

**PEMKOHINGE™**

*General Information*



**What is PemkoHinge™?**

Unlike a conventional hinge, PemkoHinge™ does not have a pin. PemkoHinge™ is not like a piano hinge either, which has 50% of each knuckle cut away, and depends on a thin wire to hold each leaf together. PemkoHinge™ consists of two full-height, paired and geared leaves. Each geared leaf rotates evenly from top to bottom, riding on Delrin®-Teflon® bearings. The geared leaves and bearings are held together by a full-length channel cap. This assembly retains the smooth, clean lines of the door and frame, while easily supporting heavy vertical loads.

**Cycle Duty**



Commercial models are certified fully functional after 1.5 million cycles using a standard duty hinge on a 150 lb. door.

**UL-Fire Labeled 3 Hour A-Label**

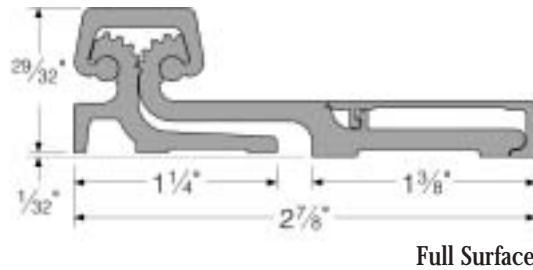
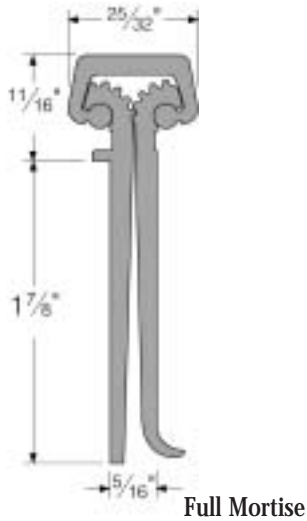
Pemko's continuous geared aluminum hinges (shown here) are tested and certified by Underwriters Laboratories Inc.® (USA and Canada) to standards UL10B, UL10C, and UBC7.2 (positive pressure) for up to a 3-hour (A-Label) Fire listing for all door and frame assemblies up to 4' 0" x 10' 0" and 8' 0" x 10' 0". This certification applies to all approved hollow metal and wood door assemblies in drywall or masonry wall construction. 3 Hour doors require Pemko's FirePins™.



**PemkoHinge™ Attributes: Security, Safety, Privacy, Low Wear and Tear**

- Unlike conventional hinges, Pemko's continuous geared aluminum hinges **distribute load stress uniformly** along the full length of the door and frame, diffusing wear and tear from closer kickback shock and eliminating door sag and binding.
- The gear design of PemkoHinge™ ensures **identical operation of each leaf**; therefore very little effort is required to open even heavy commercial doors.
- The attaching screws for all hinges are located along the full length of each hinge. This prevents warpage of the door along the jamb.
- PemkoHinge™ creates a high degree of **security** for any opening or restricted area. The geared construction and full-length channel cap seal the common gap between the door and frame and provide security against prying.
- PemkoHinge™, by closing the common gap between the door and frame provides **safety** against pinched fingers for doors in public areas, particularly those areas where children are present.
- The Sightproof design of the continuous hinge provides privacy in lavatories, executive offices, exam rooms and file rooms.
- PemkoHinge™ products are **GUARANTEED FOR THE LIFE OF THE OPENING** against defects in material or workmanship.

**Continuous Geared Aluminum Hinges**



Cut-away view of a door

**Models**

FULL SURFACE MODELS*	FULL MORTISE MODELS*	FINISH	LENGTH	NUMBER OF BEARINGS	MAXIMUM DOOR WEIGHT
CFS83	CFM83	Clear Anodized Aluminum	83"	14	280 LBS
DFS83	DFM83	Dark Bronze Anodized Aluminum	83"	14	280 LBS
CFS95	CFM95	Clear Anodized Aluminum	95"	16	320 LBS
DFS95	DFM95	Dark Bronze Anodized Aluminum	95"	16	320 LBS
CFS83HD	CFM83HD	Clear Anodized Aluminum	83"	27	540 LBS
DFS83HD	DFM83HD	Dark Bronze Anodized Aluminum	83"	27	540 LBS

*\*Other sizes and finishes are available to order.*

Fastener kits and replacements snap covers for Pemko continuous hinges are available

**FirePins™**

- For use with 3 hour fire rated Assemblies.
- Although **PemkoHinge™** carries U.L. fire ratings unequaled in the industry, some applications may require the use of **FirePins™**.
- **FirePins™** applications fall within the U.L. guidelines for retro-fitting assemblies in the field. Expensive shop modifications and door/frame reinforcements are not required.
- Intumescent material is encased in each **FirePins™** for wood door applications to insulate against charring the door edge via heat transfer from the frame.
- **FirePins™** also add extra security to a door assembly.