

MFG CONSTRUCTION PRODUCTS COMPANY

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One-Piece Round Column Form Manual

Material and Tools

The basic materials needed to install MFG One-piece Round Column Forms include:

- 1) One-Piece Round Column Form (Provided)
- 2) 2-Half Bracing Collars (Provided per order)
- 3) Attachment Hardware (Provided)
- 4) Adjustable Turnbuckles (By Others)
- 5) Form Release (By Others)

The basic tools needed to install the form include:

- 1) Tape Measure
- 2) Chalk Line
- 3) Plumb Line
- 4) Sprayer with wand extension
- 5) Wrench and Socket Set
- 6) Hammer
- 7) Personal Protective Equipment

The quantities of materials and tools required will vary with the size of the project and the method of installation.

Placing of the Column Forms

Be certain form release has been applied prior to installing the column form.

Use kickers, secured to the slab, to keep the bottom of the column form in position. Secure the bracing collar approximately 12" from the top of the form, and attach braces (adjustable turnbuckles) to the collar as required to hold the column form vertical while filling.

Check to make certain that all bolts are tight, the bracing collar is in the proper position, and all bracing is sufficient to hold each column form. Do not dump the concrete. Each column has affixed to it a label stating the maximum rate of pour. This chart is for normal concrete only. Refer to the following charts for other types of concrete.

| Normal Concrete Deg F | Pour Rate Ft per hour | Concrete containing Fly Ash Deg F | Pour rate Ft per hour | Concrete containing Fly Ash and Superplasticizers Deg F | Pour rate Ft per hour |
|-----------------------|-----------------------|-----------------------------------|-----------------------|---|-----------------------|
| 90 | 20 | 90 | 16 | 90 | 14 |
| 80 | 18 | 80 | 14 | 80 | 13 |
| 70 | 16 | 70 | 13 | 70 | 11 |
| 60 | 14 | 60 | 11 | 60 | 9 |
| 50 | 11 | 50 | 9 | 50 | 8 |
| 40 | 9 | 40 | 7 | 40 | 6 |

The above is based on maximum lateral pressure of 2250 psi.

It is essential that form release be applied to the interior of the column form prior to each use. Application of the form release should be per the form release manufacturer's instruction.

Do not drill holes, punch or otherwise mutilate MFG One-Piece Round Column Forms in any way without written authorization from the manufacturer.

Removal of the Column Form

Remove all bolts and nuts. Spread the form open by pulling each side (pull across the diameter of the column.) The column form is designed to open completely for removal from around the cast column.

CAUTION: Please caution all workers that when they are removing the form from around the column, once the form is free, the form will tend to snap back into the closed position. **DO NOT** put fingers between the flanges as serious injury could occur.

MFG One-Piece Round Column Form can also be lifted off vertically. Remove all bolts and nuts, wedge the form flanges apart to be certain that the form is loose from the cast column, and by attaching a bolt at the top of the column, lift it off vertically.

Cleaning of the Forms

Spread the column form open and position a permanent member, such as a notched 2" x 6" to hold the form open. You need to put one 12" from each end and one in the middle. Then wipe with burlap saturated with form release. This will not only remove any remaining grout or green concrete but will prepare it for the next use. Column forms should be returned in ready to use condition, clean and free of all concrete. **If the column forms are not received clean and free of concrete, you will be subject to cleaning and reconditioning charges equal to one month's rent per form.**

Prior to returning the forms, please call your MFG Construction Products Company Representative to obtain the address of your nearest distribution center.

To reduce the return freight cost, column forms should be nested together, five or six to a bundle, with the collars, nuts and bolts boxed on a separate pallet. Any damage or missing items will be invoiced accordingly.

WARNING: This product should be used only in accordance with any instructions provided by MFG. Please observe proper safety precautions, including OSHA regulations and any other applicable standards. Improper use or failure to observe safety precautions may result in injury. If you have not been advised of safety precautions and standards for use of this product, please notify your supervisor or foreman immediately. MFG is not responsible for damage or personal injury caused by improper use or handling of this product.

Additional Information

| Normal Concrete Deg C | Pour rate Meter per hour | Concrete containing Fly Ash Deg C | Pour rate Meter per hour | Concrete containing Fly Ash and Superplasticizers Deg C | Pour rate Meter per hour |
|-----------------------|--------------------------|-----------------------------------|--------------------------|---|--------------------------|
| 32.2 | 6.095 | 90 | 4.876 | 90 | 4.267 |
| 26.7 | 5.486 | 80 | 4.267 | 80 | 3.962 |
| 21.1 | 4.876 | 70 | 3.962 | 70 | 3.352 |
| 15.6 | 4.267 | 60 | 3.352 | 60 | 2.743 |
| 10.0 | 3.352 | 50 | 2.743 | 50 | 2.438 |
| 4.4 | 2.743 | 40 | 2.133 | 40 | 1.829 |

The above is based on maximum lateral pressure of 11009 kg per sq meter

