

## CUSTOMER TECHNICAL MEMO # 83

**Subject:** Commercial Sliding Door Technical Manual Amendments

**Date:** ~~13/11/09~~ - Revised 17/11/09

**From:** Product Development

Please be advised there have been changes to the Commercial Sliding Door Technical Manual. Refer below for list of changes.

### **Commercial Sliding Door**

- Page 1.0 – Technical Manual Release Notes Updated.
- Pages 2.2.1 to 2.2.16 - Loading Tables Ixx and Iyy values amended.
- Page 3.1.1 – AD841 101mm Head/Jamb with no locating pip, extrusion added.
- Page 3.1.10 – AD851 150mm Head/Jamb with no locating pip, extrusion added.

All the above revised pages have been included with this Technical Memo. The format has been set for double sided printing so you will be able to easily replace the pages in your manuals. You will need to ensure your printer is set to double-sided printing.

If you have any questions please do not hesitate to contact your local ALSPEC Area Manager or Sales Office.



# ALSPEC ALUMINIUM SYSTEMS

## TECHNICAL MANUAL

### COMMERCIAL SLIDING DOOR

Section 1.0

#### TECHNICAL MANUAL RELEASE NOTES

This page is intended to record all changes to the **COMMERCIAL SLIDING DOOR** technical manual pages. It is therefore critical that all changes are recorded in the below AMENDMENTS box prior to release to our customer.

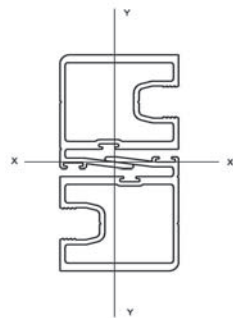
Changes or additions to this manual will be itemised with a brief description and date when the amendments were made.

It is important that a copy of this page be issued with the update and inserted as the first page in the customers technical manual.

| DATE           | AMENDMENT DESCRIPTION   | REMOVE PAGE     | INSERT NEW PAGE |
|----------------|---|-----------------|-----------------|
| 01 / 09 / 2008 | <i>Technical manual initial release</i>                         | ~               | ~               |
| 01 / 02 / 2009 | <i>Contents</i>   | ~               | ~               |
| 01 / 02 / 2009 | <i>Technical manual release notes</i>                           | 1.0             | 1.0             |
| 01 / 02 / 2009 | <i>Specification</i>  | 2.1             | 2.1             |
| 01 / 02 / 2009 | <i>Load tables</i>  | 2.2             | 2.2             |
| 01 / 02 / 2009 | <i>Test report results</i>                                      | 2.3.1           | 2.3.1           |
| 01 / 02 / 2009 | <i>Test report results</i>                                      | 2.3.2           | 2.3.2           |
| 01 / 02 / 2009 | <i>100mm OX standard sill water rating</i>                      | 2.3.3           | 2.3.3           |
| 01 / 02 / 2009 | <i>150mm OXX standard sill water rating</i>                     | 2.3.4           | 2.3.4           |
| 01 / 02 / 2009 | <i>100mm OX standard sill / HP water rating</i>                 | ~               | 2.3.5           |
| 01 / 02 / 2009 | <i>100mm OX standard sill / HP water rating</i>                 | ~               | 2.3.6           |
| 01 / 02 / 2009 | <i>100mm OX standard sill / HP water rating</i>                 | ~               | 2.3.7           |
| 01 / 02 / 2009 | <i>Extrusion profiles</i>                                       | 3.1.15          | 3.1.15          |
| 01 / 02 / 2009 | <i>Extrusion profiles</i>                                       | 3.1.16          | 3.1.16          |
| 01 / 02 / 2009 | <i>Extrusion profiles</i>                                       | 3.1.17          | 3.1.17          |
| 01 / 02 / 2009 | <i>Extrusion profiles</i>                                       | ~               | 3.1.18          |
| 01 / 02 / 2009 | <i>Hardware components</i>                                      | 3.2.4           | 3.2.4           |
| 01 / 02 / 2009 | <i>Sliding flush sill detail with AS335 sub sill front view</i> | ~               | 3.4.14          |
| 01 / 02 / 2009 | <i>Sliding flush sill detail with AS335 sub sill back view</i>  | ~               | 3.4.15          |
| 01 / 02 / 2009 | <i>Sliding HP sill detail with AS335 sub sill front view</i>    | ~               | 3.4.16          |
| 01 / 02 / 2009 | <i>Sliding flush sill detail with AS335 sub sill back view</i>  | ~               | 3.4.17          |
| 01 / 02 / 2009 | <i>Typical details</i>  | 3.4.1 to 3.4.12 | 3.4.1 to 3.4.12 |
| 01 / 02 / 2009 | <i>Cutting formula – triple track</i>                           | 3.5.4           | 3.5.4           |
| 01 / 02 / 2009 | <i>Cutting formula – triple track bi part</i>                   | 3.5.5           | 3.5.5           |
| 01 / 08 / 2009 | <i>Technical manual release notes revised</i>                   | 1.0             | 1.0             |



AD744 / AD744 L/180



**INTERLOCKS AD744 / AD744**

$I_{xx} = 301.40 \times 10^3 \text{ mm}^4$

$I_{yy} = 249.42 \times 10^3 \text{ mm}^4$

**Max Stress = 110 Mpa**

**S = Serviceability limit state l/180**

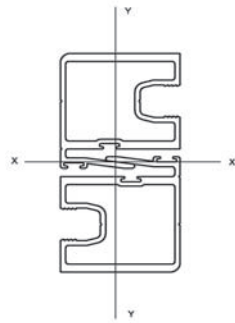
**U = Ultimate limit state**

**L/180**

| Panel Height | Maximum Design Pressure (Pa) |            |            |             |             |             |             |             |             |
|--------------|------------------------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              |                              | 800        | 900        | 1000        | 1100        | 1200        | 1300        | 1400        | 1500        |
| 2500         | S                            | 740        | 665        | 605         | 555         | -           | -           | -           | -           |
|              | U                            | 2125       | 1910       | 1735        | 1595        | -           | -           | -           | -           |
| 2400         | S                            | 835        | 750        | 685         | 630         | 590         | 555         | -           | -           |
|              | U                            | 2310       | 2075       | 1885        | 1740        | 1620        | 1515        | -           | -           |
| 2300         | S                            | 955        | 860        | 785         | 725         | 680         | 640         | 605         | 580         |
|              | U                            | 2530       | 2270       | 2070        | 1905        | 1780        | 1670        | 1580        | 1510        |
| 2200         | S                            | 1095       | 985        | 900         | 835         | 780         | 735         | 700         | 670         |
|              | U                            | 2775       | 2500       | 2280        | 2100        | 1965        | 1845        | 1750        | 1670        |
| 2100         | S                            | 1270       | 1150       | 1050        | 975         | 915         | 865         | 825         | 740         |
|              | U                            | 3060       | 2760       | 2510        | 2330        | 2180        | 2055        | 1955        | 1870        |
| Panel Crs    |                              | <b>800</b> | <b>900</b> | <b>1000</b> | <b>1100</b> | <b>1200</b> | <b>1300</b> | <b>1400</b> | <b>1500</b> |

*This table is based on theoretical section properties*

## AD744 / AD744 L/250



### INTERLOCKS AD744 / AD744

$$I_{xx} = 301.40 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 249.42 \times 10^3 \text{ mm}^4$$

**Max Stress** = 110 Mpa

**S** = Serviceability limit state l/250

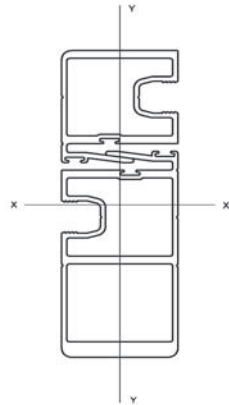
**U** = Ultimate limit state

### L/250

| Panel Height | Maximum Design Pressure (Pa) |            |            |             |             |             |             |             |             |
|--------------|------------------------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              |                              | 800        | 900        | 1000        | 1100        | 1200        | 1300        | 1400        | 1500        |
| 2500         | S                            | 530        | 475        | 435         | 395         | -           | -           | -           | -           |
|              | U                            | 2125       | 1910       | 1735        | 1595        | -           | -           | -           | -           |
| 2400         | S                            | 600        | 540        | 490         | 450         | 420         | 395         | -           | -           |
|              | U                            | 2310       | 2075       | 1885        | 1740        | 1620        | 1515        | -           | -           |
| 2300         | S                            | 685        | 615        | 565         | 725         | 485         | 460         | 435         | 415         |
|              | U                            | 2530       | 2270       | 2070        | 1905        | 1780        | 1670        | 1580        | 1510        |
| 2200         | S                            | 785        | 705        | 645         | 600         | 560         | 525         | 500         | 480         |
|              | U                            | 2775       | 2500       | 2280        | 2100        | 1965        | 1845        | 1750        | 1670        |
| 2100         | S                            | 910        | 825        | 755         | 700         | 655         | 620         | 590         | 565         |
|              | U                            | 3060       | 2760       | 2510        | 2330        | 2180        | 2055        | 1955        | 1870        |
| Panel Crs    |                              | <b>800</b> | <b>900</b> | <b>1000</b> | <b>1100</b> | <b>1200</b> | <b>1300</b> | <b>1400</b> | <b>1500</b> |

*This table is based on theoretical section properties*

**AD744 / AD749 L/180**



**INTERLOCKS AD744 / AD749**

**$I_{xx} = 1020.78 \times 10^3 \text{ mm}^4$**

**$I_{yy} = 358.89 \times 10^3 \text{ mm}^4$**

**Max Stress = 110 Mpa**

**S = Serviceability limit state l/180**

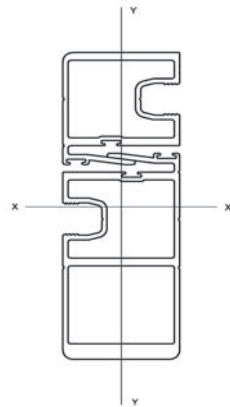
**U = Ultimate limit state**

**L/180**

| Panel Height | Maximum Design Pressure (Pa) |            |            |             |             |             |             |             |             |
|--------------|------------------------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              |                              | 800        | 900        | 1000        | 1100        | 1200        | 1300        | 1400        | 1500        |
| 3000         | S                            | 1430       | 1280       | 1160        | 1065        | 990         | 925         | 870         | 820         |
|              | U                            | 2550       | 2285       | 2070        | 1900        | 1755        | 1640        | 1535        | 1450        |
| 2900         | S                            | 1580       | 1420       | 1285        | 1185        | 1095        | 1025        | 965         | 910         |
|              | U                            | 2740       | 2455       | 2220        | 2040        | 1885        | 1760        | 1655        | 1565        |
| 2800         | S                            | 1765       | 1590       | 1440        | 1325        | 1230        | 1150        | 1080        | 1025        |
|              | U                            | 2940       | 2630       | 2385        | 2195        | 2030        | 1895        | 1780        | 1685        |
| 2700         | S                            | 1975       | 1770       | 1610        | 1480        | 1375        | 1290        | 1215        | 1155        |
|              | U                            | 3170       | 2840       | 2580        | 2365        | 2195        | 2055        | 1935        | 1830        |
| 2600         | S                            | 2210       | 1985       | 1800        | 1665        | 1545        | 1450        | 1365        | 1300        |
|              | U                            | 3430       | 3075       | 2795        | 2565        | 2380        | 2230        | 2100        | 1990        |
| 2500         | S                            | 2480       | 2220       | 2020        | 1860        | 1730        | 1620        | 1525        | 1450        |
|              | U                            | 3720       | 3335       | 3035        | 2790        | 2595        | 2430        | 2290        | 2175        |
| 2400         | S                            | 2695       | 2420       | 2205        | 2030        | 1890        | 1770        | 1670        | 1590        |
|              | U                            | 4045       | 3635       | 3310        | 3045        | 2835        | 2655        | 2510        | 2390        |
| 2300         | S                            | 2945       | 2650       | 2415        | 2225        | 2070        | 1945        | 1840        | 1755        |
|              | U                            | 4420       | 3975       | 3625        | 3340        | 3110        | 2920        | 2765        | 2635        |
| 2200         | S                            | 3230       | 2910       | 2655        | 2450        | 2285        | 2150        | 2040        | 1950        |
|              | U                            | 4850       | 4365       | 4085        | 3680        | 3430        | 3230        | 3065        | 2925        |
| 2100         | S                            | 3565       | 3210       | 2925        | 2715        | 2540        | 2390        | 2270        | 2180        |
|              | U                            | 5350       | 4820       | 4390        | 4075        | 3810        | 3590        | 3410        | 3270        |
| Panel Crs    |                              | <b>800</b> | <b>900</b> | <b>1000</b> | <b>1100</b> | <b>1200</b> | <b>1300</b> | <b>1400</b> | <b>1500</b> |

*This table is based on theoretical section properties*

## AD744 / AD749 L/250



### INTERLOCKS AD744 / AD749

$$I_{xx} = 1020.78 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 358.89 \times 10^3 \text{ mm}^4$$

**Max Stress = 110 Mpa**

**S = Serviceability limit state l/250**

**U = Ultimate limit state**

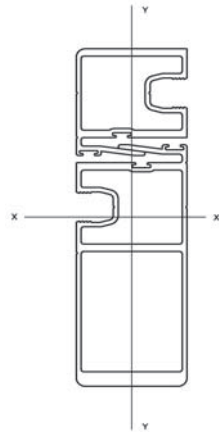
### L/250

| Panel Height | Maximum Design Pressure (Pa) |      |      |      |      |      |      |      |      |
|--------------|------------------------------|------|------|------|------|------|------|------|------|
|              |                              |      |      |      |      |      |      |      |      |
| 3000         | S                            | 1025 | 920  | 835  | 765  | 710  | 665  | 625  | 590  |
|              | U                            | 2550 | 2285 | 2070 | 1900 | 1755 | 1640 | 1535 | 1450 |
| 2900         | S                            | 1135 | 1020 | 925  | 830  | 785  | 735  | 690  | 655  |
|              | U                            | 2740 | 2455 | 2220 | 2040 | 1885 | 1760 | 1655 | 1565 |
| 2800         | S                            | 1270 | 1140 | 1035 | 950  | 885  | 825  | 775  | 735  |
|              | U                            | 2940 | 2630 | 2385 | 2195 | 2030 | 1895 | 1780 | 1685 |
| 2700         | S                            | 1420 | 1270 | 1155 | 1065 | 990  | 925  | 870  | 830  |
|              | U                            | 3170 | 2840 | 2580 | 2365 | 2195 | 2055 | 1935 | 1830 |
| 2600         | S                            | 1590 | 1425 | 1205 | 1195 | 1110 | 1040 | 980  | 935  |
|              | U                            | 3430 | 3075 | 2795 | 2565 | 2380 | 2230 | 2100 | 1990 |
| 2500         | S                            | 1800 | 1615 | 1470 | 1355 | 1260 | 1180 | 1115 | 1065 |
|              | U                            | 3720 | 3335 | 3035 | 2790 | 2595 | 2430 | 2290 | 2175 |
| 2400         | S                            | 2040 | 1835 | 1670 | 1540 | 1440 | 1350 | 1280 | 1220 |
|              | U                            | 4045 | 3635 | 3310 | 3045 | 2835 | 2655 | 2510 | 2390 |
| 2300         | S                            | 2330 | 2095 | 1915 | 1770 | 1655 | 1555 | 1475 | 1410 |
|              | U                            | 4420 | 3975 | 3625 | 3340 | 3110 | 2920 | 2765 | 2635 |
| 2200         | S                            | 2670 | 2410 | 2205 | 2040 | 1905 | 1800 | 1710 | 1640 |
|              | U                            | 4850 | 4365 | 3085 | 3680 | 3430 | 3230 | 3065 | 2925 |
| 2100         | S                            | 3100 | 2800 | 2565 | 2375 | 2230 | 2105 | 2010 | 1930 |
|              | U                            | 5350 | 4820 | 4390 | 4075 | 3810 | 3590 | 3410 | 3270 |
| Panel Crs    |                              | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |

*This table is based on theoretical section properties*



## AD744 / AD747 L/180



### INTERLOCKS AD744 / AD747

$$I_{xx} = 1642.54 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 396.97 \times 10^3 \text{ mm}^4$$

**Max Stress = 110 Mpa**

**S = Serviceability limit state l/180**

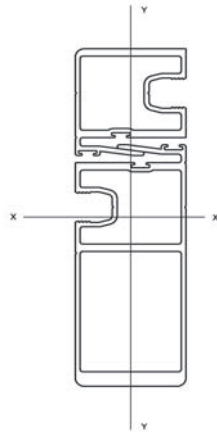
**U = Ultimate limit state**

### L/180

| Panel Height | Maximum Design Pressure (Pa) |            |            |             |             |             |             |             |             |
|--------------|------------------------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              |                              | 800        | 900        | 1000        | 1100        | 1200        | 1300        | 1400        | 1500        |
| 3000         | S                            | 2300       | 2055       | 1865        | 1710        | 1585        | 1475        | 1385        | 1310        |
|              | U                            | 3455       | 3090       | 2805        | 2570        | 2380        | 2215        | 2080        | 1965        |
| 2900         | S                            | 2470       | 2210       | 2005        | 1840        | 1700        | 1590        | 1490        | 1410        |
|              | U                            | 3705       | 3315       | 3010        | 2760        | 2555        | 2385        | 2235        | 2115        |
| 2800         | S                            | 2655       | 2375       | 2155        | 1980        | 1835        | 1710        | 1610        | 1520        |
|              | U                            | 3985       | 3565       | 3235        | 2970        | 2755        | 2570        | 2415        | 2285        |
| 2700         | S                            | 2860       | 2560       | 2330        | 2135        | 1980        | 1850        | 1740        | 1650        |
|              | U                            | 4295       | 3845       | 3495        | 3205        | 2975        | 2780        | 2615        | 2475        |
| 2600         | S                            | 3090       | 2770       | 2520        | 2315        | 2150        | 2010        | 1890        | 1795        |
|              | U                            | 4640       | 4160       | 3780        | 3475        | 3225        | 3015        | 2840        | 2695        |
| 2500         | S                            | 3350       | 3010       | 2735        | 2520        | 2340        | 2190        | 2065        | 1960        |
|              | U                            | 5030       | 4515       | 4105        | 3780        | 3510        | 3285        | 3100        | 2945        |
| 2400         | S                            | 3650       | 3280       | 2980        | 2750        | 2555        | 2395        | 2265        | 2150        |
|              | U                            | 5475       | 4920       | 4475        | 4125        | 3835        | 3595        | 3400        | 3230        |
| 2300         | S                            | 3990       | 3585       | 3270        | 3015        | 2805        | 2635        | 2490        | 2380        |
|              | U                            | 5985       | 5380       | 4905        | 4525        | 4210        | 3955        | 3740        | 3570        |
| 2200         | S                            | 4375       | 3940       | 3590        | 3320        | 3095        | 2910        | 2760        | 2640        |
|              | U                            | 6565       | 5910       | 5390        | 4980        | 4645        | 4370        | 4145        | 3960        |
| 2100         | S                            | 4825       | 4350       | 3950        | 3675        | 3430        | 3240        | 3080        | 2950        |
|              | U                            | 7240       | 6525       | 5925        | 5515        | 5150        | 4860        | 4620        | 4425        |
| Panel Crs    |                              | <b>800</b> | <b>900</b> | <b>1000</b> | <b>1100</b> | <b>1200</b> | <b>1300</b> | <b>1400</b> | <b>1500</b> |

*This table is based on theoretical section properties*

## AD744 / AD747 L/250



### INTERLOCKS AD744 / AD747

$$I_{xx} = 1642.54 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 396.97 \times 10^3 \text{ mm}^4$$

**Max Stress = 110 Mpa**

**S = Serviceability limit state I/250**

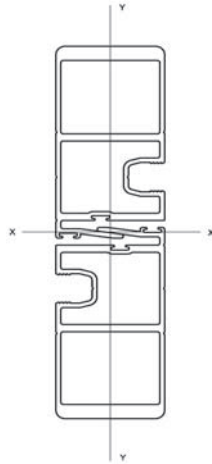
**U = Ultimate limit state**

### L/250

| Panel Height |   | Maximum Design Pressure (Pa) |            |             |             |             |             |             |             |
|--------------|---|------------------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              |   | 800                          | 900        | 1000        | 1100        | 1200        | 1300        | 1400        | 1500        |
| 3000         | S | 1655                         | 1475       | 1340        | 1240        | 1140        | 1065        | 1005        | 950         |
|              | U | 3455                         | 3090       | 2805        | 2570        | 2380        | 2215        | 2080        | 1965        |
| 2900         | S | 1835                         | 1640       | 1490        | 1365        | 1265        | 1185        | 1115        | 1050        |
|              | U | 3705                         | 3315       | 3010        | 2760        | 2555        | 2385        | 2235        | 2115        |
| 2800         | S | 2050                         | 1835       | 1660        | 1530        | 1425        | 1330        | 1250        | 1185        |
|              | U | 3985                         | 3565       | 3235        | 2970        | 2755        | 2570        | 2415        | 2285        |
| 2700         | S | 2275                         | 2040       | 1860        | 1710        | 1585        | 1490        | 1400        | 1325        |
|              | U | 4295                         | 3845       | 3495        | 3205        | 2975        | 2780        | 2615        | 2475        |
| 2600         | S | 2575                         | 2310       | 2105        | 1935        | 1800        | 1690        | 1595        | 1515        |
|              | U | 4640                         | 4160       | 3780        | 3475        | 3225        | 3015        | 2840        | 2695        |
| 2500         | S | 2905                         | 2610       | 2380        | 2190        | 2040        | 1915        | 1810        | 1725        |
|              | U | 5030                         | 4515       | 4105        | 3780        | 3510        | 3285        | 3100        | 2945        |
| 2400         | S | 3295                         | 2965       | 2700        | 2495        | 2325        | 2185        | 2070        | 1975        |
|              | U | 5475                         | 4920       | 4475        | 4125        | 3835        | 3595        | 3400        | 3230        |
| 2300         | S | 3761                         | 3385       | 3090        | 2860        | 2670        | 2515        | 2385        | 2280        |
|              | U | 5985                         | 5380       | 4905        | 4525        | 4210        | 3955        | 3740        | 3570        |
| 2200         | S | 4315                         | 3890       | 3560        | 3295        | 3080        | 2910        | 2760        | 2640        |
|              | U | 6565                         | 5910       | 5390        | 4980        | 4645        | 4370        | 4145        | 3960        |
| 2100         | S | 4825                         | 4350       | 3950        | 3675        | 3430        | 3240        | 3080        | 2950        |
|              | U | 7240                         | 6525       | 5925        | 5515        | 5150        | 4860        | 4620        | 4425        |
| Panel Crs    |   | <b>800</b>                   | <b>900</b> | <b>1000</b> | <b>1100</b> | <b>1200</b> | <b>1300</b> | <b>1400</b> | <b>1500</b> |

*This table is based on theoretical section properties*

**AD749 / AD749 L/180**



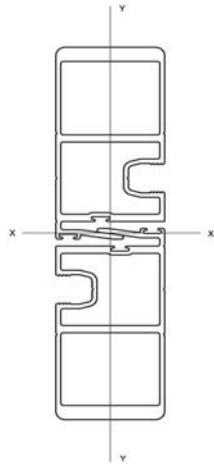
| INTERLOCKS AD749 / AD749                    |
|---|
| $I_{xx} = 1740.14 \times 10^3 \text{ mm}^4$ |
| $I_{yy} = 468.32 \times 10^3 \text{ mm}^4$  |
| <b>Max Stress = 110 Mpa</b>                 |
| <b>S = Serviceability limit state l/180</b> |
| <b>U = Ultimate limit state</b>             |

**L/180**

| Panel Height | Maximum Design Pressure (Pa) |            |            |             |             |             |             |             |             |
|--------------|------------------------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              |                              | 800        | 900        | 1000        | 1100        | 1200        | 1300        | 1400        | 1500        |
| 3000         | S                            | 2445       | 2180       | 1980        | 1815        | 1685        | 1575        | 1475        | 1400        |
|              | U                            | 4355       | 3890       | 3530        | 3240        | 2995        | 2790        | 2620        | 2475        |
| 2900         | S                            | 2700       | 2415       | 2200        | 2015        | 1870        | 1745        | 1645        | 1560        |
|              | U                            | 4760       | 4180       | 3790        | 3475        | 3215        | 3000        | 2820        | 2660        |
| 2800         | S                            | 3020       | 2705       | 2460        | 2265        | 2100        | 1965        | 1845        | 1745        |
|              | U                            | 5020       | 4495       | 4075        | 3740        | 3465        | 3235        | 3045        | 2880        |
| 2700         | S                            | 3360       | 3020       | 2740        | 2520        | 2340        | 2190        | 2070        | 1960        |
|              | U                            | 5410       | 4850       | 4405        | 4045        | 3745        | 3500        | 3295        | 3120        |
| 2600         | S                            | 3770       | 3385       | 3085        | 2840        | 2640        | 2475        | 2335        | 2220        |
|              | U                            | 5845       | 5240       | 4765        | 4375        | 4060        | 3800        | 2580        | 3395        |
| 2500         | S                            | 4220       | 3790       | 3450        | 3175        | 2945        | 2670        | 2600        | 2470        |
|              | U                            | 6335       | 5690       | 5175        | 4760        | 4420        | 4140        | 3905        | 3710        |
| 2400         | S                            | 4600       | 4130       | 3760        | 3460        | 3220        | 3020        | 2850        | 2710        |
|              | U                            | 6900       | 6195       | 5640        | 5195        | 4830        | 4530        | 4280        | 4070        |
| 2300         | S                            | 5020       | 4515       | 4115        | 3795        | 3530        | 3320        | 3140        | 2995        |
|              | U                            | 7535       | 6775       | 6175        | 5695        | 5300        | 4980        | 4715        | 4495        |
| 2200         | S                            | 5510       | 4960       | 4525        | 4180        | 3900        | 3670        | 3680        | 3325        |
|              | U                            | 8275       | 7440       | 6790        | 6270        | 5850        | 5505        | 5220        | 4990        |
| 2100         | S                            | 6000       | 5470       | 5000        | 4630        | 4325        | 4080        | 3880        | 3715        |
|              | U                            | 9000       | 8210       | 7500        | 6945        | 6490        | 6120        | 5820        | 5575        |
| Panel Crs    |                              | <b>800</b> | <b>900</b> | <b>1000</b> | <b>1100</b> | <b>1200</b> | <b>1300</b> | <b>1400</b> | <b>1500</b> |

*This table is based on theoretical section properties*

## AD749 / AD749 L/250



### INTERLOCKS AD749 / AD749

$$I_{xx} = 1740.14 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 468.32 \times 10^3 \text{ mm}^4$$

**Max Stress = 110 Mpa**

**S = Serviceability limit state l/250**

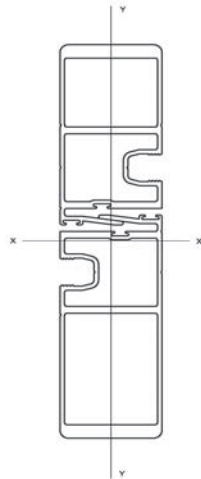
**U = Ultimate limit state**

### L/250

| Panel Height | Maximum Design Pressure (Pa) |            |            |             |             |             |             |             |             |
|--------------|------------------------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              |                              | 800        | 900        | 1000        | 1100        | 1200        | 1300        | 1400        | 1500        |
| 3000         | S                            | 1760       | 1565       | 1425        | 1305        | 1210        | 1130        | 1060        | 1005        |
|              | U                            | 4355       | 3890       | 3530        | 3240        | 2995        | 2790        | 2620        | 2475        |
| 2900         | S                            | 1940       | 1735       | 1580        | 1450        | 1345        | 1255        | 1180        | 1120        |
|              | U                            | 4760       | 4180       | 3790        | 3475        | 3215        | 3000        | 2820        | 2660        |
| 2800         | S                            | 2170       | 1995       | 1770        | 1630        | 1510        | 1410        | 1325        | 1255        |
|              | U                            | 5020       | 4495       | 4075        | 3740        | 3465        | 3235        | 3045        | 2880        |
| 2700         | S                            | 2415       | 2170       | 1970        | 1810        | 1680        | 1575        | 1490        | 1410        |
|              | U                            | 5410       | 4850       | 4405        | 4045        | 3745        | 3500        | 3295        | 3120        |
| 2600         | S                            | 2710       | 2435       | 2220        | 2040        | 1900        | 1780        | 1680        | 1595        |
|              | U                            | 5845       | 5240       | 4765        | 4375        | 4060        | 3800        | 2580        | 3395        |
| 2500         | S                            | 3060       | 2750       | 2520        | 2310        | 2150        | 2015        | 1910        | 1815        |
|              | U                            | 6335       | 5690       | 5175        | 4760        | 4420        | 4140        | 3905        | 3710        |
| 2400         | S                            | 3470       | 3125       | 2845        | 2630        | 2455        | 2305        | 2185        | 2080        |
|              | U                            | 6900       | 6195       | 5640        | 5195        | 4830        | 4530        | 4280        | 4070        |
| 2300         | S                            | 3960       | 3570       | 3260        | 3010        | 2815        | 2645        | 2515        | 2400        |
|              | U                            | 7535       | 6775       | 6175        | 5695        | 5300        | 4980        | 4715        | 4495        |
| 2200         | S                            | 4550       | 4100       | 3750        | 3475        | 3245        | 3065        | 2915        | 2795        |
|              | U                            | 8275       | 7440       | 6790        | 6270        | 5850        | 5505        | 5220        | 4990        |
| 2100         | S                            | 5255       | 4750       | 4355        | 4035        | 3780        | 3575        | 3410        | 3275        |
|              | U                            | 9000       | 8210       | 7500        | 6945        | 6490        | 6120        | 5820        | 5575        |
| Panel Crs    |                              | <b>800</b> | <b>900</b> | <b>1000</b> | <b>1100</b> | <b>1200</b> | <b>1300</b> | <b>1400</b> | <b>1500</b> |

*This table is based on theoretical section properties*

**AD747 / AD749 L/180**



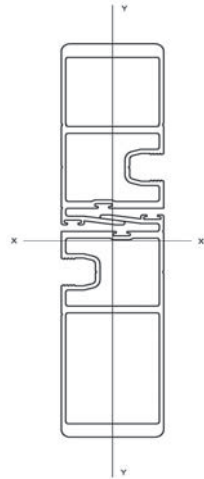
| INTERLOCKS AD747 / AD749   |                                      |
|----------------------------|--------------------------------------|
| <b><math>I_{xx}</math></b> | $= 2361.90 \times 10^3 \text{ mm}^4$ |
| <b><math>I_{yy}</math></b> | $= 506.40 \times 10^3 \text{ mm}^4$  |
| <b>Max Stress</b>          | $= 110 \text{ Mpa}$                  |
| <b>S</b>                   | Serviceability limit state l/180     |
| <b>U</b>                   | Ultimate limit state                 |

**L/180**

| Panel Height |   | Maximum Design Pressure (Pa) |            |             |             |             |             |             |             |
|--------------|---|------------------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              |   | 800                          | 900        | 1000        | 1100        | 1200        | 1300        | 1400        | 1500        |
| 3000         | S | 3245                         | 2960       | 2685        | 2460        | 2275        | 2120        | 1990        | 1880        |
|              | U | 4970                         | 4445       | 1030        | 3695        | 3415        | 3185        | 2990        | 2825        |
| 2900         | S | 3550                         | 3180       | 2880        | 2640        | 2445        | 2280        | 2140        | 2025        |
|              | U | 5330                         | 4770       | 4325        | 3965        | 3670        | 3425        | 3215        | 3040        |
| 2800         | S | 3820                         | 3420       | 3100        | 2845        | 2635        | 2460        | 2315        | 2190        |
|              | U | 5730                         | 5130       | 4655        | 4270        | 3955        | 3695        | 3475        | 3285        |
| 2700         | S | 4580                         | 3685       | 3350        | 3075        | 2850        | 2660        | 2505        | 2370        |
|              | U | 6075                         | 5530       | 5025        | 4615        | 4275        | 3995        | 3760        | 3560        |
| 2600         | S | 4450                         | 3990       | 3620        | 3330        | 3090        | 2890        | 2720        | 2580        |
|              | U | 6675                         | 5985       | 5435        | 4995        | 4635        | 4335        | 4085        | 3875        |
| 2500         | S | 4820                         | 4330       | 3035        | 3620        | 3360        | 3150        | 2970        | 2820        |
|              | U | 7235                         | 6495       | 5090        | 5435        | 5045        | 4725        | 4460        | 4235        |
| 2400         | S | 4915                         | 4715       | 4290        | 3950        | 3675        | 3445        | 3260        | 3100        |
|              | U | 7375                         | 7075       | 6440        | 5930        | 5515        | 5170        | 4890        | 4650        |
| 2300         | S | 5735                         | 5155       | 4700        | 4330        | 4035        | 3785        | 3590        | 3420        |
|              | U | 8605                         | 7735       | 7050        | 6500        | 6055        | 5680        | 5385        | 5130        |
| 2200         | S | 6000                         | 5665       | 5170        | 4770        | 4450        | 4190        | 3970        | 3795        |
|              | U | 9000                         | 8500       | 7755        | 7160        | 6680        | 6285        | 5960        | 5695        |
| 2100         | S | 6000                         | 6000       | 5680        | 5285        | 4940        | 4660        | 4435        | 4250        |
|              | U | 9000                         | 9000       | 8525        | 7930        | 7410        | 6990        | 6655        | 6375        |
| Panel Crs    |   | <b>800</b>                   | <b>900</b> | <b>1000</b> | <b>1100</b> | <b>1200</b> | <b>1300</b> | <b>1400</b> | <b>1500</b> |

*This table is based on theoretical section properties*

## AD747 / AD749 L/250



### INTERLOCKS AD747 / AD749

**I<sub>xx</sub>** = 2361.90 X 10<sup>3</sup> mm<sup>4</sup>

**I<sub>yy</sub>** = 506.40 X 10<sup>3</sup> mm<sup>4</sup>

**Max Stress** = 110 Mpa

**S** = Serviceability limit state I/250

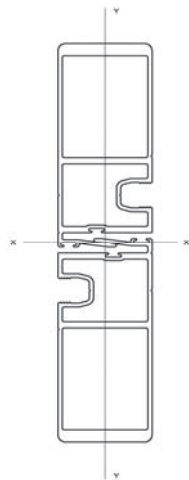
**U** = Ultimate limit state

### L/250

| Panel Height | Maximum Design Pressure (Pa) |            |            |             |             |             |             |             |             |
|--------------|------------------------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              |                              | 800        | 900        | 1000        | 1100        | 1200        | 1300        | 1400        | 1500        |
| 3000         | S                            | 2385       | 2135       | 1940        | 1780        | 1650        | 1540        | 1445        | 1370        |
|              | U                            | 4970       | 4445       | 1030        | 3695        | 3415        | 3185        | 2990        | 2825        |
| 2900         | S                            | 2645       | 2370       | 2155        | 1980        | 1835        | 1715        | 1615        | 1525        |
|              | U                            | 5330       | 4770       | 4325        | 3965        | 3670        | 3425        | 3215        | 3040        |
| 2800         | S                            | 2955       | 2645       | 2400        | 2210        | 2050        | 1915        | 1805        | 1740        |
|              | U                            | 5730       | 5130       | 4655        | 4270        | 3955        | 3695        | 3475        | 3285        |
| 2700         | S                            | 3295       | 2960       | 2690        | 2475        | 2300        | 2150        | 2030        | 1925        |
|              | U                            | 6075       | 5530       | 5025        | 4615        | 4275        | 3995        | 3760        | 3560        |
| 2600         | S                            | 3700       | 3325       | 3025        | 2785        | 2590        | 2430        | 2295        | 2180        |
|              | U                            | 6675       | 5985       | 5435        | 4995        | 4635        | 4335        | 4085        | 3875        |
| 2500         | S                            | 4180       | 3755       | 3420        | 3155        | 2935        | 2755        | 2605        | 2480        |
|              | U                            | 7235       | 6495       | 5905        | 5435        | 5045        | 4725        | 4460        | 4235        |
| 2400         | S                            | 4740       | 4265       | 3885        | 3590        | 3345        | 3145        | 2980        | 2840        |
|              | U                            | 7375       | 7075       | 6440        | 5930        | 5515        | 5170        | 4890        | 4650        |
| 2300         | S                            | 5405       | 4870       | 4450        | 4110        | 3840        | 3615        | 3430        | 3280        |
|              | U                            | 8605       | 7735       | 7050        | 6500        | 6055        | 5680        | 5385        | 5130        |
| 2200         | S                            | 6000       | 5595       | 5120        | 4740        | 4435        | 4185        | 3970        | 3795        |
|              | U                            | 9000       | 8500       | 7755        | 7160        | 6680        | 6285        | 5960        | 5695        |
| 2100         | S                            | 6000       | 6000       | 5680        | 5285        | 4940        | 4660        | 4435        | 4250        |
|              | U                            | 9000       | 9000       | 8525        | 7930        | 7410        | 6990        | 6655        | 6375        |
| Panel Crs    |                              | <b>800</b> | <b>900</b> | <b>1000</b> | <b>1100</b> | <b>1200</b> | <b>1300</b> | <b>1400</b> | <b>1500</b> |

*This table is based on theoretical section properties*

## AD747 / AD747 L/180



### INTERLOCKS AD747 /AD747

$$I_{xx} = 2983.66 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 544.48 \times 10^3 \text{ mm}^4$$

**Max Stress** = 110 Mpa

**S** = Serviceability limit state l/180

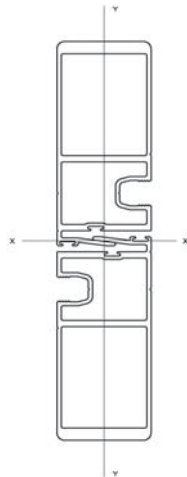
**U** = Ultimate limit state

### L/180

| Panel Height | Maximum Design Pressure (Pa) |      |      |      |      |      |      |      |      |
|--------------|------------------------------|------|------|------|------|------|------|------|------|
|              |                              | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| 3000         | S                            | 4545 | 3740 | 3390 | 3110 | 2875 | 2690 | 2515 | 2375 |
|              | U                            | 6820 | 5615 | 5090 | 4665 | 4315 | 4025 | 3775 | 3565 |
| 2900         | S                            | 4485 | 4015 | 3640 | 3340 | 3090 | 2880 | 2710 | 2560 |
|              | U                            | 6730 | 6025 | 5460 | 5010 | 4635 | 4325 | 4065 | 3840 |
| 2800         | S                            | 4820 | 4320 | 3920 | 3595 | 3330 | 3110 | 2920 | 2765 |
|              | U                            | 7235 | 6480 | 5880 | 5395 | 4995 | 4665 | 4385 | 4150 |
| 2700         | S                            | 5195 | 4565 | 4230 | 3900 | 3600 | 3360 | 3165 | 3000 |
|              | U                            | 7795 | 6985 | 6345 | 5855 | 5400 | 5045 | 4750 | 4500 |
| 2600         | S                            | 5615 | 5035 | 4580 | 4205 | 3900 | 3650 | 3440 | 3260 |
|              | U                            | 8425 | 7555 | 6870 | 6310 | 5855 | 5480 | 5160 | 4895 |
| 2500         | S                            | 6000 | 5465 | 4970 | 4570 | 4250 | 3980 | 3750 | 3560 |
|              | U                            | 9000 | 8200 | 7460 | 6860 | 6375 | 5970 | 5630 | 5350 |
| 2400         | S                            | 6000 | 5950 | 5420 | 4990 | 4640 | 4350 | 4110 | 3910 |
|              | U                            | 9000 | 8930 | 8130 | 7490 | 6960 | 6530 | 6170 | 5870 |
| 2300         | S                            | 6000 | 6000 | 5930 | 5470 | 5095 | 4350 | 4115 | 3910 |
|              | U                            | 9000 | 9000 | 8900 | 8210 | 7645 | 6530 | 6175 | 5870 |
| 2200         | S                            | 6000 | 6000 | 6000 | 6000 | 5620 | 5290 | 5020 | 4790 |
|              | U                            | 9000 | 9000 | 9000 | 9000 | 8430 | 7940 | 7530 | 7190 |
| 2100         | S                            | 6000 | 6000 | 6000 | 6000 | 6000 | 5865 | 5530 | 5330 |
|              | U                            | 9000 | 9000 | 9000 | 9000 | 9000 | 8800 | 8300 | 8000 |
| Panel Crs    |                              | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |

*This table is based on theoretical section properties*

## AD747 / AD747 L/250



### INTERLOCKS AD747 / AD747

$I_{xx} = 2983.66 \times 10^3 \text{ mm}^4$

$I_{yy} = 544.48 \times 10^3 \text{ mm}^4$

**Max Stress = 110 Mpa**

**S = Serviceability limit state l/250**

**U = Ultimate limit state**

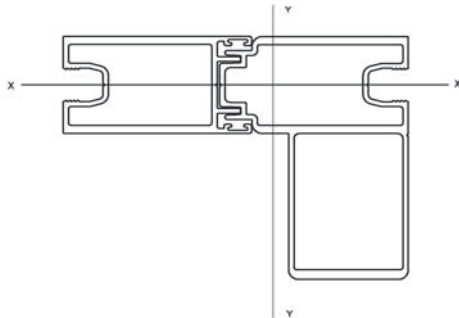
### L/250

| Panel Height | Maximum Design Pressure (Pa) |      |      |      |      |      |      |      |      |
|--------------|------------------------------|------|------|------|------|------|------|------|------|
|              |                              |      |      |      |      |      |      |      |      |
| 3000         | S                            | 3015 | 2700 | 2450 | 2250 | 2085 | 1945 | 1830 | 1730 |
|              | U                            | 6820 | 5615 | 5090 | 4665 | 4315 | 4025 | 3775 | 3565 |
| 2900         | S                            | 3345 | 2995 | 2720 | 2500 | 2315 | 2165 | 2035 | 1930 |
|              | U                            | 6730 | 6025 | 5460 | 5010 | 4635 | 4325 | 4065 | 3840 |
| 2800         | S                            | 3725 | 3340 | 3035 | 2790 | 2590 | 2420 | 2280 | 2160 |
|              | U                            | 7235 | 6480 | 5880 | 5395 | 4995 | 4665 | 4385 | 4150 |
| 2700         | S                            | 4165 | 3735 | 3400 | 3125 | 2905 | 2720 | 2565 | 2435 |
|              | U                            | 7795 | 6985 | 6345 | 5855 | 5400 | 5045 | 4750 | 4500 |
| 2600         | S                            | 4675 | 4200 | 3820 | 3520 | 3270 | 3065 | 2895 | 2755 |
|              | U                            | 8425 | 7555 | 6870 | 6310 | 5855 | 5480 | 5160 | 4895 |
| 2500         | S                            | 5270 | 4740 | 4320 | 3985 | 3710 | 3480 | 3290 | 3130 |
|              | U                            | 9000 | 8200 | 7460 | 6860 | 6375 | 5970 | 5630 | 5350 |
| 2400         | S                            | 5985 | 5385 | 4905 | 4530 | 4225 | 3970 | 3760 | 3590 |
|              | U                            | 9000 | 8930 | 8130 | 7490 | 6960 | 6530 | 6170 | 5870 |
| 2300         | S                            | 6000 | 6000 | 5610 | 5190 | 5870 | 3975 | 3765 | 3590 |
|              | U                            | 9000 | 9000 | 8900 | 8210 | 7645 | 6530 | 6175 | 5870 |
| 2200         | S                            | 6000 | 6000 | 6000 | 5980 | 5600 | 5280 | 5000 | 4790 |
|              | U                            | 9000 | 9000 | 9000 | 9000 | 8430 | 7940 | 7530 | 7190 |
| 2100         | S                            | 6000 | 6000 | 6000 | 6000 | 6000 | 5865 | 5530 | 5330 |
|              | U                            | 9000 | 9000 | 9000 | 9000 | 9000 | 8800 | 8300 | 8000 |
| Panel Crs    |                              | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |

*This table is based on theoretical section properties*



**AD746 / AD748 L/180**



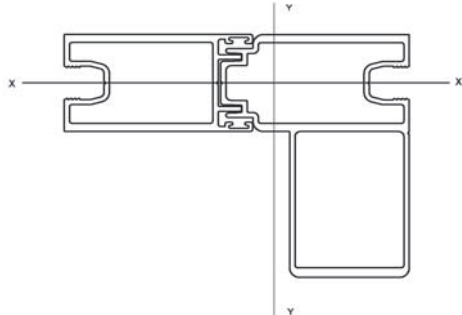
| MEETING STILES AD746 / AD748 |   |
|------------------------------|---|
| <b>I<sub>xx</sub></b>        | = 1376.67 X 10 <sup>3</sup> mm <sup>4</sup> |
| <b>I<sub>yy</sub></b>        | = 815.13 X 10 <sup>3</sup> mm <sup>4</sup>  |
| <b>Max Stress</b>            | = 110 Mpa                                   |
| <b>S</b>                     | = Serviceability limit state l/180          |
| <b>U</b>                     | = Ultimate limit state                      |

**L/180**

| Panel Height |   | Maximum Design Pressure (Pa) |            |             |             |             |             |             |             |
|--------------|---|------------------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              |   | 800                          | 900        | 1000        | 1100        | 1200        | 1300        | 1400        | 1500        |
| 3000         | S | 1925                         | 1730       | 1570        | 1435        | 1330        | 1240        | 1160        | 1100        |
|              | U | 2900                         | 2600       | 2355        | 2155        | 1995        | 1860        | 1745        | 1650        |
| 2900         | S | 2075                         | 1855       | 1680        | 1540        | 1430        | 1330        | 1250        | 1180        |
|              | U | 3115                         | 2785       | 2525        | 2315        | 2145        | 2000        | 1880        | 1775        |
| 2800         | S | 2225                         | 1995       | 1810        | 1660        | 1540        | 1435        | 1350        | 1280        |
|              | U | 3340                         | 2995       | 2715        | 2495        | 2310        | 2155        | 2030        | 1920        |
| 2700         | S | 2400                         | 2150       | 1950        | 1790        | 1660        | 1555        | 1460        | 1385        |
|              | U | 3600                         | 3230       | 2930        | 2690        | 2495        | 2335        | 2195        | 2080        |
| 2600         | S | 2600                         | 2325       | 2110        | 1945        | 1805        | 1685        | 1590        | 1510        |
|              | U | 3900                         | 3490       | 3170        | 2920        | 2710        | 2530        | 2385        | 2265        |
| 2500         | S | 2810                         | 2520       | 2300        | 2115        | 1960        | 1836        | 1730        | 1645        |
|              | U | 4215                         | 3785       | 3450        | 3175        | 2945        | 2755        | 2600        | 2470        |
| 2400         | S | 2870                         | 2750       | 2505        | 2305        | 2145        | 2010        | 1900        | 1810        |
|              | U | 4595                         | 4130       | 3760        | 3460        | 3220        | 3020        | 2850        | 2715        |
| 2300         | S | 3350                         | 3010       | 2740        | 2525        | 2355        | 2210        | 2090        | 1990        |
|              | U | 5030                         | 4520       | 4115        | 3790        | 3535        | 3320        | 3140        | 2990        |
| 2200         | S | 3665                         | 3305       | 3015        | 2790        | 2595        | 2445        | 2315        | 2215        |
|              | U | 5500                         | 4960       | 4525        | 4185        | 3895        | 3670        | 3475        | 3325        |
| 2100         | S | 4050                         | 3640       | 3330        | 3085        | 2880        | 2715        | 2585        | 2475        |
|              | U | 6075                         | 5465       | 5000        | 4630        | 4320        | 4075        | 3880        | 3715        |
| Panel Crs    |   | <b>800</b>                   | <b>900</b> | <b>1000</b> | <b>1100</b> | <b>1200</b> | <b>1300</b> | <b>1400</b> | <b>1500</b> |

*This table is based on theoretical section properties*

## AD746 / AD748 L/250



### MEETING STILES AD746 / AD748

$$I_{xx} = 1376.67 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 815.13 \times 10^3 \text{ mm}^4$$

**Max Stress** = 110 Mpa

**S** = Serviceability limit state l/250

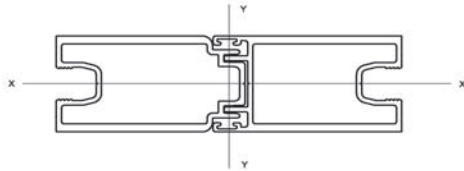
**U** = Ultimate limit state

### L/250

| Panel Height | Maximum Design Pressure (Pa) |            |            |             |             |             |             |             |             |
|--------------|------------------------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              |                              | 800        | 900        | 1000        | 1100        | 1200        | 1300        | 1400        | 1500        |
| 3000         | S                            | 1385       | 1245       | 1130        | 1030        | 955         | 890         | 840         | 795         |
|              | U                            | 2900       | 2600       | 2355        | 2155        | 1995        | 1860        | 1745        | 1650        |
| 2900         | S                            | 1530       | 1375       | 1250        | 1140        | 1065        | 990         | 935         | 885         |
|              | U                            | 3115       | 2785       | 2525        | 2315        | 2145        | 2000        | 1880        | 1775        |
| 2800         | S                            | 1710       | 1540       | 1395        | 1285        | 1190        | 1115        | 1050        | 995         |
|              | U                            | 3340       | 2995       | 2715        | 2495        | 2310        | 2155        | 2030        | 1920        |
| 2700         | S                            | 1910       | 1715       | 1565        | 1430        | 1330        | 1245        | 1180        | 1115        |
|              | U                            | 3600       | 3230       | 2930        | 2690        | 2495        | 2335        | 2195        | 2080        |
| 2600         | S                            | 2140       | 1920       | 1745        | 1610        | 1500        | 1400        | 1325        | 1255        |
|              | U                            | 3900       | 3490       | 3170        | 2920        | 2710        | 2530        | 2385        | 2265        |
| 2500         | S                            | 2430       | 2175       | 1990        | 1835        | 1695        | 1595        | 1505        | 1435        |
|              | U                            | 4215       | 3785       | 3450        | 3175        | 2945        | 2755        | 2600        | 2470        |
| 2400         | S                            | 2730       | 2460       | 2245        | 2070        | 1855        | 1815        | 1725        | 1645        |
|              | U                            | 4595       | 4130       | 3760        | 3460        | 3220        | 3020        | 2850        | 2715        |
| 2300         | S                            | 3130       | 2820       | 2590        | 2390        | 2230        | 2100        | 1985        | 1900        |
|              | U                            | 5030       | 4520       | 4115        | 3790        | 3535        | 3320        | 3140        | 2990        |
| 2200         | S                            | 3600       | 3240       | 2950        | 2730        | 2565        | 2420        | 2290        | 2200        |
|              | U                            | 5500       | 4960       | 4525        | 4185        | 3895        | 3670        | 3475        | 3325        |
| 2100         | S                            | 4050       | 3640       | 3330        | 3085        | 2880        | 2715        | 2585        | 2475        |
|              | U                            | 6075       | 5465       | 5000        | 4630        | 4320        | 4075        | 3880        | 3715        |
| Panel Crs    |                              | <b>800</b> | <b>900</b> | <b>1000</b> | <b>1100</b> | <b>1200</b> | <b>1300</b> | <b>1400</b> | <b>1500</b> |

*This table is based on theoretical section properties*

AD755 / AD746 L/180



**MEETING STILES AD755 / AD746**

$I_{xx} = 314.63 \times 10^3 \text{ mm}^4$   
 $I_{yy} = 659.02 \times 10^3 \text{ mm}^4$

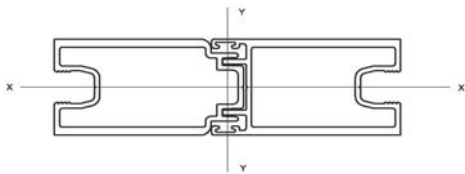
**Max Stress = 110 Mpa**  
**S** = Serviceability limit state l/180  
**U** = Ultimate limit state

**L/180**

| Panel Height | Maximum Design Pressure (Pa) |            |            |             |             |             |             |             |             |
|--------------|------------------------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              |                              | 800        | 900        | 1000        | 1100        | 1200        | 1300        | 1400        | 1500        |
| <b>2400</b>  | S                            | 870        | 785        | 715         | 660         | 615         | -           | -           | -           |
|              | U                            | 3000       | 2695       | 2455        | 2255        | 2100        | -           | -           | -           |
| <b>2300</b>  | S                            | 1000       | 900        | 820         | 760         | 705         | 665         | 630         | 605         |
|              | U                            | 3265       | 2940       | 2685        | 2475        | 2305        | 2165        | 2050        | 1955        |
| <b>2200</b>  | S                            | 1140       | 1030       | 940         | 870         | 815         | 770         | 730         | 700         |
|              | U                            | 3600       | 3235       | 2955        | 2730        | 2540        | 2390        | 2270        | 2165        |
| <b>2100</b>  | S                            | 1320       | 1200       | 1100        | 1015        | 950         | 900         | 860         | 825         |
|              | U                            | 3965       | 3575       | 3265        | 3020        | 2820        | 2665        | 2530        | 2425        |
| Panel Crs    |                              | <b>800</b> | <b>900</b> | <b>1000</b> | <b>1100</b> | <b>1200</b> | <b>1300</b> | <b>1400</b> | <b>1500</b> |

*This table is based on theoretical section properties*

## AD755 / AD746 L/250



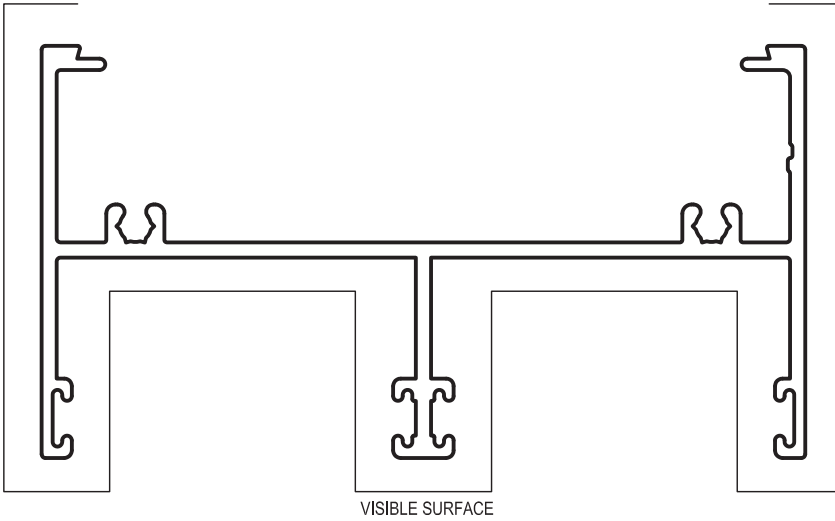
| MEETING STILES AD755 / AD746 |   |
|------------------------------|---|
| $I_{xx}$                     | $= 314.63 \times 10^3 \text{ mm}^4$       |
| $I_{yy}$                     | $= 659.02 \times 10^3 \text{ mm}^4$       |
| <b>Max Stress</b>            | <b>= 110 Mpa</b>                          |
| <b>S</b>                     | <b>= Serviceability limit state l/250</b> |
| <b>U</b>                     | <b>= Ultimate limit state</b>             |

### L/250

| Panel Height |   | Maximum Design Pressure (Pa) |            |             |             |             |             |             |             |
|--------------|---|------------------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              |   | 800                          | 900        | 1000        | 1100        | 1200        | 1300        | 1400        | 1500        |
| 2400         | S | 625                          | 565        | 510         | 475         | 440         | -           | -           | -           |
|              | U | 3000                         | 2695       | 2455        | 2255        | 2100        | -           | -           | -           |
| 2300         | S | 720                          | 645        | 590         | 545         | 505         | 475         | 450         | 435         |
|              | U | 3265                         | 2940       | 2685        | 2475        | 2305        | 2165        | 2050        | 1955        |
| 2200         | S | 820                          | 740        | 675         | 625         | 585         | 550         | 525         | 500         |
|              | U | 3600                         | 3235       | 2955        | 2730        | 2540        | 2390        | 2270        | 2165        |
| 2100         | S | 950                          | 860        | 790         | 730         | 680         | 645         | 615         | 590         |
|              | U | 3965                         | 3575       | 3265        | 3020        | 2820        | 2665        | 2530        | 2425        |
| Panel Crs    |   | <b>800</b>                   | <b>900</b> | <b>1000</b> | <b>1100</b> | <b>1200</b> | <b>1300</b> | <b>1400</b> | <b>1500</b> |

*This table is based on theoretical section properties*

## EXTRUSION PROFILES

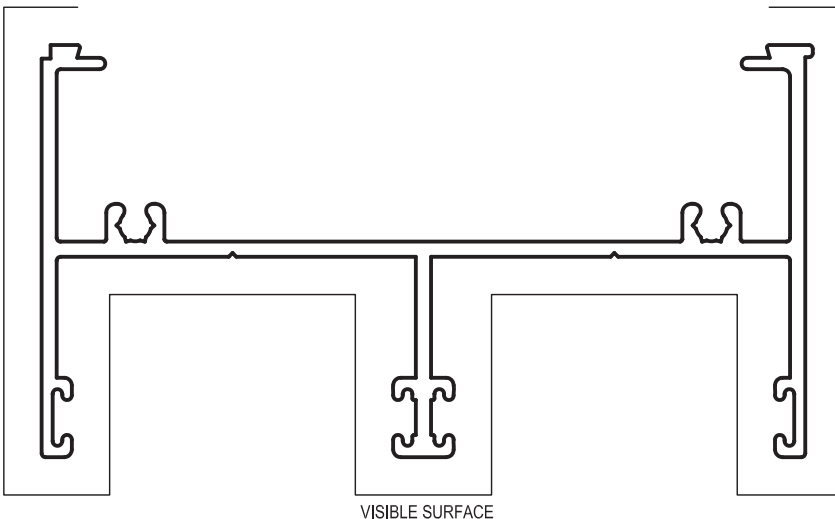


**AD841**  
HEAD / JAMB  
(NO PIPS)

Mass. 1.549 Kg/m  
Anod. Per. 584  
Paint Per. 359

$I_{xx} = 829.30 \times 10^3 \text{ mm}^4$   
 $I_{yy} = 104.80 \times 10^3 \text{ mm}^4$

VISIBLE SURFACE

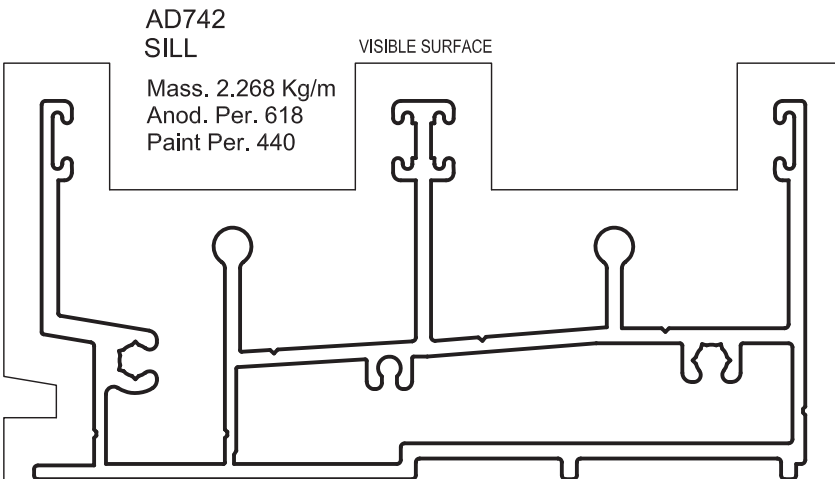


**AD741**  
HEAD / JAMB

Mass. 1.542 Kg/m  
Anod. Per. 585  
Paint Per. 392

$I_{xx} = 827.96 \times 10^3 \text{ mm}^4$   
 $I_{yy} = 104.37 \times 10^3 \text{ mm}^4$

VISIBLE SURFACE



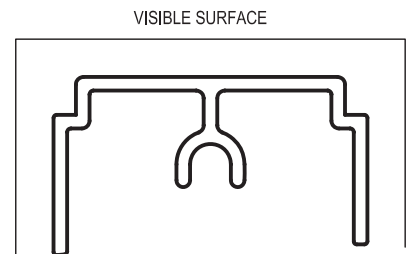
**AD742**  
SILL

Mass. 2.268 Kg/m  
Anod. Per. 618  
Paint Per. 440

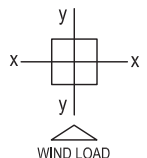
VISIBLE SURFACE

**AD797**  
FIXED PANEL ADAPTOR

Mass. 0.515 Kg/m  
Anod. Per. 209  
Paint Per. 100



VISIBLE SURFACE



## EXTRUSION PROFILES

VISIBLE SURFACE

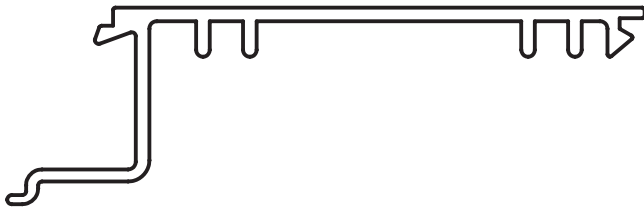


**AS418**  
**D.G. ADAPTOR**

Mass. 0.390 Kg/m  
Anod. Per. 177  
Paint Per. 100

$I_{xx} = 47.16 \times 10^3 \text{ mm}^4$   
 $I_{yy} = 7.39 \times 10^3 \text{ mm}^4$

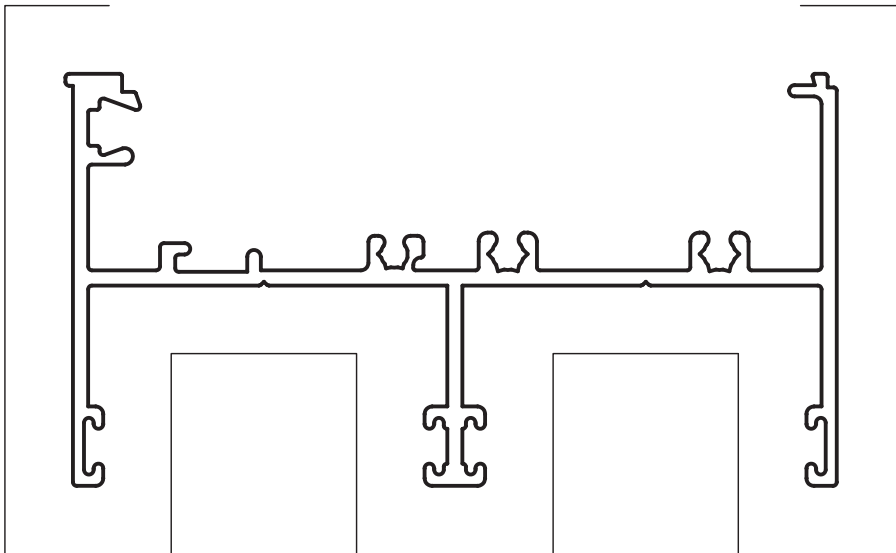
VISIBLE SURFACE



**AS318**  
**S.G. ADAPTOR**

Mass. 0.659 Kg/m  
Anod. Per. 271  
Paint Per. 100

$I_{xx} = 149.61 \times 10^3 \text{ mm}^4$   
 $I_{yy} = 14.45 \times 10^3 \text{ mm}^4$

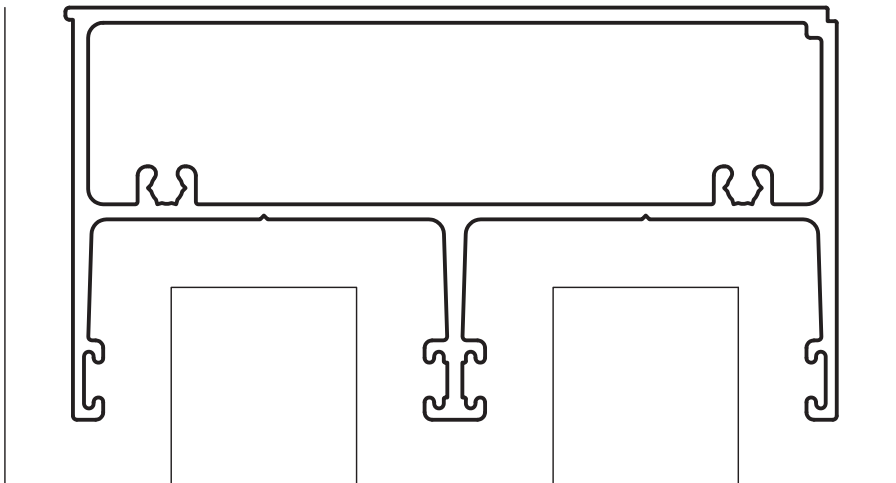


**AD764**  
**HEAD / JAMB**  
**FRONT GLAZED**

Mass. 1.858 Kg/m  
Anod. Per. 628  
Paint Per. 380

$I_{xx} = 835.56 \times 10^3 \text{ mm}^4$   
 $I_{yy} = 108.74 \times 10^3 \text{ mm}^4$

VISIBLE SURFACE

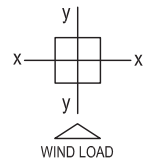


**AD800**  
**HIGH PERFORMANCE**  
**HEAD**

Mass. 2.065 Kg/m  
Anod. Per. 465  
Paint Per. 363

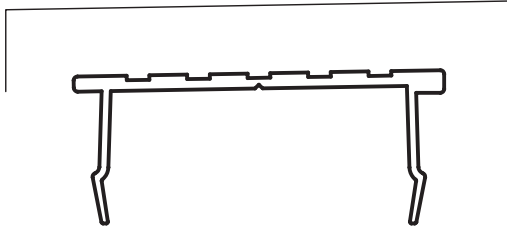
$I_{xx} = 956.00 \times 10^3 \text{ mm}^4$   
 $I_{yy} = 205.80 \times 10^3 \text{ mm}^4$

VISIBLE SURFACE



## EXTRUSION PROFILES

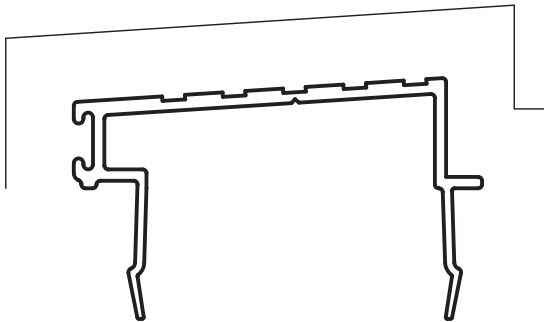
VISIBLE SURFACE



**AD729**  
HORIZONTAL THRESHOLD

Mass. 0.360 Kg/m  
Anod. Per. 179  
Paint Per. 100

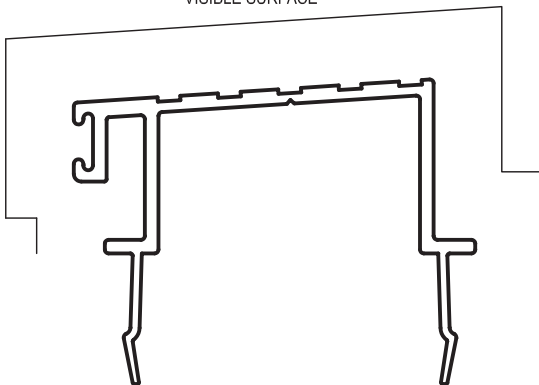
VISIBLE SURFACE



**AD801**  
LOW RISE  
THRESHOLD

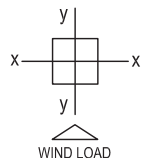
Mass. 0.503 Kg/m  
Anod. Per. 250  
Paint Per. 100

VISIBLE SURFACE

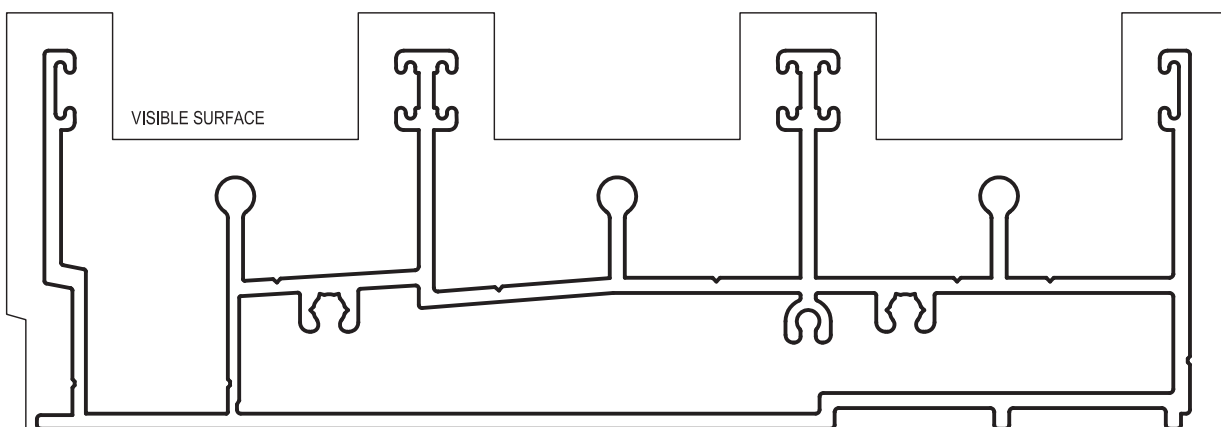
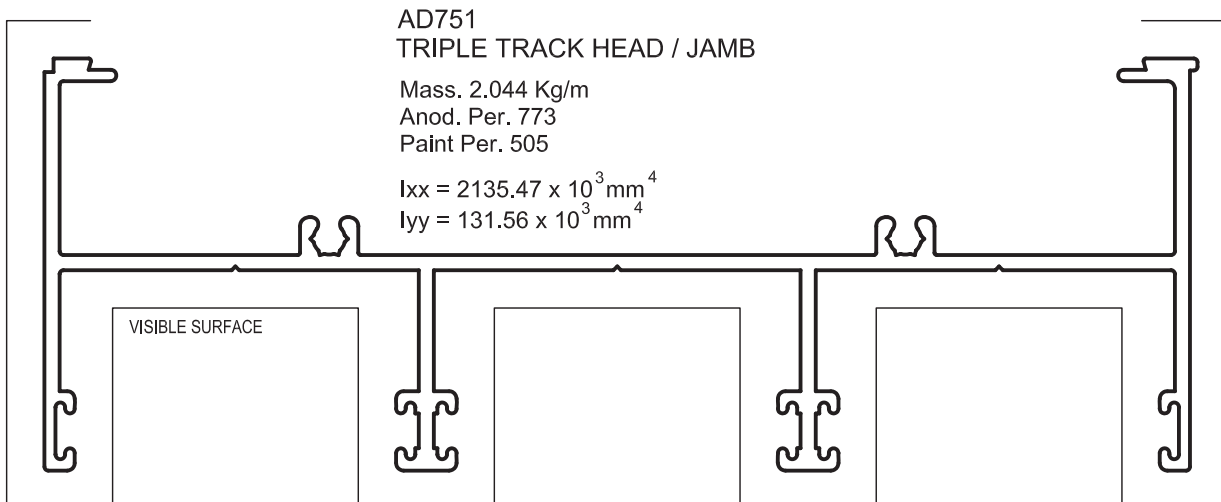
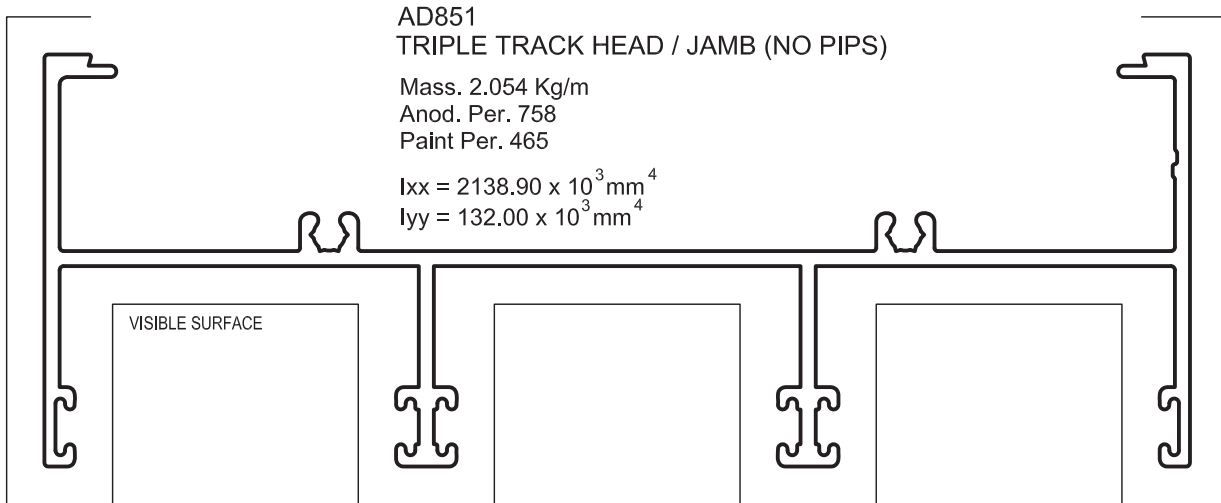


**AD736**  
HIGH PERFORMANCE  
THRESHOLD

Mass. 0.648 Kg/m  
Anod. Per. 297  
Paint Per. 125



## EXTRUSION PROFILES



**AD752**  
TRIPLE TRACK SILL

Mass. 3.132 Kg/m  
Anod. Per. 804  
Paint Per. 645