

# Kawneer Product Approvals



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| PRODUCT CATEGORY | PRODUCT SERIES                   | MISSILE RATING | DESCRIPTION                                         | KAWNEER TEST REPORT #            | FLORIDA PRODUCT APPROVAL # | TEXAS TDI # | DESIGN PRESSURE        | GLAZING          | DRY/WET GLAZING | NOTES               |
|------------------|----------------------------------|----------------|-----------------------------------------------------|----------------------------------|----------------------------|-------------|------------------------|------------------|-----------------|---------------------|
| Curtain Walls    | 1600 System 1                    | LMI, SMI       | 10 13/16" 1600 System 1 Curtain Wall System         | 852, 1164, 2021, 1931,1962, 2660 | 5388.1                     | CWSF-72     | Varies                 | Varies           | Wet, Dry, Tape  | Zone 4, Level A & D |
| Curtain Walls    | 1600 System 1 and System 2       | LMI, SMI       | 7 13/16" 1600 System 1 Curtain Wall System          | 1164, 1082A, 2380A               | 5388.2                     | CWSF-72     | Varies                 | Varies           | Wet, Dry        | Zone 4, Level A & D |
| Curtain Walls    | 1600 System 1                    | LMI            | 1600 System 1 Curtain Wall System, 3" Sightline     | 2747, 2748                       | 11488.1                    | CWSF-72     | +100 / -123, +90 / -90 | 5/8"             | Wet             | Zone 4, Level E     |
| Curtain Walls    | 1600 System 1                    | LMI            | 1600 System 1 Curtain Wall System, 2-1/2" Sightline | 2747, 2748                       | 11488.2                    | CWSF-72     | +100 / -123, +90 / -90 | 1 5/16"          | Wet             | Zone 4, Level E     |
| Curtain Walls    | 1600 System 1 and System 2       | Non-Impact     | 1600 System 1 Curtain Wall System                   | 1437                             | 11490.1                    | N/A         | ± 90                   | 1/4" (T), 1" (T) | Dry             | Non-HVHZ            |
| Curtain Walls    | 1600 System 1 and System 2       | Non-Impact     | 1600 System 2 Curtain Wall System                   | 1436                             | 11490.2                    | N/A         | ± 50                   | 1/4" (T), 1" (T) | Dry             | Non-HVHZ            |
| Curtain Walls    | 1600 System 1                    | LMI            | 1600 System 1 Curtain Wall System                   | 2747, 2748, 2749                 | 29202.1                    | N/A         | ± 70, ± 90             | 1 5/16"          | Wet             | Zone 4, Level E     |
| Curtain Walls    | 1600 System 1 (Large glass size) | LMI            | 1600 System 1 Curtain Wall System                   | 2751                             | 29202.2                    | N/A         | ± 50                   | 1 5/16"          | Dry             | Zone 4, Level D     |

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| Curtain Walls    | 1600 System 5       | Non-Impact     | Aluminum Curtain Wall System              | 1433                  | 11492.1                    | N/A         | ± 90            | 1/4" (T), 1" (T) | Dry             | Non-HVHZ               |
| Curtain Walls    | 1600 UT             | Non-Impact     | Aluminum Curtain Wall System              | 2019, 1801            | 16564.1                    | N/A         | ± 40            | 1"               | Dry             | Non-HVHZ               |
| Curtain Walls    | 1600 System SS      | Non-Impact     | Aluminum Curtain Wall System              | 1434                  | 10285.1                    | N/A         | ± 90            | 1/4" (T), 1" (T) | Dry             | Non-HVHZ               |
| Curtain Walls    | 1620/1620 SS System | Non-Impact     | 1620/1620 SS Aluminum Curtain Wall System | 2147                  | 17083.1                    | N/A         | ± 60.4          | 1/4" (T), 1" (T) | Dry             | Non-HVHZ               |
| Curtain Walls    | 1630 SS IR          | LMI            | 1630 SS IR Curtain Wall System            | 2051-2063, 2643       | 16369.1                    | CWSF-76     | Varies          | 1 5/16"          | Wet, Dry        | Zone 4, Level A, D & E |
| Curtain Walls    | 1630 SS IR          | LMI            | 7 13/16" 1630 SS IR Curtain Wall System   | 2053, 2054, 2057      | 16369.2                    | CWSF-76     | ± 70            | 1 5/16"          | Wet, Dry        | Zone 3, Level A & D    |
| Curtain Walls    | 2250 IG             | Non-Impact     | Aluminum Curtain Wall System              | None                  | 9924.1                     | N/A         | ± 90            | 1/4" (T), 1" (T) | Dry             | Non-HVHZ               |
| Curtain Walls    | 2500 PG             | LMI            | 2500 PG Curtain Wall                      | 2284                  | 17577.1                    | N/A         | ± 50            | 1"               | Spacer tape/Wet | Zone 3, Level D        |

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|------------------|----------------|----------------|----------------------------------------------------------------------------------|------------------------------------|----------------------------|-------------|-----------------|-------------|-----------------|---------------------|
| Curtain Walls    | 2500 UT        | Non-Impact     | Aluminum Unitized Curtain Wall                                                   | 2344                               | 20394.1                    | N/A         | ± 45            | 1", 1 3/4"  | Wet             | Non-HVHZ            |
| Curtain Walls    | Clearwall      | Non-Impact     | Aluminum Curtain Wall System                                                     | 1676, 1701                         | 16576.1                    | N/A         | ± 40            | 1", 1 1/8"  | Dry, Wet, Tape  | Non-HVHZ            |
| Curtain Walls    | Clearwall      | SMI / LMI      | Aluminum Curtain Wall System                                                     | 2618, 2619, 2620, 2621, 2622, 2750 | 29109.1                    | CWSF-73     | ± 50            | 1"          | Wet, Tape       | Zone 3, Level A & D |
| Curtain Walls    | FG 623         | LMI            | Glazed Ribbon Window System (2-Bay max)                                          | 1582                               | 10845.1                    | N/A         | +50 / -70       | 5/8", 9/16" | Wet             | Zone 4, Level D     |
| Curtain Walls    | FG 623         | SMI            | Glazed Ribbon Window System (2-Bay)                                              | 1581                               | 10845.2                    | N/A         | +70 / -90, ± 70 | 9/16"       | Wet, Dry        | Zone 4, Level A     |
| Storefronts      | Trifab 450     | Non-Impact     | Trifab 450 Storefront with 190 & 350 Entrance Door (Shutter Application)         | 1157                               | 7237.1                     | N/A         | Varies          | 1/4"        | Dry             | Non-Impact          |
| Storefronts      | Trifab 451     | Non-Impact     | Trifab 451T Storefront System with 190 & 350 Entrance Door (Shutter Application) | 1157                               | 7237.2                     | N/A         | Varies          | 1/4"        | Dry             | Non-Impact          |
| Storefronts      | Trifab 451UT   | Non-Impact     | Trifab 451UT Storefront System (Pre-glaze Center Set)                            | 2893-2897                          | 10008.1                    | N/A         | Varies          | 1"          | Dry             | Non-Impact          |

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|------------------|-------------------|----------------|-------------------------------------------------------|------------------------------------------|----------------------------|-------------|-----------------|---------|-----------------|---------------------|
| Storefronts      | Trifab 451UT      | Non-Impact     | Trifab 451UT Storefront System (Tall Sill Center Set) | 2886-2891                                | 10008.2                    | N/A         | Varies          | 1"      | Dry             | Non-Impact          |
| Storefronts      | Trifab 451T       | Non-Impact     | Trifab 451T Back Set Storefront System                | 2280                                     | 37876.1                    | N/A         | Varies          | 1"      | Dry             | Non-Impact          |
| Storefronts      | Trifab 451T       | Non-Impact     | Trifab 451T Center Set with HP Sill Storefront System | 2281, 2282                               | 37876.2                    | N/A         | Varies          | 1"      | Dry             | Non-Impact          |
| Storefronts      | Trifab 451T       | Non-Impact     | Trifab 451T Front Set Storefront System               | 2283                                     | 37876.3                    | N/A         | Varies          | 1"      | Dry             | Non-Impact          |
| Storefronts      | Trifab 451T       | Non-Impact     | Trifab 451T Center Set                                | 1386, 1387                               | 32590.1                    | N/A         | ± 30, ± 35      | 1"      | Dry             | Non-Impact          |
| Storefronts      | Trifab 451/451T   | LMI            | Aluminum Storefront                                   | 1733                                     | 14287.1                    | CWSF-74     | ± 45            | 1"      | Dry             | Zone 3, Level D     |
| Storefronts      | IR 521/521T/521UT | LMI            | Aluminum Storefront                                   | 3278, 3279, 3280, 3287, 3288, 3289, 3290 | 47012                      | N/A         | ± 70            | 1-5/16" | Wet, Dry        | Zone 4, Level D & E |
| Storefronts      | Trifab 601T       | LMI            | Trifab 601T Storefront                                | 2202, 2203, 2204                         | 16517.1                    | CWSF-75     | ± 45            | 1"      | Dry, Tape       | Zone 3, Level D     |

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|------------------|----------------|----------------|-------------------------------------------------------|------------------------------------------------------|----------------------------|-------------|-----------------|---------|-----------------|-----------------|
| Storefronts      | IR 500         | LMI            | Aluminum Storefront System                            | 1478, 1480, 1481, 1482, 1483, 1898                   | 8787.1                     | CWSF-68     | ± 65, ± 90      | 9/16"   | Wet, Dry        | Zone 4, Level D |
| Storefronts      | IR 501         | LMI            | Aluminum Storefront System                            | 1384, 1477, 1479                                     | 8787.2                     | CWSF-32     | ± 70            | 1 5/16" | Wet, Dry        | Zone 4, Level D |
| Storefronts      | IR 501         | SMI            | Aluminum Storefront System                            | 1504                                                 | 8787.2                     | CWSF-32     | ± 70            | 1 5/16" | Wet, Dry        | Zone 4, Level A |
| Storefronts      | IR 501T/501UT  | LMI            | IR 501T/UT Framing with GLASSvent Project out Windows | 1792, 1793, 1794, 1796, 1797, 1795, 1798, 1934, 1935 | 15404.1                    | CWSF-33     | ± 70            | 1 5/16" | Wet             | Zone 4, Level D |
| Storefronts      | IR 501T/501UT  | LMI            | IR 501T/UT Framing with GLASSvent Project out Windows | 1792, 1793, 1794, 1796, 1797, 1795, 1798, 1934, 1935 | 15404.2                    | CWSF-33     | ± 70            | 1 5/16" | Dry             | Zone 4, Level D |
| Storefronts      | IR 501T/501UT  | SMI            | IR 501T/UT Framing with GLASSvent Project out Windows | 1799, 1800                                           | 15404.3                    | CWSF-33     | ± 70            | 1 5/16" | Dry             | Zone 4, Level A |
| Storefronts      | IR 501T/501UT  | LMI            | IR 501T/UT Framing                                    | 2909, 2910, 2911                                     | 15404.4                    | CWSF-33     | Varies          | 1 1/4"  | Wet             | Zone 4, Level E |
| Storefronts      | IR 631         | LMI            | Aluminum Storefront System                            | 1298                                                 | 7359.1                     | N/A         | ± 95            | 1 5/16" | Wet             | Zone 4, Level D |

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|------------------|---------------------------------------|----------------|----------------------------------------------------------|-----------------------|----------------------------|-------------|-----------------|-----------|-----------------|---------------------|
| Storefronts      | IR 631                                | SMI            | Aluminum Storefront System                               | 1169                  | 7359.2                     | N/A         | Varies          | 1 5/16"   | Wet, Dry        | Zone 4, Level A     |
| Door - Sliding   | AA3200 IR                             | SMI / LMI      | Sliding Glass High Pressure Doors                        | 1703-1716             | 14159.1                    | DR-1190     | ± 135           | 1 5/16"   | Wet, Dry        | Zone 4, Level A & D |
| Door - Sliding   | AA3200 IR                             | SMI / LMI      | Sliding Glass Medium Pressure Doors                      | 1703-1716             | 14159.2                    | DR-1190     | ± 90            | 1 5/16"   | Wet, Dry        | Zone 4, Level A & D |
| Door - Sliding   | AA3200 IR                             | SMI / LMI      | Sliding Glass Low Pressure Doors                         | 1703-1716             | 14159.3                    | DR-1190     | ± 70            | 1 5/16"   | Wet, Dry        | Zone 4, Level A & D |
| Door - Sliding   | Traco SGD948                          | LMI            | Aluminum Sliding Glass Door                              |                       | 16001.1                    | N/A         | ± 60            | 7/8"      | Wet             |                     |
| Doors - Swinging | 190 / 350 / 500 Doors with Trifab 450 | Non-Impact     | 190, 350, & 500 Entrance Door with Trifab 450 Storefront |                       | 10388.1                    | N/A         | ± 30            | 1/4"      | Dry             | Non-HVHZ            |
| Doors - Swinging | AA250/425                             | LMI            | AA250/425 Thermal Door                                   | 2202, 2203, 2204      | 34895.1                    | N/A         | ± 45, ± 50      | Varies    | Dry, Tape       | Zone 3, Level D     |
| Doors - Swinging | 350/500 HW                            | LMI            | IR 350/500 HW Outswing Doors                             | 1932, 2753, 2754      | 15850.1                    | DR-1197     | Varies          | 9/16", 1" | Wet & Tape      | Zone 4, Level E     |

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|------------------|-----------------|----------------|----------------------------------------------------|------------------------|----------------------------|-------------|-----------------|-----------|-----------------|----------------------------|
| Doors - Swinging | 350 HW          | SMI / LMI      | 350HW Outswing Storefront Doors (Wet &Tape Glazed) | 1931, 1933, 1962       | 15850.2                    | DR-1197     | ± 50            | 9/16", 1" | Wet & Tape      | Zone 3, Level D            |
| Doors - Swinging | 350 IR / 350 HW | Non-Impact     | Auto Showroom Outswing Bi-Fold Door                | 2198, 2199, 2200       | 16715.1                    | N/A         | ± 70            | 1/4", 1"  | Dry             | Non-HVHZ                   |
| Doors - Swinging | 350 IR / 350 HW | LMI            | Auto Showroom Outswing Bi-Fold Door                |                        | 17819.1                    | DR-1223     | ± 70            | 1"        | Tape            | Zone 4, Level D            |
| Doors - Swinging | 350 IR          | LMI            | 350IR 8' Outswing Storefront Doors (Wet Glazed)    | 1105                   | 8786.1                     | DR-518      | Varies          | 9/16", 1" | Wet             | Zone 4, Level D            |
| Doors - Swinging | 350 IR          | LMI            | 350IR 9' Aluminum Outswing Storefront Doors        | 1791                   | 8786.2                     | DR-1196     | ± 65            | 9/16"     | Wet             | Zone 4, Level D            |
| Doors - Swinging | 350 IR          | LMI            | 350IR 8' Outswing Storefront Doors (Dry Glazed)    | 1791                   | 8786.3                     | DR-518      | Varies          | 9/16", 1" | Dry             | Zone 4, Level D            |
| Doors - Swinging | 350 IR / 500 IR | LMI            | 350IR Outswing Storefront Doors (Dry Glazed)       | 2386, 2387, 3045, 3046 | 17053.1                    | DR-834      | Varies          | 9/16", 1" | Dry             | Zone 3, Level D, Rim Panic |
| Doors - Swinging | 500             | Non-Impact     | 500 Non-impact Door in Trifab 400                  | 1930                   | 15194.1                    | N/A         | + 45 / -50      | 1/4"      | Dry             | Non-HVHZ                   |

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|--------------------|----------------|----------------|--------------------------------------------|------------------------|----------------------------|-------------|-----------------|------------|-----------------|---------------------|
| Doors - Swinging   | 2000T          | SMI / LMI      | 2000T Outswing Terrace Door                | 1699, 1700, 1717-1728  | 13482.1                    | DR-1193     | ± 70, 90        | 1"         | Wet, Dry        | Zone 4, Level A & D |
| Doors - Swinging   | 2000T          | SMI / LMI      | 2000T Inswing Terrace Door                 | 1699, 1700             | 13482.2                    | DR-1193     | ± 70, 90        | 1"         | Wet, Dry        | Zone 4, Level A & D |
| Doors - Swinging   | Flushline      | SMI / LMI      | Flushline Impact Door in IR 501 Frame      | 2419                   | 20102.1                    | DR-1199     | Varies          | 1"         | Wet             | Zone 4, Level A & D |
| Doors - Swinging   | Flushline      | SMI / LMI      | Flushline Impact Door in Trifab 451T Frame | 2419                   | 20102.2                    | DR-1199     | Varies          | 1"         | Wet             | Zone 4, Level A & D |
| Doors - Swinging   | 350T           | LMI            | Insulpour 350T Thermal Entrance            | 2611                   | 28914.1                    | DR-1233     | ± 70            | 1"         | Wet, Tape       | Zone 4, Level D     |
| Doors - Swinging   | 500T           | LMI            | Insulpour 500T Thermal Entrance            | 2611                   | 28914.2                    | DR-1232     | ± 70            | 1"         | Wet, Tape       | Zone 4, Level D     |
| Window - Projected | GLASSvent UT   | SMI / LMI      | Project-Out Window                         | 2252, 2253, 2254, 2254 | 20501.1                    | WIN-2642    | Varies          | 1", 1 3/4" | Wet             | Zone 4, Level A & D |
| Window - Projected | GLASSvent UT   | SMI / LMI      | Casement Outswing Window                   | 2252, 2253, 2254, 2255 | 20500.1                    | WIN-2643    | ± 90            | 1", 1 3/4" | Wet             | Zone 4, Level A & D |

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|--------------------|----------------|----------------|----------------------------------------------------|-----------------------|----------------------------|-------------------------|-----------------|------------|-----------------|--------------------------|
| Window - Fixed     | AA4325         | SMI / LMI      | Fixed Window                                       | 2160 - 2179           | 16792.1                    | N/A                     | ± 80            | 1", 1 3/4" | Wet, Dry        | Zone 4, Level A & D      |
| Window - Projected | AA4325         | SMI / LMI      | Project-Out Window                                 | 2160 - 2179           | 16793.1                    | N/A                     | ± 80            | 1", 1 3/4" | Wet, Dry        | Zone 4, Level A & D      |
| Window - Casement  | AA4325         | SMI / LMI      | Casement Outswing Window                           | 2160 - 2179           | 16794.1                    | N/A                     | ± 80            | 1", 1 3/4" | Wet, Dry        | Zone 4, Level A & D      |
| Window - Projected | 8225TL         | SMI / LMI      | Project-Out Window                                 | 1464, 1506            | 11568.1                    | WIN-2639                | ± 65            | 9/16"      | Wet, Dry        | Zone 4, Level A & D      |
| Window - Projected | 8225TL         | SMI / LMI      | Fixed over Project-Out Window & Project-Out Window | 3220, 3221            | 44175.1                    | Third Party Eval Report | ± 60, 90        | 1 1/8"     | Wet, Dry        | Zone 4, Level A & D      |
| Window - Fixed     | 8225TL         | SMI / LMI      | Fixed Window                                       | 3219                  | 44172.1                    | Third Party Eval Report | ± 60, 90        | 1 1/8"     | Wet, Dry        | Zone 4, Level A & D      |
| Window - Casement  | 8225TL         | SMI / LMI      | Casement Outswing Window                           | 3244, 3246            | 46588.1                    | Pending                 | ±90             | 1 1/8"     | Wet, Dry        | Zone 4, Level A & D      |
| Window - Casement  | 8225TL         | LMI            | Casement Outswing Window (Emergency Egress)        | 3245                  | 46588.2                    | Pending                 | ±90             | 1 1/8"     | Wet             | Zone 3, Level D Non-HVHZ |

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| Window – Single Hung       | 8430TL         | SMI / LMI      | Single Hung Window        | 1153, 1386            | 5455.1                     | Pending                 | Varies          | Varies  | Wet, Dry        | All Zones, Level A  |
| Window - Fixed             | 8400TL         | SMI / LMI      | Fixed Window              |                       | 41749.1                    | Third Party Eval Report | ± 47, 90        | 1"      | Wet             | Zone 4, Level A & D |
| Window - Sliding           | 8400TL         | LMI            | Horizontal Sliding Window | 1899, 1900            | 15115.1                    | Pending                 | ± 90            | 1"      | Wet             | Zone 4, Level D     |
| Window – Double Hung       | 8400TL         | Non-Impact     | Double Hung Window        |                       | 7912.1                     | N/A                     | ± 50, ± 70      | 1"      | Dry             | Non-HVHZ            |
| Window - Horizontal Slider | 8400TL         | Non-Impact     | Horizontal Sliding Window |                       | 7913.1                     | N/A                     | ± 70            | 1"      | Dry             | Non-HVHZ            |
| Window – Single Hung       | 8400TL         | Non-Impact     | Single Hung Window        |                       | 7903.1                     | N/A                     | ± 50, ± 70      | 1"      | Dry             | Non-HVHZ            |
| Window - Casement          | NX3100         | Non-Impact     | Casement Outswing         | 87590.01-501-44       | 15880.1                    | N/A                     | ± 80            | 1"      |                 |                     |
| Window - Casement          | NX3200         | Non-Impact     | Casement Inswing          | 88208.01-501-44       | 15882.1                    | WIN-2707                | ± 80            | 1"      | Dry             | Non-HVHZ            |

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|-----------------------------------|----------------|----------------|--------------------------|-----------------------------------|----------------------------|-------------|-----------------|---------|-----------------|------------|
| Project Out Swing                 | NX3500         | Non-Impact     | Project Out Swing        | 87591.01-501-44                   | 15883.1                    | N/A         | ± 80            | 1"      | Dry             | Non-HVHZ   |
| Window - Fixed                    | TR7100         | Non-Impact     | Fixed Window             | FET T396-10                       | 19311.1                    | N/A         | ± 100           | 1"      | Wet             | Non-HVHZ   |
| Window – Single Hung              | TR9100         | LMI            | Single Hung Window       | FET T190-08                       | 16005.1                    | N/A         | + 80 / –110     | 1"      | Dry             | HVHZ       |
| Window - Casement                 | NX3100         | LMI            | Outswing Casement        | 87590.01-501-44 / 89745.04-501-18 | 16006.1                    | N/A         | Varies          | 1"      |                 | HVHZ       |
| Window - Fixed/Projected          | NX3510         | LMI            | Fixed/Projected Window   | 90899.02-501-44 / 90899.01-501-18 | 16007.1                    | N/A         | ± 100           | 1"      | Wet             | HVHZ       |
| Window - Fixed                    | NX3800         | LMI            | Fixed Window             | 92461.01-501-18 / 88210.01-501-44 | 16016.1                    | N/A         | ± 120           | 1"      |                 | HVHZ       |
| Window – Single Hung              | TR9100         | Non-Impact     | Single Hung Window       | 85805.01-501-44                   | 16032.1                    | WIN-2709    | + 80 / –110     | 1"      | Tape            | Non-Impact |
| Window - Inswing Projected/Hopper | NX3400         | Non-Impact     | Inswing Projected/Hopper | 88209.01-501-44                   | 16034.1                    | N/A         | ± 80            | 1"      |                 | Non-Impact |
| Window - Fixed                    | NX3800         | Non-Impact     | Fixed Window             | 88210.01-501-44                   | 16035.1                    | WIN-2708    | ± 80            | 1"      | Wet             | Non-Impact |