



**National
Hardware™**



**HEAVY DUTY
REINFORCEMENT**



HEAVY DUTY REINFORCEMENT

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A Complete Line of Metal Products for Residential and Commercial Applications

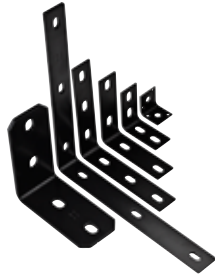
National Hardware's line of Heavy Duty Reinforcement Hardware is widely used in commercial and industrial applications for the reinforcement of building components. Products are offered in a variety of angles and configurations, specifically created to facilitate the safest and strongest attaching, connecting, aligning and splicing of materials. All of National Hardware's Heavy Duty Reinforcement products are engineered and tested to meet or exceed industry standards for quality and safety. They are also finished with a black powder coat for weather resistance.

For additional information about specific heavy duty reinforcement products, please refer to the Heavy Duty Reinforcement merchandising catalog.





STRAP BRACES



CORNER BRACES



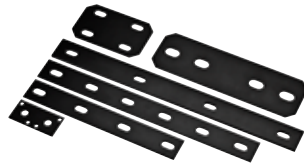
CORNER BRACES - OFFSET LEG



WIDE CORNER BRACES



SQUARE CORNER BRACES



MENDING PLATES



CORNER PLATES



BAR HOLDERS



STRAP BRACES - 45° FLAT

Used to strengthen a 90 degree angle by flat attachment to the side at a 45 degree angle. 45 degree hole pattern for nails provides easy installation option.



| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|--|
| N351-470 | 1121BC | 17X1.5X1/8 | 6 | clearance for 5/16" bolt or 2 nails per side |
| N351-471 | 1121BC | 14X1.5X1/8 | 6 | clearance for 5/16" bolt or 2 nails per side |
| N351-472 | 1121BC | 10X1.5X1/8 | 6 | clearance for 5/16" bolt or 2 nails per side |



STRAP BRACES - 90° SUPPORT

Used to support a load at a 45 degree angle by attaching to the inside of a 90 degree angle. 45 degree hole pattern for nails provides easy installation option.



| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|--|
| N351-473 | 1122BC | 16.3X1.5X1/8 | 6 | clearance for 5/16" bolt or 2 nails per side |
| N351-474 | 1122BC | 13.3X1.5X1/8 | 6 | clearance for 5/16" bolt or 2 nails per side |
| N351-475 | 1122BC | 9.3X1.5X1/8 | 6 | clearance for 5/16" bolt or 2 nails per side |



CORNER BRACES

Used for reinforcing 90 degree angles by applying to the inside or outside of the corner.

| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|---------------|-------|-------------------------------|
| N351-463 | 1151BC | 3.1X1.5X1/8 | 4 | slots for 5/16" carriage bolt |
| N351-464 | 1151BC | 5.1X1.5X1/8 | 4 | slots for 5/16" carriage bolt |
| N351-465 | 1151BC | 7.1X1.5X1/8 | 6 | slots for 5/16" carriage bolt |
| N351-466 | 1151BC | 6.25X1.5X1/4 | 4 | slots for 5/16" carriage bolt |
| N351-467 | 1151BC | 8.25X1.5X1/4 | 4 | slots for 5/16" carriage bolt |
| N351-468 | 1151BC | 10.25X1.5X1/4 | 6 | slots for 5/16" carriage bolt |
| N351-469 | 1151BC | 12.25X1.5X1/4 | 6 | slots for 5/16" carriage bolt |



CORNER BRACES - 45° HOLES

Used for reinforcing 90 degree angles by applying to the inside or outside of the corner. 45 degree hole pattern for nails provides easy installation option.

| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|--|
| N351-482 | 1211BC | 1.65X1.5X1/8 | 6 | clearance for 5/16" bolt or 2 nails per side |



CORNER BRACES - STRUCTURAL, CHAMFERED

Used for reinforcing 90 degree angles by applying to the inside or outside of the corner. 45 degree hole pattern for nails provides easy installation option.

| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|------------------------------|
| N351-500 | 1156BC | 4.9X3X1/8 | 4 | slots for 1/2" carriage bolt |
| N351-501 | 1157BC | 6.2X3X1/8 | 4 | slots for 1/2" carriage bolt |



CORNER BRACES - OFFSET LEG

Used to reinforce a 90 degree angle through application on the inside. Extra length on one leg gives extra reach to provide greater stability.

| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|------------------|-------|---------------------|
| N351-476 | 1152BC | 2.5,1.6X1.5X1/8 | 2 | 1/2" diameter holes |
| N351-477 | 1152BC | 3.5,1.6X1.5X1/8 | 3 | 1/2" diameter holes |
| N351-478 | 1152BC | 7.5,1.6X1.5X1/8 | 3 | 1/2" diameter holes |
| N351-479 | 1152BC | 3.5,1.6X1.5X3/16 | 3 | 1/2" diameter holes |
| N351-480 | 1152BC | 7.5,1.6X1.5X3/16 | 3 | 1/2" diameter holes |



CORNER BRACES - OFFSET LEG, 45° HOLES

Used to reinforce a 90 degree angle through application on the inside. Extra length on one leg gives extra reach to provide greater stability. 45 degree hole pattern for nails provides easy installation option.

| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|------------------|-------|--|
| N351-481 | 1153BC | 2.94,1.7X1.5X1/8 | 6 | clearance for 5/16" bolt or 2 nails per side |



CORNER BRACES - OFFSET LEG, CHAMFERED

Used to reinforce a 90 degree angle through application on the inside. Extra length on one leg gives extra reach to provide greater stability. Chamfered corners provide decorative look.

| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|------------------------------|
| N351-498 | 1155BC | 6.8,3X3X1/8 | 3 | slots for 1/2" carriage bolt |
| N351-499 | 1155BC | 6.8,3X3X3/16 | 3 | slots for 1/2" carriage bolt |



WIDE CORNER BRACES



WIDE CORNER BRACE

Used for reinforcing 90 degree angles by applying to the inside or outside of the corner. Wider width provides greater area of stability for long intersections of building materials.

| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|---------------------|
| N351-483 | 1212BC | 1.6X3X1/8 | 4 | 3/8" diameter holes |
| N351-484 | 1212BC | 1.6X5X1/8 | 4 | 3/8" diameter holes |
| N351-486 | 1212BC | 1.6X7X1/8 | 4 | 3/8" diameter holes |
| N351-487 | 1213BC | 1.6X9X1/8 | 6 | 3/8" diameter holes |

WIDE CORNER BRACE - STRUCTURAL

Used for reinforcing 90 degree angles by applying to the inside or outside of the corner. Wider width provides greater area of stability for long intersections of building materials. Larger bolt holes provide options for structural support.



| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|------------------------------|
| N351-488 | 1214BC | 2.1X5X1/8 | 4 | slots for 1/2" carriage bolt |
| N351-489 | 1214BC | 2.1X7X1/8 | 4 | slots for 1/2" carriage bolt |
| N351-491 | 1214BC | 2.1X9X1/8 | 6 | slots for 1/2" carriage bolt |

WIDE CORNER BRACE - STRUCTURAL (CUT FROM ROLLED STRUCTURAL STEEL)

Used for reinforcing 90 degree angles by applying to the inside or outside of the corner. Wider width provides greater area of stability for long intersections of building materials. Larger bolt holes provide options for structural support. Angle is cut from rolled structural steel and provides greater reinforcement strength than if the steel was bent into shape. Meets ASTM A6.



| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|------------------------------|
| N351-492 | 1216BC | 3X4.6X1/4 | 4 | slots for 1/2" carriage bolt |
| N351-493 | 1216BC | 3X6.6X1/4 | 4 | slots for 1/2" carriage bolt |

SQUARE CORNER BRACES



SQUARE CORNER BRACE - CHAMFERED

Used for reinforcing 90 degree angles by applying to the inside or outside of the corner. Square shape and multiple bolt slots per side provide greater area of stability for wider pieces of building materials. Chamfered corners provide decorative look. Available in two thicknesses of material for variety in application need.

| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|-------------------------------|
| N351-494 | 1217BC | 2.4X3X1/8 | 4 | slots for 5/16" carriage bolt |
| N351-495 | 1217BC | 2.4X3X3/16 | 4 | slots for 5/16" carriage bolt |

SQUARE CORNER BRACE - ROUNDED

Used for reinforcing 90 degree angles by applying to the inside or outside of the corner. Square shape provides greater area of stability for wider pieces of building materials. Single bolt holes for easy installation. Rounded corners provide clean look. Available in two thicknesses of material for variety in application need.



| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|------------------------------|
| N351-496 | 1154BC | 2.4X3X1/8 | 2 | slots for 1/2" carriage bolt |
| N351-497 | 1154BC | 2.4X3X3/16 | 2 | slots for 1/2" carriage bolt |



MENDING PLATES - RECTANGULAR

Used for attaching, connecting, aligning, and splicing materials. Chamfered corners provide decorative look.

| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|------------------------------|
| N351-453 | 1183BC | 9.5X3X1/8 | 4 | slots for 1/2" carriage bolt |

MENDING PLATES - 45° HOLES

Used for reinforcing two miter joint pieces that create a 90 degree angle. 45 degree hole pattern for nails provides easy installation option.

| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|--|
| N351-454 | 1182BC | 3X1.3X1/8 | 6 | clearance for 5/16" bolt or 2 nails per side |

MENDING PLATES - LONG

Used for reinforcing, attaching, connecting, aligning, and splicing materials

| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|-------------------------------|
| N351-455 | 1181BC | 6X1.5X1/8 | 4 | slots for 5/16" carriage bolt |
| N351-456 | 1181BC | 10X1.5X1/8 | 4 | slots for 5/16" carriage bolt |
| N351-457 | 1181BC | 14X1.5X1/8 | 6 | slots for 5/16" carriage bolt |
| N351-458 | 1181BC | 16X1.5X1/4 | 4 | slots for 5/16" carriage bolt |
| N351-459 | 1181BC | 20X1.5X1/4 | 6 | slots for 5/16" carriage bolt |
| N351-461 | 1181BC | 24X1.5X1/4 | 6 | slots for 5/16" carriage bolt |

MENDING PLATES - SQUARE

Used for attaching, connecting, aligning, and splicing materials. Chamfered corners provide decorative look.

| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|-------------------------------|
| N351-462 | 1184BC | 4.7X3X1/8 | 4 | slots for 5/16" carriage bolt |

CORNER PLATE

Used to reinforce 90 degree angles of building materials by applying to the side of the angle.

| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|-------------------------------|
| N351-504 | 1175BC | 4.5X1.5X1/8 | 4 | slots for 5/16" carriage bolt |
| N351-505 | 1175BC | 6.5X1.5X1/8 | 4 | slots for 5/16" carriage bolt |

CORNER PLATE - STRUCTURAL

Used to reinforce 90 degree angles with miter joint by applying to the side of the angle. Plate width and bolt hole locations provide options for structural support.

| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|--------------------|
| N351-506 | 1176BC | 6X3X1/8 | 4 | 5/8" diameter hole |



CLOSED BAR HOLDER

Used to reinforce doorways against forced entry by providing secure placement of a 2x4 against entry side of door. 2x4 must be slid through the bar holders.



| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|--------------------------|
| N351-502 | 14BC | 6.4X1.5 | 4 | clearance for 1/4" bolts |



OPEN BAR HOLDER

Used to reinforce doorways against forced entry by providing secure placement of a 2x4 against entry side of door. 2x4 may be lifted up out of bar holders.



| SKU | Family | Product Size | Holes | Hole Specs |
|----------|--------|--------------|-------|--------------------------|
| N351-503 | 15BC | 6.3X1.5 | 3 | clearance for 1/4" bolts |

Terms And Conditions Of Sale

All orders, whether solicited or written by our sales representatives or forwarded by our customers are deemed to be mere offers to purchase in accordance with these Terms and Conditions of Sale until actually accepted in writing. We reserve the right to refuse any orders as well as the right to sell or not sell to any firm at our sole discretion. The acceptance of any order is expressly made conditional upon your assent to these Terms and Conditions of Sale. We object to the inclusion of any different or additional terms or conditions, even if the same are included in your order, a contract of sale will result upon the Terms and Conditions of Sale stated herein only.

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Upon return of a defective product, National Hardware shall either replace the product or refund the purchase price, at our discretion, in accordance with our standard warranty. National Hardware is not responsible for incidental or consequential damages. Some states do not allow the exclusion of limitation of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

Caution

These products do not have a declared safe working load due to application variances. Determination of proper use is the responsibility of end user.



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