Assembly Instruction

1 IF NOT DONE SO ALREADY UNPACK FRAME SUB-ASSEMBLY SECTIONS AND SPREAD OUT FOR ACCESS AND IDENTIFICATION IN THE LATER STEPS OF ASSEMBLY. (FIGURE A).

LOCATE AND REFERENCE UNIT AI SHEET THAT INCLUDES FRAME DIMENSION REFERENCES AND PARTS LIST.

2 SELECT A FRAME SUB-ASSEMBLY AND MOVE TO WORK AREA (IF NEEDED), LAY THE ASSEMBLY HORIZONTALLY ON THE WORKSURFACE. NOTE THE 3 HOLE PATTERN (FIGURE B) FEATURES AT THE DIFFERENT LEVELS. FROM THE HARDWARE KIT RETRIEVE THE JUNCTION BLOCKS (FIGURE C) AND POSITION ONE AT EACH 3 HOLE PATTERN SO THAT THE BOSSES ENGAGE THE UPPER AND LOWER HOLE OF EACH PATTERN (FIGURE D). THE BOSS FEATURES WILL BE A LIGHT PRESS FIT INTO THE HOLES.

3 RETRIEVE THE PACK OF SCREWS FROM THE HARDWARE KIT. AT EACH JUNCTION BLOCK START AND RUNDOWN A SCREW THROUGH THE CAVITY IN THE JUNCTION BLOCK (FIGURE D) AND INTO THE FRAME. THIS WILL SECURE THE BLOCK TO THE VERTICAL FRAME SECTION.

NOTE: AN IMPACT DRIVER MAY BE USED BUT EXCESSIVE DRIVING CAN STRIP THE THREADS IN THE FRAME. IT IS ADVISABLE TO STOP DRIVING IMMEDIATELY AFTER THERE’S AUDIBLE IMPACTS. IF A DRILL DRIVER IS USED A LOWER CLUTCH SETTING IS RECOMMENDED.

LOCHLYN FREESTANDING FRAME BUILD

TOOLS REQUIRED
IMPACT DRIVER OR DRILL DRIVER WITH #2 PHILLIPS BIT

TOOLS REQ. (FLOOR ANCHORING)
HAMMER DRILL
DRILL DRIVER

HARDWARE
M4 X 12MM THREAD FORMING SCREWS
QTY VARIES BY MODEL

JUNCTION BLOCKS
QTY VARIES BY MODEL

PLASTIC CAPS
QTY VARIES BY MODEL

HARDWARE (FLOOR ANCHORING)
SEE PG. 7 FOR RECOMMENDATIONS
IF APPLICABLE FLIP OVER FRAME SECTION (FIGURE E) AND REPEAT STEPS 2 & 3 FOR ANY 3 HOLE PATTERNS ON THE 2ND SIDE (FIGURE F).

REPEAT STEPS 2-4 ON REMAINING FRAME SECTIONS. THERE SHOULDN'T BE ANY REMAINING JUNCTION BLOCKS FROM THE HARDWARE BAG OR OPEN 3 HOLE PATTERNS AFTER THESE STEPS ARE COMPLETE (FIGURE G).

RETRIEVE THE UNIT REFERENCE AI SHEET WITH IMAGE OF ASSEMBLED UNIT. USE THIS TO IDENTIFY THE POSITION OF EACH SUB-ASSEMBLY WITH RESPECT TO THE FINISHED UNIT. ARRANGE THE SUB-ASSEMBLIES IN THAT ORDER ON THE GROUND TO FACILITATE ASSEMBLY OF THE HORIZONTAL MEMBERS.

NOTE 1: END ASSEMBLIES ONLY HAVE JUNCTION BLOCKS ON ONE SIDE.

NOTE 2: FOR EACH HORIZONTAL FRAME SECTION THERE WILL BE A MATCHED PAIR OF JUNCTION BLOCKS.
7 BEGIN WITH ONE OF THE END FRAME SECTIONS AND LOCATE THE APPROPRIATE HORIZONTAL MEMBERS OVER THE JUNCTION BLOCKS (FIGURE I).

NOTE: ENSURE THE HORIZONTAL MEMBERS ARE ALIGNED PROPERLY. THE EXTRUDED LIP SHOULD FACE THE INTERIOR OF THE FRAME SECTION AND THE COUNTER SUNK HOLES SHOULD FACE DOWN TOWARDS THE GLIDES.

NOTE: ON SOME FRAME UNITS THERE ARE DIFFERENT LENGTH HORIZONTAL MEMBERS FROM ONE COLUMN TO THE NEXT. REFERENCE THE UNIT AI SHEET TO DETERMINE WHICH LENGTH MEMBER IS CORRECT. IF THERE’S ONLY ONE LENGTH OF HORIZONTAL FRAME MEMBER ON THE REF. AI SHEET THEN DISREGARD THIS NOTE.

NOTE: DO NOT DEVIATE FROM THE PROVIDED AI SHEET AND INSTALL DIFFERENT FRAME LENGTHS TO DIFFERENT COLUMNS. THIS WILL CAUSE ISSUES WITH INSTALLATION OF MODULES AND SHELVES.

8 START AND RUNDOWN A SCREW THROUGH THE HORIZONTAL MEMBER INTO THE JUNCTION BLOCK TO FIX THE MEMBER TO THE FRAME (FIGURE J). INSTALL ALL MEMBERS TO THIS SUB-ASSEMBLY SECTION.

NOTE: AN IMPACT DRIVER MAY BE USED BUT EXCESSIVE DRIVING CAN STRIP THE THREADS IN THE BLOCK. IT IS ADVISABLE TO STOP DRIVING IMMEDIATELY AFTER THERE’S AUDIBLE IMPACTS. IF A DRILL DRIVER IS USED A LOWER CLUTCH SETTING IS RECOMMENDED.
9 Identify the next section of the frame and lay overtop of the horizontals of the last section. Starting from one end, work the horizontals around until they engage with the junction blocks. Work your way down the levels until all junction blocks are started into the frame members. The sub-assembly should fit near flush with the frame members (FIGURE K).

**NOTE:** While assistance is helpful and advisable for building frame units once the frame section, to be installed, is positioned on top of the horizontal members, it is easier if only one person adjusts the members to start the blocks into the frame. During this step, others helping should act as spotters.

10 Install screws at each of the junction blocks to fix the sub-assembly to the frame (FIGURE L).

11 Repeat steps 7-10 until all horizontal members and sub-assembly sections are installed. Ensure all horizontal members and sub-assembly sections are in correct alignment (FIGURE M).

Proper product installation, in accordance with these instructions, is the responsibility of the installing agent. If you have any questions concerning these instructions, please call National Customer Service 800.482.1717.
WITH ALL FRAME SECTIONS INSTALLED CAREFULLY STAND THE FRAME ASSEMBLY UPRIGHT ONTO ITS GLIDES (FIGURE N).

INSTALL PLASTIC CAPS FROM HARDWARE BAG ON THE TOP OF EACH VERTICAL SECTION (FIGURE O).

POSITION FRAME UNIT IN FINAL INSTALLATION LOCATION AND LEVEL THE UNIT WITH THE PROVIDED GUIDES.

IF INSTALLING A ONE (1) OR TWO (2) TIER UNIT THIS COMPLETES INSTALLATION OF THE FRAME.

IF INSTALLING A THREE (3) THROUGH SIX (6) TIER UNIT CONTINUE ONTO NEXT STEPS.
15 FLOOR ANCHORING REQUIREMENTS

ALL FRAME UNITS FROM THREE (3) TIERS THROUGH SIX (6) TIERS ARE REQUIRED TO BE PERMANENTLY ANCHORED TO THE FLOOR REGARDLESS OF CONFIGURATION, USAGE, OR IF MULTIPLE UNITS ARE GANGED TOGETHER. ALL FRAMES WILL HAVE AT LEAST FOUR (4) ANCHOR PLATES MOUNTED TO THE GLIDES ON BOTH END FRAME SECTIONS.

90" AND 96" UNITS MUST HAVE SIX (6) ANCHOR PLATES TOTAL.

90" UNITS HAVE TWO (2) ADDITIONAL ANCHOR PLATES ON THE INTERIOR SECTIONS. ONE (1) ON EACH SECTION THAT ARE MOUNTED ON THE OPPOSITE SIDES FROM THE OTHER (FIGURE P). IF BOTH PLATES ARE ON THE SAME SIDE, UNINSTALL ONE (1) PLATE AND RE-INSTALL IT TO THE GLIDE ON THE OPPOSITE SIDE.

96" UNITS HAVE TWO (2) ADDITIONAL ANCHOR PLATES, BOTH ARE MOUNTED ON THE MIDDLE SECTION (FIGURE Q).

SEE UNIT AI SHEET FOR REFERENCE ON ANCHOR PLATE

CONTACT CUSTOMER SERVICE IF ANCHOR PLATES ARE MISSING OR DAMAGED. DO NOT INSTALL FRAMES WITH LESS THAN THE REQUIRED AMOUNT OF PLATES.

DO NOT INSTALL SHELVES, MODULES, OR TOPS ONTO THE FRAME UNTIL ITS LEVELED AND PERMANENTLY ANCHORED.

FIGURE P

FIGURE Q
16 ANCHOR PLATES CAN BE MOUNTED WITH EITHER A BOLT OR SCREW DEPENDING ON THE SUB–FLOOR. SEE TABLE (FIGURE R) FOR RECOMMENDED HARDWARE FOR VARIOUS FLOOR TYPES. IF THERE ARE ANY QUESTIONS CONCERNING FLOOR TYPES CONSULT AN ARCHITECT OR STRUCTURAL ENGINEER.

NOTE: ANCHOR PLATES CAN BE MOUNTED IN ANY POSITION RADIAL ABOUT THE GLIDE THEY’RE ATTACHED TO.

NOTE: THERE ARE TWO MOUNTING LOCATIONS ON THE ANCHOR BOLT. THE THRU HOLE IS SIZED FOR #8 SCREWS AND THE SLOT IS SIZED FOR 1/4 BOLTS AND SCREWS.

NOTE: IF MINIMIZING VISUAL IMPACT OF REQUIRED ANCHORS IS A CONCERN IT IS RECOMMENDED TO ALIGN THE ANCHOR PLATE AXIALLY UNDERNEATH THE DEPTH CROSS MEMBERS OF THE SUB ASSEMBLY FRAME SECTIONS. USING A BOLT WILL BE REQUIRED IN THIS SCENARIO AS THERE WILL BE WRENCH ACCESS ONLY.

### RECOMMENDED FASTENER

<table>
<thead>
<tr>
<th>FLOOR TYP. / FASTENER DESCRIPTION</th>
<th>SIZE</th>
<th>MODEL #</th>
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<tbody>
<tr>
<td>WOOD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAN HEAD SHEET METAL SCREW</td>
<td>#8 X 2 1/4&quot; PHP</td>
<td></td>
</tr>
<tr>
<td>NUT AND BOLT (THRU FLOOR)</td>
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</tr>
<tr>
<td>CONCRETE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CROWN BOLT W/ LAG SHIELD</td>
<td>1/4&quot; X 2 1/4&quot;</td>
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<tr>
<td>BUILDEX TAPCON CONCRETE Anchor Screw</td>
<td>1/4&quot; X 2 3/4&quot;</td>
<td>24385</td>
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FIGURE R

17 WITH FRAME IN FINAL INSTALLED LOCATION. POSITION THE ANCHOR PLATES WHERE THEY ARE TO BE INSTALLED.

NOTE: IF JOINING MULTIPLE UNITS WITH A GANGING KIT. BUILD AND POSITION ALL FRAMES IN THEIR FINAL LOCATION, THEN INSTALL GANGING KITS PRIOR TO ANCHORING.

18 (IF REQUIRED) MARK LOCATIONS TO DRILL OUT PILOT Holes FOR EACH OF THE ANCHOR PLATES.

19 MOVE FRAME OUT OF THE WAY AND DRILL APPROPRIATE PILOT HOLES FOR THE FASTENER SELECTED. (IF APPLICABLE) START ANCHORS INTO PILOT HOLES.

20 REPOSITION FRAME BACK INTO FINAL INSTALLATION LOCATION. CHECK THAT THE FRAME IS STILL LEVEL AND ADJUST IF NECESSARY.

21 INSTALL ANCHOR FASTENERS TO CLAMP DOWN ANCHOR PLATES AND FINISH THE INSTALLATION. THE FRAME IS READY FOR USE AT THIS POINT.