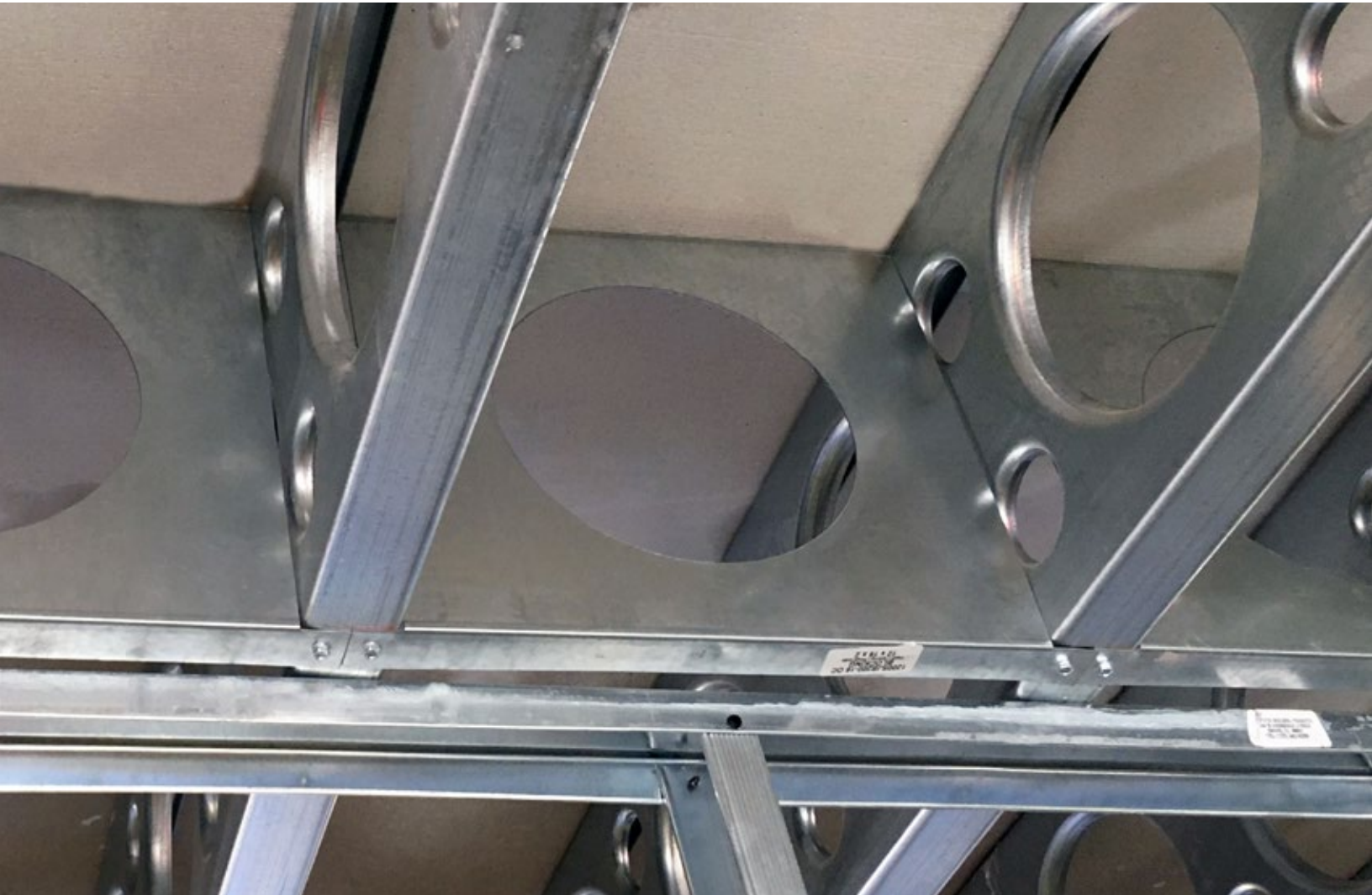


# ***SUPERJOIST & SUPERMAXXJOIST***



## **Installation Instructions** Joist Blocking for Cold-Formed Steel Joists

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Joist systems provide  
excellent strength  
and stability for roof  
and floor framing.

With multiple options  
for finishes and fire  
rated assemblies,  
Super Stud Joists  
are simple to install  
and finish.



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## Installation Instructions:

Super Stud Joist Blocking provides bracing against twisting and horizontal movement, and when properly installed can allow joists to achieve full capacity. Each blocking piece has an access hole to allow for utilities to pass through, and includes tabs on each end for attachment to joist flanges.

**Before starting, make sure that work area is safe and free from debris or dangerous conditions.**

**Also, ensure that existing structure is adequate and appropriate for the fastening method used and design loads.**

### Blocking configuration

Note that Super Stud blocking sizes are specific to joist flange sizes. Make sure you order the right blocking for the right flange size, joist depth, and spacing.

***If flange size is not specified, blocking for 2" flange joists will be supplied.*** Although Super Stud does not make blocking specifically for 1-5/8" flange joists, blocking for 2" flange joists may be used. If this is the case, and blocking for 2" flange joists is used for 1-5/8" flange joists, the blocking should be centered between joists and cannot be used to create 16" or 12" on center (o.c.) layout.

### Tools:

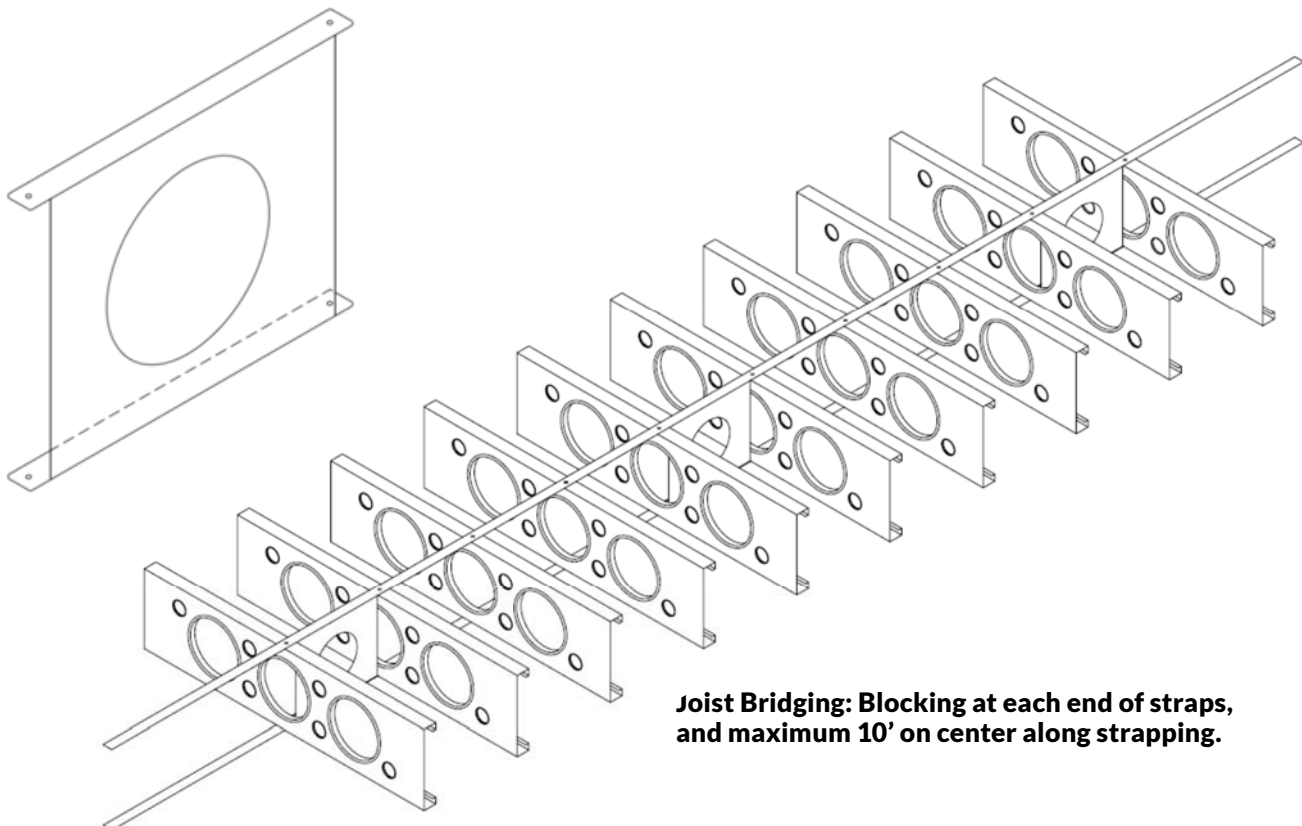
- Required: 2500 rpm screw gun
- Helpful: locking C-clamps, bar clamps, tape measure, square, level

### Fasteners:

- Minimum #10 framing screws with driller points and a low-profile head, complying with ASTM C1513.
- Optional: blocking may be welded to joists using a wire-fed MIG welder. All welds must be touched up with a zinc-rich paint such as ZRC or other "cold galvanizing compound."

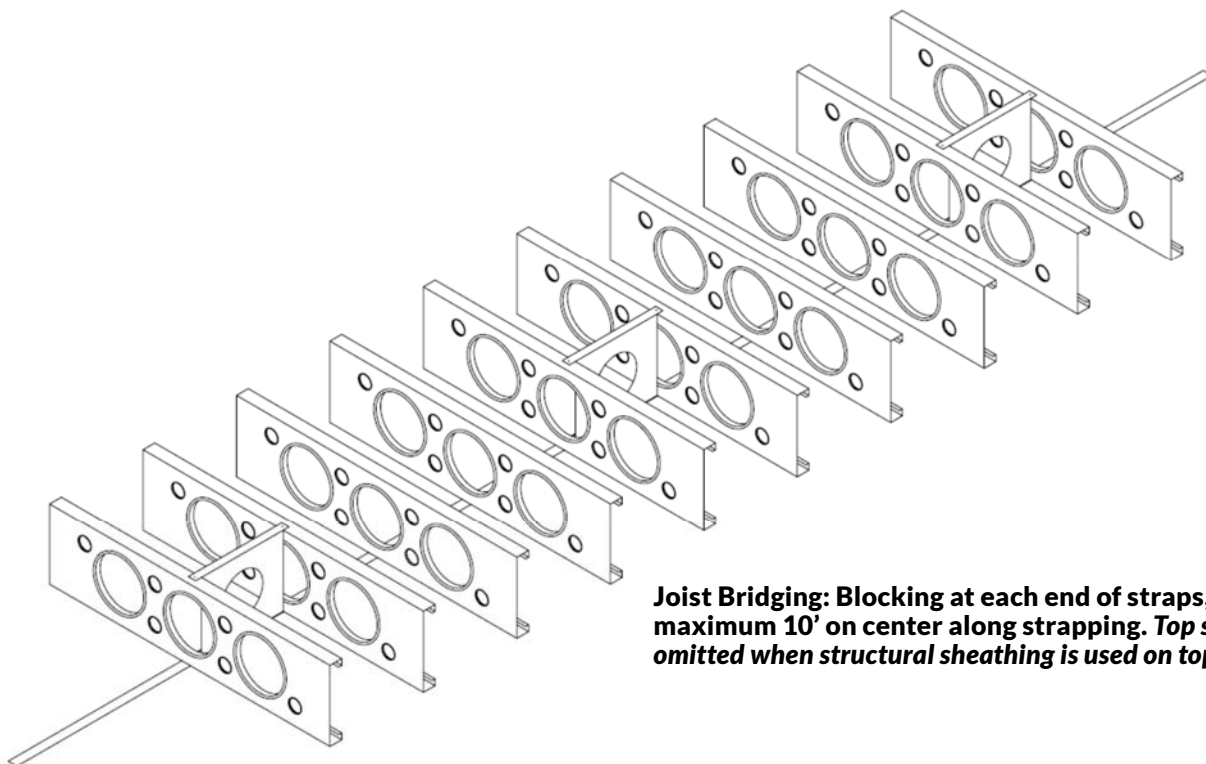
### Other accessories:

- Minimum 1 1/2" wide x 33 mil strapping, either continuous or in 10' lengths. Note that wider straps may allow for more screws where required.



## Installation Steps:

1. Before starting, ensure that you have the correct blocking for the depth of joist being installed. For SuperJoist blocking, the blocking depth is the same as the joist depth, and the blocking overall length is 1/32" less than the joist spacing. Always be sure to refer to blocking size chart located at the end of this installation document.
2. Install the first two joists. Use level or laser to ensure joists are plumb and level. Secure joists at each end.
3. Based on layout or design requirements, locate spacing of blocking along the length of the joist.
  - a. Blocking is typically equally spaced but may be offset slightly to avoid piping runs or other services.
  - b. Follow shop drawings or catalog recommendations for blocking spacing. When using data from the Super Stud structural loadbearing catalog, blocking spacing along the length of the joist shall be no more than 7'-0" on center (o.c.), in accordance with table note 4.
4. Twist the blocking into place so that the tabs fit over the top and bottom flanges.
  - a. Use at least (4) #10 screws, using the pre-punched holes in the attachment tabs.
  - b. Use one screw into each top flange, and one screw into each bottom flange. Additional screws may be installed if desired, but a single screw should be adequate for most joist loading conditions.
  - c. For the attachment to the top flanges, use low-profile head screws: such as modified truss-head or pan-head screws: to prevent lumps when installing flooring over the top of the blocking. 5/8" long self-drilling screws are usually adequate for most joist types.
5. After the first two joists are installed, there are three options for bracing/blocking additional joists: strap bracing, blocking every joist, and blocking every other joist.
  - a. Strap Bracing: Steel straps are used on the top and bottom of the joists: attached with at least one screw to each flange of each joist. When this option is used, blocking is required at each end of strapping and at 10' o.c. along the run of the strapping. All screw end distances (along the length of the strap) and spacing



**Joist Bridging: Blocking at each end of straps, and maximum 10' on center along strapping. Top strap may be omitted when structural sheathing is used on top of joists.**

should be at least 3 times the nominal screw diameter. That works out to a little less than 5/8" for #10 screws, and a little less than 11/16" for #12 screws. Edge distance (to the side of the strap) can be half that amount. Note that edge and end distance and spacing is measured from the center of the screw.

i. Minimum strap size:

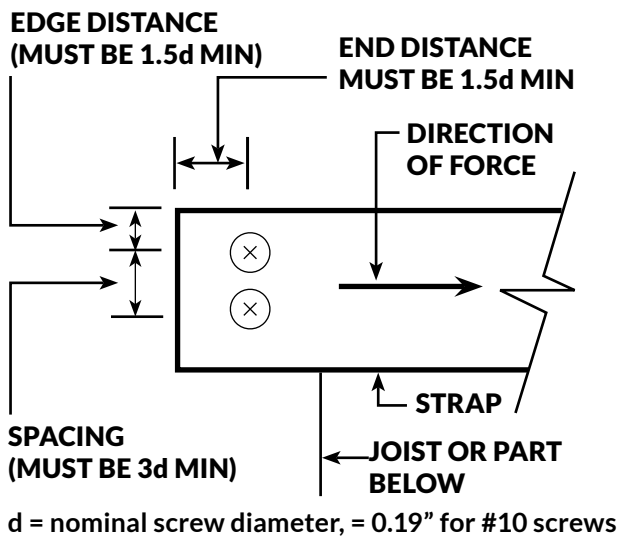
1. 33 mil minimum thickness
2. 1.5" minimum strap width
3. 10' typical strap length (straps may be spliced, and shorter pieces may be used towards the end of strap runs.)

ii. Modified truss head or other low-profile head screws must be used for the top strap since floor sheathing will have to be installed over the top, and bigger screw heads may lead to lumps in the flooring.

iii. The top strap may be omitted if structural sheathing will be applied over the joists.

iv. If there is a drop ceiling or no ceiling below the joists, the bottom strap can be replaced by segments of track, cold-rolled channel (CRC), or other rigid framing members.

v. Splicing of the straps can be done in one of the following methods:



1. Splicing on the flange of a joist: butt straps along the centerline of the flange of a joist. Use at least (2) #10 screws spaced evenly across the strap.
2. Splicing on the blocking: use at least (2) #10 screws through the strap to the bottom flange of the blocking.
3. Splicing away from support: lap straps a minimum of 6". Use (3) #10 screws along the centerline of the strap. The end screws should be within 1" of the end of the splice, and the center screw should be centered in the splice. It's easier splicing the straps on the edge of a rigid surface or in a vice before the straps are installed, rather than trying to splice them in free space between the joists.

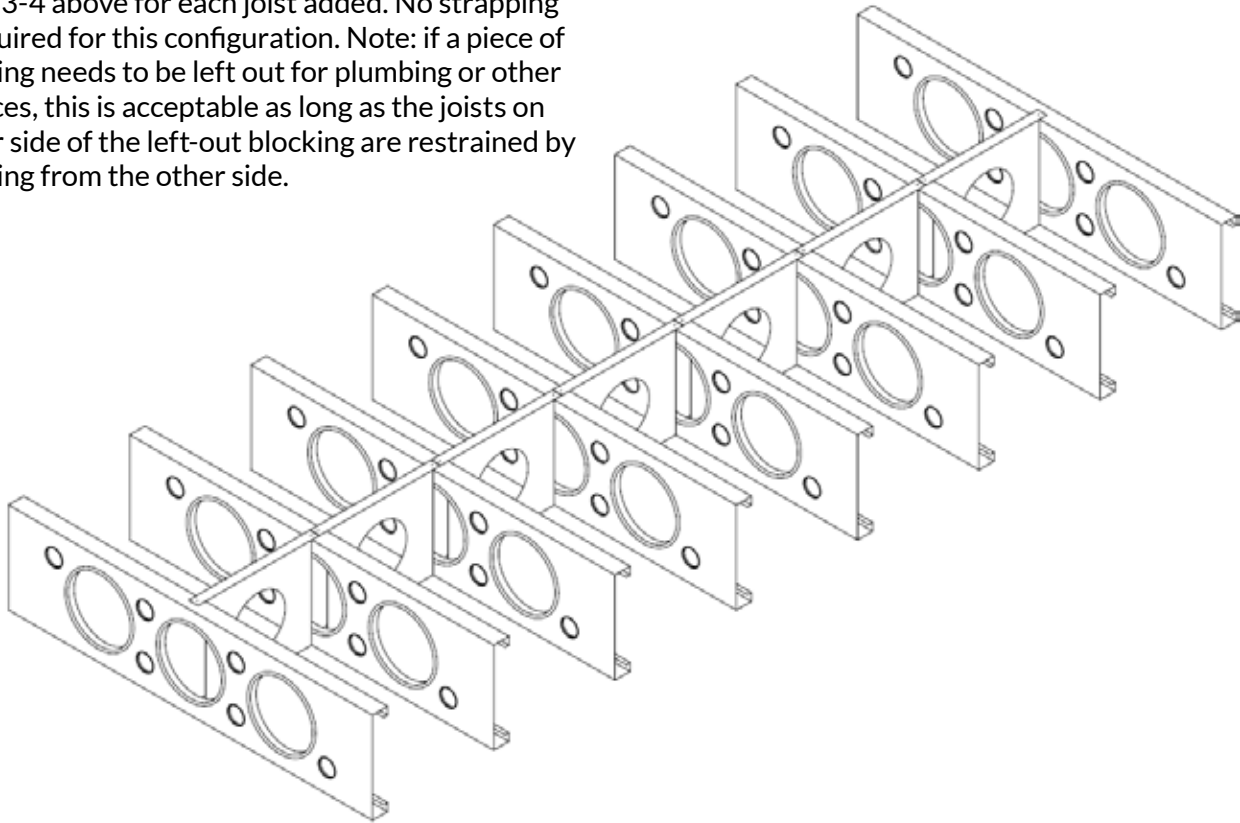
vi. Continuous straps may be used to reduce the need for splicing.

vii. Straps should be reasonably tight. Strap up-and-down movement between joists spaced at 16" on center should be no more than 1 3/4", which for 10" or greater joist depths will prevent bottom flange rotation of more than 2.5 degrees.

### **b. Blocking Between Every Joist:**

Without strap bracing, blocking may be installed between every joist. This not only restrains the joists from movement and rotation, but also can be used to help set the spacing at 12" or 16" on center. Follow steps 3-4 above for each joist added. No strapping is required for this configuration. Note: if a piece of blocking needs to be left out for plumbing or other services, this is acceptable as long as the joists on either side of the left-out blocking are restrained by blocking from the other side.

**Blocking Between Every Joist**  
**No flat strapping is required**

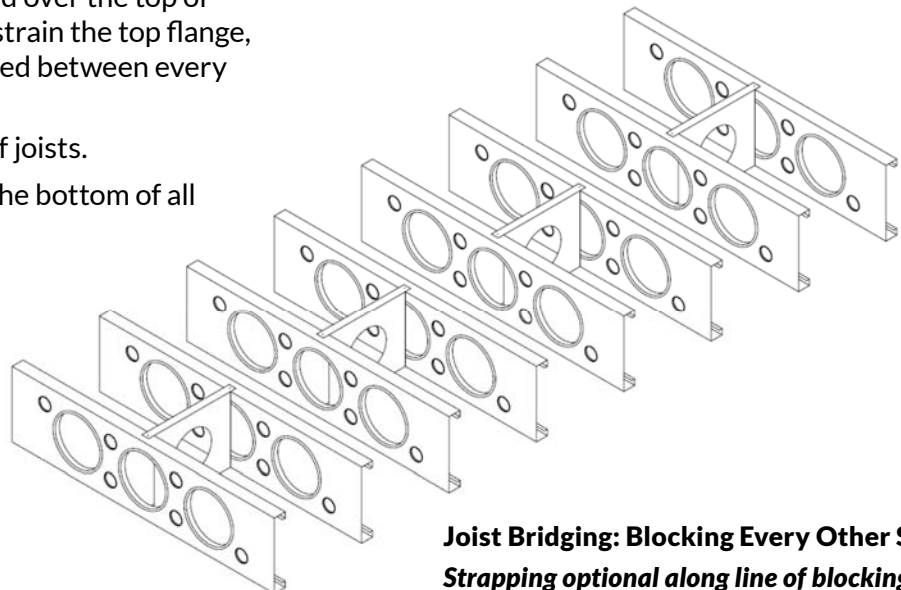


### **c. Blocking Between Every Other Joist:**

when structural sheathing is applied over the top of joists with connections that will restrain the top flange, blocking will only need to be installed between every other joist.

Follow step 3 above for each pair of joists.

Strapping may be installed across the bottom of all joists, but is not required.



**Joist Bridging: Blocking Every Other Space**  
**Strapping optional along line of blocking**

## SuperJoist Blocking Sizes

*(all values in inches unless noted)*

Joist depth	Spacing	Flange width	Product Name	Min Thickness	Gauge	Yield Strength	Hole Diameter (inches)
8	16	2	8000JB200-16 OC BLOCKING	0.0428	18	33	8.25
8	16	2.5	8000JB250-16 OC BLOCKING	0.0428	18	33	8.25
8	16	3	8000JB300-16 OC BLOCKING	0.0428	18	33	8.25
8	16	3.5	8000JB350-16 OC BLOCKING	0.0428	18	33	8.25
8	12	2	8000JB200-12 OC BLOCKING	0.0428	18	33	5.125
8	12	2.5	8000JB250-12 OC BLOCKING	0.0428	18	33	5.125
8	12	3	8000JB300-12 OC BLOCKING	0.0428	18	33	5.125
8	12	3.5	8000JB350-12 OC BLOCKING	0.0428	18	33	5.125
10	16	2	1000JB200-16 OC BLOCKING	0.0428	18	33	8.25
10	16	2.5	1000JB250-16 OC BLOCKING	0.0428	18	33	8.25
10	16	3	1000JB300-16 OC BLOCKING	0.0428	18	33	8.25
10	16	3.5	1000JB350-16 OC BLOCKING	0.0428	18	33	8.25
10	12	2	1000JB200-12 OC BLOCKING	0.0428	18	33	5.125
10	12	2.5	1000JB250-12 OC BLOCKING	0.0428	18	33	5.125
10	12	3	1000JB300-12 OC BLOCKING	0.0428	18	33	5.125
10	12	3.5	1000JB350-12 OC BLOCKING	0.0428	18	33	5.125
12	16	2	1200JB200-16 OC BLOCKING	0.0428	18	33	8.25
12	16	2.5	1200JB250-16 OC BLOCKING	0.0428	18	33	8.25
12	16	3	1200JB300-16 OC BLOCKING	0.0428	18	33	8.25
12	16	3.5	1200JB350-16 OC BLOCKING	0.0428	18	33	8.25
12	12	2	1200JB200-12 OC BLOCKING	0.0428	18	33	5.125
12	12	2.5	1200JB250-12 OC BLOCKING	0.0428	18	33	5.125
12	12	3	1200JB300-12 OC BLOCKING	0.0428	18	33	5.125
12	12	3.5	1200JB350-12 OC BLOCKING	0.0428	18	33	5.125
14	16	2	1400JB200-16 OC BLOCKING	0.0428	18	33	8.25
14	16	2.5	1400JB250-16 OC BLOCKING	0.0428	18	33	8.25
14	16	3	1400JB300-16 OC BLOCKING	0.0428	18	33	8.25
14	16	3.5	1400JB350-16 OC BLOCKING	0.0428	18	33	8.25
14	12	2	1400JB200-12 OC BLOCKING	0.0428	18	33	5.125
14	12	2.5	1400JB250-12 OC BLOCKING	0.0428	18	33	5.125
14	12	3	1400JB300-12 OC BLOCKING	0.0428	18	33	5.125
14	12	3.5	1400JB350-12 OC BLOCKING	0.0428	18	33	5.125
16	16	2	1600JB200-16 OC BLOCKING	0.0538	16	50	8.25
16	16	2.5	1600JB250-16 OC BLOCKING	0.0538	16	50	8.25
16	16	3	1600JB300-16 OC BLOCKING	0.0538	16	50	8.25
16	16	3.5	1600JB350-16 OC BLOCKING	0.0538	16	50	8.25
16	12	2	1600JB200-12 OC BLOCKING	0.0538	16	50	5.125
16	12	2.5	1600JB250-12 OC BLOCKING	0.0538	16	50	5.125
16	12	3	1600JB300-12 OC BLOCKING	0.0538	16	50	5.125
16	12	3.5	1600JB350-12 OC BLOCKING	0.0538	16	50	5.125
18	16	2	1800JB200-16 OC BLOCKING	0.0538	16	50	8.25
18	16	2.5	1800JB250-16 OC BLOCKING	0.0538	16	50	8.25
18	16	3	1800JB300-16 OC BLOCKING	0.0538	16	50	8.25
18	16	3.5	1800JB350-16 OC BLOCKING	0.0538	16	50	8.25
18	12	2	1800JB200-12 OC BLOCKING	0.0538	16	50	5.125
18	12	2.5	1800JB250-12 OC BLOCKING	0.0538	16	50	5.125
18	12	3	1800JB300-12 OC BLOCKING	0.0538	16	50	5.125
18	12	3.5	1800JB350-12 OC BLOCKING	0.0538	16	50	5.125



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