Prebuck

INSTALLATION INSTRUCTIONS

LINEAL WINDOW & DOOR BUCK

1. PURPOSE

1.1 The purpose of this document is to establish the proper installation instructions for field fabricated and assembled Prebuck Window & Door Buck.

1.2 The assembly and installation techniques involved may require modifications to adjust to jobsite conditions. Prebuck recognizes that site-specific conditions, weather patterns, contractor preferences, and detailing, may require deviation or alteration from these prescribed installation procedures. When such circumstances exist on a project, the local Prebuck/Tremco Sales Representative or Technical Services must be contacted for assitance and approval as required.

2. SCOPE

2.1 This document will provide the necessary instruction for the assembly and installation of 16’ (4.88 m) long, pre-ripped Prebuck Window & Door Buck into an Insulated Concrete Form (ICF) wall.

3. POSSIBLE SYSTEM COMPONENTS

3.1 Prebuck Metal L Angle

3.2 Fasteners

- Wood Screws
- Framing nails
- Roofing nails/staples

3.3 Low-Expansion Spray Foam

3.4 Flashing/Sealants

4. AVAILABILITY

4.1 Prebuck is manufactured to specification in Wyoming, MI and shipped throughout North America. Stocking locations are available in Granby, QC; Coaldale, AB; and Columbus, GA. Contact Prebuck to find a representative near you.

5. HANDLING & STORAGE

5.1 While transporting Prebuck Window & Door Buck, keep the load level and covered with a weatherproof tarp, protecting the edges and ends from damage

5.2 Store the Prebuck Window & Door Buck off the ground under roof, tarp, or wrap, protected from moisture and weather, with proper ventilation

5.3 Store Prebuck Window & Door Buck in a flat orientation properly supported to prevent warping or deformation

5.4 Use proper PPE when handling Prebuck LSL and Prebuck Metal L Angle

6. TOOLS

6.1 The list below is intended to provide the contractor and their workers a guide for what tools are required on most Prebuck Window & Door Buck installations. Although not all will be necessary for every project, the vast majority are essential to achieving an efficient Prebuck installation.

- Tape measure and Marking utensil
- Circular Saw or Sliding miter saw (suggested)
- Table Saw
- Hammer
- Impact Driver
- Square
- Level
- Laser Level (Suggested)
- Tin snips/Angle Grinder
- Foam Dispensing Gun
- Drill with hole saw (4” (102 mm) diameter)

7. PREPARATION

7.1 Determine and record Rough Opening (RO) dimensions for all openings on the project.
- It is recommended to add ¼ (6mm)- ½" (13mm) to the RO to allow for any movement during the pour or product swell that may occur.
- Record these dimensions on your plans as your "Adjusted RO".

7.2 Use the Adjuster RO dimensions to create a cut list for use on-site.
- A pre-planned cut list will aid in reducing unnecessary product waste.

7.3 Establish a cut station
- Set-up a flat, clean working surface for cutting and assembling the required window & door buck.
- The work surface should be at a height comfortable for the carpenter.
- It is recommended that a stationary cut-off saw of proper size is used, see list of suggested tools in section 6.

7.4 Place your stock lengths at a comfortable distance

7.5 Begin by marking the first cut.
- Due to blade widths it is recommended that each cut be marked after the proceeding board is cut.

7.6 Have a second member of your crew begin separating the cut lengths into unit kits (4 pieces that include the top, 2 jambs and a sill).

7.7 On your wall, determine desired sill height location and ensure all sill locations are cut level.

7.8 Install all required sill reinforcment and RPD's (Reinforcment Positioning Device) to support required jamb reinforcment

7.9 Clearly mark the window frame edges on the foam surface. These marks can be to the window side of the frame or concrete side of the frame depending upon the choice of full depth, partial depth, or inset bucking.

8. BUCK ASSEMBLY CONSTRUCTION

8.1 Cut one (1) head piece to the required adjusted RO width adding 3"(76 mm) to allow the head to span over the jamb pieces.

8.2 Cut two (2) jamb pieces to the required adjusted RO height adding 1 ½" (38.1mm) to allow the jamb piece to extend to the bottom of the sill piece.

8.3 Cut one (1) sill piece to the adjusted RO width. This will allow the sill piece to fit between the jamb pieces.

8.4 It is recommeded to clearly label each cut piece for easy identification during buck assembly.

8.5 Drill/Cut porthole openings in the center of the sill piece using a hole saw.
- These portholes will allow proper concrete consolidation at the sill of the openings.
- Quantitiy of the portholes will vary depening on width of the opening.

8.6 Place one (1) jamb piece on edge on the work surface.
- The dovetails shall face the concrete side of the buck assembly.

8.7 Place the head piece on edge at one end of the jamb piece with the dovetails facing the outside of the buck assembly. Align the jamb piece flush with the end of the head piece.

8.8 Secure the head piece to the jamb piece with a minimum of three (3) screws (#10) or nails (16d) equally spaced across the width of the head piece.

8.9 Follow same alignment and fastening procedure in 8.7 – 8.8 for opposite side jamb.

8.10 Position sill plate between the jamb plates and align the bottom (dovetail surface) of the sill plate flush with the bottom of the jamb plates.
- Note: For door buck assembly, a sill piece is not required. Temporary bracing can be installed between the jambs to hold the buck square during installation. Ensure temporary bracing does not impede concrete flow at the door sill.

8.11 Secure the sill plate in location by fastening through the jamb plates with a minimum of three (3) screws (#10) or nails (16d) equally spaced across the width of the sill piece.
- Make sure to securly hold the jamb plates and sill plate flush during fastening.

8.12 Verify unit is square and insert temporay bracing to support the frame while installing into the ICF formwork.

8.13 Complete steps 8.1 – 8.12 for all openings located in the area to be completed in this phase of construction.

8.14 Clean work area by removing all cut off and debris from cut station prior to proceeding with ICF installation.

9. METAL ALIGNMENT SYSTEM

9.1 It is recommended to add the Prebuck Metal L Angle to the edges of the buck.
- The Metal L Angle will help to maintain alignment of the opening with the ICF formwork and will aide in supporting the edge of the foam during concrete placement.

9.2 Cut angle using an angle grinder with a metal cut-off disc, tin snips or other metal cutting device.
- It is recommended the metal is cut to cover the length of the board plus the end face of any adjoining lengths of board. Ex: the Prebuck sill is cut to the adjusted RO and the side jambs attach to the ends of the sill; therefore, the metal L angle should be cut 3" (76 mm) longer than that sill.

9.3 Attach metal using neumatic nailer, neumatic stapler, or predrill and fasten with appropriate length of screw.

10. INSTALLATION PROCEDURE INTO ICF WALL

10.1 Once ICF forms have reached sill height, the Prebuck Window and Door Buck will be installed into the wall.

10.2 Set and level the buck frame.
- Use of a laser level to set the height and to level each opening is recommended.
- Add shims as needed between frame sill and ICF fastening strips.
  - If the Prebuck Metal L Angle was installed, the buck frame can be leveled by anchoring through the metal angle into the ICF fastening strips.

10.3 Allow 1/4" (6mm) – 1/2" (13mm) space around jambs and head when installing subsequent courses of ICF to allow for any final adjustments prior to concrete placement.

10.4 Secure frame with temporary strapping to the ICF fastening strip when the sides are plumb.
- Do this prior to placing an ICF form across the head of the opening.

10.5 Spray foam all gaps around the buck; complete on all surfaces inside and out prior to concrete placement.
- When using the Prebuck Metal L Angle it is suggested to plumb and level the frame after the first full ICF course above the sill is completed. This will allow the installer to foam the gap between the buck and ICF from the cavity side of the wall. Repeat this on each subsequent course, checking the buck for plumb, level and square.

10.6 Prior to the concrete placement, ensure the buck is properly level, plumb, square, and braced internally to support the fluid pressure of the concrete.

10.7 Once sufficient concrete strength in the ICF wall has been achieved, all temporary buck bracing can be removed.

10.8 Prior to the window frame placement, Prebuck Window and Door Buck should be properly flashed and sealed in accordance with local building codes.
- Consult the Prebuck Window and Door Buck Technical Data sheet for a list of compatible sealant, flashing, and weather resistive barrier products.

11. CLEAN UP

11.1 Cut-off scrap to be discarded or recycled per local standards.