

SEALCRAFT

Architectural Window Systems

STANDARD PROCEDURE

No. I-113

Window Installation Instructions
Fixed Window Systems with Receptor Pan

Examined, Accepted and Approved

By: D Ray VanNess

Title: President

Date: May 6, 2008

1.0 INTRODUCTION:

- 1.1 The purpose of this standard procedure is to establish the procedures required for the successful installation of Seal Craft window systems utilizing receptor panning into constructions that incorporate metal or wood framing and various exterior construction elements.
- 1.2 Receptor or pre-set panning is a system that allows for the installation of windows into an opening where certain framing elements need to be covered or panned over in the installation. Panning is an installation system that adds both exterior width and depth to a window. Window installations that incorporate panning will typically require the use of interior trim to finish the interior perimeter of the installation.
- 1.3 The guidelines set forth herein are based on standard industry practices and Seal Craft specific recommendations coupled with our understanding of job site conditions and requirements.
- 1.4 This procedure does not purport to address all of the safety problems that may be associated with its use. It is the responsibility of whoever uses this procedure to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2.0 INSTALLER QUALIFICATIONS AND RESPONSIBILITY:

- 2.1 The window installation subcontractor should be an experienced mechanic in the field with at least five continuous years of successful experience installing similar window systems into projects of similar magnitude and design.
- 2.2 The basic function of the window installation subcontractor is to ensure that all windows are installed per the approved manufacturer's written instructions and job specific Shop Drawings as approved by the Architect or Owner's Representative.
- 2.3 The window installation subcontractor shall be responsible to ensure that all openings are correctly prepared and ready to accept new window units. Any problems found should be reported to the General Contractor or approving authority promptly and the window installation should not be initiated until all opening deficiencies are corrected.
- 2.4 The window installation subcontractor shall then be responsible to ensure that all windows are properly installed, adjusted and ready for use by the Owner, with the exception of final glass washing, which is to be performed by the pre-occupancy clean-up subcontractor.

3.0 RESPONSIBILITIES:

- 3.1 The window installation subcontractor is responsible to gain a full and complete understanding of pertinent information relating to his/her scope of work including but not limited to this document, approved shop drawings and specifications, construction drawings and job site requirements.
- 3.2 The window installation subcontractor is responsible to train his/her workforce in proper material handling, erection and safety procedures including OSHA and Prime Contractor safety requirements.
- 3.3 To ensure that a qualified window installation superintendent is on site during all window installation activities.
- 3.4 To provide all caulk, fasteners, shims, backer rod and machinery etc. and sufficient qualified workmen to perform the installation professionally, safely and on time.
- 3.5 To ensure that all materials are stored and protected prior to installation.

4.0 DUTIES:

- 4.1 The window installation subcontractor shall attend all required job site progress and safety meetings.
- 4.2 Maintain open communication and foster a harmonious relationship with contractor and other related trades.
- 4.3 Receive all window material shipments, verifying quality and quantity and that those products are fit for installation, immediately reporting any deficiencies directly to Seal Craft as well clearly listing any such problems the Bill of Laden.
- 4.4 General Contractor is responsible to ensure that rough openings in new construction are dimensionally accurate, plumb, square and true.

5.0 RECEPTOR PAN ASSEMBLY AND INSTALLATION:

- 5.1 Ensure that all windows are installed in accordance with ASTM E 2112. The following step-by-step instructional procedure is provided for the convenience of the installing subcontractor.
- 5.2 Inspect all openings scheduled for window installation for accuracy of dimension and squareness. All receptor pan systems to be anchored into openings plumb, square and without rack or warp - plan for shims as required.
- 5.3 Receptor pan frames are shipped to the job site K.D. because they cannot be successfully shipped or stored, when assembled, without damage. The assembly of

each pan takes less than five minutes.

- 5.4 Arrange the pan members on a work table with the head, sill and pre-punched jambs oriented per the installation detail.
- 5.5 Install two each #8 x 1" assembly screw (provided) through the pre-punched assembly holes located at each end of the jambs and into the screw port of the head and sill (four corners).
- 5.6 Apply a back seal of the specified sealant to the unexposed (back side) of the pan frame corner connections.
- 5.7 Check the rough opening dimension, width and height, and trim the pan flange as needed prior to installation.
- 5.8 Set the pan in place and install installation fasteners. Fastener types and frequencies shall be according to the project specific engineer stamped fastener calculations. The AAMA 2501-06 Voluntary Guideline for Engineering Analysis of Window and Sliding Glass Door Anchorage Systems is the appropriate standard for fastener calculations. Shim as required.
- 5.9 Install receptor pan clips at head and jambs 4" from the end and minimum 16" on center. Pan clips may be installed in conjunction with installation fasteners as per 5.8 providing the type of screw selected will work with the clip.
- 5.10 Ensure that pan is in place and anchored into openings plumb, square and without rack bow or warp. Shim as required.
- 5.11 Sealants to be as specified by architect or equal and applied around the full exterior and interior perimeter of newly installed windows. Follow sealant manufacturer's application instructions.

6.0 WINDOW INSTALLATION PROCEDURE:

- 6.1 Set window (sill first) from interior into receptor pan sill and rotate the window up into pan frame. The exterior sill leg of the window must overlap the upstanding pan sill leg for proper flashing and drainage of rain water.
- 6.2 Ensure that all pan clips snap lock to window and that the window is properly oriented on the pan frame weatherstrip.
- 6.3 Ensure that window is sitting plumb, square and without rack bow or warp. Shim as required.
- 6.4 Install interior trim clips fastening the clip to the window mainframe perimeter and to the adjacent construction. Fasteners shall be as per 5.8. Shim as required.
- 6.5 Install interior trim covers at head, jamb and sill. Interior trim members to be square cut to a nominal tolerance to provide a finished trim with minimal gaps at corners.

- 6.6 Install three-piece mullions (if required) in accordance with I-50 "Structural Mullion Installation". Ensure that any mullion clip fasteners that penetrate subsills or flashing are fully sealed (around the perimeter of the clip and at the head of the fasteners). Fasteners frequency shall be as per 5.8.
- 6.7 If desired a cap seal may be applied to all window to pan, window to interior trim, interior trim to construction and window to mullion connections.

7.0 ADJUSTMENTS:

- 7.1 Inspect all exposed finished surfaces for scratches, abrasions and dents and correct. Scratches and abrasions should be wet sanded with 400 grit emery cloth, wiped clean and painted with manufacturer provided touch up paint.
- 7.2 Ensure that fixed windows are oriented properly, with head end up and interior side (with glazing beads) in.
- 7.3 Confirm that the glass to frame seal was not broken due to improper handling during installation process.
- 7.4 Remove all labels or stickers from glass surface, DO NOT remove any gold AAMA labels that may have been required.

8.0 INSTALLATION TIPS:

- 8.1 Where fasteners are used at window header locations; if conditions require penetrating steel lenti - ensure that masonry flashing above is not penetrated.
- 8.2 Seal Craft suggests that receptor pan frames be assembled, set and caulked by a two man crew which should be ahead of window installers who set the windows and interior trim.
- 8.3 When applying interior trim covers and mullion covers use a mallet and wooden block to apply pressure at the edge of part for ease of snap and to reduce the occurrence of dents.

9.0 MANUFACTURERS DISCLAIMER:

- 9.1 Seal Craft is a manufacturer of quality commercial window systems and as such is compensated for the delivery of the same, per approved shop drawings, unto the job site. Seal Craft is not compensated for, and therefore assumes no responsibility for, building design, interface of its products with other building elements or any area of accountability other than the manufacture and delivery of quality window systems as required under each contract.

- 9.2 The qualifications and procedures as set forth herein are recommendations of Seal Craft as the manufacturer and are intended as a minimum guideline for the successful installation of its products and must be adhered to in order for the Seal Craft warranty to be in effect.
- 9.3 Upon review of the contract documents, shop drawings and manufacturers installation instructions, final architectural determination should be made as to further requirements for flashing, sealant or any other detail that may need to be added or addressed to ensure proper interface with the new fenestration and the desired performance of the same.
- 9.4 Flashing and/or an appropriate method of sealing shall be designed as part of an overall weather resistant barrier system. It is not the responsibility of Seal Craft to design or recommend a weather resistant barrier system appropriate for each job.
- 9.5 The qualifications and procedures as set forth herein must be reviewed and approved prior to commencement of installation activities by a duly authorized and accountable owners representative or agent.
- 9.6 Seal Craft assumes no responsibility for any liability because of the presence or growth of black mold or any bacteriological growth in any building or structure in which its window systems are installed.
- 9.7 For building construction, which incorporates EIFS; the EIFS Industry Manufacturers Association (EIMA) guidelines must be adhered to in order for Seal Craft's product warranty to be valid.
- 9.8 By stamping and/or signing or by any other means affixing a 'mark' to the submittal booklet that contains these instructions, both architect and contractor demonstrate complete agreement and accept full responsibility for these installation procedures. Further, both architect and contractor agree that the manner in which the windows are installed is beyond the control of the manufacturer and as such, Seal Craft has no responsibility for any liabilities that may arise from the improper installation of its products.
- 9.9 Should field testing be a Project requirement, installing window contractor shall cooperate fully, preparing window unit(s) as requested by the Architect and/or Independent Laboratory personnel, but in no case participate in an unofficial "garden hose tests". Any field testing shall be pursuant with the current AAMA 502 Standard and Seal Craft shall be afforded the opportunity to attend any and all such testing and given a minimum of 15 work days notice in advance of any field testing.