



## FORM-A-KEY PRODUCTS

### CONCRETE SPECIALTIES

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**A DIVISION OF CARDINAL MFG.,INC**

### 1. PRODUCT NAME

KEY-LOC® JOINT SYSTEM

### 2. MANUFACTURER

FORM-A-KEY PRODUCTS DIVISION

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Louisville, KY 40214

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### 3. PRODUCT DESCRIPTION

**Basic Use:** Key-Loc® Joint is a galvanized steel cold joint left permanently in concrete slabs. Key-Loc® Joint has a tongue and groove shape that works as an effective load transfer device at slab joints. Key-Loc® Joint also serves as a contraction joint, an edge form and screeding rail during construction. Key-Loc® Joint, through the use of a squared top, minimizes spalling and provides for expansion to control random cracking. Key-Loc® Joint utilizes a radius formed key to minimize sharp angles and to achieve the maximum load transfer possible. A bottom hem has been manufactured into the Key-Loc® Joint that adds strength and eliminates all sharp edges.

Key-Loc® Joint accelerates pour time and increases labor productivity:

- a) Reduces installation time due to one step joint stake interlock that locks joint with stake at any point. This feature also keeps the joint from rising or floating off the stakes and eliminates wiring, nailing or screwing the joint to the stake.
- b) Eliminates checkerboard pouring and curing problems associated with it. Therefore, the entire slab may be poured in one day.
- c) Eliminates wheel barrows, ramps and pumps normally used in the placement of concrete during checker-boarding. Ready-mix trucks are used to pour concrete directly on site.
- d) Screed and finish concrete with joint securely embedded.

### Composition and Materials:

- A. Key-Loc® Joint is constructed from 24 gauge galvanized steel with dowel knockouts on six inch centers and is shaped to form a constant tongue and groove key between adjacent concrete floor slab sections.
- B. Key-Loc® Joint forms are secured in place by 13 gauge HRPO steel stakes installed at 2 foot intervals.
- C. "Snap-In" Joint Splice gives perfect alignment and eliminates the need to place stakes at joint butts.
- D. Optional stake clip adds strength to screed and eliminates need to wire or nail stake to joint.  
Clip is used only when it is necessary to pour on stake side first.
- E. Four types of plastic cap are available for use with Key-Loc Joint:
  - A) #0658 – A black removable cap that snaps onto the Key-Loc Joint prior to pouring. After concrete has set, cap is removed and a 13/32" x 1/2" void is available for joint sealant. This cap be re-used as many as 15 times.
  - b) #1886 – A ribbed black adapter cap for use with removable polystyrene cap that snaps onto the Key-Loc Joint prior to pouring. After concrete has set, top half of polystyrene cap is removed and depending upon polystyrene cap choice, either a 1/2" x 1/2" or a 3/8" x 1/2" void is available for joint sealant.

- c) #2137 – A modern approach for sealing concrete slabs! Aesthetically appealing, this one-step plastic cap provides for expansion and contraction while forming a water resistant seal. This UV resistant cap saves contractors time and money! No need to remove cap and caulk. Available in black and gray – 250 feet per roll
- d) #3017 – The easiest, most economical way to finish concrete slabs with a water resistant seal. Install Key-Loc Joint with our Clean-Strip cap applied to top edge. Pour and finish concrete slab. Peel off top of Clean-Strip cap for the most aesthetically appealing controlled slabs. No need to strip or caulk. Available in black and gray – 200 feet per roll.

**Sizes:** Key-Loc Joint is manufactured in 10' lengths, for slab depths of 3", 4", 5" 6" 8", 10 and 12". Key-Loc Stakes are constructed of 13 gauge HRPO steel that is 1" in width. Stakes are pointed, have ratchet tops as well as five (.15") pre-punched nail holes. Key-Loc Stakes can also be used as grade stakes, edge forming stakes, etc.

#### 4. TECHNICAL DATA:

Key-Loc® Forms and stakes are made of 24 gauge galvanized and 13 gauge HRPO steel respectively. ASTM numbers are as follows: Joint-A653, Stakes-A569.

#### 5. INSTALLATION:

- a) Stretch line over entire length of pour. Drive stakes at approximately 20 foot centers. Set stakes to finish floor elevation. If vinyl cap #0658 is used, drive stakes 3/16" deeper. If vinyl cap #1886 is used, drive stakes 5/8" deeper.
- b) Intermediate stakes are driven to the bottom of the line at approximately 2 foot centers.
- c) Hang Key-Loc® Joint on stakes and push down. Key-Loc® Joint automatically locks into place.
- d) Install "snap-in" joint splice for perfect alignment of joint ends.
- e) Install stake clip when it is necessary to pour on the stake side first.
- f) Knockouts are provided at 6" centers along Key-Loc® Joint for rebar penetration. When Key-Loc® is used as a shut-off, the knockouts shall be bent to 45 degrees into the pour to act as anchors.
- g) Place concrete in slab straight from ready-mix truck or by alternative means.
- h) The square top of the Key-Loc Joint serves as a screed rail for screeding and finishing the surface.

#### 6. AVAILABILITY & COST:

*Availability:* Stocks of Key-Loc® Joint in standard sizes are available through Key-Loc® Joint dealers nationwide.

*Cost:* Prices obtained through nearest Key-Loc® Joint dealers upon request.

#### 7. WARRANTY:

This product will perform as described herein only if all directions are followed. Form-A-Key is not responsible for improper use, storage or application of the product, or for the conditions under which the product is used. This product is supplied subject to Form-A-Key standard terms of sale which limit Form-A-Key's responsibility for the product. Warranty is limited solely to replacement of products proved defective.

#### 8. MAINTENANCE:

None required.

#### 9. TECHNICAL SERVICES:

Complete technical information along with brochures, may be obtained from the nearest Key-Loc® Joint dealers or by direct contact with the manufacturer's Marketing/Customer Services Department