



# GAP90™, 9590, 9990

90-Minute Fire Door Gap Solutions

## PRODUCT SPECIFICATIONS

### GAP90™

90-Minute Fire Door Head/  
Jamb Gap Solution

UL Certified for Head/Jamb Gaps  
— Measuring over 1/8", and up to 5/16".

### GAP90DKB™

### 9590

90-Minute Fire Door  
Bottom Gap Solution

UL Certified for Door Bottom Gaps  
— Measuring up to 1 1/2".

### 9990

90-Minute Fire Door  
Top Gap Solution

UL Certified for Door Top Gaps  
— Measuring up to 1/2".

#### INCLUDES:

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<b>9945</b>	GPZ Steel Stop Extender	<b>9945</b>	GPZ Steel Stop Extender	#304 Brushed Stainless Steel Neoprene Sweep - Pull Side	#304 Brushed Stainless Steel Flat Plate - Pull Side
<b>9400</b>	Gray Intumescent PVC Cover	<b>9400DKB</b>	Brown Intumescent PVC Cover	#304 Brushed Stainless Steel Intumescent Shoe - Push Side	#304 Brushed Stainless Steel Intumescent Cap - Push Side
<b>5075CL</b>	Clear Self- Adhesive TPE Seal	<b>5075B</b>	Brown Self- Adhesive Seal	#304 Brushed Stainless Steel End Caps	#304 Brushed Stainless Steel End Caps

## FREQUENTLY ASKED QUESTIONS

### GAPS - PERIMETER VS. DOOR BOTTOM?

Perimeter gaps in doors are the distance between the edge of the door and door frame as measured on the pull side of the opening. Door bottom gaps are the distance between the bottom of the door and the finish floor.

### GAPS - WHY ARE THEY IMPORTANT?

Proper gap tolerances ensure that the door will perform as it is intended. Gaps that are outside of tolerance can lead to compromised fire door integrity in a fire situation as well as not allowing the fire door latching mechanism to engage fully as it is required to do by code.

### GAPS - WHAT DOES THE CODE SAY?

NFPA 80 (the code standard for fire doors) states that fire doors must be inspected on an annual basis. Maximum allowable perimeter gap is 1/8" for wood doors, 1/8" +/- 1/16" for metal doors. Maximum allowable door bottom gap is 3/4". Gaps that exceed these maximum allowable tolerances result in a non-compliant fire door that needs to be repaired.

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## FREQUENTLY ASKED QUESTIONS *(continued)*

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### **REPAIRS - WHAT DOES THE CODE REQUIRE?**

Separate from the FDAI Inspection Log; a Maintenance Log is required to be kept with record of repairs to each door. It should include specific product information and certification for products applied that solve issues like excessive gaps.

### **REPAIRS - WHERE IS GAP90™ SOLUTION REQUIRED?**

GAP90™ is only needed in areas where gaps exceed compliance. It is often aesthetically desirable to run the Steel Stop Extender (9945) full length of head or jamb, while applying the Intumescent (9400/9400DKB) and TPE Seal (5075CL/5075B) where the gap is excessive.

### **UL MARK – ARE THE PRODUCTS MARKED?**

**GAP90™:** Yes, the Steel Stop Extender (9945) is embossed with the UL Certified Mark and required category ID.

**9590/9990:** Yes, the Stainless Steel components are each embossed with the UL Certified Mark and required category ID.

### **UL MARK – WHAT DOES IT INCLUDE?**

The 'official' UL mark is the UL shield & category ID – POSITIVE PRESSURE TESTED MISCELLANEOUS FIRE DOOR ACCESSORY. It fails to inform the special nature of GAP90™ application and does not indicate that the certification requires all 3 separate components of GAP90™.

### **UL MARK – WHERE IS THE OFFICIAL MARK & COMPREHENSIVE INFO?**

GAP90™ installation instructions included in each set contain the 'official' UL mark, category ID, and comprehensive information regarding application and installation of all components. Installation Instructions are also available on [www.ngp.com](http://www.ngp.com) in 8½" x 11" pdf format.

### **GAP90™ – HOW DOES IT CLOSE THE GAP?**

With GAP90™ installed – excessive gap will still be visible. GAP90™ is tested and certified for use on doors WITH excessive gap as it allows them to successfully pass up to a 90 minute UL10C positive pressure fire endurance test and required hose stream test.

### **WHAT SOLUTION IS RECOMMENDED FOR THE MEETING EDGE OF PAIRS?**

Use steel hinge shims behind the hinges to shift the door(s) toward the center and close the gap between the meeting edges. If this causes an excessive gap at the hinge Jamb edge(s), use GAP90™ at the hinge Jamb(s).

Continuous Hinges may also be used to re-hang doors with proper gap at meeting-edge.

### **HOW TO APPLY GAP90™ TO DOOR FRAMES WITH HOSPITAL STOPS?**

The intention of the hospital stop is to allow for easy cleaning of the area where the frame meets the floor. The Steel Stop Extender component (9945) should stop at the miter for the same reasons as the actual hospital stop. The Intumescent component (9400/9400DKB) should continue to the bottom of the frame. Optionally, the TPE Seal (5075CL/5075B) may stop at the miter or continue to the bottom of the frame.

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