

## Authorized Dealer Document

### FLEETWOOD's Norwood 3070-CR & Norwood 3070-EX vs. Oceanside Aluminum *Series A*

We invite and encourage careful examination of the data provided herein. We want to be 100% accurate. If any errors are discovered, please forward this information to the Vice President-Sales/Marketing. An immediate investigation will be made to determine its veracity.

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**Key Sightlines**- Most views are enjoyed with doors in a closed position, which leaves the vertical members as the key sightlines. For sliding doors, those extrusions are called interlockers.

#### Norwood "CR"

- The standard interlocker for the Series 3070-CR is thin 2 5/16" detail regardless of door height.
- Head and jambs are different extrusions.
- All horizontal rails for glazed and screen panels align perfectly in the elevation perspective.
- OPTION: The Series 3070-EX offers two interlocker choices: The standard and the HP (High Performance). Both verticals manifest a slender 2 1/8" detail regardless of door height.
- OPTION: Thicker vertical sightlines are possible with "sightline extenders"
- OPTION: Bottom rail height can be customized to any height using aluminum panel and muntin bar.
- The CR and EX come standard with a narrow fixed vertical stile.

#### Oceanside Aluminum Series A

- The Series A offers both interlockers at 2 5/16".
- Uses the same dimension extrusion for the head and jamb, which requires another snap-in filler piece for the jamb. *Fleetwood's individual perimeter frame parts are sized for their intended function, allowing for smaller sightlines. Oceanside Aluminum uses unnecessarily wider jamb sightlines. Further, Fleetwood's top-of-head-to-glass dimension is 2.75". Oceanside Aluminum's top-of-head-to-glass dimension is 3.15"*
- The screen door horizontal rails are 1 1/2" smaller and are palpable in the elevation perspective.
- Shares the fixed stile with the lead stile extrusion. *Fleetwood offers a back-of-fixed-jamb-to-glass dimension of 1.813". Oceanside Aluminum does not offer a smaller fixed stile so their back-of-fixed-jamb-to-glass dimension is 4.49"*

**Hardware Quality**- Handles, locking mechanisms, strike plates, rollers and sash balances are components often overlooked when making final decisions. We believe these "little things" are critical. If your product does not operate efficiently for many years it might as well be a fixed window.

#### Norwood "CR"

- **Archetype Hardware:**
  - 100% stainless steel
  - USA manufactured
  - Easy 1/4 turn, flush actuator
    - OPTION: Factory black painted.
    - OPTION: Field painted to match custom frame color
  - Lock/Unlock indicator
  - Patent Pending

- Ergonomic Flush Pull
- Flush Keyed Lock (optional)
- Huge laminated hook(s)
  - OPTION: Double Hook Latch (3070-EX and 3050 door only)
- Stainless steel strike plate:
  - Attached INTO the jamb, not screwed to the jamb face
  - Robust back plate for added security
  - Stainless steel dust box to hide the wall
  - The plate has over 1" of adjustment.
- Stainless steel Mammoth rollers
  - Authentic precision bearings manufactured in Switzerland
  - Doors operate MUCH better than cheap bearing imitators
  - Two wheels in each roller assembly
  - Each wheel is 3" in diameter
  - Each roller assembly is easily adjusted with a Phillips head screwdriver
- Stainless steel edge pull
  - Standard on all pocket doors
  - Capable of pulling thousands of pounds
  - Ergonomic pull design
  - Tension spring to avoid 'clanking'
- Stainless steel assembly screws
  - Allows for long-term efficiency in coastal applications.
  - Most manufacturers choose non stainless because the magnetic nature allows easier assembly.
- Stainless steel installation screws
  - Allows for long-term efficiency in coastal applications.
  - Most manufacturers choose non stainless because it is MUCH cheaper.
- Stainless steel track insert
  - Creates ideal conditions of roller and track relationship
  - Provides homeowners assurance of long-term performance

#### Oceanside Aluminum Series A

- The Series A comes standard with zinc die cast hardware and small stainless steel latch. *Projects that are near salt water should expect to replace this hardware within months, or perhaps weeks. Fleetwood has had four decades of experience with this 'industry' hardware*
  - The jamb requires a snap in extrusion that that the strike plate as affixed. *The entire security of the door rests on the installer remembering to attach additional screws through this snap-in piece. ALSO, the penetration of the lead vertical into the jamb is not enough. After latching the door, it might be possible to actually move the panel enough to see daylight while LOCKED IN PLACE!*
- The latch strike plate is constructed of painted steel. *Fleetwood's Archetype II Multipoint Latch and Flush Pull has no equal. It is crafted of all stainless steel and is only available on Fleetwood doors. Oceanside Aluminum offers common commercial sliding door hardware—single point latching, inferior ergonomics, stodgy design and corrosion prone zinc alloy.*
  - Plate is surface mounted to a snap-in extrusion. Security test not published. *Compare to Fleetwood and you will once again see our devotion to longevity and detail.*
  - The standard tandem rollers are 3" diameter wheels and equipped with bearings produced in China. *Fleetwood's 3" diameter stainless Precision Mammoth roller was the industry's first—and is still the best. Fleetwood utilizes a Swiss Precision Bearing for the absolute lightest rolling resistance. Oceanside Aluminum's 3" roller uses standard bearings for average performance.*
- The standard rollers for the smaller frame screen panels are of a smaller size and produced in China.
- Pocket doors come standard with a common hardware store edge pull with unknown strength. *Fleetwood's Pocket Door Edge-Pull is robust and crafted of stainless steel and mortised flush into the stile. Oceanside Aluminum offers common residential type edge pulls.*

**Fit & Finish Aspects**- Doors are best enjoyed when looked through, not at and we believe they ought to fit into the architectural landscape rather than draw attention.

#### Norwood "CR"

- Frame:
  - The frame weather-stripping, commonly called 'mohair', is large enough to perform its intended function but small enough to meld into the door system. It is clean and subtle.
  - The standard extrusion height is a slim  $\frac{3}{4}$ " tall. Tall sill pans can be customized to fit the performance needs of the project.
  - Each frame section is 1 15/16" deep, making a three panel easily fit 2 x 6 construction (5  $\frac{3}{4}$ " )
  - Stock single, double and triple extrusions, which limits seams on deep frames.
  - Sill cavities are covered with extruded aluminum snap-in covers to repel water and debris.
  - Jambs are provided with extruded aluminum snap-in covers to hide the frame fasteners and remove the shadow of the jamb cavity.
  - Head tracks are provided with extruded aluminum snap-in closers if end panels are meant to remain fixed.
  - Pocket interlocker is a two-piece system that allows easy removal without affecting the wall construction.
  - Pocket closers for pocket doors.
- Panel:
  - Both bottom rail legs dive into specially designed sill slots. This creates exceptional performance against the elements.
  - The base of each vertical is artfully fabricated around the legs that dive into the sill, creating a clean union that does not draw attention.
  - Dark bronze anodized spacers for insulated glass cut down glare.
  - Vinyl glazing provides a clean glass/vinyl/metal junction.
  - The fixed panels are secured with a hidden sill block, exclusive to Fleetwood doors.
  - Each panel part is a single extrusion so there are no glass stop seams.
- Track:
  - Stainless steel insert gives perfect convex/concave relationship with roller wheels
  - Raised stainless steel inserts provide raised surface that protect aluminum sill parts from damage.

#### Oceanside Aluminum Series A

- Frame:
  - Each frame section is 2 5/16" deep, making a three panel frame almost 9" overall. *This requires special framing which might affect the design of the room.*
  - Stock single and double extrusions only. Joining creates more seams. *Fleetwood provides perimeter frame extrusions in 1, 2 or 3 track configurations to minimize the number of frame sections that must be joined. Oceanside Aluminum offers only 1 and 2 track configuration extrusions; the result is more frame joints*
  - Sill cavities are open. *Projects near the desert or the ocean will find these cavities as collection troughs for sand and other debris.*
  - Jamb cavities are closed.
  - Head cavities are closed.
  - Pocket interlocker is a single bulky shape. Removal will affect the wall construction. *Fleetwood's Pocket Doors can easily be removed from the pocket for service or adjustment without disturbing wall finishes. Oceanside Aluminum's pocket door requires an unsightly removable metal post adjacent to the door to allow service. This removable post may compromise security*
  - Pocket closers for pocket doors are provided.
- Panel:
  - Silver spacers for insulated cause glare.
  - China factory wet glazing provides large, unattractive glass/vinyl/metal junction.
  - The fixed panels are secured with exposed fasteners. Security might be an issue.
  - Each panel part is a single extrusion so there are no glass stops.
- Track:

- Aluminum track with stainless steel cover is short lived. *Fleetwood's Stainless-Steel Track Insert stands proud over the aluminum sill to protect the finish from wear. This Track Insert is easily replaced if damaged without disturbing the sill. Oceanside Aluminum's track is aluminum, integral with the sill, with just a stainless cap. Caps come off, and if the track is damaged the sill must be replaced.*
- Sill does not provide inherent protection against foot traffic etc.

**Energy-** For the purposes of this comparison we consider heat/cold transfer (u-value) and direct sun heat (short wave radiation) as the key factors in determining the energy benefits.

#### Norwood "CR"

- Thermally broken panel extrusions = good NFRC u-value ratings
- Non-Thermally perimeter frame extrusions = moderate NFRC u-value ratings
- Thermally broken panel extrusions = good condensation resistance (frost climates)
- Thermally broken panel extrusions = excellent resistance to radiant heat (sunbelt climates)
- Wedge interlocker design for better air infiltration resistance.

#### Oceanside Aluminum Series A

- Non-Thermally broken vent & frame extrusions = NO NFRC u-value ratings. *This should give justifiable pause to anyone considering this product for real energy benefits.*
- Non-Thermally broken vent & frame extrusions = NO rated condensation resistance (frost climates). *This should give justifiable pause to anyone considering this product for real energy benefits.*
- Non-Thermally broken vent & frame extrusions = NO rated resistance to radiant heat (Sunbelt climates). *This should give justifiable pause to anyone considering this product for real energy benefits. There is no question that thermal break costs more to produce and therefore places Fleetwood's "CR" at a higher cost. If energy and comfort can be compromised we recommend the 3070-EX which is still a superior product than the Series A but less expensive than the "CR".*

**Green & Sustainable-** Without question, the Norwood 3070-CR is THE greenest and most sustainable multi-slide/pocket door in the United States.

#### Norwood "CR"

- Thermally broken panels offer ultimate energy efficiency in an aluminum multi-slide/pocket door.
- The steadiness of aluminum during temperature changes reduces energy consumption.
- 1" Insulated glass with many high performance glass options.
- Constructed with naturally abundant aluminum bauxite (8% of the earth's crust).
- Manufactured with high recycled content of post consumer aluminum (40%-50%) and glass (varying %).
- 100% of the aluminum remnants are recycled.
- Long life cycle because of the enduring nature of aluminum, leaving a small footprint.
- Lifetime finish if maintained.
- Factory baked finishes = No VOCs.

#### Oceanside Aluminum Series A

- The Series A does NOT have thermally broken panel parts. *This equates to more than 90% of the entire opening being less energy efficient. In the Sunbelt states, hot days = hot doors. In the Norwood "CR" the thermal break 'breaks' the transference of that heat so you do not burn your hand touching the inside of your door. FACT- it is easier and cheaper to avoid thermal break BUT it is the more responsible product!*

**Strength & Sizes-** The size capabilities determine inherent strength.

### Norwood "CR"

- The energy benefits of the "CR", e.g. the thermal break material, limits the panel widths to 5' and the height to 10'. In some cases, Fleetwood has manufactured the "CR" wider or taller. Consult with the factory.
- OPTION: The 3070-EX is capable of huge sizes. Panels 10' wide or 15' tall are easily accomplished. Glass limitations of specified glass typically restrict the "EX" but if the project specifications are flexible and/or a TDL can be used, both can be met.
- The standard lock stile extrusion (houses the latch and handle) is rigid during operation, even at large heights.

### Oceanside Aluminum Series A

- The Series A offers comparable sizes to the "CR". *Because of the new nature of this product there are not many examples of the product enduring. In contrast, Fleetwood has a 48 year reputation for excellent products in exceptional sizes. Many are concerned about the integrity of the bearings since they are made in China. In contrast, Fleetwood has a Swiss partner that specializes in precision bearings and ONLY such bearings are provided in the Mammoth roller. Furthermore, our partner hones our wheel to be even more precise in its relationship with the stainless steel track insert.*
- The weaker screen frame might limit screen door sizes. *This is a deal breaker for many. Be sure and see an example of how it looks in the field.*

**Performance Capabilities**- The reality of sliding doors is that they must defend against destructive agents such as rain and high winds.

### Norwood "CR"

- The "CR" can be made to resist structural winds that exceed 130 mph.
- The "CR" can be made to handle rain equal to the pressures of a 40-story building.
- OPTION: The Series 3070-EX can be made to resist structural winds that exceed 250 mph and handle rain equal to the pressures of a 40-story building.

### Oceanside Aluminum Series A

- The Series A can be made to resist structural winds similar to the "CR". *Because the extrusions are made in China there is no third party verification of the integrity. Fleetwood is policed by AAMA to ensure product integrity.*
- The Series A is limited in water performance. Their literature only touts pressures up to the fourth floor (R20).

**Installation & Maintenance**- Effective product design should include installation assistance and convenient maintenance.

### Norwood "CR"

- Installation and assembly screws are stainless steel.
- Vinyl glazing allows simple glass replacement.
- The perimeter frame is block and therefore requires professional installation using backer rod and a compatible sealant.
- Every "CR" is shipped with detailed Installation Instructions. Copies are printable from the website.
- The "CR" offers detailed Care & Maintenance Instructions to ensure a long life.

### Oceanside Aluminum Series A

- Installation and assembly screws are steel or other highly corrodible metals. *If the project is near the coast, maintaining the Series A will be a challenge. Changing a simple latch becomes a MAJOR ordeal when attachment screws break.*
- China factory wet glazing requires a whole new panel if glass needs replacing. *This company does not have deep roots in America and one should consider the probability that they might not be in the USA in the future.*
- The perimeter frame is block and therefore requires professional installation using backer rod and a compatible sealant.
- The Series A is not offered with installation instructions.

**Experience & Commitment to Quality**- These are two areas which are often overlooked when deciding upon a window or door product.

#### Fleetwood

- Making aluminum sliding doors since 1962.
- Market focus = high end luxury homes
- Products produced in one 207,000 square foot building in California.
- Limited Lifetime Warranty on all products.
- Standard custom paint is 70% Kynar.
- Standard bronze anodize is Class I (twice as thick as Class II)
- OPTION: 10 year finish warranty.

#### Oceanside Aluminum

- Opened doors in 2008 and is associated with Luxury Windows and Doors.
- Market focus = offering a Chinese version of successful USA door & window products.
- Products produced in China.
- No published warranty. *"Made In China" is not your assurance of quality.*
- Standard paint and anodizing are unverifiable because of Chinese quality. *Fleetwood offers 'Edge Armor' finishing in 70% Kynar with a 10-year finish warranty. Oceanside Aluminum does not.*

**Editors Note:** Other products in the industry, such as NanaWall bi-fold systems or lift and slide systems, are being considered for the same applications as the products being compared above. In most cases however, the NanaWall bi-folding system is rejected because customers realize that most of the time the NanaWall bi-fold system will be closed restricting your view. The NanaWall bi-fold vertical sight-lines on this system are offensive to seekers of narrow sight-lines and these same customers quickly switch to the Norwood Series family of multi-slide doors. The same issue pertains to lift and slide products. Perhaps the greatest disincentive to that product style is how burdensome the handle is during operation. For side-by-side comparisons [\*\*Bi-Fold Systems and Lift and Slide Doors.\*\*](#)