West Greenwich, RI 02817

Extra Width Extension (Extension is wider than attaching stairs)


## STAIR EXTENSION PLATFORM

 ASSEMBLY MANUAL Stadard Stair Extension (Stair and extension are same width)Stair and Extension Connection


## Instructions Apply To All Extension Types

1. Position the two extension channels on blocks or dunnage in order to allow installation of the deck panels shown on the deck layout page, located in the components section of these instructions (See Sheets in the $\mathbf{5 0 0 0}$ series). Starting at the stair end of the channels start with deck piece $A$ (tread) and follow the order of pieces shown on the deck layout page. If your extension is the center of a crossover stair, there will be a piece $A$ (tread) at each end of the extension.


1A) If the stair extension length is less than 60 " skip this step, else install an extension cross tie between the bottoms of the extension channels near center of the extension length as shown if figure 1 A , using the same $3 / 8$ " hardware as Step 1.

FIGURE 1A



Cross Tie Hardware Use: 4 of each
3/8" - $16 \times 1$ 1-1/2 HHCS
3/8" Flat Washer 3/8" Lock Washer 3/8" - 16 Hex Nut
2. If your extension exits left, right or dead ends, install the separate handrail frame on the extension end opposite the stair end using $1 / 2^{\prime \prime}$ hardware.

3. If your extension is wider than your stair you will be provided support plates to adapt the extension to the stair. Install the support plate on the stair end of the extension as shown on the next page or else skip this step if stair and extension are the same width. If your extra width support plate is wider than 4 ", you will be provided a filler handrail piece which bolts to the top of the support plate. Bolt this handrail now as shown.

Handrail End Frame

Hardware Use:
$1 / 2 "-13 \times 2-1 / 2$ HHCS
1/2" - Lock Washer
1/2" - 13 Hex Nut
(STEP 3)




Extended Exit Support Plate - Right with Handrail Plate


Extra Width Extension Support
Plate Shown Bolted in Place Using
(4) $5 / 8$ "- $11 \times 2$ " Bolts With Loc

Washer and Hex Nuts Provided
MAKE: $\qquad$

(STEP 3)
Note: This Plate is Provided for Extra Width Extension Dimensions of 4" or Less


[^0]4. Elevate the extension platform to the appropriate height and safely secure it in a stable position.
5. If optional support columns were ordered, attach them to the inside of the extension channels as shown in sheet AI2000-8 which will be included here or else skip this step.
6. Elevate the completed stair into position and connect to the extension channels or to the extra width support plates as shown here using $5 / 8$ " hardware.
7. Square and level the assembled structure and anchor in place. (Anchors not provided unless ordered separately.)
8. If provided install the diagonal cross braces on the support columns (only required on heights greater than 72"). Refer to sheet AI2000-9 or else skip this step.
9. If optional extension wall brackets were ordered they can be attached to the bottom flange of the extension channel using a tek screw per sheet AI2000-10.


If stair was supplied with an extension platform or landing, the top mounting hardware is supplied using (4) $5 / 8>-11 \times 2$ bolts, lock washers, and hex nuts.

## EXTENSION SUPPORT COLUMNS PROVIDED AS CUSTOMER ORDERED OPTIONS



COLUMN SIZE:
$\qquad$ x $\qquad$ x $\qquad$ Square Tube

Cut length $=$ $\qquad$


FOOT PLATE
Size: $\qquad$ x $\qquad$ x $\qquad$
MAKE: $\qquad$

## SWAY BRACES PROVIDED FOR COLUMNS OVER 72" HIGH 1/4" x 2" SWAY BRACE FOR SUPPORT COLUMNS



## Hardware Use: <br> 3/8" - $16 \times 1$ 1-1/2 GR 5 HHCS <br> 3/8" Lockwasher <br> 3/8" - 16 GR 5 Hex Nut

Tek Screw

1/4-14 x 1-1/2" Tek Screw


6-000ZIV


Tek Angle Clip under Extension Channel Bottom Flange


WALL LAGS NOT PROVIDED


Begin by attaching 1 Pc 'A' on the Stair End
Continue by adding all Pc 'B', then all Pc 'C'
Finish by adding 1 Pc 'A'

PLEASE NOTE:
Number of pieces shown are for layout orientation only. Refer to quantities below for number of pieces per crossover.


USE: $\qquad$ TREADS


USE: $\qquad$ FILL PANELS



USE: $\qquad$ FILL PLATES



Begin by attaching 1 Pc 'A' on the Stair End
Continue by adding all Pc 'B'
Finish by adding all Pc 'C'

## PLEASE NOTE:

Number of pieces shown are for layout orientation only. Refer to quantities below for number of pieces per extension.


USE: $\qquad$ TREADS


USE: $\qquad$ FILL PANELS


Bar Grating Tread Deck and Channel Drill Sheet


Begin by attaching 1 Pc ' $A$ ' on the Stair End
Continue by adding all $P c$ 'B', then all Pc 'C'
Finish by adding 1 Pc 'A'

PLEASE NOTE:
Number of pieces shown are for layout orientation only. Refer to quantities below for number of pieces per crossover.


MAKE: $\qquad$ TREADS


MAKE: $\qquad$ FILL PANELS


MAKE: $\qquad$ FILL PLATES

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Begin by attaching 1 Pc 'A' on the Stair End
Continue by adding all Pc 'B'
Finish by adding all Pc 'C'
PLEASE NOTE:
Number of pieces shown are for layout orientation only. Refer to quantities below for number of pieces per extension.


MAKE: $\qquad$ TREADS


MAKE: $\qquad$ FILL PANELS


SHOP NOTE: ALL HOLES TO BE 7/16"


Begin by attaching 1 Pc 'A' on the Stair End Continue by adding all Pc 'B', then all Pc 'C' Finish by adding 1 Pc 'A'


MAKE: $\qquad$ TREADS


MAKE: $\qquad$ FILL PANELS

MAKE: $\qquad$ FILL PLATES


Begin by attaching 1 Pc ' $A$ ' on the Stair End
Continue by adding all Pc 'B'
Finish by adding all Pc 'C'
PLEASE NOTE:
Number of pieces shown are for layout orientation only. Refer to quantities below for number of pieces per crossover.


MAKE: $\qquad$ TREADS

MAKE: $\qquad$ FILL PANELS
MAKE: $\qquad$ FILL PLATES



Begin by attaching 1 Pc 'A' on the Stair End
Continue by adding all Pc 'B', then all Pc 'C'
Finish by adding 1 Pc 'A'

PLEASE NOTE:
Number of pieces shown are for layout orientation only. Refer to quantities below for number of pieces per crossover.


MAKE: $\qquad$ TREADS


MAKE: $\qquad$ (Add'l Treads)


MAKE: $\qquad$ FILL PLATES


Begin by attaching 1 Pc 'A' on the Stair End
Continue by adding all Pc 'B'
Finish by adding all Pc 'C'
PLEASE NOTE:
Number of pieces shown are for layout orientation only. Refer to quantities below for number of pieces per extension.


MAKE: $\qquad$ TREADS


MAKE: $\qquad$ (Add'l Treads)


MAKE: $\qquad$ FILL PLATES

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## STAIR ASSEMBLY MANUAL FOR ALL TYPES



I-000IIV

COVER

1. Assemble stair stringers by installing top and bottom treads using 3/8" bolts. NOTE: IF STAIR IS AN ALTERNATING TREAD DESIGN SKIP TO NEXT PAGE AI1000-2A
2. Lift stair assembly into position and attach to top mounting location (hardware not supplied). Note: Based on stair height and weight some individuals prefer to install all treads prior to placement.

Stair Stringer 3/4" Mounting Holes


If stair was supplied with an extension platform or landing, the top mounting hardware is supplied using (4) $5 / 8$ " -11 x 2 bolts, lock washers, and hex nuts.

Tread Hardware Use:
3/8"-16 x 1-1/2 HHCS
3/8" Flat Washer
3/8" Lock Washer 3/8" - 16 Hex Nut


If stair was supplied with an extension platform or landing, the top mounting hardware is supplied using (4) $5 / 8$ "-11 x 2 bolts, lock washers, and hex nuts.

1. Assemble stair stringers by installing top two and bottom two treads using $3 / 8$ " bolts. Also attach the bottom plate using $3 / 8$ " hardware.
2. Lift stair assembly into position and attach to top mounting location (hardware not supplied). Note: Based on stair height and weight some individuals prefer to install all treads prior to placement.

Tread Hardware Use:
3/8" - $16 \times 1-1 / 2$ HHCS
3/8" Flat Washer
3/8" Lock Washer
3/8" - 16 Hex Nut




Bottom View of IBCB Dog Leg


Angled Strap TK100


For many stair tower installations, it is sometimes necessary to connect stair handrails using a "dog leg" design. The figure on left shows the connection method used for single handrail connections.

Clamp and align the connecting handrail pieces so that they provide a smooth and continuous transition from one rail to the next.

Join the underside of the butting handrails using a 4" $\mathbf{x} 1 / 2 "$ flat strap (\#T103) and \#8 x 1 modified truss head tek screws. (\#TK101) See Photo on the left. If the handrail sections are inclined or at $90^{\circ}$ to one another use a $4 " x 1 / 2 "$ angled strap (\#TK100) or a right angle strap (\#TK104) to connect the rails. See photos above. Note: Connecting straps are always attached to underside center of handrail sections.

For right angle handrail connections use a 2 " $\times 1 / 2 "$ flat strap (\#TK102) see photo below.


## For stairs made for IBC industrial conformance (outboard guard type IIOS)




[^0]:    Extended Exit Support Plate - Left or Right

