**: Clear oak, stain grade, no knots on visible surfaces.
- **3481**s are supplied with a hardware kit including: Two (2) bright brass sliding type flush bolt assemblies (5/16" diameter x 1" long throw bolt) and one 1/2" thick sponge neoprene bottom seal with double faced adhesive for attachment (non-handed).

**3481_Q**

**AVAILABLE FINISHES:**
**FIR, OAK**

**Q108_**

**AVAILABLE FINISHES:**
**D, W**

3483 (0 flush bolts)
34831 (1 flush bolt)
34832 (2 flush bolts)

**AVAILABLE FINISHES:**
**FIR, OAK**

- Flush bolt face plates for **3483FB** are 3/4" x 3". Face plates for **3481FB** are 3/4" x 6".
- A 3/4" x 9/16" x 1/8" notch at the top of the door is required for the flush bolt mounting flange on **3481FB**.
- Flush bolt assemblies for locking wood astragals can be purchased separately.

**AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE** (see General Information section for finish chart)

Wood Options: **FIR** (Natural Wood) • **OAK** (Natural Wood)
Special finishes available upon request • Kerf Colors: **D** (Dark Brown) • **W** (White)
Outswing Locking Astragals – U.S. Patent Number 5,350,207 and Patent Number 5,328,217

- Weatherstripped astragals with locking spring bolts or slide bolts for 1-3/4” outswing residential and office suite double entrance doors. Slide bolts are now 18 inches (if specified) from the top/bottom for easier access.

- Outswing astragals consist of two units: a housing containing the locking bolts (which fastens to the inactive leaf), and a “T” astragal with a seal (which fastens to the active leaf).

- Choose from two locking options: Odd numbered astragals have economical smooth acting slide bolts. Even numbered astragals have locking spring bolts. Both have full 3/8” diameter steel bolts with 1-1/16” throw for improved locking strength. In the extended and locked position, locking spring bolts cannot be easily retracted by tampering. In the retracted position, the spring loaded bolts latch firmly, thus preventing marking of the floor and door header trim when opening or closing the inactive door.

- Choose from four style options: slimline, slimline with thermal break, colonial and colonial with thermal break.

- The slimline styles are available with silicone (S) insert. The colonial styles are available with Q103 kerf-in foam (Q) insert.

- All come with a vinyl snap-in cover strip to conceal the cutout and to cover the mounting screws.

- All feature four-way adjustable strike plate mounting for latchbolt and deadbolt (U.S. Patent Number 5,328,217).

- All styles come with a pile seal at inner door edge and a molded sponge neoprene bottom seal.

- Each astragal comes complete with an installation kit and detailed instructions.

**Slimline Style**

### 3443_S
**AVAILABLE FINISHES:** C, D, PW

### 3444_S
**AVAILABLE FINISHES:** C, D, PW

- An astragal is handed by the hand of the active door. The hand of the active door is determined by the position of the hinges on the door, when viewed from the outside (the key side).

Please refer to the listings under each product for stocked finishes. See the General Information section for a complete list of all Pemko stocked and non-stocked finishes. Contact the factory for the price and availability of non-stocked finishes.
Colonial Style

3445_Q
AVAILABLE FINISHES:
PW

Colonial style and colonial style with thermal break can be used when the active outswing door leaf has a square edge.

3446_Q
AVAILABLE FINISHES:
PW

AVAILABLE FINISHES:

3445, 3446, 3447, and 3448 available with Q107 insert only upon request.

Colonial Style with Thermal Break

3447_Q
AVAILABLE FINISHES:
BDG, PW

3448_Q
AVAILABLE FINISHES:
PW

AVAILABLE FINISHES:

D, W

Colonial style with slide bolt and thermal break

Colonial style with locking spring bolt and thermal break

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)

BDG (Bright Dip Gold Anodized) • PW (Painted White) • Special finishes available upon request

Kerf Colors: D (Dark Brown) • W (White)
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**ASTRAGALS AND MEETING STILES**

**LEFT HAND**

- MORTISE AND SLIMLINE STYLE
  - 3491,3492,3493,3494

**RIGHT HAND**

- MORTISE AND SLIMLINE STYLE
  - 3491,3492,3493,3494

**TOP**

- DIM. "A", TOP TO CENTERLINE OF DEADBOLT FACE CUTOUT

- DIM. "B", CENTER TO CENTER BETWEEN DEADBOLT AND LATCHBOLT FACE

- NOTE: DEADBOLT AND LATCHBOLT FACE CUTOUTS ARE 3/4" WIDE X 2" HIGH THE WIDTH IS CONSTANT, BUT THE HEIGHT CAN BE GREATER IF REQUIRED.

- SPECIFY DIM. "C" AND/OR DIM. "D"

- OR ONE CONTINUOUS PUNCHOUT CAN BE USED TO COVER BOTH BOLTS (USE DIM. "C" BOX)

- LENGTH "L" IN INCHES

**NOTE:** IF CUTOUT "E" IS NOT REQUIRED WRITE "NONE" IN THE BOX

**NON-RETURNABLE**

**APPROVED BY:**

**DATE:**

**NOTE:** IF ONLY ONE LATCH FACE CUTOUT IS REQUIRED, WRITE "0" IN BOX "B" AND "NONE" IN BOX "D".

FORM: CUST. AP-03 Rev. 3, 10-29-02

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3441, 3442, 3443, 3444, 3445, 3446, 3447, 3448

OUTSWING ASTRAGAL PUNCHING

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**LEFT HAND REVERSE**

**RIGHT HAND REVERSE**

**QUANTITY**

**CHECK HAND**

**LHR**

**RHR**

**DIM. "A", TOP TO CENTERLINE OF DEADBOLT FACE CUTOUT**

**DIM. "B", CENTER TO CENTER BETWEEN DEADBOLT AND LATCHBOLT FACE CUTOUTS**

**NOTE:**

DEADBOLT AND LATCHBOLT FACE CUTOUTS ARE 1-1/8" WIDE x 2-1/4" HIGH THE WIDTH IS CONSTANT, BUT THE HEIGHT CAN BE GREATER IF REQUIRED.

**SPECIFY DIM. "C" AND/OR DIM. "D"**

**LENGTH "L" IN INCHES**

**CUTOUT "E" IS 3/4" X 4" SPECIFY IF CUTOUT LONGER THAN 4" IS REQUIRED**

FORM: CUST. AP-03 Rev. 3, 10-29-02

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