

## Super-Duty

Up to 1,060 lbs./pair\*

Single Slot Design

Adjustable in 2" Increments



## 87™ Series Standard & 186™ /187™ Series Bracket System

**Applications** Anochrome (ANO), Galvanized Steel (GALV) and White (WH) finished products are perfect for super-duty storage and display applications for retail stores, grocery stores, warehouses, industrial, repair garages, maintenance storage, business office storage, and residential storage.

304-grade stainless steel (Stainless Steel (SS)) finished products are created for applications requiring strong corrosion and acid resistance, sanitary/easy-to-clean surfaces, or an improved aesthetic appearance: hospitals, commercial kitchens, food processing facilities, laboratories, pharmaceutical industries and outdoor applications\*\*. For long term use, stainless steel can be the least expensive long-term material option.

**Load Rating** Varies per size\*

**Mounting** Wall

**Material**

- 12-gauge steel construction: Anochrome and White
- 14-gauge 304-grade stainless steel construction: Stainless Steel and Galvanized Steel

**Finishes** Anochrome (ANO), Galvanized Steel (GALV), Stainless Steel (SS), White (WH): Attractive, long-lasting, corrosion resistant finishes  
RoHS Compliant: Anochrome (ANO), White (WH)

**Features** Reinforced brackets lock into slotted standards that mount to every type of wall. To ensure the brackets stay in place and the shelving remains stable, every bracket includes an easy-to-operate lock mechanism. Strong, durable, secure weight-bearing support. Accessories include screws, shelf rests (end, center and front), rubber shelf cushions and steel shelving.

### 87 and 87 SS Series Standards

- Dimensions: 7/8" wide x 11/16" deep x selected length
- 12-gauge steel construction: Anochrome and White
- 14-gauge 304-grade stainless steel construction: Stainless Steel and Galvanized Steel
- Made in the USA
- Available from open stock

### 186/187 and 186 SS/187 SS Series Brackets

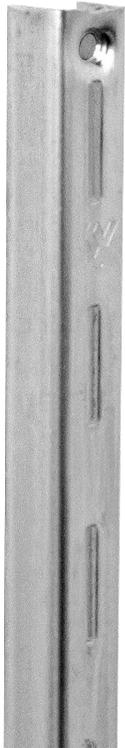
- 12-gauge steel construction: Anochrome and White
- 14-gauge 304-grade stainless steel construction: Stainless Steel and Galvanized Steel
- Vertically adjustable in 2" increments
- Unique, single molded, nylon, cam lock lever allows for easy installation while securing bracket to standard
- 187 brackets include 3 lugs for additional support
- Made in the USA
- Available from open stock

\*Contact KV Customer Service for more information.

\*\*Not applicable for use when non-ferros materials are required.

# 87™ Series Standard & 186™ /187™ Series Bracket System

## 87 Series Standards



Standard Pack (5/box. 65 lbs./100 ft. Stainless Steel standards are shipped with protective vinyl wrap.)			
Size	Anochrome (ANO)	White (WH)	Stainless Steel (SS)
24"	87 ANO 24	87 WH 24	87 SS 24
36"	87 ANO 36	87 WH 36	87 SS 36
48"	87 ANO 48	87 WH 48	87 SS 48
60"	87 ANO 60	87 WH 60	87 SS 60
72"	87 ANO 72	87 WH 72	87 SS 72
84"	87 ANO 84	87 WH 84	
96"	87 ANO 96	87 WH 96	



 Anochrome (ANO)

 White (WH)

Stainless Steel (SS)

## Screws & Accessories



87-10



210



211



212



213



129 RUB

### Screws and Anchors

**Standard Pack** (100/bag. #10 x 2-3/4" screws.)

White (WH)

87-10 WH 100

### End Shelf Rest (Use with 186 and 187 brackets to anchor shelf to bracket at the end of shelving run.)

**Standard Pack** (100/box)

**Anochrome (ANO)**

210 ANO

**White (WH)**

210 WH

### Center Shelf Rest (Use with 186 and 187 brackets to anchor shelf to bracket and/or join two shelves.)

**Standard Pack** (100/box)

**Anochrome (ANO)**

211 ANO

**White (WH)**

211 WH

### Snap-In Center Shelf Support Clip (Use with 186 and 187 brackets to anchor shelf to bracket at the end of shelving run.)

**Standard Pack** (100/carton)

**Zinc (ZC)**

213C ZC

### Front Shelf Rest (Use with 186 and 187 brackets to anchor shelf to bracket and/or join two shelves.)

**Standard Pack** (100/box)

**Anochrome (ANO)**

212 ANO

**White (WH)**

212 WH

### Rubber Shelf Cushion (Use with steel shelf rests.)

**Standard Pack** (100/box)

**Rubber (RUB)**

129 RUB

# 87™ Series Standard & 186™/187™ Series Bracket System

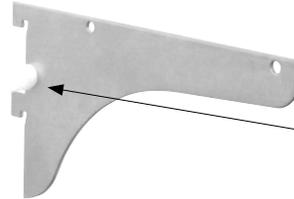
## 186 Series Brackets



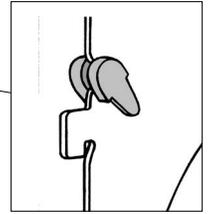
Anochrome (ANO)



White (WH)



Stainless Steel (SS)



Unique cam lock lever allows for easy installation while securing bracket to standard.

Standard Pack (10/pack. Stainless Steel brackets are shipped with protective vinyl wrap.)			
Size	Anochrome (ANO)	White (WH)	Stainless Steel (SS)
8"	186LL ANO 8	186LL WH 8	186LL SS 8
10"	186LL ANO 10	186LL WH 10	186LL SS 10

## 187 Series Brackets



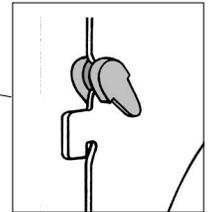
Anochrome (ANO)



White (WH)



Stainless Steel (SS)



Unique cam lock lever allows for easy installation while securing bracket to standard.

Standard Pack (10/pack. Stainless Steel brackets are shipped with protective vinyl wrap.)			
Size	Anochrome (ANO)	White (WH)	Stainless Steel (SS)
12"	187LL ANO 12	187LL WH 12	187LL SS 12
14"	187LL ANO 14	187LL WH 14	187LL SS 14
16"	187LL ANO 16	187LL WH 16	187LL SS 16
18"	187LL ANO 18	187LL WH 18	187LL SS 18
20"	187LL ANO 20	187LL WH 20	187LL SS 20
22"	187LL ANO 22	187LL WH 22	-
24"	187LL ANO 24	187LL WH 24	187LL SS 24

## 1987 Series Steel Shelving

Standard Pack (Shipped with protective vinyl wrap. 5/pack, w/screws; except 20x32: 3/pack, w/screws.)		
Size	Stainless Steel (SS)*	Galvanized Steel (GALV)**
8" x 32"	1987 SS 8X32	1987 GALV 8X32
10" x 32"	1987 SS 10X32	1987 GALV 10X32
12" x 32"	1987 SS 12X32	1987 GALV 12X32
14" x 32"	1987 SS 14X32	1987 GALV 14X32
16" x 32"	1987 SS 16X32	1987 GALV 16X32
20" x 32"	1987 SS 20X32	1987 GALV 20X32



Galvanized Steel (GALV)



Stainless Steel (SS)

\*Designed for use with 87 SS/186 SS/187 SS shelving system.

\*\*Designed for use with 87/186/187 ANO shelving system.

Non-stock item – minimum order quantities and additional lead time may apply.

# 87™ Series Standard & 186™/187™ Series Bracket System

## 1. Product Name

87 Series Wall Standard. 186LL/187LL Series Adjustable Bracket. For heavy-duty shelving in light industrial, commercial, and retail applications. 87 SS Series Wall Standard. 186LL SS/187LL SS Series Adjustable Bracket. 1987 Series Steel Shelving. For light industrial and commercial shelving applications.

## 2. Manufacturer

Knappe & Vogt® Manufacturing Company  
2700 Oak Industrial Dr. NE, Grand Rapids, MI USA 49505-6026  
616.459.3311 | www.kv.com

## 3. Product Description

**Basic Use:** 87 Series Wall Standards and 186LL/187LL Series Adjustable Brackets are manufactured for storage and display applications in retail stores, grocery stores, light warehouses, light industrial, repair garages, maintenance storage, business office storage, residential storage, and other heavy-load situations.

87 SS Series Wall Standards and 186LL SS/187LL SS Series Adjustable Brackets are manufactured for storage applications where a more durable finish is desired, either for hygienic reasons, corrosion concerns or merely an improved aesthetic appearance.

The 186LL/187LL and 186LL SS/187LL SS Series Adjustable Brackets includes a cam lock lever that quickly and firmly secures the bracket in place, minimizing risk of disengagement.

1987 Series Steel Shelving is for use with 186LL SS/187LL SS and 186LL/187LL ANO brackets and is manufactured for storage applications where a more durable finish is required in light warehouses, light industrial, and other light commercial applications. Stainless steel product is ideal for hospitals, laboratories, and commercial kitchens. A mounting screw pack is included.

Accessories include screws, shelf rests (end, center, and front), rubber shelf cushions and steel shelving. Shelf rests are recommended for use with 186LL/187LL Series Adjustable Brackets for anchoring the shelf to the bracket, and for joining two shelves on a single bracket.

### Composition and Materials:

87 Series Wall Standards: 12-gauge steel.

87 SS Series Wall Standards: 14-gauge 204 grade stainless steel.

186LL/187LL Series Adjustable Brackets: 12-gauge steel. Injection-molded thermoplastic polyamide resin lock lever.

186LL SS/187LL SS Series Adjustable Brackets: 14-gauge 204 grade stainless steel. Injection-molded thermoplastic polyamide resin lock lever.

1987 Steel Shelving: 14-gauge 304 grade stainless steel.

### Sizes:

87 & 87 SS Standards: 7/8" wide x 11/16" deep x selected length with 2" slot adjustment.

Stock Lengths: 24", 36", 48", 60", 72", 84", 96" (some lengths are not available in some finishes).

186LL/187LL Brackets: 186 Brackets: 4-5/16" high for shelf depths of 8" and 10".

187 Brackets: 5-1/16" high for shelf depths of 12", 14", 16", and 18"; 6-1/2" high for shelf depths of 20", 22" and 24".

186LL SS/187LL SS Brackets: 186 SS Brackets: 4-5/16" high for shelf depths of 8" and 10". 187 SS Brackets: 5-1/16" high for shelf depths of 12", 14", 16", and 18"; 6-1/2" high for shelf depths of 20" and 24".

1987 Steel Shelving: 32" wide x selected length (8", 10", 12", 14", 16", 20").

### Finishes:

Anochrome (electro zinc-plated and clear lacquered cold rolled steel), Galvanized Steel, Stainless Steel (304 grade w/ brushed finish), White (powder-coat paint). RoHS Compliant: Anochrome (electro zinc-plated and clear lacquered cold rolled steel) and White (powder-coat paint).

## 4. Technical Data

**Applicable Standards:** Standards and Brackets are tested to meet or exceed the ANSI performance standards as established by BHMA in the Knappe & Vogt recommended application. These load limits are intended to be used as general guidelines only, and no warranty — expressed or implied — is made by Knappe & Vogt.

Results were obtained by laboratory testing in accordance with ANSI/ BHMA A156.9-2003 performance standard. (Load ratings based on brackets being mounted on 16" centers. Wider spacing will result in reduced load capacity.) Actual use conditions will typically result in lower load capacity than laboratory conditions.

Representative testing in a fully configured application is the only way to assure proper performance, durability, and safety.

### Environmental Considerations:

**Environment:** Excessive humidity, salts, or other chemical agents can corrode the finish and attack metal or plastic components.

**Fastening:** Inadequate or incorrect fasteners can result in the standards pulling loose and causing damage.

**Alignment:** Improper standard and bracket alignment can result in a system that is ineffective and unsafe.

## 5. Installation

**87 and 87 SS Standards:** For maximum loading capacity, standards should be mounted directly to wall studs, which are generally found at 16" intervals (If standards will not be mounted to studs, use appropriate wall anchors.)

Use the recommended fasteners (#10 x 2-3/4" flat head wood screws / 87-10 WH 100) in all holes to properly secure the standard. Prior to drilling all holes, check to be sure that the standard is vertically level.

**186LL/187LL and 186LL SS/187LL SS Brackets:** Place the bracket into the standard slots. Twist the lever into the locking position. To reconfigure, unlock the lever, then remove the bracket from the standard.

**1987 Shelving:** Standards must be mounted 32" on center with fasteners included (#10 - 24 x 3/8" pan head screws & #10 - 24 lock nuts). Brackets must be installed on the outside of metal shelf. (See illustration on previous page)

## 6. Availability and Cost

**Availability:** Knappe & Vogt (KV) products are available from stocking distributors and through KV Representatives worldwide.

**Cost:** Current pricing is available from area KV Representatives. Please call for the nearest representative at: 800.253.1561.

## 7. Warranty

**Limited Lifetime Warranty:** Knappe & Vogt offers its standard Limited Lifetime Warranty to the initial purchaser of commercial products. This warranty covers defects in materials and workmanship which occur during normal use, and the remedy is limited to repair or replacement of defective products, at KV's option. Certain types of defects and damage are excluded from warranty coverage, costs and expenses are not covered, and additional restrictions apply. A copy of the Limited Lifetime Warranty, with all warranty details, limitations and disclaimers, is available on the Customer Care Connection location at www.kv.com or from KV Customer Service, 2700 Oak Industrial Drive, Grand Rapids, MI 49505, 800.253.1561.

## 8. Maintenance

87 and 87 SS Series Wall Standards, 186LL/187LL and 186LL SS/187LL SS Series Adjustable Brackets, and 1987 Steel Shelving require no maintenance. Inspect for proper fit periodically and adjust when necessary. Replace as required or recommended by application.

## 9. Technical Services

Knappe & Vogt and area representatives can assist with any application. For further information, or for the name of the representative nearest you, please call Knappe & Vogt Customer Service: 800.253.1561 or visit our website at: www.kv.com.

## 10. Filing Systems

Additional product information, data sheets, application sheets, and a full catalog are available upon request from Knappe & Vogt.



**KNAPE & VOGT**

2700 Oak Industrial Dr. NE  
Grand Rapids, MI 49505-6026 USA  
1.800.253.1561 | 616.459.3311  
Fax: 877.636.3290  
www.kv.com

**BHMA**

Knappe & Vogt shelving products follow the ANSI testing standards established by BHMA.

*This and other KV literature is available for download at [www.kv.com](http://www.kv.com) > Resource Library*  
*Knappe & Vogt reserves the right to change product specifications at any time without notice and without incurring responsibility for existing units. This information conforms to editorial style prescribed by The Construction Specifications Institute.*  
*©2016 Knappe & Vogt. KV and the KV logo are trademarks of Knappe & Vogt.*