The Hog Leg® Wall Brace System is designed to brace a masonry wall built with elements based on codes from Masonry Structures ACI530/ASCE5/TMS402 that is 95 pounds per cubic foot minimum. A minimum of two (2) braces per wall panel are required, located 20% of wall length from each end of the panel. Wall panels to be a maximum of 25'-0” long. Bracing requirements differ for reinforced and unreinforced walls, as well as the amount of reinforcement installed in each wall. Bracing requirements also differ based upon current and predicted maximum wind speeds until final structural connections are in place. **Note that the information shown in this manual is designed to support fully reinforced masonry walls during the intermediate period of construction.** To determine bracing locations during the initial period or for bracing unreinforced walls, refer to the latest addition of Standard Practice for Bracing Masonry Walls Under Construction or contact a licensed Professional Engineer familiar with local and national codes.

The Hog Leg® Wall Brace is to be installed by trained employees under the supervision of a competent person. All parts should be inspected before installation; any worn, damaged, or corroded parts should be taken out of service immediately and replaced.

Do not alter any part of the Hog Leg®.

All bracing should be done in accordance with the most recent publication of Standard Practice for Bracing Masonry Walls Under Construction, developed by the Council for Masonry Wall Bracing.

The data applies to the Hog Leg® Wall Brace only. Wall strength between connections, floor anchoring, deadman sizing, and site conditions are the responsibility of the Contractor.

**Warning:** This manual should be used as a reference for bracing, but not for final design. Before attempting to brace any wall, consult the latest edition of Standard Practice for Bracing Masonry Walls Under Construction, OSHA, or a local licensed Professional Engineer.

**Warning:** Minimum of 10” of overlap required on Hog Leg® Extension connection.

**Warning:** Limited Access Zones must be established during the construction of masonry walls, as well as after wall bracing has been installed. These zones must be maintained by all trades until permanent supporting elements of the structure are in place. All employees working around masonry walls during construction must be aware of the evacuation wind speeds to know when to evacuate these zones. These wind speeds are described in The Standard Practice for Bracing Masonry Walls Under Construction.

EZ Grout Corporation strongly recommends grouting in 4’ to 6’ lifts as the walls are being laid. Low lift grouting as the walls are being laid allows for fewer braces and an overall stronger intermediate structure as described in the Standard Practice for Bracing Masonry Walls Under Construction.

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Waterford, OH 45786
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Fax (740) 749-0602 www.ezgrout.com

"Information shown in this manual is subject to change without notice. Any and all changes are at the authors discretion. Current manual revisions supersede previous revisions. Contact EZ Grout Corporation for current revisions to manual."
**Chart 1**

Hog Leg® Rating\(^0\) vs. Brace Length for a 8” Reinforced Wall
(Includes Brace Locations for a Reinforced Wall during the Intermediate Period of Construction)

<table>
<thead>
<tr>
<th>Wall Height (ft.-in.) (^1)</th>
<th>Brace Height (ft.-in.)</th>
<th>Brace Run (ft.-in.)</th>
<th>Brace Length (ft.-in.) (^2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18’-0”</td>
<td>11’-8”</td>
<td>10’-3”</td>
<td>14’-7”</td>
</tr>
<tr>
<td>20’-0”</td>
<td>13’-8”</td>
<td>11’-0”</td>
<td>19’-7”</td>
</tr>
<tr>
<td>22’-0”</td>
<td>15’-8”</td>
<td>13’-3”</td>
<td>21’-1”</td>
</tr>
<tr>
<td>24’-0”</td>
<td>17’-8”</td>
<td>14’-9”</td>
<td>24’-7”</td>
</tr>
<tr>
<td>26’-0”</td>
<td>19’-8”</td>
<td>15’-9”</td>
<td>26’-3”</td>
</tr>
<tr>
<td>28’-0”</td>
<td>21’-0”</td>
<td>15’-9”</td>
<td>26’-3”</td>
</tr>
<tr>
<td>30’-0”</td>
<td>21’-0”</td>
<td>15’-9”</td>
<td>26’-3”</td>
</tr>
<tr>
<td>31’-4”</td>
<td>21’-0”</td>
<td>15’-9”</td>
<td>26’-3”</td>
</tr>
</tbody>
</table>

**Note:**
1) Wall Height is maximum 10’-4” above Brace Height for a 8” reinforced wall per page 34 of Standard Practice for Bracing Masonry Walls Under Construction.
2) Brace Length is calculated as 5/4 Brace Height. Hog Leg® is rated on Brace Length.
3) Brace Run is calculated as 3/4 Brace Height.
4) Wind loading is per Hog Leg® Brace. Per Standard Practice for Bracing Masonry Walls Under Construction all walls require two braces between expansion joints with expansion joints to be maximum 25’ apart. The Chart shows loading on a Hog Leg® for the given wind speed and assumes the wall is grouted at 48” on center minimum using 8” block with a minimum density of 95 lb/ft\(^3\). Wind loading on each brace is calculated as the Wind Propagation (w = 0.00256 x V\(^2\) where V is the Wind Speed) in pounds per square foot multiplied by the Wall Area in square feet minus resistance from wall weight.
5) Wind Loading on a Hog Leg® as shown in Chart is calculated for a 24’-8” long wall panel with two (2) braces installed 5’-4” from each end of wall panel leaving 14’-0” between braces. For other wall lengths divide the wall length by 24’-8” and multiply the Wind loading on a Hog Leg®. Refer to Drawing 3 on page 6 of this manual for installation.
6) Hog Leg® without Kicker installation per Drawing 1 located on page 4 of this manual.
7) Hog Leg® with Kicker installation per Drawing 2 located on page 5 of this manual.
8) Hog Leg® with Kicker and Guide Wire installation per Drawing 4 located on page 12 of this manual.
9) Wind loading based on fully reinforced wall that has zero deflection between braces and from brace connection point to wall base.
10) Ratings based on a 1.5:1 Safety Factor.
Hog Leg® Rating\textsuperscript{10} vs. Brace Length for a 12” Reinforced Wall
(Includes Brace Locations for a Reinforced Wall during the Intermediate Period of Construction)

Chart 2

---

1) Wall Height is maximum 15’-0” above Brace Height for a 12” reinforced wall per page 34 of Standard Practice for Bracing Masonry Walls Under Construction.

2) Brace Length is calculated as 5/4 Brace Height. Hog Leg® is rated on Brace Length.

3) Brace Run is calculated as 3/4 Brace Height.

4) Wind loading is per Hog Leg® Brace. Per Standard Practice for Bracing Masonry Walls Under Construction all walls require two braces between expansion joints with expansion joints to be maximum 25’ apart. The Chart shows loading on a Hog Leg® for the given wind speed and assumes the wall is grouted at 72” on center minimum using 12” block with a minimum density of 95 lb./ft\(^3\). Wind loading on each brace is calculated as the Wind Propagation (\(w = 0.00256 \times V^2\) where \(V\) is the Wind Speed) in pounds per square foot multiplied by the Wall Area in square feet minus resistance from wall weight.

5) Wind Loading on a Hog Leg® as shown in Chart is calculated for a 24’-8” long wall panel with two (2) braces installed 5’-4” from each end of wall panel leaving 14’-0” between braces. For other wall lengths divide the wall length by 24’-8” and multiply the Wind loading on a Hog Leg®. Refer to Drawing 3 on page 6 of this manual for installation.

6) Hog Leg® without Kicker installation per Drawing 1 located on page 4 of this manual.

7) Hog Leg® with Kicker installation per Drawing 2 located on page 5 of this manual.

8) Hog Leg® with Kicker and Guide Wire installation per Drawing 4 located on page 12 of this manual.

9) Wind loading based on fully reinforced wall that has zero deflection between braces and from brace connection point to wall base.

10) Ratings based on a 1.5:1 Safety Factor.
### Drawing 1: Typical Hog Leg® Wall Brace Installation Without Kicker

<table>
<thead>
<tr>
<th>Brace Height</th>
<th>Brace Run</th>
<th>Brace Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>10'-4&quot;</td>
<td>7'-9&quot;</td>
<td>12'-11&quot;</td>
</tr>
<tr>
<td>11'-0&quot;</td>
<td>8'-3&quot;</td>
<td>13'-9&quot;</td>
</tr>
<tr>
<td>11'-8&quot;</td>
<td>8'-9&quot;</td>
<td>14'-7&quot;</td>
</tr>
<tr>
<td>12'-4&quot;</td>
<td>9'-3&quot;</td>
<td>15'-5&quot;</td>
</tr>
<tr>
<td>13'-0&quot;</td>
<td>9'-9&quot;</td>
<td>16'-3&quot;</td>
</tr>
<tr>
<td>13'-8&quot;</td>
<td>10'-3&quot;</td>
<td>17'-1&quot;</td>
</tr>
<tr>
<td>14'-4&quot;</td>
<td>10'-9&quot;</td>
<td>17'-11&quot;</td>
</tr>
<tr>
<td>15'-0&quot;</td>
<td>11'-3&quot;</td>
<td>18'-9&quot;</td>
</tr>
<tr>
<td>15'-8&quot;</td>
<td>11'-9&quot;</td>
<td>19'-7&quot;</td>
</tr>
<tr>
<td>16'-4&quot;</td>
<td>12'-3&quot;</td>
<td>20'-5&quot;</td>
</tr>
<tr>
<td>17'-0&quot;</td>
<td>12'-9&quot;</td>
<td>21'-3&quot;</td>
</tr>
<tr>
<td>17'-8&quot;</td>
<td>13'-3&quot;</td>
<td>22'-1&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Brace Height</th>
<th>Brace Run</th>
<th>Brace Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>18'-4&quot;</td>
<td>13'-9&quot;</td>
<td>22'-11&quot;</td>
</tr>
</tbody>
</table>

**Warning:** For extreme wind speeds (greater than 40 MPH) or requirements that exceed Standard Practice for Bracing Masonry Walls Under Construction a kicker is required, on brace lengths 22'-11" or longer.

<table>
<thead>
<tr>
<th>Brace Height</th>
<th>Brace Run</th>
<th>Brace Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>19'-0&quot;</td>
<td>14'-3&quot;</td>
<td>23'-9&quot;</td>
</tr>
<tr>
<td>19'-8&quot;</td>
<td>14'-9&quot;</td>
<td>24'-7&quot;</td>
</tr>
<tr>
<td>20'-4&quot;</td>
<td>15'-3&quot;</td>
<td>25'-5&quot;</td>
</tr>
<tr>
<td>21'-0&quot;</td>
<td>15'-9&quot;</td>
<td>26'-3&quot;</td>
</tr>
</tbody>
</table>

**Warning:** For Brace Lengths longer than 26'-3" a Kicker is required, for all conditions.
Drawing 2: Typical Hog Leg® Wall Brace Installation With Kicker

<table>
<thead>
<tr>
<th>Brace Height</th>
<th>Brace Run</th>
<th>Brace Length</th>
<th>Kicker Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>16'-4&quot;</td>
<td>12'-3&quot;</td>
<td>20'-5&quot;</td>
<td>3'-6¾&quot;</td>
</tr>
<tr>
<td>17'-0&quot;</td>
<td>12'-9&quot;</td>
<td>21'-3&quot;</td>
<td>3'-8¾&quot;</td>
</tr>
<tr>
<td>17'-8&quot;</td>
<td>13'-3&quot;</td>
<td>22'-1&quot;</td>
<td>3'-10¾&quot;</td>
</tr>
<tr>
<td>18'-4&quot;</td>
<td>13'-9&quot;</td>
<td>22'-11&quot;</td>
<td>4'-0¾&quot;</td>
</tr>
<tr>
<td>19'-0&quot;</td>
<td>14'-3&quot;</td>
<td>23'-9&quot;</td>
<td>4'-1½&quot;</td>
</tr>
<tr>
<td>19'-8&quot;</td>
<td>14'-9&quot;</td>
<td>24'-7&quot;</td>
<td>4'-3¾&quot;</td>
</tr>
<tr>
<td>20'-4&quot;</td>
<td>15'-3&quot;</td>
<td>25'-5&quot;</td>
<td>4'-5¾&quot;</td>
</tr>
<tr>
<td>21'-0&quot;</td>
<td>15'-9&quot;</td>
<td>26'-3&quot;</td>
<td>4'-7¾&quot;</td>
</tr>
</tbody>
</table>

**Warning:** For extreme wind speeds (greater than 40 MPH) or requirements that exceed Standard Practice for Bracing Masonry Walls Under Construction, a Kicker and Guide Wires are required, on brace lengths 26'-3" or longer. Guide Wires installation shown on Page 12 of this manual.

<table>
<thead>
<tr>
<th>Brace Height</th>
<th>Brace Run</th>
<th>Brace Length</th>
<th>Kicker Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>21'-8&quot;</td>
<td>16'-3&quot;</td>
<td>27'-1&quot;</td>
<td>4'-8¾&quot;</td>
</tr>
<tr>
<td>22'-4&quot;</td>
<td>16'-9&quot;</td>
<td>27'-11&quot;</td>
<td>4'-10¾&quot;</td>
</tr>
<tr>
<td>23'-0&quot;</td>
<td>17'-3&quot;</td>
<td>28'-9&quot;</td>
<td>5'-0¾&quot;</td>
</tr>
<tr>
<td>23'-8&quot;</td>
<td>17'-9&quot;</td>
<td>29'-7&quot;</td>
<td>5'-2¾&quot;</td>
</tr>
<tr>
<td>24'-4&quot;</td>
<td>18'-3&quot;</td>
<td>30'-5&quot;</td>
<td>5'-3¾&quot;</td>
</tr>
</tbody>
</table>

**Warning:** For Brace Lengths longer than 30'-5" a Kicker and Guide Wires are required, for all conditions.
Note:
Standard Practice for Bracing Masonry Walls Under Construction requires (2) braces per wall panel for a maximum panel length of 25'-0". For panels less than 25'-0" in length, braces are to be placed 0.2 times wall length from each end. For panels longer than 25'-0" additional bracing is required.

Example:
Determine brace spacing for a wall panel 20'-0" between expansion joints.
End Spacing = 20'-0" x 0.2 = 4'-0" from each end leaving 12'-0" between braces.
General Specifications shown on Chart 1 (page 2) and Chart 2 (page 3) for a reinforced wall during the intermediate period of construction

- Brace Length is 5/4 the Brace Height.
- Length of wall panel is 24'-8" between expansion joints with one (1) Hog Leg® installed at 5'-4" from each end leaving 14’ between braces

Scenario 1:
A 8” masonry wall of minimum 95 lb/ft³ density grouted on a maximum of 48” centers with a Wall Height of 24’-0” is subject to 40 mph wind:
Install Hog Leg® at 17'-8” per Chart 1
Brace Length to reach this height is 22’-1” (5/4 multiplied by 17’-8” brace height)

Solution 1:
As shown in Chart 1, each Hog Leg® without Kicker is rated at 2400 lb and each Hog Leg® with Kicker is rated at 3400 lb for the 21’-1” Brace Length. In this scenario, one (1) Hog Leg® installed 5’-4” from each end leaving 14’ between braces will be subjected to 900 lb each. Two properly installed Hog Legs® without Kickers will hold in this scenario.

Scenario 2:
A 8” masonry wall of minimum 95 lb/ft³ density grouted on a maximum of 48” centers with a Wall Height of 24’-0” is subject to 60 mph wind:
Install Hog Leg® at 17'-8” per Chart 1
Brace Length to reach this height is 22’-1” (5/4 multiplied by 17’-8” brace height)

Solution 2:
As shown in Chart 1, each Hog Leg® without Kicker is rated at 2400 lb and each Hog Leg® with Kicker is rated at 3400 lb for the 21’-1” Brace Length. In this scenario, one (1) Hog Leg® installed 5’-4” from each end leaving 14’ between braces will be subjected to 2500 lb each. Two properly installed Hog Legs® without Kickers will not hold in this scenario. The wall would require three (3) properly installed Hog Legs® (loading is 1667 lb or 2/3*2500 lb.) without Kickers or two (2) Hog Legs® with Kickers to support this wind load and wall size.

Scenario 3:
A 12” masonry wall of minimum 95 lb/ft³ density grouted on a maximum of 72” centers with a Wall Height of 28’-0” is subject to 40 mph wind:
Install Hog Leg® at 17'-8” per Chart 2
Brace Length to reach this height is 22’-1” (5/4 multiplied by 17’-8” brace height)

Solution 3:
As shown in Chart 2, each Hog Leg® without Kicker is rated at 2400 lb and each Hog Leg® with Kicker is rated at 3200 lb for the 22’-1” Brace Length. In this scenario, one (1) Hog Leg® installed 5’-4” from each end leaving 14’ between braces will be subjected to 500 lb each. Two properly installed Hog Legs® without Kickers will hold in this scenario.

Scenario 4:
A 12” masonry wall of minimum 95 lb/ft³ density grouted on a maximum of 72” centers with a Wall Height of 28’-0” is subject to 60 mph wind:
Install Hog Leg® at 17'-8” per Chart 2
Brace Length to reach this height is 22’-1” (5/4 multiplied by 17’-8” brace height)

Solution 4:
As shown in Chart 2, each Hog Leg® without Kicker is rated at 2400 lb and each Hog Leg® with Kicker is rated at 3200 lb for the 22’-1” Brace Length. In this scenario, one (1) Hog Leg® installed 5’-4” from each end leaving 14’ between braces will be subjected to 4200 lb each. Two properly installed Hog Legs® with Kickers will not hold in this scenario. The wall would require three (3) properly installed Hog Legs® (loading is 2800 lb or 2/3*4200 lb.) with Kickers or two (2) Hog Legs® with Kickers and Guide Wires to support this wind load and wall size.
Chart 3
Hog Leg® Rating vs. Brace Length
(WITHOUT WIND LOAD CONSIDERATION)

<table>
<thead>
<tr>
<th>Brace Height (ft.-in.)</th>
<th>Brace Run (ft.-in.)</th>
<th>Brace Length (ft.-in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7'-8&quot;</td>
<td>5'-9&quot;</td>
<td>9'-7&quot;</td>
</tr>
<tr>
<td>11'-8&quot;</td>
<td>8'-9&quot;</td>
<td>14'-7&quot;</td>
</tr>
<tr>
<td>15'-8&quot;</td>
<td>11'-9&quot;</td>
<td>19'-7&quot;</td>
</tr>
<tr>
<td>19'-8&quot;</td>
<td>14'-9&quot;</td>
<td>24'-7&quot;</td>
</tr>
<tr>
<td>23'-8&quot;</td>
<td>17'-9&quot;</td>
<td>29'-7&quot;</td>
</tr>
<tr>
<td>27'-8&quot;</td>
<td>20'-9&quot;</td>
<td>34'-7&quot;</td>
</tr>
<tr>
<td>31'-8&quot;</td>
<td>23'-9&quot;</td>
<td>39'-7&quot;</td>
</tr>
<tr>
<td>35'-8&quot;</td>
<td>26'-9&quot;</td>
<td>44'-7&quot;</td>
</tr>
<tr>
<td>37'-8&quot;</td>
<td>28'-3&quot;</td>
<td>47'-1&quot;</td>
</tr>
</tbody>
</table>

Note:
1) Brace Length is calculated as 5/4 Brace Height. *Hog Leg® is rated on Brace Length.*
2) Brace Run is calculated as 3/4 Brace Height.
3) *Hog Leg®* without Kicker installation per Drawing 1 located on page 4 of this manual.
4) *Hog Leg®* with Kicker installation per Drawing 2 located on page 5 of this manual.
5) *Hog Leg®* with Kicker and Guide Wire installation per Drawing 4 located on page 12 of this manual.
6) Ratings based on a 1.5:1 Safety Factor.
## Amount of Bracing Required for Your Project

### HL400 Hog Leg® Kit Only

<table>
<thead>
<tr>
<th>Range of Brace Height</th>
<th>Range of Brace Length</th>
<th>Number of 7' Hog Leg® Extensions Used</th>
<th>Number of 14' or 21' Hog Leg® Extensions Used</th>
<th>Number of Braces</th>
<th>Linear Foot Of Wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>5'-10&quot; to 10'-4&quot;</td>
<td>7'-2&quot; to 12'-8&quot;</td>
<td>2</td>
<td>N/A</td>
<td>32</td>
<td>400 ft.</td>
</tr>
<tr>
<td>11'-0&quot; to 15'-4&quot;</td>
<td>13'-6&quot; to 18'-9&quot;</td>
<td>3</td>
<td>N/A</td>
<td>21</td>
<td>250 ft.</td>
</tr>
<tr>
<td>11'-5&quot; to 20'-3&quot;</td>
<td>14'-0&quot; to 24'-9&quot;</td>
<td>4</td>
<td>N/A</td>
<td>16</td>
<td>200 ft.</td>
</tr>
<tr>
<td>16'-5&quot; to 25'-3&quot;</td>
<td>19'-6&quot; to 30'-10&quot;</td>
<td>5</td>
<td>N/A</td>
<td>12</td>
<td>150 ft.</td>
</tr>
</tbody>
</table>

### HL400 Hog Leg® Kit and (1) HL14 Ext. Kit

<table>
<thead>
<tr>
<th>Range of Brace Height</th>
<th>Range of Brace Length</th>
<th>Number of 7' Hog Leg® Extensions Used</th>
<th>Number of 14' Hog Leg® Extensions Used</th>
<th>Number of Braces</th>
<th>Linear Foot Of Wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>11'-11&quot; to 16'-6&quot;</td>
<td>14'-11&quot; to 20'-8&quot;</td>
<td>1</td>
<td>1</td>
<td>32</td>
<td>400 ft.</td>
</tr>
<tr>
<td>12'-4&quot; to 21'-4&quot;</td>
<td>15'-5&quot; to 26'-9&quot;</td>
<td>2</td>
<td>1</td>
<td>32</td>
<td>400 ft.</td>
</tr>
</tbody>
</table>

### HL400 Hog Leg® Kit and (2) HL14 Ext. Kit

<table>
<thead>
<tr>
<th>Range of Brace Height</th>
<th>Range of Brace Length</th>
<th>Number of 7' Hog Leg® Extensions Used</th>
<th>Number of 14' Hog Leg® Extensions Used</th>
<th>Number of Braces</th>
<th>Linear Foot Of Wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>17'-1&quot; to 26'-11&quot;</td>
<td>21'-4&quot; to 33'-8&quot;</td>
<td>1</td>
<td>2</td>
<td>32</td>
<td>400 ft.</td>
</tr>
<tr>
<td>23'-6&quot; to 31'-9&quot;</td>
<td>29'-4&quot; to 39'-9&quot;</td>
<td>2</td>
<td>2</td>
<td>32</td>
<td>400 ft.</td>
</tr>
</tbody>
</table>

1) Linear foot based on two (2) braces every 25'-0" long wall panel according to Standard Practice for Bracing Masonry Walls Under Construction manual.

2) To determine wall height refer to Chart 1 (located on page 2 of this manual) and Chart 2 (located on page 3 of this manual) as well as the latest addition of Standard Practice for Bracing Masonry Walls Under Construction.
Installation of a Hog Leg®

The Hog Leg® Wall Brace System is designed to be constructed in sections starting from the Wall Bracket and working down to the floor anchor. Install each Hog Leg® Extension individually. Do not put Hog Leg® Extensions together before installing to Wall or Floor Bracket.

Wall Bracket Installation (Detail A): The Hog Leg® Wall Connection Bracket is designed to be placed as the wall is constructed.

The following illustration is a guideline for installation of the Hog Leg® Wall Brace.

1) Determine the required bracing as defined by national and local codes. If not familiar with these codes consult a licensed Professional Engineer in your area to interpret the bracing standards and recommend a bracing plan.

2) As the masonry wall is being laid, install the Backing Plate (HL-5) against wall and slide T-bar (HL-6) through the backing plate and the head joint of the block. Then slide the Wall Bracket (HL-24) over the T-bar on the other side as shown in Detail A. Drive the Wedge (HL-7) through the T-bar until it tightens the Backing Plate and Wall Bracket against the sides of the wall. Install the Latch Pin (09-407) through the Wedge as close to the T-bar as possible.

Wall Bracket Installation (Detail A Optional): Though it is recommended for ease of installation to use the Hog Leg® T-Bar and Wedge to install the Wall Bracket to the wall, a ¾” All Thread Rod can be used if desired.

1) Determine the required bracing as defined by national and local codes. If not familiar with these codes consult a licensed Professional Engineer in your area to interpret the bracing standards and recommend a bracing plan.

2) As the masonry wall is being laid, notch the corner of the block were the brace is to be installed to allow clearance to slide the All Thread Rod through.

3) Install the Backing Plate (HL-5) against wall and slide the All Thread Rod (Customer Supplied) through the backing plate and the notched head joint of the block. Then slide the Wall Bracket (HL-24) over the All Thread Rod on the other side as shown in Detail A (Optional). Tighten nuts on both sides of the wall. Nuts should be tightened till the Wall Bracket and the Backing Plate are snug against the wall.

Extension Installation: For ease of installation, install Hog Leg® Extension to Wall Bracket. Then add Hog Leg® Extensions until reaching proper anchor location.

1) Align the holes in the end of the Hog Leg® Extension with the holes in the Wall Bracket and use the Hitch Pin (09-403) and Safety Clip (09-400) to attach as shown in Detail A.
2) Make sure you alternate starting with a Small Hog Leg® Extension (2-3/8” OD) or a Large Hog Leg® Extension (2-7/8” OD) at every other brace. This will keep the amount of Extensions used equal, maximizing the amount of braces you will get from each Hog Leg® Wall Brace Kit.

3) Continue adding Hog Leg® Extensions as shown in Detail B until the desired length is obtained. To locate where to pour the deadman for the base of the Hog Leg®, take the height of the brace installation and multiply by 0.75. **Example:** Brace Height of 16 feet x 0.75 = Brace Run of 12 feet from the wall.

**Bracing Tip:** Keep the actual installation as close to the design guidelines shown in this manual as possible. If the brace is installed at a steeper angle (Floor Bracket closer to the wall) the holding power of the brace will be reduced.

4) Secure the Floor Bracket with anchors that meet all applicable standards and regulations as shown in Detail C.

**Kicker Installation:** For extreme wind speeds (greater than 40 MPH) or requirements that exceed Standard Practice for Bracing Masonry Walls Under Construction a kicker is required, on brace lengths 22’-11” or longer. For Brace Lengths longer than 26’-3” a Kicker is required for all circumstances. For extreme wind speeds (greater than 40 MPH) or requirements that exceed Standard Practice for Bracing Masonry Walls Under Construction a Kicker and Guide Wires are required, on brace lengths 26’-3”. For Brace Lengths longer than 30’-5” a Kicker and Guide Wires are required for all circumstances. The Kicker should be installed at the midpoint of the Hog Leg® Wall Brace. The Kicker then extends downward at a 90° angle from the Hog Leg® Wall Brace and mounts to the wall. To determine wall height to install kicker, refer to page 5 of this manual. For Guide Wire installation, refer to page 12 of this manual.

1) Install the Kicker Adjustment Pipe to the Hog Leg® by inserting the Hitch Pin through the Hog Leg® Extension and insert Safety Clip as shown in Detail D.

2) Add Hog Leg® Extensions as required to reach the Wall Bracket.

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**CAUTION**

Pinch point. Moving parts below. Keep fingers clear of holes.

**Removal of Hog Leg® Bracing**

To comply with Standard Practice for Bracing Masonry Walls Under Construction, the Hog Leg® Bracing System must not be removed until the wall is permanently supported. You may refer to this standard in Chapter 3 Section 3.5 of the Standard Practice for Bracing Masonry Walls Under Construction manual.

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**WARNING!**

Warning: Minimum of 10” of overlap required on Hog Leg® Extension connection.

**DANGER!**

Falling Walls, Braces, or Components can cause severe injury or death.

Moving or relieving this brace may cause serious injury or death. Consult the Structural Engineer before attempting to remove or relieve this brace or any component. Do not remove brace until all structural connections are in place. Refer to Standard Practice for Bracing Masonry Walls Under Construction.
Installation Instructions:
1) Fasten cable to Floor Bracket
2) Thread cable through existing connection hole in Kicker Adjustment Pipe
3) Pull cable tight and tighten Clamp A
4) Tighten Clamp B

Optional Installation

Installation Instructions:
1) Pull cable from first Hog Leg® to next Hog Leg®
2) Place cable in Guide Wire Bracket
3) Swing Clamp Plate over cable
4) Pull cable tight and tighten Clamp Not

Drawing 4: Hog Leg® Wall Brace Installation Typical Brace Spacing and Guide Wire Installation
**HL400 Kit**

Hog Leg® System for 400 ft. of Wall up to a 10'-4" Brace Height

- **HL-24** Wall/Floor Bracket (64 per HL400 Kit)
- **HL-5** Backing Plate (32 per HL400 Kit)
- **HL-6** T-Bar (32 per HL400 Kit)
- **HL-7** Wedge (32 per HL400 Kit)
- **09-407** LATCH PIN (32 per HL400 SYSTEM)
- **09-400** Safety Clip (96 per HL400 Kit)
- **09-403** Hitch Pin (96 per HL400 Kit)
- **HL-1** Small Hog Leg® Extension (32 per HL400 Kit)
- **HL-2** Large Hog Leg® Extension (32 per HL400 Kit)
- **HL RACK** Hog Leg® Storage Rack (1 per HL400 Kit)

Fork Pockets
09-403 Hitch Pin
09-400 Safety Clip
(3 per HL14 Brace)
(96 per HL400 System)
(32 per HL14 Ext. Kit)

HL-6
T-Bar
(1 per HL14 Brace)
(32 per HL400 System)
(0 per HL14 Ext. Kit)

HL-24
Wall/Floor Bracket
(2 per HL14 Brace)
(64 per HL400 System)
(0 per HL14 Ext. Kit)

09-407 Latch Pin
(1 per HL14 Brace)
(32 per HL400 System)
(0 per HL14 Ext. Kit)

HL-32 (Optional)
Extended T-bar (Fits 6", 10", & 14")
(0 per HL14 Brace)
(32 per HL400 System)(Optional)
(0 per HL14 Ext. Kit)

HL-5
Backer Plate
(1 per HL14 Brace)
(32 per HL400 System)
(0 per HL14 Ext. Kit)

HL-7 Wedge
09-407 Latch Pin
(1 per HL14 Brace)
(32 per HL400 System)
(0 per HL14 Ext. Kit)

HL-27
Large 14' Hog Leg® Extension
(16 per HL 14' Ext Kit)

HL-26
Small 14' Hog Leg® Extension
(16 per HL 14' Ext Kit)

09-403 Hitch Pin
(32 per HL 14' Ext Kit)

09-400 Safety Clip
(32 per HL 14' Ext Kit)

HL Ext Rack
Hog Leg® Extension Rack
(1 per HL 14' Ext Kit)

HL 14' Ext Kit
Hog Leg® - 14' Extension Pipe Kit
⚠️ **Warning**

The information supplied with the Hog Leg® Wall Brace System is for reference only and is not to be used as a substitute for the services and judgements of a qualified Engineer or Architect or in place of compliance with applicable local and national standards. Each construction site and each wall panel is unique. Therefore, a competent professional should determine what is adequate bracing for each wall in the project and the requirements to comply with all applicable safety and regulatory standards followed in the construction industry.

### Warranty And Limitation Of Remedy And Liability

(A) EZ GROUT AND THE SELLER WARRANT ONLY THAT THE HOG LEG® BRACES, WHEN SHIPPED AND FOR ONE (1) YEAR THEREAFTER WILL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHP. ALL CLAIMS UNDER THIS WARRANTY MUST BE MADE IN WRITING IMMEDIATELY UPON DISCOVERY BUT NOT LATER THAN ONE (1) YEAR AFTER THE DATE OF SHIPMENT. ANY NONCONFORMING ITEMS MUST BE HELD FOR SELLER’S INSPECTION AND MUST BE RETURNED TO THE ORIGINAL F.O.B. POINT UPON REQUEST BY EZ GROUT OR THE SELLER. THE FOREGOING WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES WHATSOEVER, EXPRESS, IMPLIED AND STATUTORY, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

(B) EZ GROUT AND THE SELLER’S LIABILITY, WHETHER IN CONTRACT OR IN TORT, ARISING OUT OF WARRANTIES, REPRESENTATIONS, INSTRUCTIONS OR DEFECTS FROM ANY CAUSE SHALL BE LIMITED EXCLUSIVELY TO REPAIRING AND REPLACING PARTS UNDER THE CONDITIONS STATED ABOVE, AND IN NO EVENT WILL EZ GROUT OR SELLER BE LIABLE FOR CONSEQUENTIAL DAMAGES.