Atlas offers AL-SPEED® aluminum and Atlas Multi-Channel high strength, adjustable steel column form systems. Both systems offer the advantages of producing an architectural finish and being available on a rental basis. Form skins are generally 3/4” HDO or Finply.

Atlas AL-SPEED® aluminum column forms are capable of up to 36” widths and generally utilized to a height up to 16 ft. They are provided with quick double closures (two piece) or hinged/single closures (one piece).

Atlas Multi-Channel forms are capable of up to 72” widths and have been used to heights up to 45 ft. They are provided with quick swivel barrel assembly double closures. Atlas can offer either of these forms pre-assembled and delivered to the jobsite ready to use.
AL-SPEED® ALUMINUM CLAMPS
FOR COLUMN AND BEAM FORMING

The AL-SPEED® Aluminum Clamp System was designed and developed for maximum utility in concrete column and beam forming applications.

The clamp material is a high strength structural aluminum alloy extrusion. The clamp cross section is rectangular and measures 1-1/2" x 3-1/2" (same as a 2x4) with a 1" wide integral flange on one side. The flange has 5/16" diameter holes @ 1-1/4" O.C. throughout its length. These holes are for nailing or lagging (1/4" diameter lag bolts) the clamp to form support members. The body of the clamp has 1-1/16" diameter holes @ 2" O.C. to accommodate column sizes from 12" x 12" up to 36" x 36", and 36" deep beams from 10" wide up to 24" wide.

Standard Clamp Sizes:
- AL-SPEED® 33 Clamp for columns from 14" x 14" up to 24" x 24", and 36" deep beams from 10" up to 24" wide.
- AL-SPEED® 48 Clamp for columns from 20" x 20" up to 40" x 40".

Clamp Weight:
- AL-SPEED® 33 Clamp Weight = 11.5 lbs.
- AL-SPEED® 48 Clamp Weight = 16.5 lbs.

Clamp Assembly Types:
I. Double Closure - Closure assembly on both opposing corners
II. Hinged - Closure assembly on one corner; hinge on opposite corner
III. Extended Hinged - Closure assembly and hinge for crane set forming
Double Closure: Closure assembly on both opposing corners

- 2 each AL-SPEED® clamps (33 or 48)
- 2 each AL-SPEED® column closure assemblies
- 8 each 1” x 3” M-bolts with hex nut & washers

Multi-Channel Diagrams

Various Column Dimensions

Al-Speed® Column Form
Multi-Channel Diagrams

Elevation 36" x 36" column

Plan 36" x 36" column

Double Closure

Minimum size
Double-closure column form using AL-SPEED® 33 clamps and 2x4 flat

Maximum size
Double-closure column form using AL-SPEED® 33 clamps and 2x4 flat

Minimum size
Double-closure column form using AL-SPEED® 48 clamps and 2x4 flat

Maximum size
Double-closure column form using AL-SPEED® 48 clamps and 2x4 flat

minimum size double-closure column form using AL-SPEED® 33 clamps and 2x4 flat

maximum size double-closure column form using AL-SPEED® 33 clamps and 2x4 flat

minimum size double-closure column form using AL-SPEED® 48 clamps and 2x4 flat

maximum size double-closure column form using AL-SPEED® 48 clamps and 2x4 flat

516 STRAP 4" X 4" OR 4" X 6" ON FLAT
**Hinged: Closure assembly and hinge for crane set forming**

- 2 each Al-SPEED clamps (33 or 48)
- 1 each Al-SPEED column closure assembly
- 1 each 1" x 4 1/2" hinge m-bolts with hex nut & washers
- 4 each 1" x 3" m-bolts with hex nut & washers

**Multi-Channel Photographs**
MULTI-CHANNEL STEEL CLAMPS
FOR COLUMN AND BEAM FORMING

The Multi-Channel Clamp System was designed and developed for larger and taller concrete column and beam forming applications than the AL-SPEED® Clamp System.

The clamp material is 4” to 6” steel channel pairs and hardware. The body of the clamp has 1-1/16” diameter holes @ 2” O.C. to accommodate column sizes from 12” up to 72” wide and up to 45’ tall. The clamp elements accommodate beams with widths and depths to 48”.

Clamp Assembly Types:

i. Double Closure - Closure assembly on both opposing corners

ii. Hinged - Closure assembly on one corner; hinge on opposite corner

MINIMUM SIZE HINGED COLUMN FORM USING AL-SPEED® 33 CLAMPS AND 2X4 FLAT

MAXIMUM SIZE HINGED COLUMN FORM USING AL-SPEED® 48 CLAMPS AND 2X4 FLAT

1” X 4-1/2” M-BOLT WITH NUT & 4 WASHERS FOR HINGED APPLICATION

1” X 4-1/2” M-BOLT WITH NUT & 4 WASHERS FOR HINGED APPLICATION
Extended Hinged: Closure assembly and hinge for crane set forming

- 2 EACH AL-SPEED clamps (33 or 48)
- 1 EACH AL-SPEED column closure assembly
- 1 EACH 1” x 6” hinge M-bolts with hex nut & washers
- 4 EACH Extended Hinge Plates
- 4 EACH 1” x 3” M-bolts with hex nut & washers
- 4 EACH 1” x 4-1/2” M-bolts with hex nuts

AL-SPEED® Column Form Photographs
**Assemblies**

**Corner Lock Assembly**

**Hinged Assembly for gang-set application**

**Hinged Assembly for gang-set application**

**Extended Hinged**
AL-SPEED® Column Clamp Size & Spacing Chart

Column Form Elevations

<table>
<thead>
<tr>
<th>Column Form Elevations</th>
<th>Column Clamp Size &amp; Spacing Chart</th>
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<tr>
<td>MAX. ALLOWABLE BENDING MOMENT IN CLAMP = 2500 LB-FT</td>
<td>MAX. ALLOWABLE RESULTANT CLOSURE LOAD = 3500 LBS. TENSION</td>
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<td>CHART BASED ON MAX. 2400 PSF CONCRETE PRESSURE</td>
<td>CLAMPS DESIGNED TO SUPPORT 3/4&quot; B-B CLASS 1 PLYWOOD OR BETTER WITH BACK-UP OF CONSTRUCTION GRADE 2X4 ON-FLAT</td>
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<table>
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<tr>
<th>Column Height</th>
<th>Hinged/Extended Hinged</th>
<th>Double Closure</th>
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<tr>
<td>1' - 0&quot;</td>
<td>2 x 4 Flat</td>
<td>2 x 4 Flat</td>
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<tr>
<td>2' - 0&quot;</td>
<td>14&quot; x 16&quot;</td>
<td>14&quot; x 16&quot;</td>
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<tr>
<td>3' - 0&quot;</td>
<td>14&quot; x 16&quot;</td>
<td>14&quot; x 16&quot;</td>
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<tr>
<td>4' - 0&quot;</td>
<td>20&quot; x 20&quot;</td>
<td>20&quot; x 20&quot;</td>
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<tr>
<td>5' - 0&quot;</td>
<td>20&quot; x 20&quot;</td>
<td>20&quot; x 20&quot;</td>
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<tr>
<td>6' - 0&quot;</td>
<td>20&quot; x 20&quot;</td>
<td>20&quot; x 20&quot;</td>
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<tr>
<td>7' - 0&quot;</td>
<td>20&quot; x 20&quot;</td>
<td>20&quot; x 20&quot;</td>
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<tr>
<td>8' - 0&quot;</td>
<td>20&quot; x 20&quot;</td>
<td>20&quot; x 20&quot;</td>
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<tr>
<td>9' - 0&quot;</td>
<td>20&quot; x 20&quot;</td>
<td>20&quot; x 20&quot;</td>
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<tr>
<td>10' - 0&quot;</td>
<td>20&quot; x 20&quot;</td>
<td>20&quot; x 20&quot;</td>
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<tr>
<td>11' - 0&quot;</td>
<td>20&quot; x 20&quot;</td>
<td>20&quot; x 20&quot;</td>
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<td>12' - 0&quot;</td>
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<td>13' - 0&quot;</td>
<td>20&quot; x 20&quot;</td>
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<td>14' - 0&quot;</td>
<td>20&quot; x 20&quot;</td>
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<tr>
<td>15' - 0&quot;</td>
<td>20&quot; x 20&quot;</td>
<td>20&quot; x 20&quot;</td>
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<tr>
<td>16' - 0&quot;</td>
<td>20&quot; x 20&quot;</td>
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</tbody>
</table>

8 FT COLUMN FORM ELEVATION (FULL LIQUID HEAD)

10 FT COLUMN FORM ELEVATION (FULL LIQUID HEAD)

LIFTING STRAP OPTIONAL FOR CRANE SET APPLICATION

LIFTING STRAP OPTIONAL FOR CRANE SET APPLICATION

www.atlasform.com www.atlasform.com
**AL-SPEED® Column Clamp Size & Spacing Chart**

**Column Form Elevations**

- **9 ftColumn Form Elevation** (Full liquid head)
- **10 ftColumn Form Elevation** (Full liquid head)

### Column Form Elevations

#### 8 ft Column Form Elevation (Full liquid head)

- **Column Height**: 1' - 0"
  - **Hinged/Extended Hinged**: 2 x 4 Flat
  - **Double Closure**: 2 x 4 Flat
  - **ASC 33 Minimum**: 14" x 16" 24" x 24" 24" x 24" 24" x 24"
  - **ASC 33 Maximum**: 14" x 16" 24" x 24" 24" x 24" 24" x 24"
  - **ASC 48 Minimum**: 20" x 20" 40" x 40" 20" x 20" 40" x 40"
  - **ASC 48 Maximum**: 20" x 20" 40" x 40" 20" x 20" 40" x 40"

#### 10 ft Column Form Elevation (Full liquid head)

- **Column Height**: 1' - 0"
- **Lifting Strap Optional for Crane Set Application**

### Chart Based on Max. 2400 PSF Concrete Pressure

- Clamps designed to support 3/4" B-B Class 1 plywood or better with back-up of construction grade 2x4 on-flat.
- Max. Allowable bending moment in clamp = 2500 lb-ft.
- Max. allowable resultant closure load = 3500 lbs. tension.

**24" x 24"**

- **(AL-SPEED® Clamp 33)**
- **(AL-SPEED® Clamp 48)**

**36" x 36"**

- **(AL-SPEED® Clamp 48)**

**Lifting Strap Optional for Crane Set Application**

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www.atlasform.com  www.atlasform.com
Assemblies

1" X 4-1/2" M-BOLT WITH NUT & 4 WASHERS

Corner Lock Assembly

1" X 4-1/2" M-BOLT WITH NUT & 4 WASHERS

Hinged Assembly for gang-set application

1" X 6" HINGE BOLT WITH LOCK NUT & 1 WASHER

Hinged Assembly for gang-set application

Extended Hinged

1" X 4-1/2" M-BOLT WITH NUT
Extended Hinged: Closure assembly and hinge for crane set forming

- 2 each AL-SPEED clamps (33 or 48)
- 1 each AL-SPEED column closure assembly
- 1 each 1” x 6” hinge M-bolts with hex nut & washers
- 4 each Extended Hinge Plates
- 4 each 1” x 3” M-bolts with hex nut & washers
- 4 each 1” x 4-1/2” M-bolt with hex nuts

AL-SPEED® Column Form Photographs
MULTI-CHANNEL STEEL CLAMPS FOR COLUMN AND BEAM FORMING

The Multi-Channel Clamp System was designed and developed for larger and taller concrete column and beam forming applications than the AL-SPEED® Clamp System.

The clamp material is 4” to 6” steel channel pairs and hardware. The body of the clamp has 1-1/16” diameter holes @ 2” O.C. to accommodate column sizes from 12” up to 72” wide and up to 45’ tall. The clamp elements accommodate beams with widths and depths to 48”.

Clamp Assembly Types:

i. Double Closure - Closure assembly on both opposing corners
ii. Hinged - Closure assembly on one corner; hinge on opposite corner

1" X 4-1/2" M-BOLT WITH NUT & 4 WASHERS FOR HINGED APPLICATION

MINIMUM SIZE HINGED COLUMN FORM USING AL-SPEED® 33 CLAMPS AND 2X4 FLAT

MAXIMUM SIZE HINGED COLUMN FORM USING AL-SPEED® 48 CLAMPS AND 2X4 FLAT
Hinged Column Form

Hinged Column Form

AL-SPEED® Column Clamp: Hinged

AL-SPEED® Column Clamp: Hinged

AL-SPEED® Column Clamp: Hinged

AL-SPEED® Column Clamp: Hinged

AL-SPEED® Column Clamp: Hinged

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AL-SPEED® Column Clamp: Hinged
Multi-Channel Diagrams

Double Closure

**Elevation 36" x 36" column**

- 3 BOLT
- BRACE POINT
- BRACE

**Plan 36" x 36" column**

- LIFTING STRAP
- 4" PLAMOS
- 2" TYPICAL

**Minimum Size**
Double-closure column form using AL-SPEED® 33 clamps and 2x4 FLAT

**Maximum Size**
Double-closure column form using AL-SPEED® 48 clamps and 2x4 FLAT

**Minimum Size**
Double-closure column form using AL-SPEED® 48 clamps and 2x4 FLAT

**Maximum Size**
Double-closure column form using AL-SPEED® 48 clamps and 2x4 FLAT
**Double Closure:** Closure assembly on both opposing corners
- 2 each AL-SPEED® clamps (33 or 48)
- 2 each AL-SPEED® column closure assemblies
- 8 each 1” x 3” M-bolts with hex nut & washers

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**Multi-Channel Diagrams**

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**Various Column Dimensions**

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**Al-Speed® Column Form**

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**Double Closure Assembly**
Multi-Channel Photographs

AL-SPEED® Column Form Photographs
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