ELEMENT 13 · FIELD DOCUMENTATION

AIRE MEASUREMENT CHECKLIST

V1.0 · ON-SITE INSTALLER USE

One sheet per opening. Complete every applicable section before placing the order. The factory adds tolerances — record the raw opening only.

PROJECT INFORMATION

PROJECT / JOB		DATE	
CUSTOMER		OPENING ID	
INSTALLER		PHONE / EMAIL	

01 MOUNT TYPE

Select one. The rest of the form has sections that apply to your choice.

- ☐ **Inside mount** — system mounts within the existing opening. Default.
- ☐ **3-sided face mount** — mounts to the face of the surrounding wall. Sill adheres directly to the floor.
- ☐ **4-sided face mount** — used when no floor exists for the sill, typically window openings or door openings without a threshold.

02 SPAN CONFIGURATION

Single span maximum 144" wide. For openings over 144", use a dual configuration.

- ☐ **Single** — one cartridge, openings up to 144" wide.
- ☐ **Dual Lateral (DL)** — two cartridges joined at the factory. Pulls from one side.
- ☐ **Dual Central (DC)** — two cartridges, one on each jamb. Pull bars meet and close magnetically at center.

03 OPENING MEASUREMENTS

Measure the raw opening corner-to-corner. The factory adds the ½" cartridge oversize for magnetic closure. Do not add it to your numbers.

Width — measured at three points

LOCATION	INCHES	NOTES
Width at top		
Width at middle		
Width at bottom		

Height — measured at three points

LOCATION	INCHES	NOTES
Height at left jamb		
Height at middle		
Height at right jamb		

If width or height varies by more than ¼" across the three measurements, contact Element 13 before ordering.

04 STACK SIDE & CLEARANCE

When retracted, the pleat stack sits against the base jamb. Stack width grows with screen width — confirm clear space on the chosen base-jamb side for the stack and any nearby trim, hardware, or door swing.

Stack side — base-jamb location

- ☐ Left jamb
- ☐ Right jamb
- ☐ **DC only** — stack sits on both jambs, pull bars meet at center.

Stack-width reference — finished stack on the base-jamb side

SCREEN WIDTH	ST STACK	XL STACK
Up to 4'	4-3/8"	—
5'	4-5/8"	—
6'	4-7/8"	—
7'	5-1/8"	5-1/2"
8'	5-3/8"	6"
9'	5-5/8"	—
10'	—	7"
12'	—	8"
14'	—	9"
16'	—	10"

Any screen taller than 9' using PE mesh adds ½" to the stack widths above. **Face mount adds 10 mm (~3/8") to all stack widths above.**

- [ ] Confirmed clear space on the base-jamb side meets or exceeds the stack width above, plus handle and hardware clearance.
- [ ] Confirmed nothing in the stack zone obstructs the cartridge — door hardware, sidelite mullions, drapery, etc.

05 CARTRIDGE TYPE

Element 13 selects ST or XL based on opening proportions. These rules are here so you can sanity-check your measurements.

TYPE	USE	RULE
ST	Height-dominant openings	Height > (Width - 5")
XL	Width-dominant openings	Max width = (Height × 2) - 16"

Maximum dimensions

Single span: 144" × 120" (W × H)
Dual span: 288" × 120" (W × H)
Screens over 144" wide must use DL or DC.

06 INSIDE-MOUNT CHECKS

Complete this section if inside mount is selected. The opening must meet the minimum system depths below. If it does not, the system must be face-mounted.

Required system depths for inside mount
Jamb: **1-5/8"** minimum · Top track: **1-13/16"** minimum
If the opening does not meet both, face mount on a flat surface around the opening.

- [ ] Jamb depth measured — confirmed at least 1-5/8" (41 mm).
- [ ] Top track depth measured — confirmed at least 1-13/16" (46 mm).
- [ ] All four interior surfaces are flat, solid, and continuous — head, jambs, sill. No gaps or out-of-plane offsets that would prevent the extrusions from sitting flush.
- [ ] No obstructions inside the opening — door stops, weatherstrip, hardware, raised thresholds — that would interfere with the top track, sill, or jamb mounting.
- [ ] Sill or floor at the bottom of the opening is flat and continuous. The sill adheres directly to it.

Notes & photos taken

07 FACE-MOUNT CHECKS

Complete this section if 3-sided or 4-sided face mount is selected. The face-mount frame projects ~2-1/8" (53 mm) from the wall and lands on the wall surface around the opening. Confirm enough flat real estate for it to sit on.

Face-mount frame width & stack math
Each face-mount extrusion sits on the wall at **1-3/16" (30 mm) wide per side**. Face-mount adds **10 mm (~3/8")** to the stack widths in the Section 04 table.

To hide the stack behind the face-mount frame (keep the stack out of the visible opening), the base-jamb-side stack must fit within the 1-3/16" frame face. If the adjusted stack exceeds 1-3/16", the stack will protrude into the opening on the base-jamb side.

- [ ] Wall surface around the opening is flat, continuous, and structurally sound — top and two jambs for 3-sided, all four sides for 4-sided.
- [ ] No trim, casing, hardware, switches, sconces, or other obstructions inside the face-mount frame footprint.
- [ ] Adequate wall clearance past the rough opening on each side for the 1-3/16" face-mount extrusion to land on. Record planned overlap below.
- [ ] Frame projection of ~2-1/8" off the wall is acceptable for the application — door swing, traffic, adjacent walls and corners.
- [ ] Stack-hiding decision recorded — confirm with customer whether the stack will be hidden behind the 1-3/16" frame face or allowed to protrude into the opening.

Wall-overlap plan — record planned overlap onto wall

SIDE	INCHES	NOTES
Top overlap		
Left jamb overlap		
Right jamb overlap		
Bottom overlap (4-sided only)		

4-sided only — bottom mounting surface

- [ ] No floor or threshold available for the sill. This is the trigger for 4-sided.
- [ ] Bottom mounting surface where the bottom extrusion adheres is flat, clean, and structurally sound.

08 FINISH & ORDER DETAILS

Finish

- ☐ Matte black
- ☐ White
- ☐ Custom 2604 paint · code: _____

Options

- ☐ Optional jamb lock
- ☐ Aluminum bottom guide (in lieu of standard)

09 SIGN-OFF

MEASURED BY		SIGNATURE	
DATE		REVIEWED BY	

10 GLOSSARY

Terms used on this checklist. Matches the terminology used on Element 13 documentation and shop drawings.

TERM	DEFINITION
CARTRIDGE	The full pleated screen assembly: top track, sill, jambs, pull bar(s), mesh, and steel band. Manufactured to opening size.
SPAN	How the cartridge covers the opening. Single = one cartridge. DL = two cartridges joined, pulls from one side. DC = two cartridges, pull bars meet at center.
ST CARTRIDGE	Single Tall. Used when the opening is height-dominant: Height > (Width - 5").
XL CARTRIDGE	Extended Lateral. Used when the opening is width-dominant. Max width = (Height × 2) - 16".
TOP TRACK	Horizontal extrusion at the head of the opening. Houses the steel band; pull bar retainer captures the top of the pull bar.
SILL	Horizontal extrusion at the bottom of the opening. The chain links ride within it. On 3-sided face mount and inside mount, the sill adheres directly to the floor.
JAMB	Vertical extrusion on each side of the opening. Houses the magnet strip on one side (magnet jamb) and anchor plates on the other (base jamb).
BASE JAMB	The jamb that holds the cartridge stack when retracted. Anchor plates mount onto its center ridge.
MAGNET JAMB	The jamb the pull bar closes against. Houses the magnet strip in its center ridge. (DC has no magnet jamb — pull bars meet at center.)
PULL BAR	The vertical bar the user grabs and pulls across the opening. Wheel rides the sill; retainer at the top captures it in the top track.
STACK	The pleated mesh, parastrings, band, and chain links bundled against the base jamb when the screen is retracted. Stack width grows with screen width.
ANCHOR PLATES	Small plates that fix the base-jamb end of the cartridge to the jamb. The pull-bar profile or ST bar clips onto them.

INSIDE MOUNT	Cartridge mounts within the existing opening. Requires jamb depth 1-5/8" min and top track depth 1-13/16" min.
FACE MOUNT	Cartridge frame mounts to the face of the surrounding wall. Used when the inside of the opening is too shallow or unsuitable. Frame is 1-3/16" wide per side and adds 10 mm to the stack.
3-SIDED / 4-SIDED	Face-mount variants. 3-sided = top + 2 jambs, sill adheres to the floor. 4-sided = adds a bottom extrusion when no floor exists for the sill (typical for windows).
PARASTRINGS	Polymer cords threaded through the mesh that keep the pleats aligned and tensioned.
STEEL BAND	Spring-steel band running along the top of the mesh. Drives the pleat motion as the screen extends and retracts.
CHAIN LINKS	Plastic links along the bottom of the mesh that ride within the sill and provide structural support.