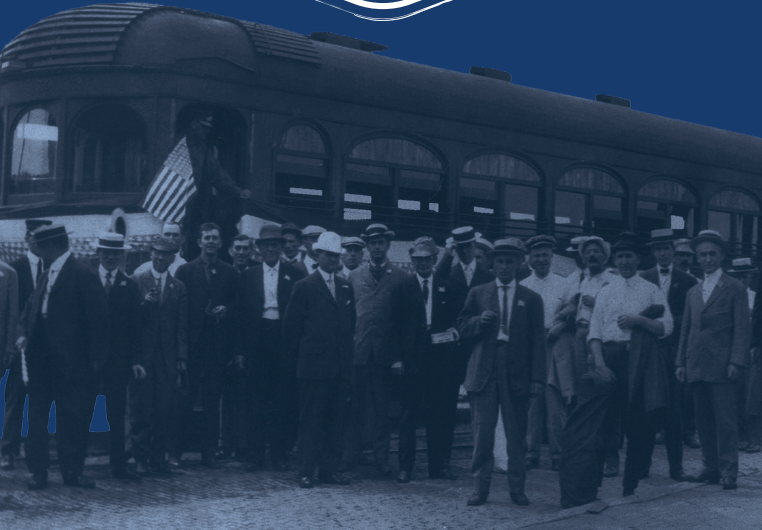




National
Hardware®



**HEAVY DUTY
REINFORCEMENT**



**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 our website:
national-hardware.com

**REAL HARDWARE. REAL EXPERIENCE.
REAL RESULTS.™**



HEAVY DUTY REINFORCEMENT

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STRAP BRACES



STRAP BRACES



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
N351-472	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	16x1.5x1/8	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



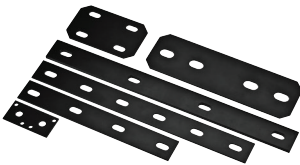
CORNER BRACES - OFFSET LEG



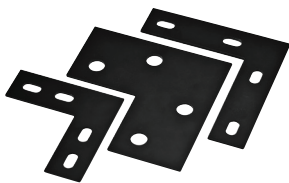
WIDE CORNER BRACES



SQUARE CORNER BRACES



MENDING PLATES



CORNER PLATES



BAR HOLDERS

CORNER BRACES



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 - 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
N351-500	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



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	1212BC	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
N351-491	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



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 1/2" carriage bolt

CORNER PLATES



CORNER PLATES

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	5/16" diameter holes

BAR HOLDERS



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

Product Warranty

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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