

Assembly & User Guide

PART NUMBER: SZASSYINSTDO. ISSUE 1 / MAY 06

STORMOR® DUO SHELVING

Bays with Open, Cross-braced Backs

IMPORTANT: READ THIS GUIDE THOROUGHLY BEFORE STARTING ASSEMBLY AND RETAIN FOR USER REFERENCE

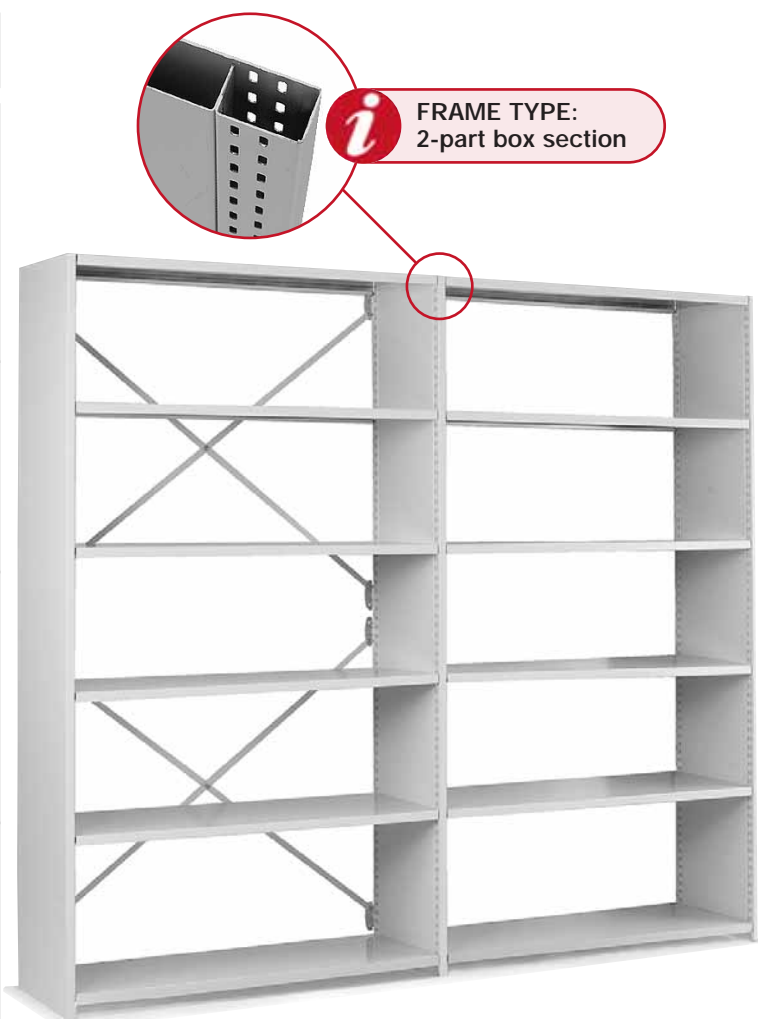
i

ASSEMBLY SHOULD BE UNDERTAKEN BY TWO COMPETENT PEOPLE
Preferably suitably trained shelving installers

BASIC TOOLS
(not supplied)

LOCATE & BUILD
SHELVING ON A SUITABLE
LEVEL FLOOR.
(Additional base plate
shims may be required for
uneven floors)

FLOOR FIXING
Should be considered for
stability of tall, narrow
bays - refer to back page



!

DO NOT CLIMB THE
STRUCTURE OR STAND
ON SHELVES
Replace damaged
components

USE A SUITABLE WORKING PLATFORM TO REACH HIGHER SHELVES

**BAY LOAD UNIFORMLY
DISTRIBUTED!**
DO NOT EXCEED
MAXIMUM SAFE BAY
LOAD OF 1000kg

**Also refer to Assembly
Guide Supplement part
number SZASSYGUIDESUPP
for other possible variations
in cross-bracing frequency
and loading capacity.*

***Max.
= 1000kg!**

**ENSURE SHELF LOADS ARE
UNIFORMLY DISTRIBUTED!**
DO NOT EXCEED MAXIMUM
SAFE SHELF LOADS.

**NOTE: 'H' or 'E' Duty
shelves are usual supply.
If in doubt, check duty
stamp on underside corner
of shelf flanges or contact
your shelving supplier.*

**MAXIMUM SAFE LOADS
FOR OPEN SECTION
SHELVES, 'H' DUTY***

| Shelf Depth | Shelf Width | | |
|---------------|-------------|--------|--------|
| | 900mm | 1000mm | 1250mm |
| 200mm - 500mm | 78kg | 70kg | 45kg |
| 600mm | 55kg | 55kg | 45kg |

**MAXIMUM SAFE LOADS
FOR BOX SECTION
SHELVES, 'E' DUTY***

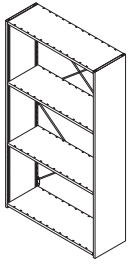
| Shelf Depth | Shelf Width mm | | |
|---------------|----------------|--------|--------|
| | 900mm | 1000mm | 1250mm |
| 300mm - 450mm | 130kg | 120kg | 75kg |
| 500mm | 90kg | 90kg | 70kg |
| 600mm | 70kg | 65kg | 65kg |

**FOR THE LOAD CAPACITIES OF OTHER SHELF SIZES SUPPLIED BUT NOT LISTED ABOVE,
CONTACT YOUR SHELVING SUPPLIER.**

The information contained in this leaflet was accepted as correct at the date of publication. However, the manufacturer reserves the right to make any necessary changes, in line with product development and improvement. No liability can be accepted for any inaccuracies or omissions, although every reasonable care has been taken to make this publication as complete and accurate as possible.

PRODUCT DESIGNED & MANUFACTURED IN THE UK TO QUALITY MANAGEMENT SYSTEMS CONFORMING TO THE INTERNATIONAL STANDARD BS EN ISO 9001:2000.

Starter Bay

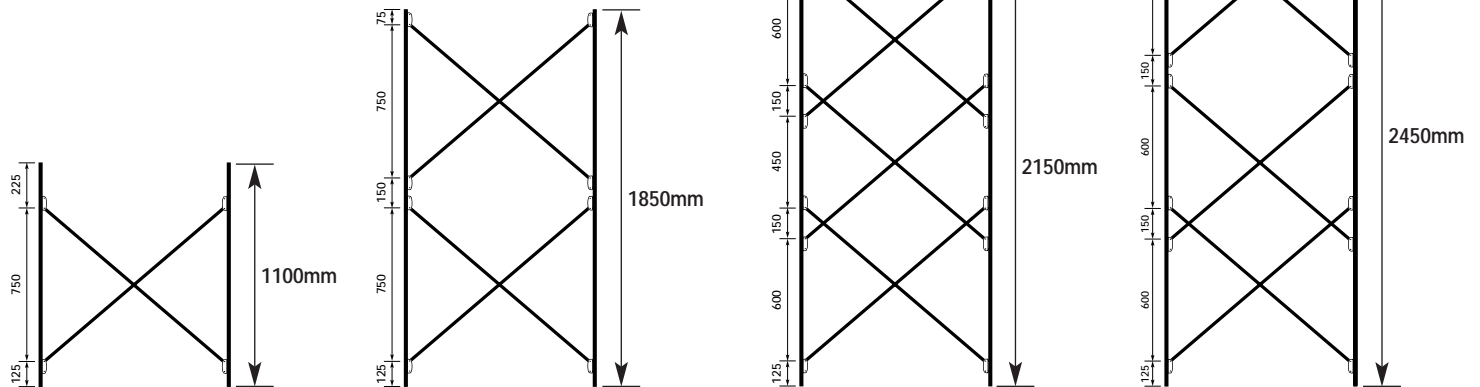


Read ALL instructions BEFORE commencing assembly ▼

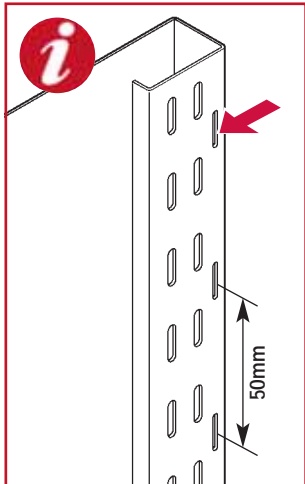
- 1 & 2. Select Starter only or Starter & Extension frames. Orientate frames and locate first cross-brace using brackets, nuts & bolts - *Note correct orientation of brackets and 750mm setting for bracing.* FULLY TIGHTEN ALL BOLTS.
3. Locate remaining cross-brace/s for the frame height. FULLY TIGHTEN ALL BOLTS.
4. Locate top shelf (4 adjustable clips required per shelf; refer to Stage 5), infill panels and base shelf. With braced bay in final position locate base plate shims (optional).
 - Check levels and shim bay if required.
 - If necessary, locate floor clips and secure to floor with suitable anchor bolt (anchors not supplied, available separately) - *Also refer to back page.*
5. Locate remaining intermediate shelves - NOTE PLACEMENT RULES.



ALL STARTER BAYS ARE CROSS-BRACED
Note number of bracings for your frame height.



1

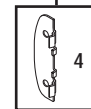


Orientate all frames with bracket location slots to rear

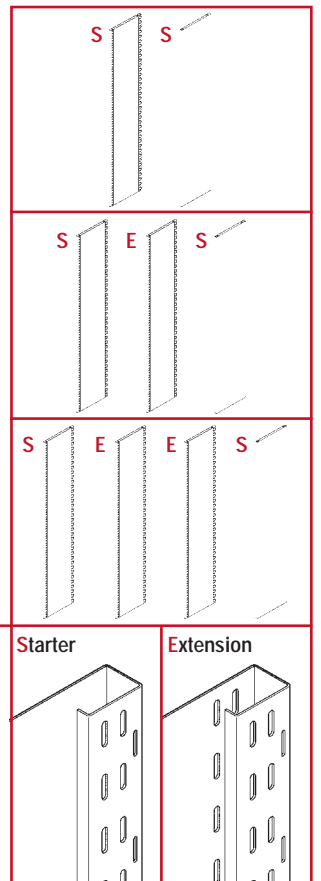
Remove infill panels



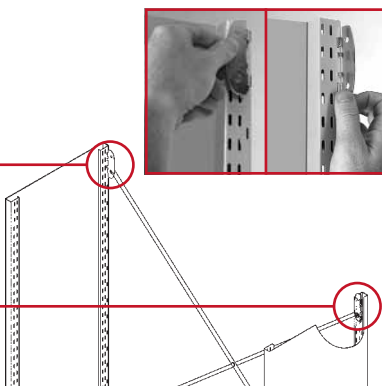
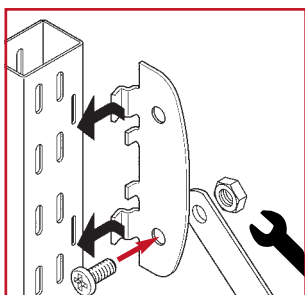
750mm bolt to bolt



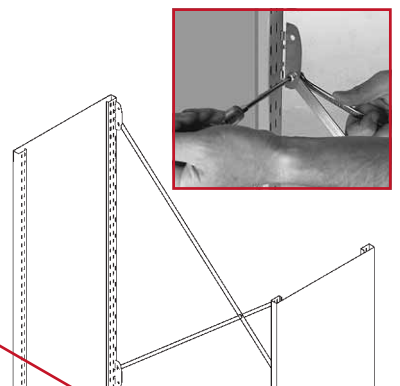
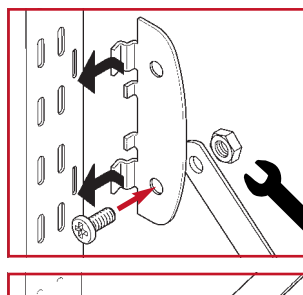
Starter bays have 2 Starter frames - with slots for shelf clips on one face only. If building one bay, use both starter frames. If building extension bays, use intermediate extension frames (slots both sides) with the starter frames at each end.

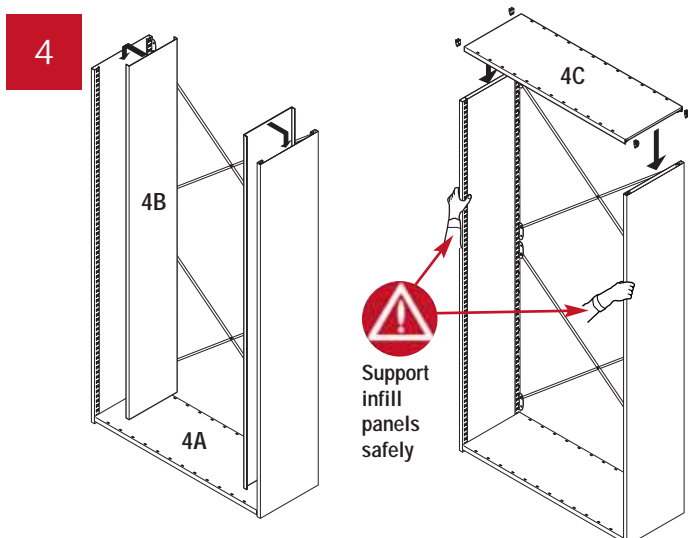
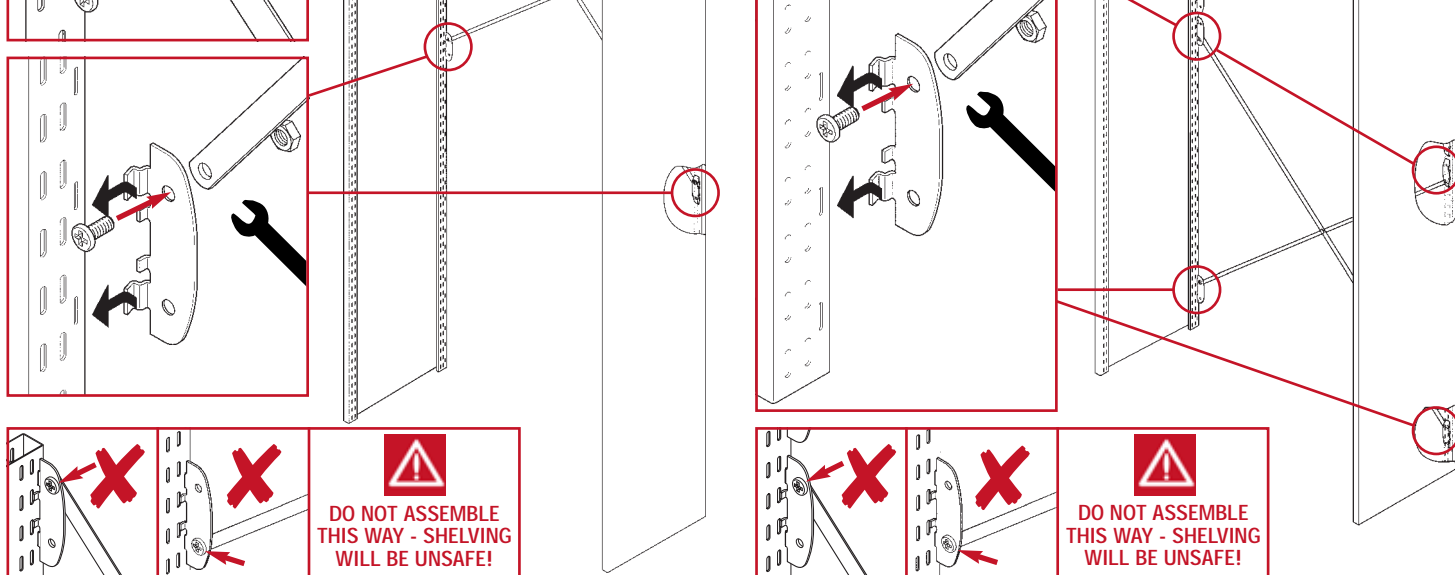


2



3





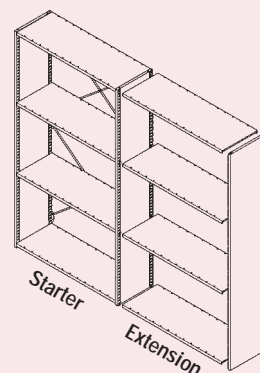
AT THIS STAGE:

- If including extension bays, go to Stage 6 before fitting intermediate shelves.

- OPTIONAL - On single bay: locate base plate shims - refer to Stage 7 (these help to spread the load and protect your floor).

- Where necessary, bolt down using floor clips - refer to back page.

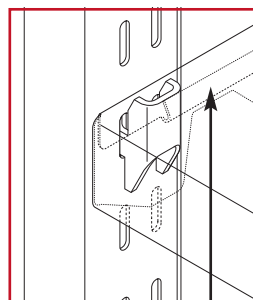
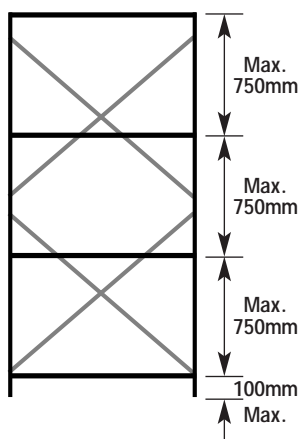
4A. Locate base shelf - refer to Stage 5 below.
4B. Locate infill panels.
4C. Locate top shelf.



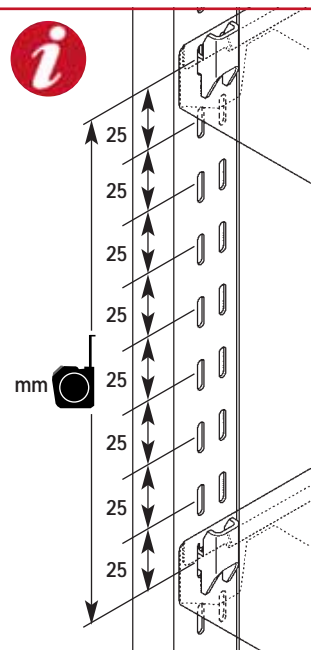
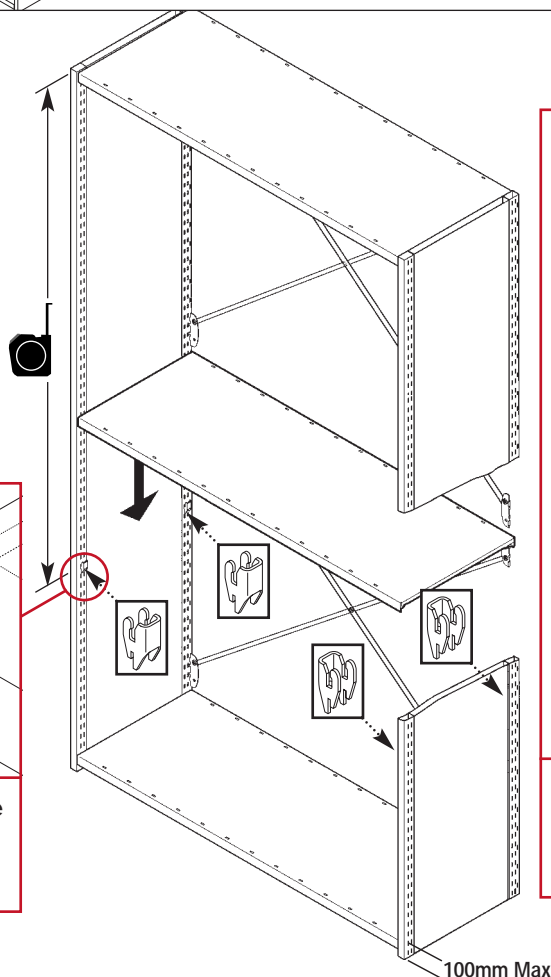
5 Shelf Location with 4 clips per shelf



SHELF PLACEMENT
note maximum spacing!

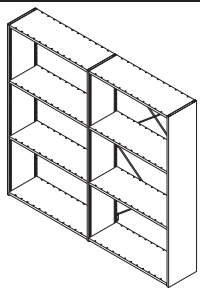


Ensure shelf flange locates between, and does not overlap, shelf clips



Measure to space shelves as required. Slots for shelf clips are at 25mm increments

Extension Bays



Read ALL instructions BEFORE commencing assembly ▼

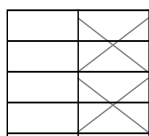
6. Position extension frame and locate top and base shelves - 4 adjustable clips required per shelf.
 - WHEN BUILDING MORE THAN 2 BAYS INCLUDE ADDITIONAL BRACING.
 - FULLY TIGHTEN ALL BOLTS - each cross-brace requires 4 brackets and 4 nuts & bolts.
7. With braced bays in final position, locate base plate shims (optional).
 - Check levels and shim bays if required.
 - If necessary, locate floor clips and secure to floor with suitable anchor bolt (anchors not supplied, available separately) - Also refer to back page.
8. Locate remaining intermediate shelves - FOLLOW PLACEMENT RULES IN STAGE 5.

6

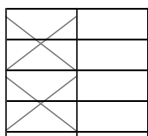


MORE THAN 2 BAYS REQUIRE ADDITIONAL CROSS-BRACING*

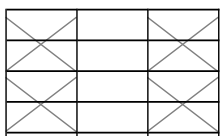
Note number of bracings for your frame height and follow bracing frequency.



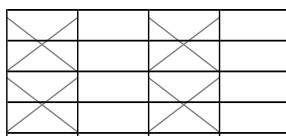
2 BAYS



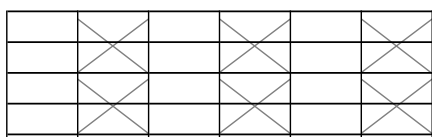
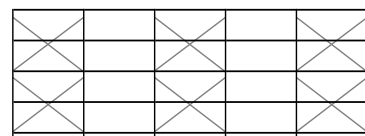
3 BAYS



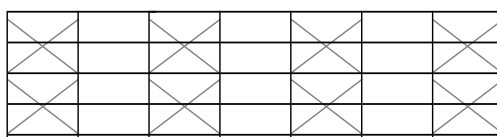
4 BAYS



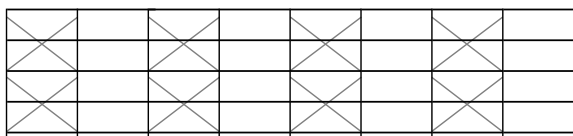
5 BAYS



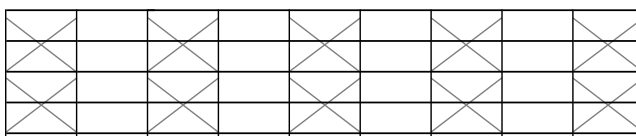
6 BAYS



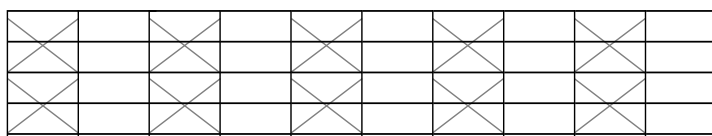
7 BAYS



8 BAYS



9 BAYS

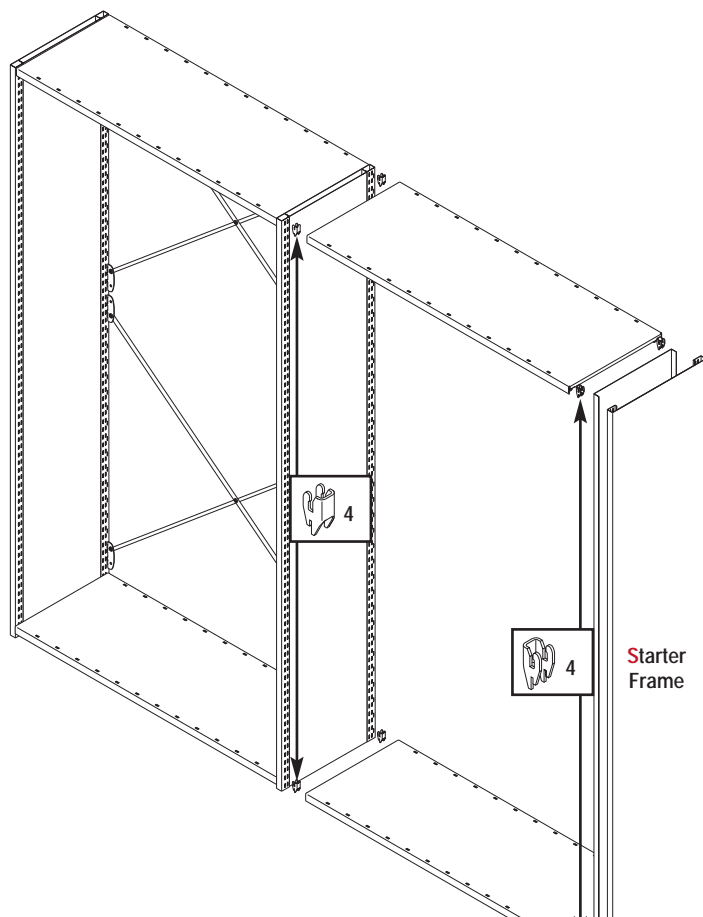


10 BAYS

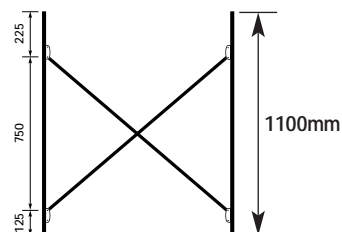
***NOTE:**

Any additional bracing supplied may also be fitted to remaining open bays.

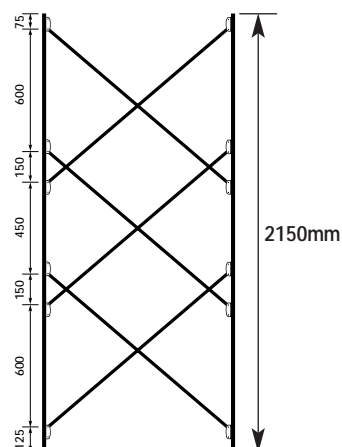
Also refer to Assembly Guide Supplement part number SZASSYGUIDESUPP for other possible variations in cross-bracing frequency and loading capacity.



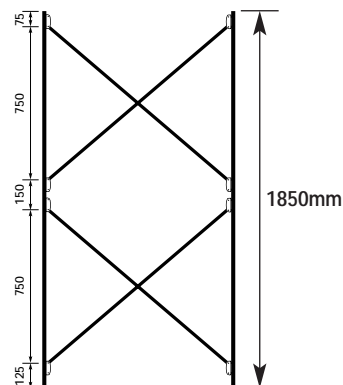
Note bracing for your frame height.



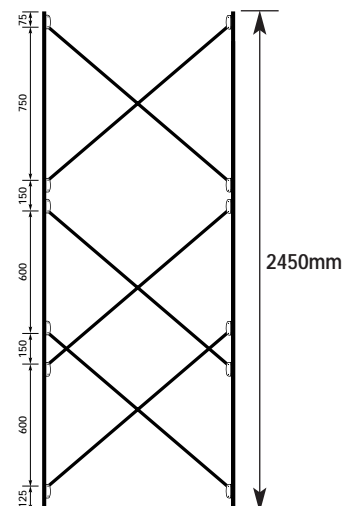
1100mm



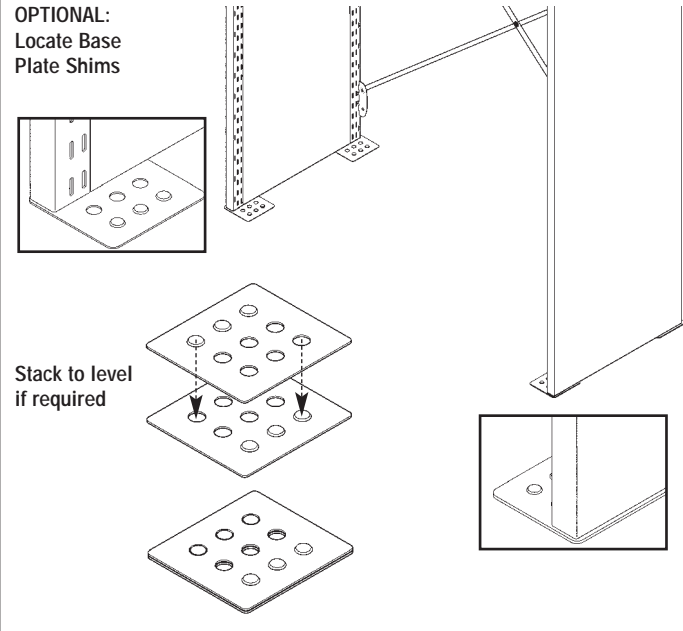
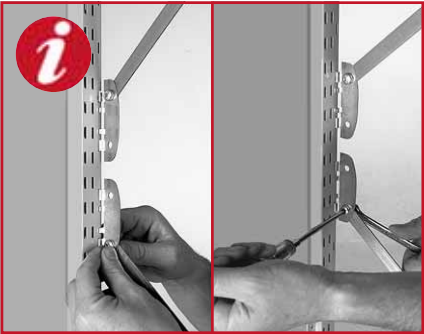
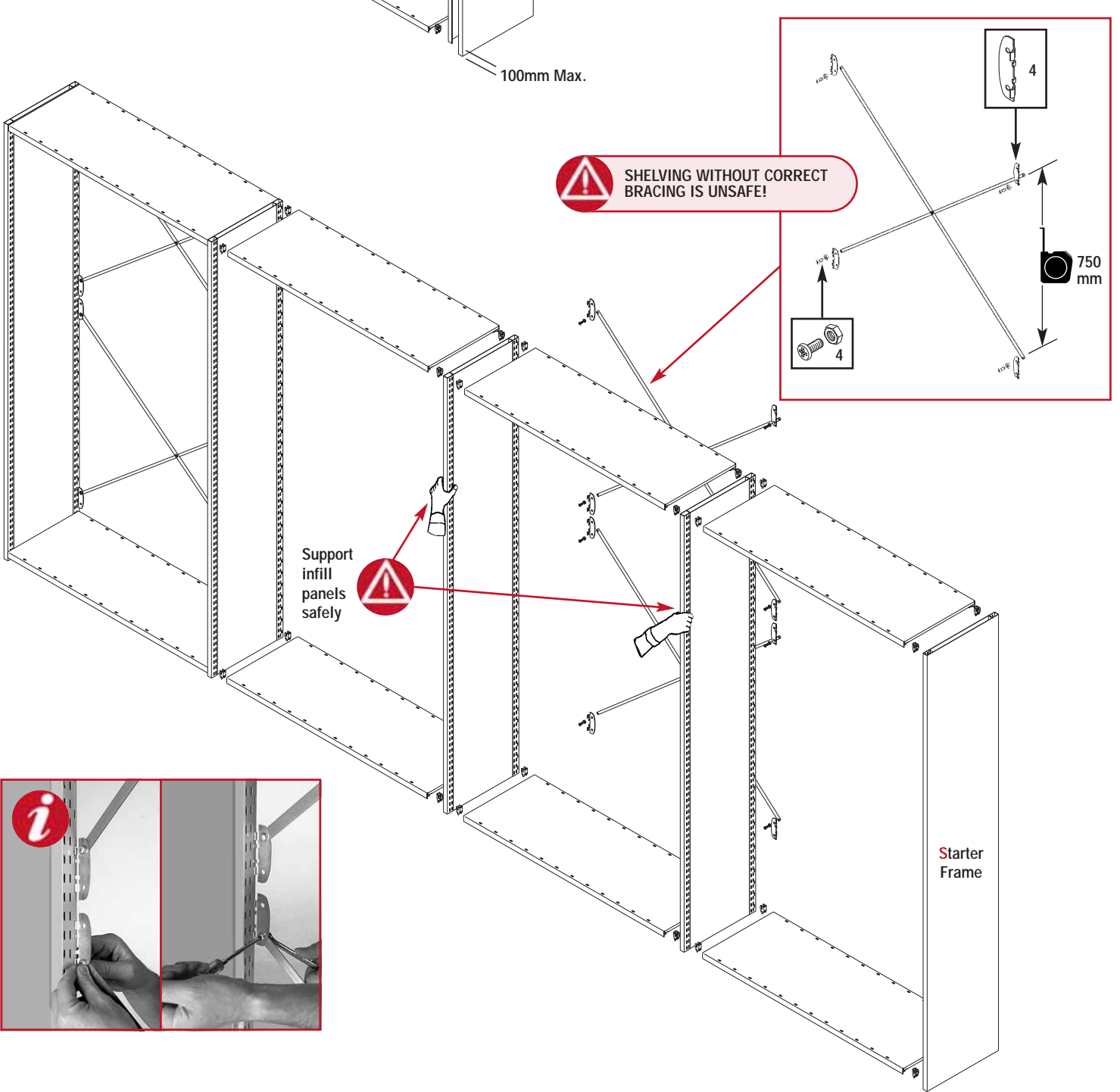
2150mm



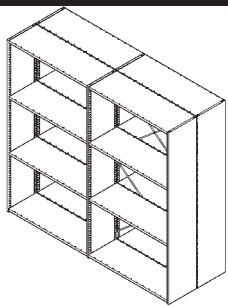
1850mm



2450mm



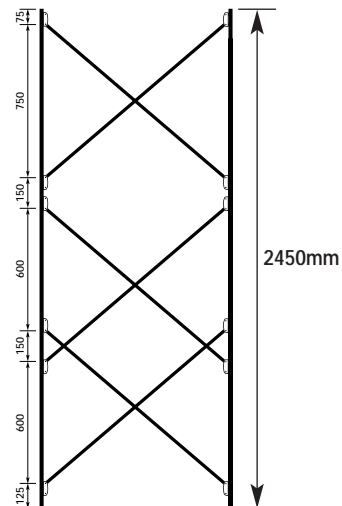
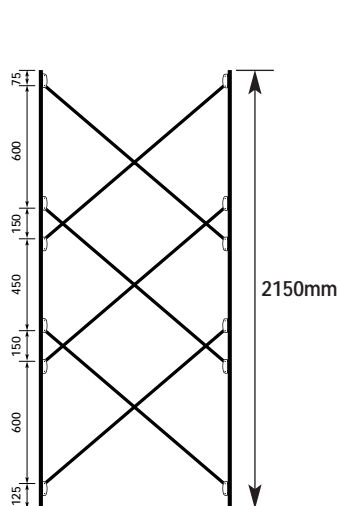
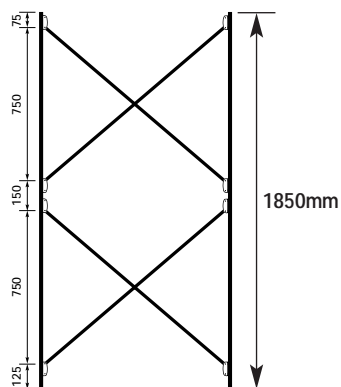
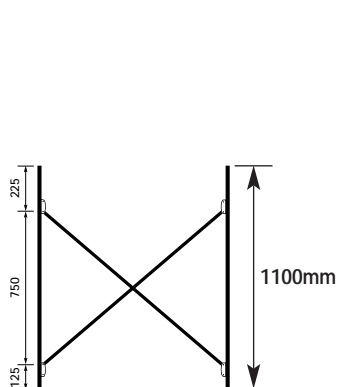
Back to Back Bays



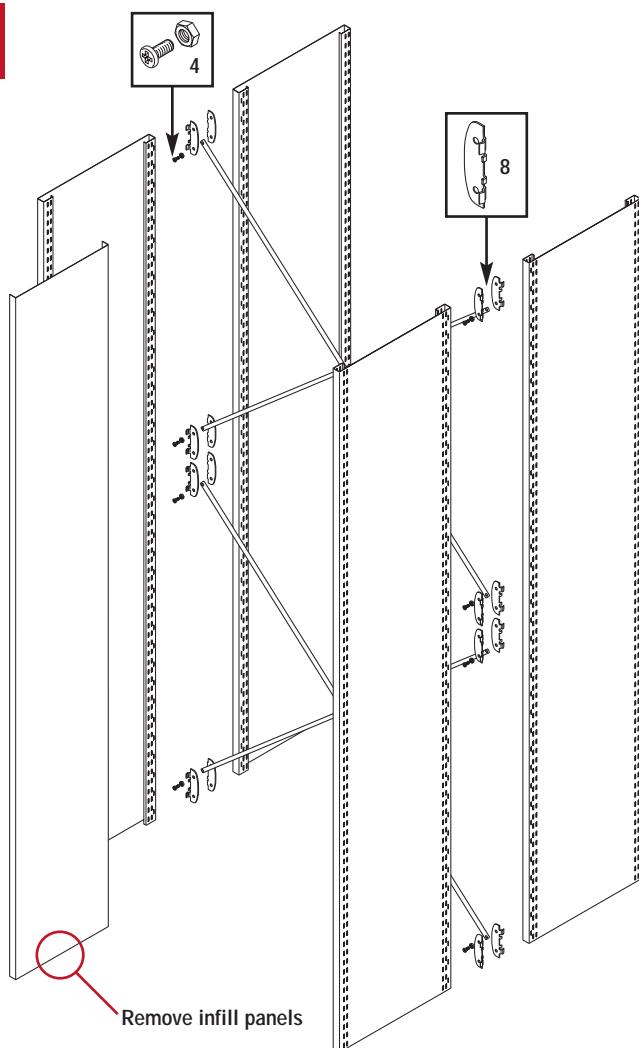
ALSO REFER TO STARTER & EXTENSION BAY ASSEMBLY Read ALL instructions BEFORE commencing assembly

- 1.1. Position pair of frames and locate first cross-brace - *note 750mm setting for all bracing.*
 - 1.2. Fit cross-brace to second pair of frames.
 - 1.3. Locate remaining cross-brace/s for the frame height.
FULLY TIGHTEN ALL BOLTS - each cross-brace requires 8 brackets and 4 nuts & bolts.
 2. Locate top and base shelves - *4 adjustable clips required per shelf.* Locate infill panels. Fit rack links - *refer to Stage 4.* With bays in position, locate base plate shims (optional).
 3. Position extension frames, locate top & base shelves and infill panels - *4 adjustable clips required per shelf.* Fit base shelf within 100mm of the floor.
WHEN BUILDING MORE THAN 4 BACKING BAYS INCORPORATE ADDITIONAL BRACING.
- Go to Stage 4

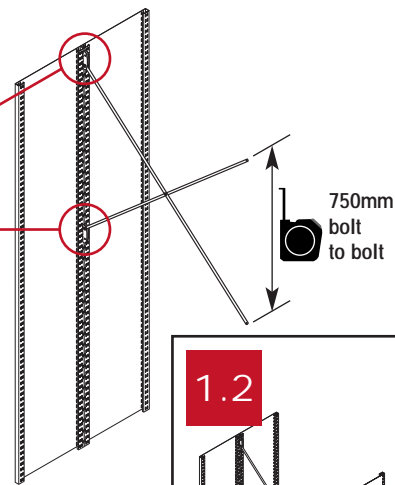
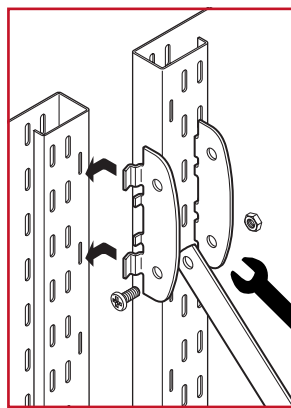
i ALL INITIAL BAYS ARE CROSS-BRACED
Note number of bracings for your frame height.



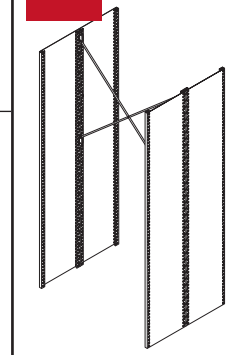
1



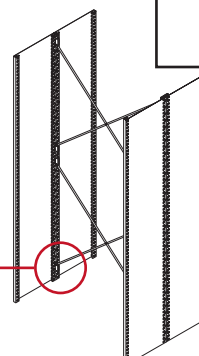
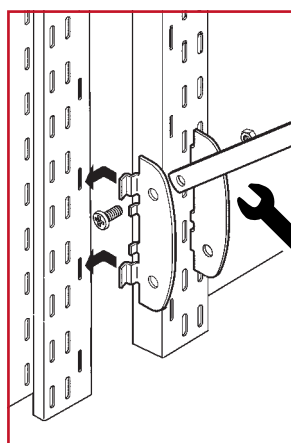
1.1



1.2



1.3

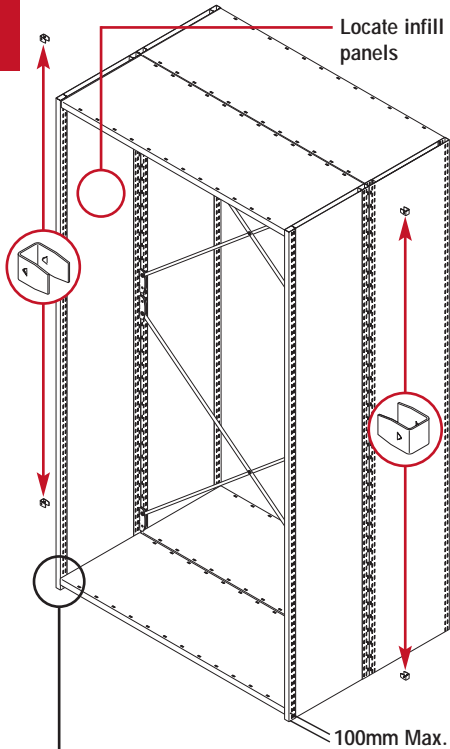


4. With braced bays in final position, link frames with rack links - fit within maximum of 125mm from top and base of frames. Include intermediate rack links in frame heights over 2150mm.

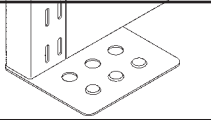
- Locate base plate shims (optional).
- Check levels and shim bays if required - *refer to Stage 7 of Extension Bay assembly*
- If necessary, locate floor clips and secure to floor with suitable anchor bolt (anchors not supplied, available separately) - *also refer to back page.*
- Locate intermediate shelves - **NOTE PLACEMENT RULES IN STARTER BAY ASSEMBLY STAGE 5.**

2

Locate infill panels



OPTIONAL:
locate base
plate shims



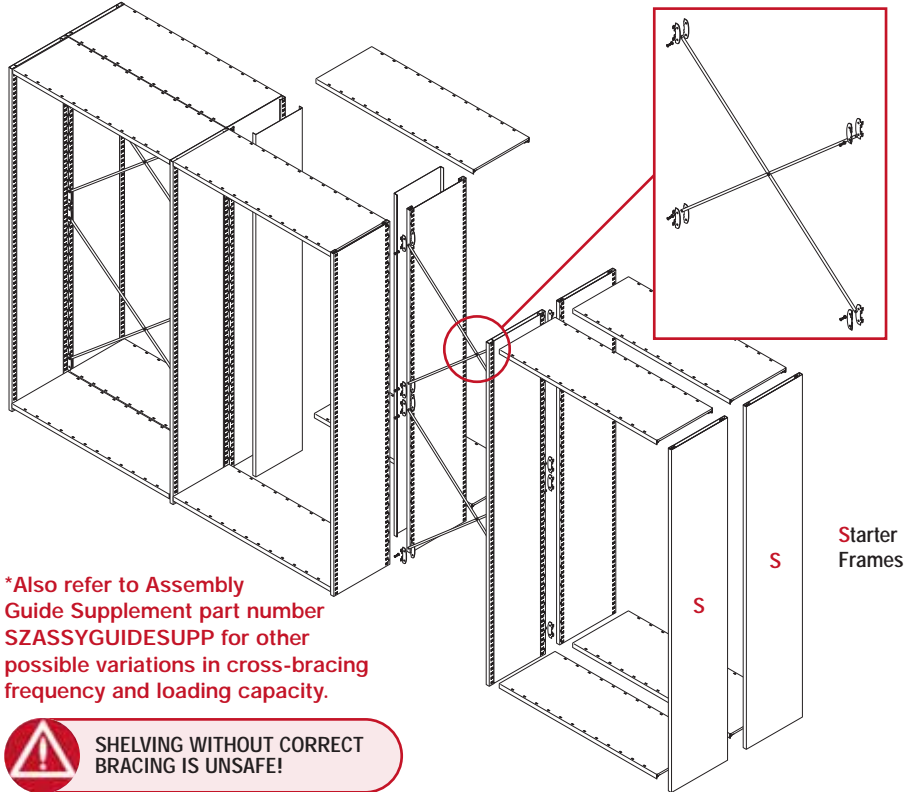
100mm Max.

3



MORE THAN 4 BAYS REQUIRE ADDITIONAL CROSS-BRACING

*Refer to Extension Bay assembly, Stage 6, for requirement.



*Also refer to Assembly Guide Supplement part number **SZASSYGUIDESUPP** for other possible variations in cross-bracing frequency and loading capacity.



SHELVING WITHOUT CORRECT BRACING IS UNSAFE!

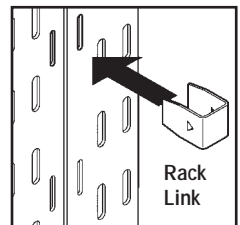
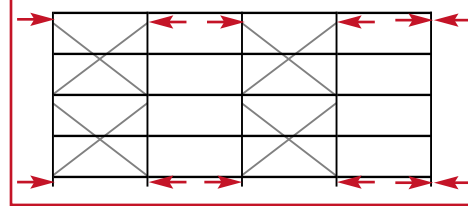
4

RACK LINKING. Requires additional Rack Links (Part Number SZPRACKLINK)

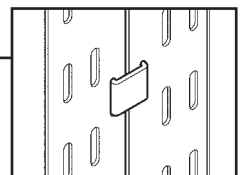


BRACED FRAMES - rack link opposite (unbraced) side only →

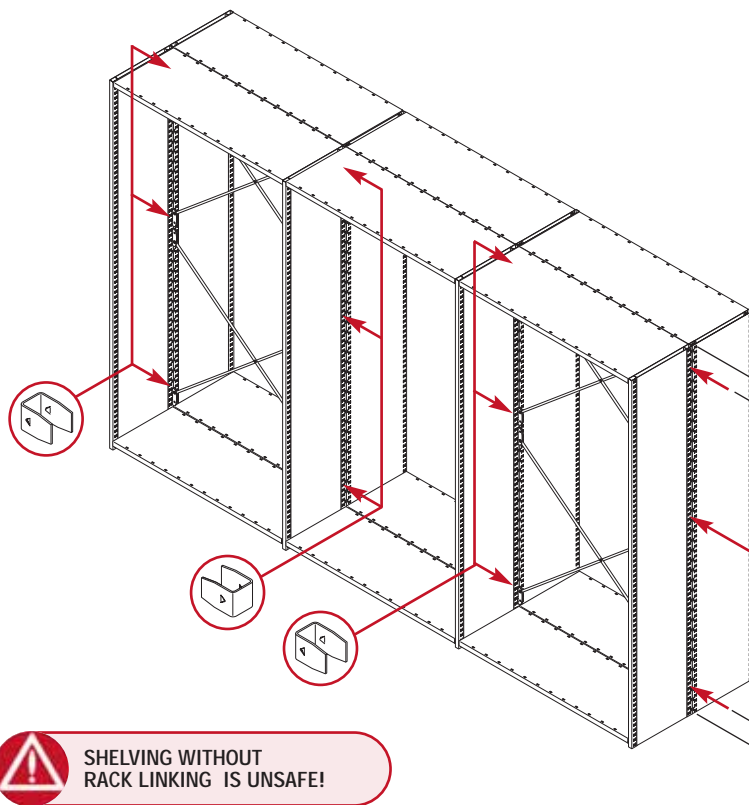
UNBRACED FRAMES - rack link both sides ↔



Rack Link



No rack links in outer face of Starter frames



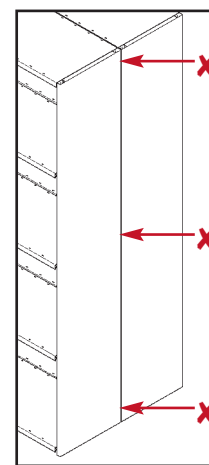
125mm Max.

2000mm Max.
Add intermediate rack links only where spacing exceeds 2000mm (i.e. frame heights over 2150mm)

125mm Max.



SHELVING WITHOUT RACK LINKING IS UNSAFE!



OPTIONAL: Floor Fixing

Read ALL instructions BEFORE commencing assembly

IN CERTAIN SITUATIONS SHELVING SHOULD BE BOLTED TO THE FLOOR FOR ADDITIONAL SAFETY & STABILITY.

This applies to tall, shallow bays where the height (taken as the distance from the floor to the highest loaded shelf) to depth ratio exceeds 4:1.

Floor fixing into solid floors is achieved using expansion bolts (available separately - Part Number ARR6), passing through floor clips and base plate shims into pre-drilled holes in the floor (using one fixing per 'perimeter' floor clip).

IF IN DOUBT WHEN TO FLOOR FIX, CONTACT YOUR SHELVING SUPPLIER BEFORE COMMENCING ASSEMBLY.

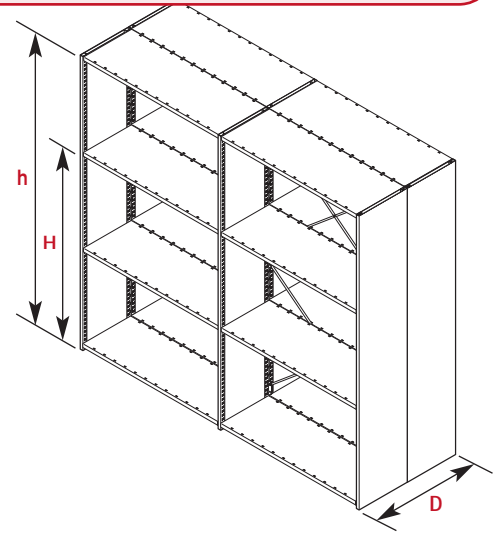
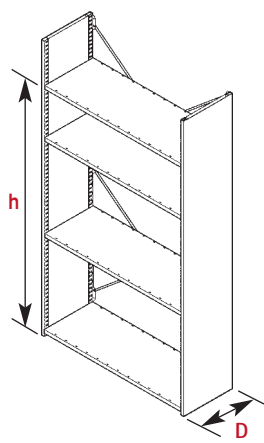
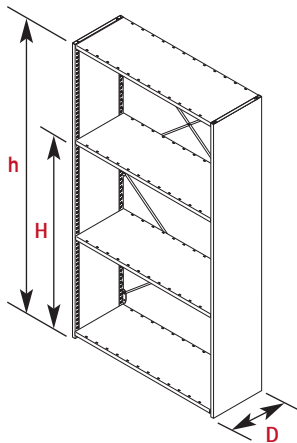


STABILITY = HEIGHT TO DEPTH RATIO

D = Depth

H = Height, floor to highest LOADED shelf, where top shelf is used as an UNLOADED dust cover

h = height, floor to highest loaded shelf, with top shelf loaded



H:D greater than 4:1 = FLOOR FIXING RECOMMENDED
h:D greater than 4:1 = FLOOR FIXING RECOMMENDED



FIXING METHOD

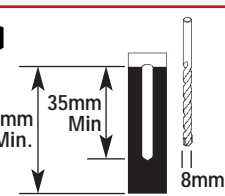
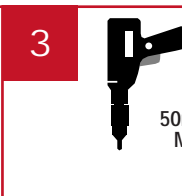
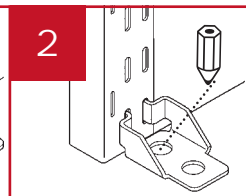
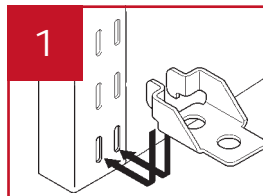
NOTE: Ensure the floor is of a suitable material, density and thickness to accommodate the expansion fixings.

Orientate floor clips & base plate shims as shown. Part-built bays with floor clips in place should be offered into position (1) the expansion fixing hole positions carefully marked (2) and pre-drilled (3) before bays are fully assembled in final position.

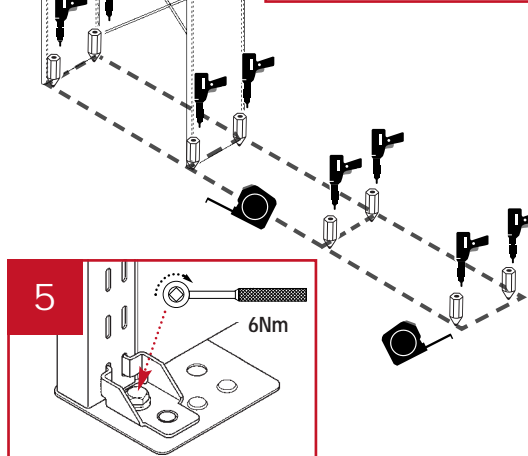
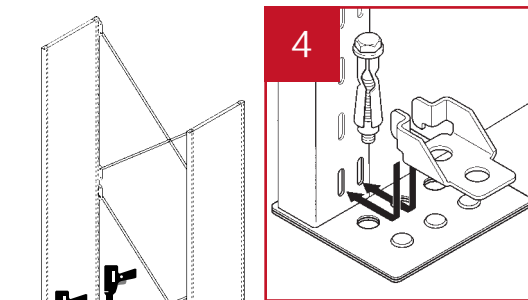
Locate floor clips and slot base plate shims into place. Bolt floor clip & base plate shim assemblies down to the floor with expansion fixings, and tighten to the correct torque loading (4 & 5).



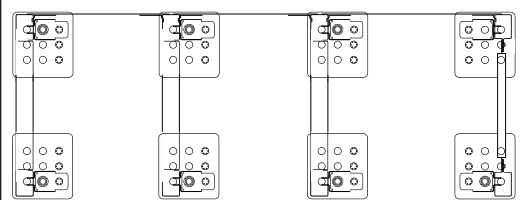
= Location of additional Floor Clips where H:D/h:D greater than 6:1



Ensure floor will accept Anchor!



Single Depth Bays - orientation (Duo or Mono Frame)



Back to Back Bays - orientation (Duo or Mono Frame)

