



**VEKA committed globally - acting locally**

**VEKA Plastics (Thailand) Co. Ltd**

**VEKA Plastics (Singapore) Pte. Ltd.**

**VEKA Plastics (Malaysia) Bhd. Sdn.**

**VEKA Plastics (Shanghai) Co. Ltd.**

**VEKA Hong Kong Ltd.**

**VEKA India PVT. Ltd.**



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## GLOBAL DOORS AND WINDOWS SYSTEM EXPERTS OFFER MULTIPLE CULTURAL SOLUTIONS



Since 50 years uPVC Windows and Doors are used in the building industry and they continue to be the material of choice for energy efficient buildings. Since the 1960's VEKA AG has entered this market and quickly became an industry leader. In its more than 40 years history, VEKA has develop from a small enterprise based in Germany to the most international player in the industry with 18 production sites worldwide. Being locally present, many VEKA Window and Door Systems have been designed with the local needs in mind, like different styles and structures according to different climates, way of building and cultural impacts. Today we can distinguish between 3 different Window and Door Markets, with its own technical and cultural requirements. Europe, the Americas and Asia. VEKA is present in all these markets, serving also as an ambassador for the different technical approaches and solutions between these markets. Today the VEKA Group as more than 3000 types of uPVC Profiles, satisfying all Window and Door needs around the world.

## INNOVATIVE DESIGN - IMPROVING QUALITY STANDARDS

VEKA's early gateway to Asia was the biggest market in Asia - China. Since more than 10 years VEKA operates in Shanghai and established in a joint effort with the Building Ministry of China new advanced standards for Windows and Doors as well for uPVC Profiles. As China with entering the WTO renewed most of its former product standards in order to export its product worldwide, mostly the European Standards and Norms were introduced for uPVC Profiles. On the other hand, the USA continue to be the biggest export market for Chinese products. Today VEKA Plastics (Shanghai) Co. Ltd. not only produces uPVC Profiles according to European Standards, but is also an AAMA certified Production Plant.







## Common Features of VEKA | Casement Window and Door Systems

- ⦿ Multiple chamber design with internal webs for additional stability, provides excellent heat and sound insulating properties.
- ⦿ Drainage chamber is designed on the outer section of profile to allow for proper drainage whilst still maintaining an insulated reinforcement chamber.
- ⦿ Isolated amply dimensioned reinforcement chamber designed to take strong galvanized steel reinforcement imparts high inertia strength and stability to the profile systems.
  - ⦿ Separate chambers for drainage and pressure equalization prevents energy loss, draught and entry of dust particles.
- ⦿ Specially designed frame profile locating legs is standardized for this and other VEKA systems to allow for easy retention of ancillary profile or frame to frame joints.
  - ⦿ Twin seals of internal and external EPDM gaskets improves air and water tightness.
  - ⦿ Enhanced stability with glazing rebate height of 21 mm.
  - ⦿ System specific glazing block and glazing wedges of different thickness facilitates glazing installation.
- ⦿ Installation of glazing of different thickness is made simple by choosing glazing beads of different sizes from the VEKA range.
- ⦿ Eurogrove designed to European standards allows for a wide variety of industry available hardware and multi locking mechanisms to be easily installed to provide maximum security.
  - ⦿ Profile section and thickness are designed to minimize fabrication wastage and reduce window cost.
- ⦿ Profile system is designed with glazing bead on the internal face to allow for safe and convenient installation on site and changing of glazing units when necessary.
  - ⦿ Specially designed screw ports in sash profiles facilitates hardware installation, whilst at the same time ensuring the hardware is properly secured.



**VEKA**  
**Casement**

## **Window and Door Systems**

*AD50 Casement Window System (inwards opening)*

*AD50 Casement Window System (outwards opening)*

*AD58 Casement Window System (inwards opening)*

*AD58 Casement Window System (outwards opening)*

*AD58 Casement Door System (inwards opening)*

*AD58 Casement Door System (outwards opening)*

*MD58 Casement Window System (inwards opening)*

*MD58 Casement Door System (inwards opening)*

*MD65 Casement Window System (inwards opening)*

### **NEW PROFILE SYSTEMS:**

*AD60AL Casement Window System (outwards opening)*

*AD60AL Casement Door System (outwards opening)*

*MD60AL Casement Window System (inwards opening)*

*MD60AL Casement Door System (inwards opening)*

*AD60COEX Casement Window System (inwards opening)*

*AD60COEX Casement Window System (outwards opening)*

*AD60COEX Casement Door System (inwards opening)*

*AD60COEX Casement Door System (outwards opening)*

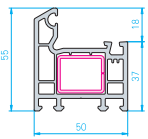
*Crank Operated Outward Opening Window System*



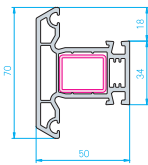


# PROFILE CHARTS - CASEMENT SYSTEMS

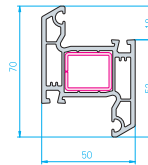
## AD50 CASEMENT SYSTEM



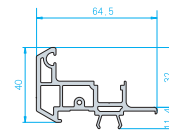
101.704 Frame  
113.745 Steel reinforcement



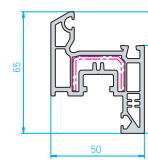
102.706 T-mullion  
113.745 Steel reinforcement  
106.702 Mechanical coupler



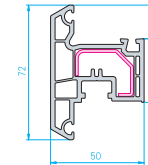
102.709 Z-mullion  
113.745 Steel reinforcement



102.707 Movable mullion  
109.705 End cap (Inwards opening)  
109.705.1 End cap (Outwards opening)

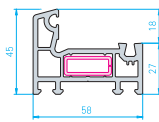


103.704 Window sash, inwards opening  
113.708 Steel reinforcement

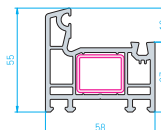


103.705 Window sash, outwards opening  
113.709 Steel reinforcement

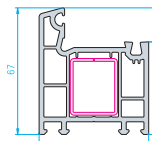
## AD58 CASEMENT SYSTEM



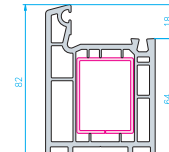
101.718 Frame  
113.721 Steel reinforcement



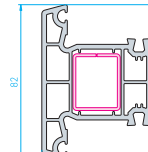
101.717 Frame  
113.745 Steel reinforcement



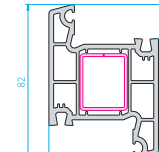
101.716 Frame  
113.702 Steel reinforcement



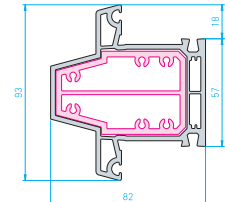
101.785 Frame  
113.729 Steel reinforcement



102.735 T-mullion  
113.702 Steel reinforcement  
106.716 Mechanical coupler

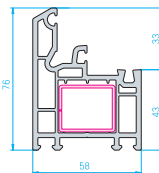


102.736 Z-mullion  
113.702 Steel reinforcement

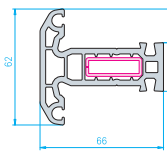


102.182 Special mullion  
104.764 Aluminum reinforcement  
109.775 End cap

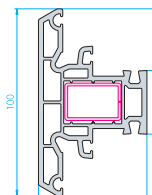
## MD58 CASEMENT SYSTEM



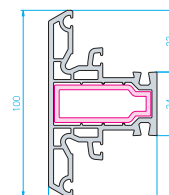
101.705 Frame  
113.702 Steel reinforcement



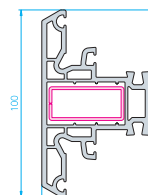
102.150 T-Mullion  
113.726 Steel reinforcement  
106.017 Mechanical coupler



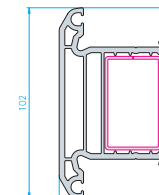
102.708 Mullion  
113.725 Steel reinforcement  
106.703 Mechanical coupler



102.728 Mullion  
104.766 Aluminum reinforcement  
106.703 Mechanical coupler

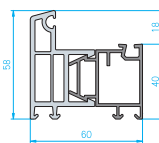


102.738 Mullion  
113.724.2 Steel reinforcement  
106.703 Mechanical coupler

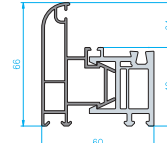


102.151 T-Mullion  
113.746 Steel reinforcement  
106.037 Mechanical coupler

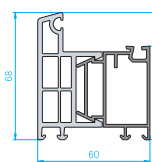
## 60AL CASEMENT SYSTEM



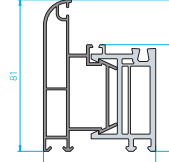
AD60 PVC-AL Window frame, outwards opening  
101.709 + 104.722



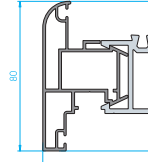
MD60 PVC-AL Window frame, inwards opening  
104.727 + 101.707



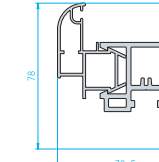
AD60 PVC-AL Door frame, outwards opening  
101.710 + 104.723



MD60 PVC-AL Door frame, inwards opening  
104.728 + 101.708

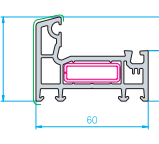


AD60 PVC-AL Window sash, outwards opening  
104.732 + 103.709

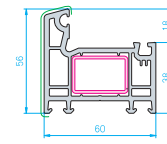


MD60 PVC-AL Window sash, inwards opening  
104.737 + 103.707

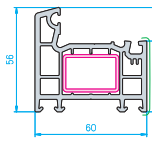
## AD60COEX CASEMENT SYSTEM



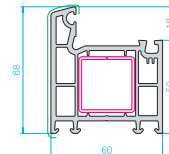
101.721 Window frame, inwards opening (CO-EX)  
113.726 Steel reinforcement



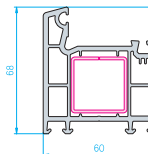
101.722 Window frame, inwards opening (CO-EX)  
113.725 Steel reinforcement



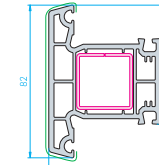
101.723 Window frame, outwards opening (CO-EX)  
113.725 Steel reinforcement



101.724 Door frame, inwards opening (CO-EX)  
113.719 Steel reinforcement

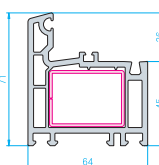


101.725 Door frame, outwards opening (CO-EX)  
113.719 Steel reinforcement

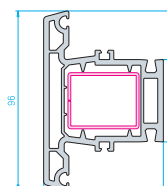


102.721 T-mullion, inwards opening (CO-EX)  
113.719 Steel reinforcement

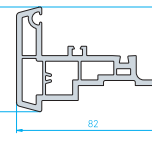
## MD65 CASEMENT SYSTEM



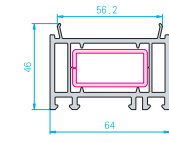
701.012 Frame  
113.729 Steel reinforcement



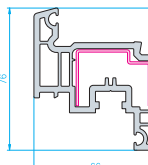
702.013 T-Mullion  
113.731 Steel reinforcement  
106.704 Mechanical coupler



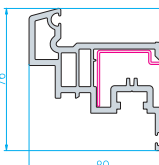
702.014 Movable mullion  
709.701 End cap



714.006 Frame extension  
113.724.2 Steel reinforcement



703.005 Window sash, inwards opening  
113.730 Steel reinforcement



703.006 Window sash, inwards opening  
113.730 Steel reinforcement



AD50  
CASEMENT SYSTEM

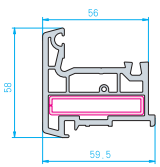
AD58  
CASEMENT SYSTEM

MD58  
CASEMENT SYSTEM

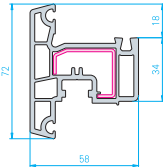
60AL  
CASEMENT SYSTEM

AD60COEX  
CASEMENT SYSTEM

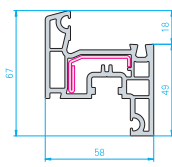
MD65  
CASEMENT SYSTEM



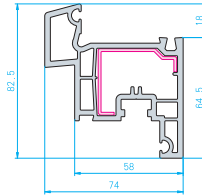
102.786 Movable mullion  
113.713 Steel reinforcement  
109.778 End Cap



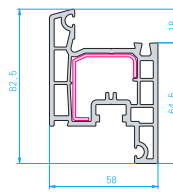
103.763 Window sash, outwards opening  
113.783 Steel reinforcement



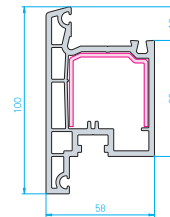
103.765 Window sash, inwards opening  
113.784 Steel reinforcement



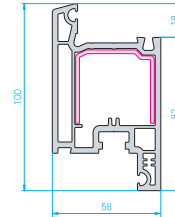
103.701 Window sash, inwards opening  
113.790 Steel reinforcement



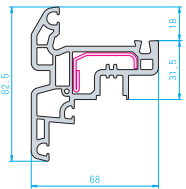
103.706 Window sash, inwards opening  
113.789 Steel reinforcement



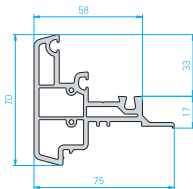
103.725 Door sash, outwards opening  
113.747.2 Steel reinforcement



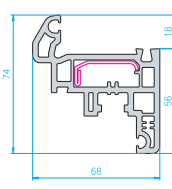
103.764 Door sash, inwards opening  
113.747.2 Steel reinforcement



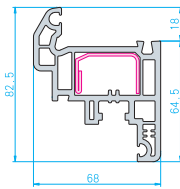
103.183 Movable mullion  
113.727 Steel reinforcement



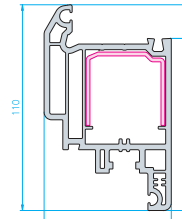
102.740 Movable mullion  
109.700 End cap



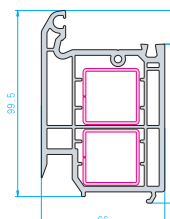
103.177 Window sash, inwards opening  
113.711 Steel reinforcement



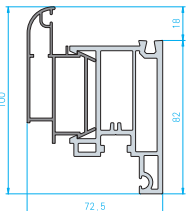
103.178 Window sash, inwards opening  
113.778 Steel reinforcement



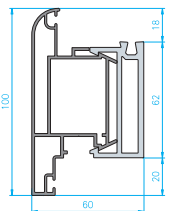
103.179 Door sash, inwards opening  
113.747.2 Steel reinforcement



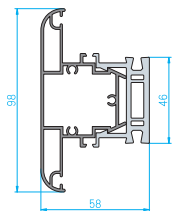
103.180 Sash profile  
113.719 Steel reinforcement



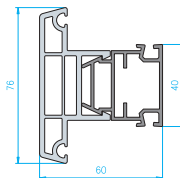
MD60 PVC-AL Door sash, inwards opening  
104.738+103.708



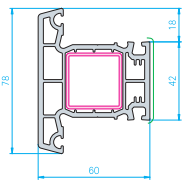
AD60 PVC-AL Door sash, outwards opening  
104.733+103.710



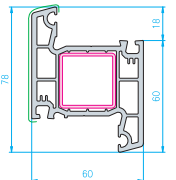
MD60 PVC-AL T-mullion, inwards opening  
104.721+102.711



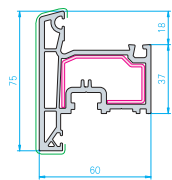
MD60 PVC-AL T-mullion, outwards opening  
102.712+104.724



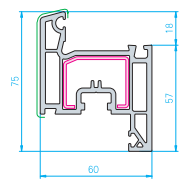
102.722 T-mullion, outwards opening (CO-EX)  
113.719 Steel reinforcement



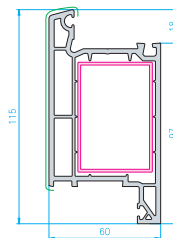
102.723 Z-mullion, outwards opening (CO-EX)  
113.719 Steel reinforcement



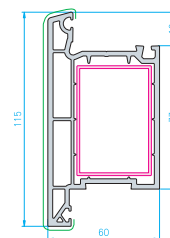
103.721 Window sash, outwards opening (CO-EX)  
113.791 Steel reinforcement



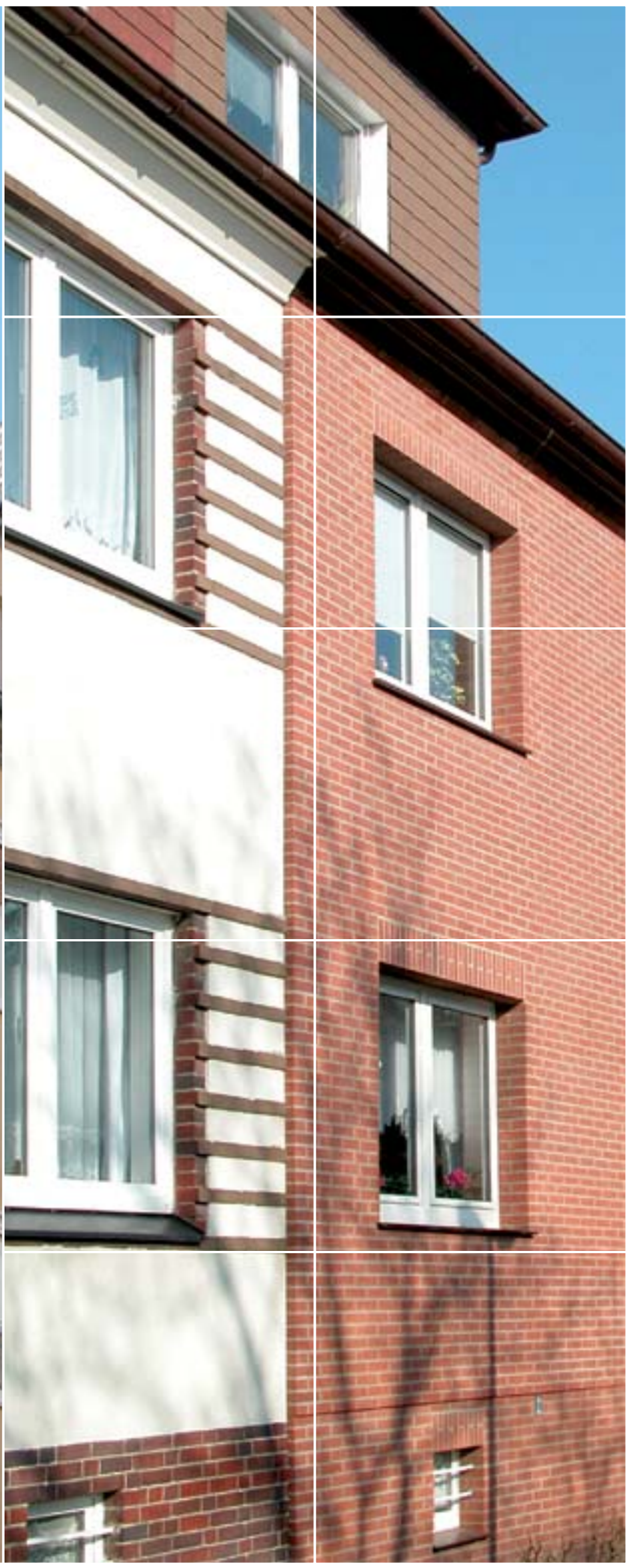
103.722 Window sash, inwards opening (CO-EX)  
113.782 Steel reinforcement



103.723 Door sash, inwards opening (CO-EX)  
113.734.2 Steel reinforcement



103.724 Door sash, outwards opening (CO-EX)  
113.734.2 Steel reinforcement





## AD50 Casement Window (Inwards Opening) System

### Application >>

Widely used in residential properties like condominiums, bungalows or villas, schools, hospitals and commercial settings like factories and business buildings. It's adherence to functional and performance requirements to international standards, wide range of applications and cost efficiency makes it an ideal choice in new construction, replacement and remodeling projects.

### Product Features >>

- 1> Main profile wall thickness is fully compliant to technical specifications set forth in European standards, EN 12608 - Class C.
- 2> Multiple chamber system design enhances heat and sound insulation properties.
- 3> Interchangeable glazing beads of different sizes from VEKA range for single or double glazing units installation.
- 4> Profile section and thickness are designed to minimize fabrication wastage and reduce window cost.

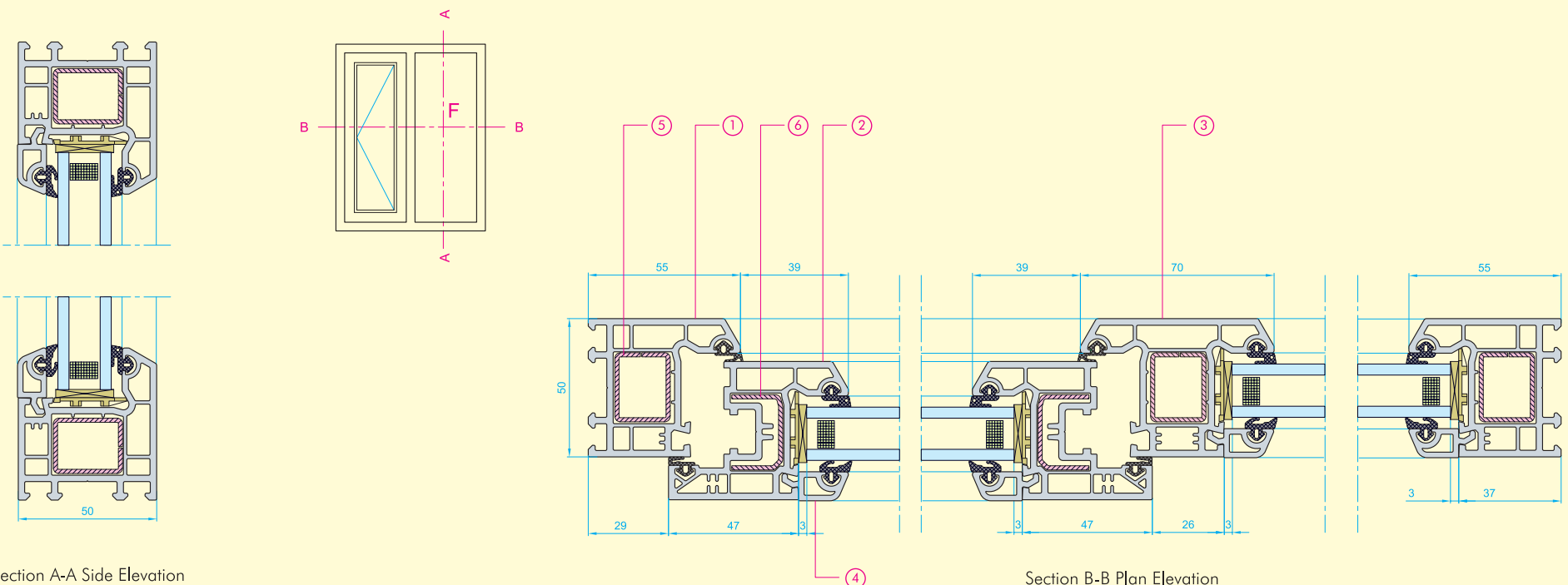
### Glazing Bead Assembly Table >>

| Glazing Bead | Glass Thickness (mm) |    |    |
|--------------|----------------------|----|----|
|              | 107.714              | 4  | 5  |
| 107.043      | 19                   | 20 | 21 |
| 107.717      | 20                   | 21 | 22 |

<Note> Glazing Gaskets: 112.750, 112.751

### Profiles & Accessories Table >>

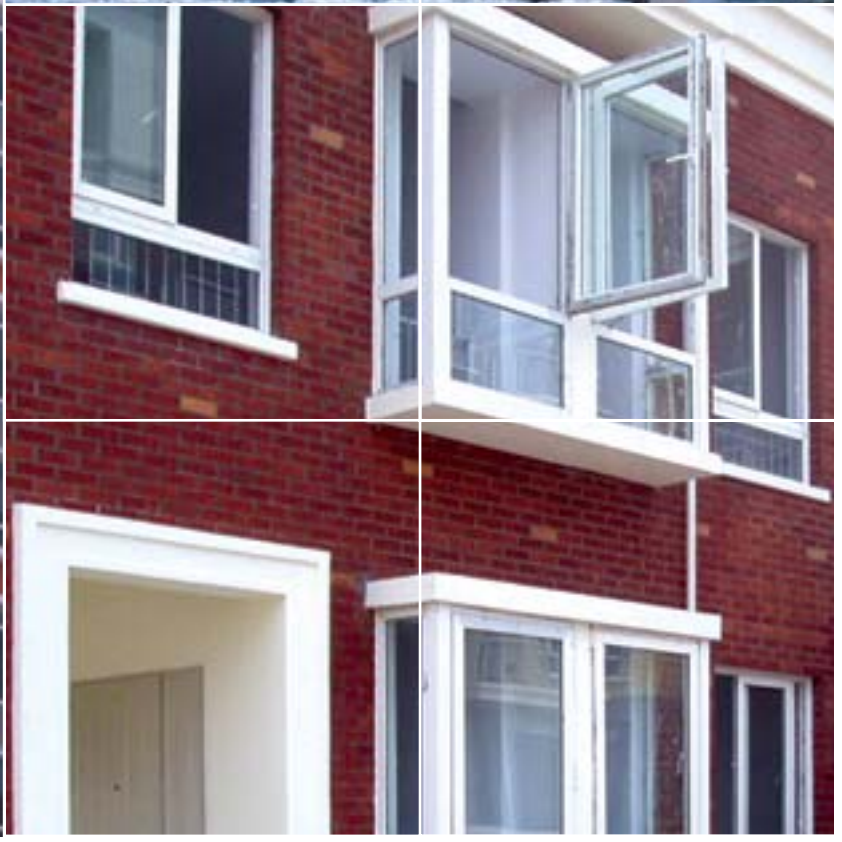
| Item | Article Nos./Description               | Specifications |
|------|--|----------------|
| 1    | 101.704 Window Frame                   | 55 x 50        |
| 2    | 103.704 Window Sash, Inwards Opening   | 65 x 50        |
| 3    | 102.706 T-Mullion                      | 70 x 50        |
| 4    | 107.043 Glazing Bead                   | 10.5 x 18      |
| 5    | 113.745 Galvanized Steel Reinforcement | 20 x 25 x 1.5  |
| 6    | 113.708 Galvanized Steel Reinforcement | 18 x 27 x 1.5  |



Section A-A Side Elevation

Section B-B Plan Elevation







## AD50 Casement Window (Outwards Opening) System

### Application >>

Widely used in residential properties like condominiums, bungalows or villas, schools, hospitals and commercial settings like factories and business buildings. It's adherence to functional and performance requirements to international standards, wide range of applications and cost efficiency makes it an ideal choice in new construction, replacement and remodeling projects.

### Product Features >>

- 1> Main profile wall thickness is fully compliant to technical specifications set forth in European standards, EN 12608 - Class C.
- 2> Multiple chamber system design enhances heat and sound insulation properties.
- 3> Interchangeable glazing beads of different sizes from VEKA range for single or double glazing units installation.
- 4> Profile section and thickness are designed to minimize fabrication wastage and reduce window cost.

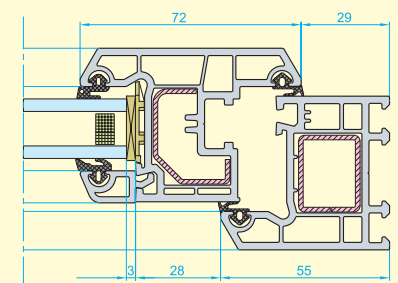
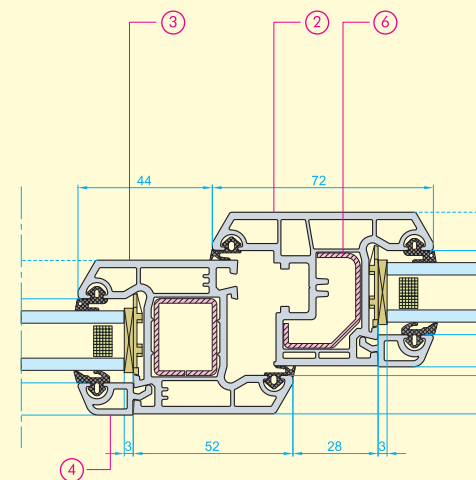
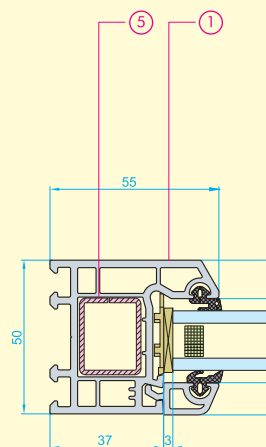
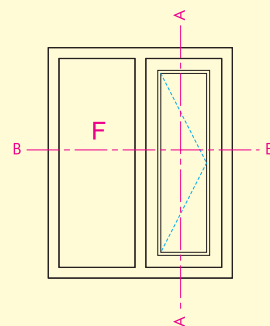
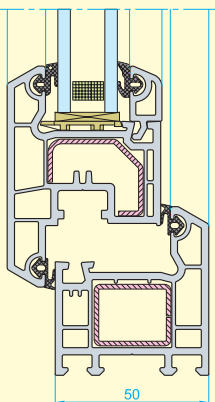
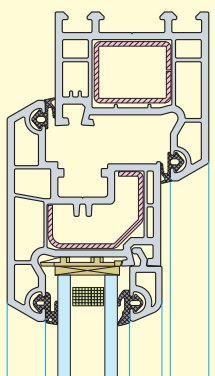
### Glazing Bead Assembly Table >>

| Glazing Bead | Glass Thickness (mm) |    |    |
|--------------|----------------------|----|----|
|              | 4                    | 5  | 6  |
| 107.714      | 4                    | 5  | 6  |
| 107.043      | 19                   | 20 | 21 |
| 107.717      | 20                   | 21 | 22 |

<Note> Glazing Gaskets: 112.750, 112.751

### Profiles & Accessories Table >>

| Item | Article Nos./Description               | Specifications  |
|------|--|-----------------|
| 1    | 101.704 Window Frame                   | 55 x 50         |
| 2    | 103.705 Window Sash, Outwards Opening  | 72 x 50         |
| 3    | 102.709 Z-Mullion                      | 70 x 50         |
| 4    | 107.043 Glazing Bead                   | 10.5 x 18       |
| 5    | 113.745 Galvanized Steel Reinforcement | 20 x 25 x 1.5   |
| 6    | 113.709 Galvanized Steel Reinforcement | 25 x 29.5 x 1.5 |



Section A-A Side Elevation

Section B-B Plan Elevation







## AD58 Casement Window (Inwards Opening) System

### Application >>

Widely used in residential properties like condominiums, bungalows or villas, schools, hospitals and commercial settings like factories and business buildings. It's adherence to functional and performance requirements to international standards and wide range of applications and bigger opening size recommendations makes it an ideal choice in new construction, replacement and remodeling projects.

### Product Features >>

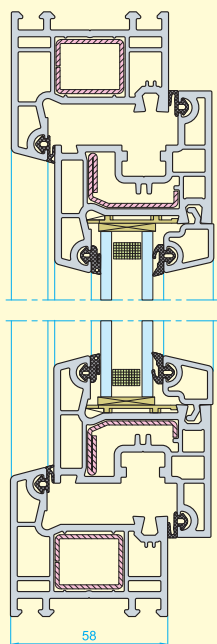
- 1> Main profile wall thickness of  $\geq 2.5\text{mm}$  is fully compliant to technical specifications set forth in European standards, EN 12608 - Class B.
- 2> Multiple chamber system design enhances heat and sound insulation properties.
- 3> Galvanized steel reinforcement of thickness  $\geq 1.5\text{ mm}$  imparts optimum stability to the window system.
- 4> It is capable of accommodating different glass thickness through the use of different sized glazing beads from the VEKA range.
- 5> Vacuum Spraying, color foil lamination and vacuum spray coating processes can be applied to the profile systems to satisfy the aesthetical needs for color co-ordinated windows in a development.

### Glazing Bead Assembly Table >>

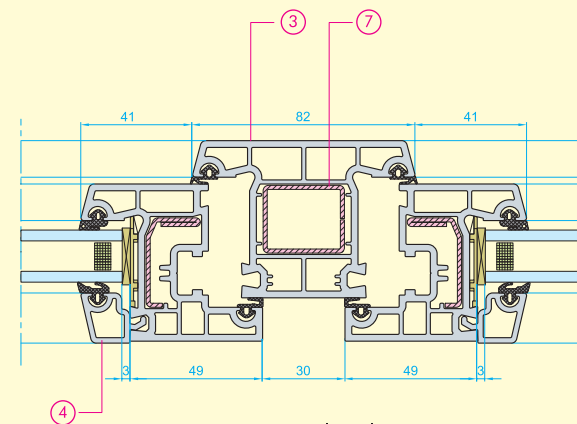
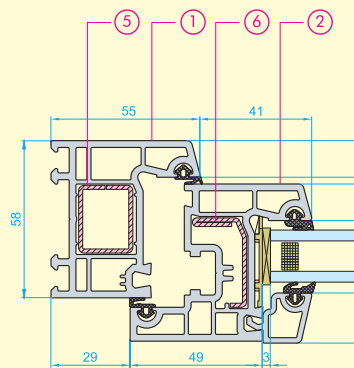
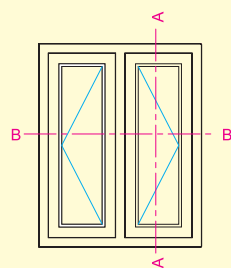
| Glazing Bead                             | Glass Thickness (mm) |    |    |
|--|----------------------|----|----|
| 107.734                                  | 4                    | 5  | 6  |
| 107.711                                  | 15                   | 16 | 17 |
| 107.736                                  | 19                   | 20 | 21 |
| 107.045                                  | 20                   | 21 | 22 |
| <Note> Glazing Gaskets: 112.750, 112.751 |                      |    |    |
| 107.043                                  | 24                   | 25 | 26 |
| <Note> Glazing Gaskets: 112.750, 112.753 |                      |    |    |

### Profiles & Accessories Table >>

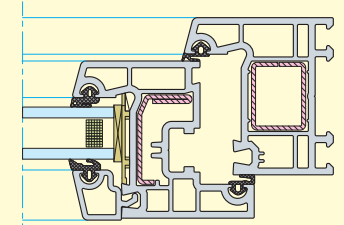
| Item | Article Nos./Description               | Specifications |
|------|--|----------------|
| 1    | 101.717 Window Frame                   | 55 x 58        |
| 2    | 103.765 Window Sash, Inwards Opening   | 67 x 58        |
| 3    | 102.735 T-Mullion                      | 82 x 58        |
| 4    | 107.736 Glazing Bead                   | 17.5 x 18      |
| 5    | 113.745 Galvanized Steel Reinforcement | 20 x 25 x 1.5  |
| 6    | 113.784 Galvanized Steel Reinforcement | 20 x 33 x 1.5  |
| 7    | 113.702 Galvanized Steel Reinforcement | 25 x 30 x 1.5  |



Section A-A Side Elevation



Section B-B Plan Elevation









## AD58 Casement Window (Outwards Opening) System

### Application >>

Widely used in residential properties like condominiums, bungalows or villas, schools, hospitals and commercial settings like factories and business buildings. It's adherence to functional and performance requirements to international standards and wide range of applications and bigger opening size recommendations makes it an ideal choice in new construction, replacement and remodeling projects.

### Product Features >>

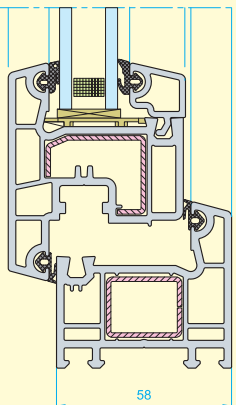
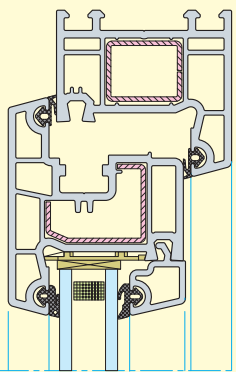
- 1> Main profile wall thickness of  $\geq 2.5\text{mm}$  is fully compliant to technical specifications set forth in European standards, EN 12608 - Class B.
- 2> Multiple chamber system design enhances heat and sound insulation properties.
- 3> Galvanized steel reinforcement of thickness  $\geq 1.5\text{ mm}$  imparts optimum stability to the window system.
- 4> It is capable of accommodating different glass thickness through the use of different sized glazing beads from the VEKA range.
- 5> Color foil lamination and vacuum spray coating processes can be applied to the profile systems to satisfy the aesthetical needs for color co-ordinated windows in a development.

### Glazing Bead Assembly Table >>

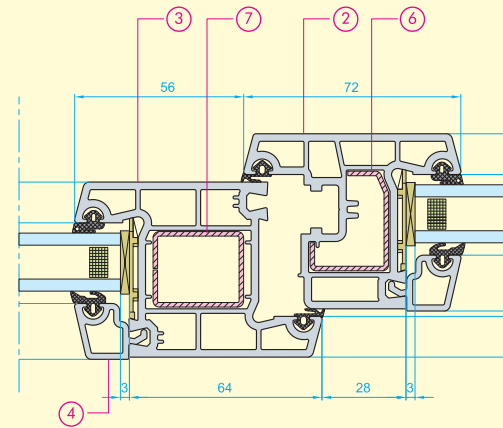
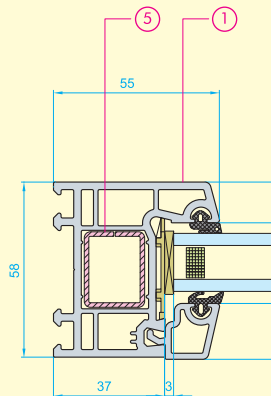
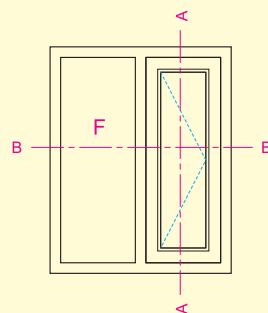
| Glazing Bead                             | Glass Thickness (mm) |    |    |
|--|----------------------|----|----|
|  | 107.734              | 4  | 5  |
| 107.711                                  | 15                   | 16 | 17 |
| 107.736                                  | 19                   | 20 | 21 |
| 107.045                                  | 20                   | 21 | 22 |
| <Note> Glazing Gaskets: 112.750, 112.751 |                      |    |    |
| 107.043                                  | 24                   | 25 | 26 |
| <Note> Glazing Gaskets: 112.750, 112.753 |                      |    |    |

### Profiles & Accessories Table >>

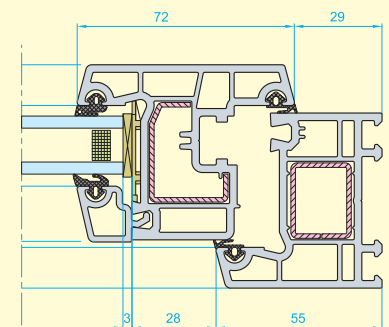
| Item | Article Nos./Description               | Specifications |
|------|--|----------------|
| 1    | 101.717 Window Frame                   | 55 x 58        |
| 2    | 103.763 Window Sash, Outwards Opening  | 72 x 58        |
| 3    | 102.736 Z-Mullion                      | 82 x 58        |
| 4    | 107.736 Glazing Bead                   | 17.5 x 18      |
| 5    | 113.745 Galvanized Steel Reinforcement | 20 x 25 x 1.5  |
| 6    | 113.783 Galvanized Steel Reinforcement | 26 x 33 x 1.5  |
| 7    | 113.702 Galvanized Steel Reinforcement | 25 x 30 x 1.5  |



Section A-A Side Elevation



Section B-B Plan Elevation









## AD58 Casement Door (Inwards Opening) System

### Application >>

Widely used in residential properties like condominiums, bungalows or villas, schools, hospitals and commercial settings like factories and business buildings. It's adherence to functional and performance requirements to international standards and wide range of applications makes it an ideal choice in new construction, replacement and remodeling projects.

### Product Features >>

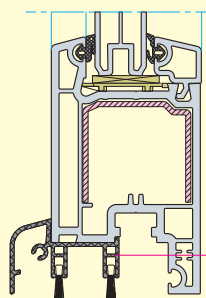
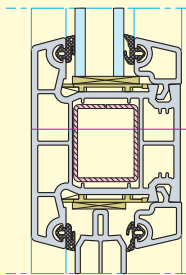
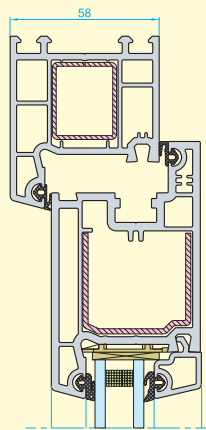
- 1> Main profile wall thickness of  $\geq 2.5$ mm is fully compliant to technical specifications set forth in European standards, EN 12608 - Class B.
- 2> Multiple chamber system design enhances heat and sound insulation properties.
- 3> Galvanized steel reinforcement of thickness  $\geq 2.0$  mm imparts optimum stability to the door system.
- 4> It is capable of accommodating different glass thickness through the use of different sized glazing beads from the VEKA range.
- 5> Color foil lamination and vacuum spray coating processes can be applied to the profile systems to satisfy the aesthetical needs for color co-ordinated windows in a development.

### Glazing Bead Assembly Table >>

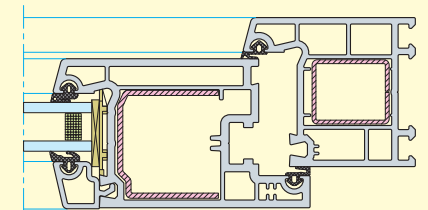
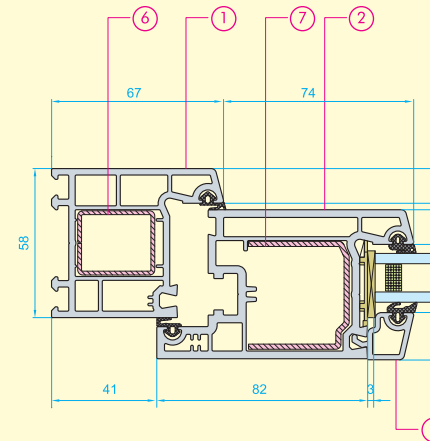
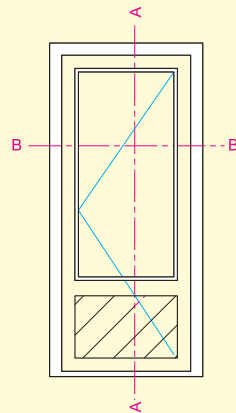
| Glazing Bead                             | Glass Thickness (mm) |    |    |
|--|----------------------|----|----|
| 107.734                                  | 4                    | 5  | 6  |
| 107.711                                  | 15                   | 16 | 17 |
| 107.736                                  | 19                   | 20 | 21 |
| 107.045                                  | 20                   | 21 | 22 |
| <Note> Glazing Gaskets: 112.750, 112.751 |                      |    |    |
| 107.043                                  | 24                   | 25 | 26 |
| <Note> Glazing Gaskets: 112.750, 112.753 |                      |    |    |

### Profiles & Accessories Table >>

| Item | Article Nos./Description                  | Specifications  |
|------|---|-----------------|
| 1    | 101.716 Door Frame                        | 67 x 58         |
| 2    | 103.764 Door Sash, Inwards Opening        | 100 x 58        |
| 3    | 102.735 T-Mullion                         | 82 x 58         |
| 4    | 104.716 Aluminum Drip Mould for Door Sash | 29.3 x 42.3     |
| 5    | 107.736 Glazing Bead                      | 17.5 x 18       |
| 6    | 113.702 Galvanized Steel Reinforcement    | 25 x 30 x 1.5   |
| 7    | 113.747.2 Galvanized Steel Reinforcement  | 42 x 39.2 x 2.0 |

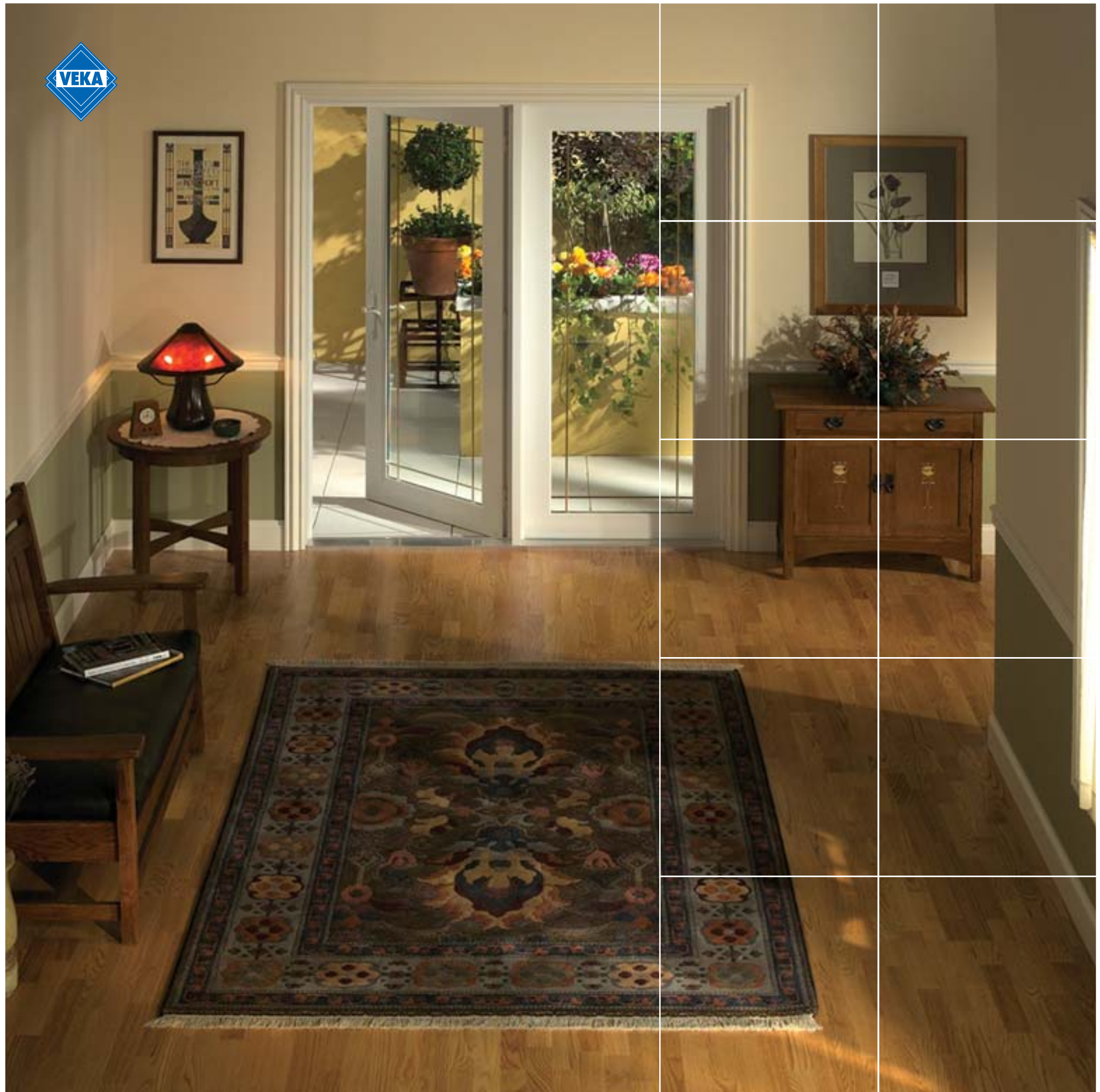


Section A-A Side Elevation



Section B-B Plan Elevation





## AD58 Casement Door (Outwards Opening) System

### Application >>

Widely used in residential properties like condominiums, bungalows or villas, schools, hospitals and commercial settings like factories and business buildings. It's adherence to functional and performance requirements to international standards and wide range of applications makes it an ideal choice in new construction, replacement and remodeling projects.

### Product Features >>

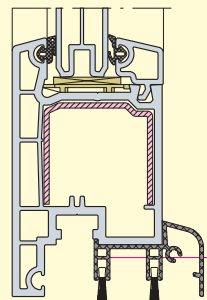
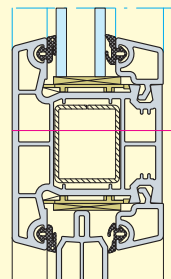
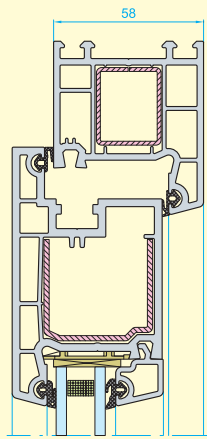
- 1> Main profile wall thickness of  $\geq 2.5\text{mm}$  is fully compliant to technical specifications set forth in European standards, EN 12608 - Class B.
- 2> Multiple chamber system design enhances heat and sound insulation properties.
- 3> Galvanized steel reinforcement of thickness  $\geq 2.0\text{ mm}$  imparts optimum stability to the door system.
- 4> It is capable of accommodating different glass thickness through the use of different sized glazing beads from the VEKA range.
- 5> Color foil lamination and vacuum spray coating processes can be applied to the profile systems to satisfy the aesthetic needs for color co-ordinated windows in a development.

### Glazing Bead Assembly Table >>

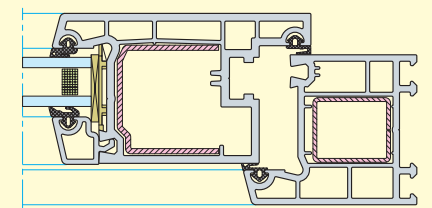
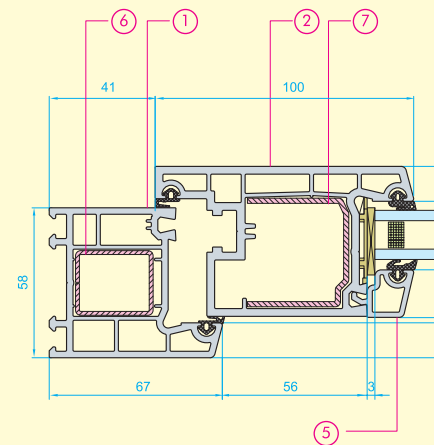
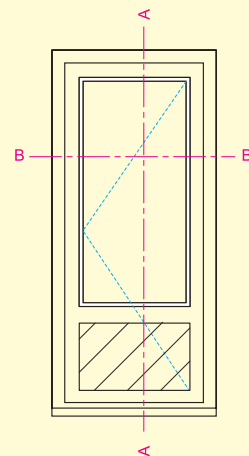
| Glazing Bead                             | Glass Thickness (mm) |    |    |
|--|----------------------|----|----|
| 107.734                                  | 4                    | 5  | 6  |
| 107.711                                  | 15                   | 16 | 17 |
| 107.736                                  | 19                   | 20 | 21 |
| 107.045                                  | 20                   | 21 | 22 |
| <Note> Glazing Gaskets: 112.750, 112.751 |                      |    |    |
| 107.043                                  | 24                   | 25 | 26 |
| <Note> Glazing Gaskets: 112.750, 112.753 |                      |    |    |

### Profiles & Accessories Table >>

| Item | Article Nos./Description                  | Specifications  |
|------|---|-----------------|
| 1    | 101.716 Door Frame                        | 67 x 58         |
| 2    | 103.725 Door Sash, Outwards Opening       | 100 x 58        |
| 3    | 102.735 T-Mullion                         | 82 x 58         |
| 4    | 104.716 Aluminum Drip Mould for Door Sash | 29.3 x 42.3     |
| 5    | 107.736 Glazing Bead                      | 17.5 x 18       |
| 6    | 113.702 Galvanized Steel Reinforcement    | 25 x 30 x 1.5   |
| 7    | 113.747.2 Galvanized Steel Reinforcement  | 42 x 39.2 x 2.0 |



Section A-A Side Elevation



Section B-B Plan Elevation







## MD58 Casement Window (Inwards Opening) System

### Application >>

It is especially suitable for use in building developments where climatic conditions in the vicinity or local building codes calls for a window system with higher than normal weather performance capabilities or when higher thermal and sound insulation properties is desired. Commonly used in high quality residential developments like condominiums, bungalows, villas, hotels and top grade commercial buildings.

### Product Features >>

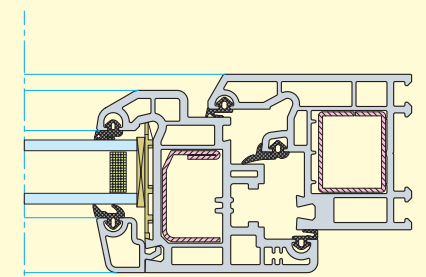
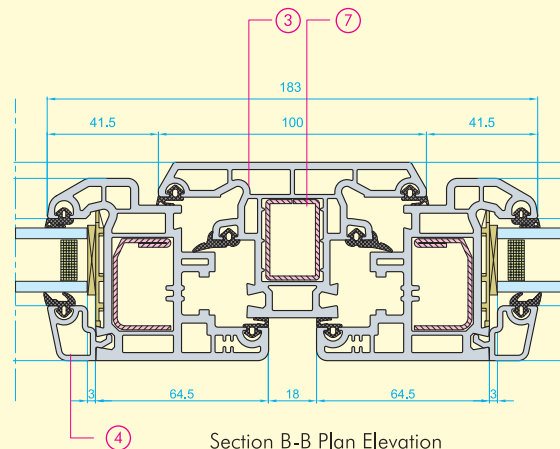
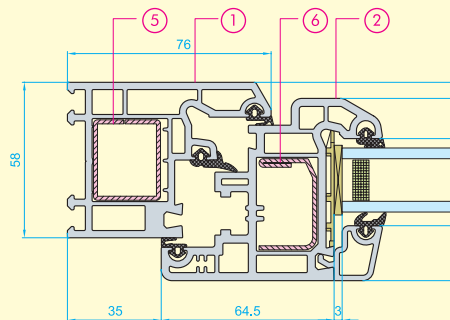
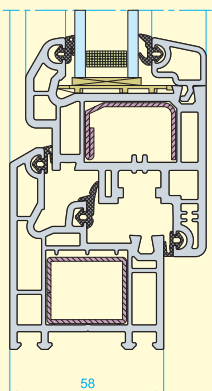
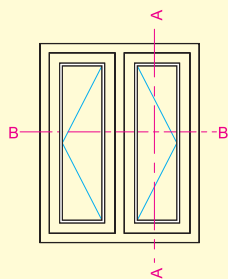
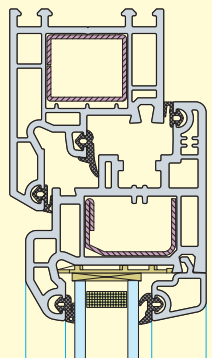
- 1> Fully compliant to all technical specifications as set forth in European standards, EN 12608- Class A. Main profile wall thickness is 3 mm.
- 2> Unique design features enhances the aesthetic appearance of this system.
- 3> Triple seal system design improves weather tightness performance of window.
- 4> Two different sashes are available with this system to cater for normal and bigger size windows.
- 5> Profile section design and wall thickness for this system provides optimum corner welding strength and impact performance at low temperature.
- 6> Profile glazing rebate is designed to accommodate not just double glazing but also triple glazing to further optimize heat and sound insulation properties.
- 7> Color foil lamination and vacuum spray coating processes can be applied to the profile systems to satisfy the aesthetic needs for color co-ordinated windows in a development.

### Glazing Bead Assembly Table >>

| Glazing Bead                             | Glass Thickness (mm) |    |    |
|--|----------------------|----|----|
| 107.792                                  | 16                   | 17 | 18 |
| 107.714                                  | 19                   | 20 | 21 |
| <Note> Glazing Gaskets: 112.750, 112.751 |                      |    |    |
| 107.711                                  | 22                   | 23 | 24 |
| 107.043                                  | 33                   | 34 | 35 |
| <Note> Glazing Gaskets: 112.750, 112.753 |                      |    |    |

### Profiles & Accessories Table >>

| Item | Article Nos./Description               | Specifications  |
|------|--|-----------------|
| 1    | 101.705 Window Frame                   | 76 x 58         |
| 2    | 103.178 Window Sash, Inwards Opening   | 82.5 x 68       |
| 3    | 102.708 T-Mullion                      | 100 x 58        |
| 4    | 107.044 Glazing Bead                   | 20.5 x 18       |
| 5    | 113.702 Galvanized Steel Reinforcement | 25 x 30 x 1.5   |
| 6    | 113.778 Galvanized Steel Reinforcement | 21.5 x 34 x 1.5 |
| 7    | 113.725 Galvanized Steel Reinforcement | 20 x 30 x 1.5   |



Section A-A Side Elevation

Section B-B Plan Elevation







## MD58 Casement Door (Inwards Opening) System

### Application >>

It is especially suitable for use in building developments where climatic conditions in the vicinity or local building codes calls for a window system with higher than normal weather performance capabilities or when higher thermal and sound insulation properties is desired. Commonly used in high quality residential developments like condominiums, bungalows, villas, hotels and top grade commercial buildings.

### Product Features >>

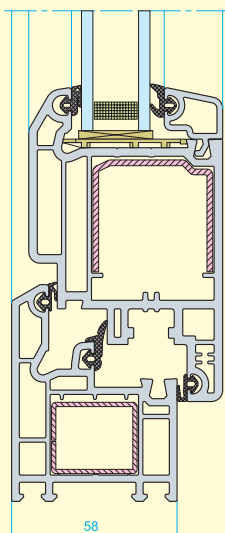
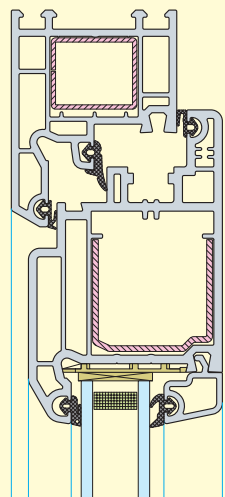
- 1> Fully compliant to all technical specifications as set forth in European standards, EN 12608 - Class A. Main profile wall thickness is 3 mm.
- 2> Unique design features enhances the aesthetic appearance of this system.
- 3> Triple seal system design improves weather tightness performance of window, especially suitable in areas with cold climates.
- 4> Profile section design and wall thickness for this system provides optimum corner welding strength and impact performance at low temperature.
- 5> Profile glazing rebate is designed to accommodate not just double glazing but also triple glazing to further optimize heat and sound insulation properties.
- 6> Color foil lamination and vacuum spray coating processes can be applied to the profile systems to satisfy the aesthetical needs for color co-ordinated windows in a development.

### Glazing Bead Assembly Table >>

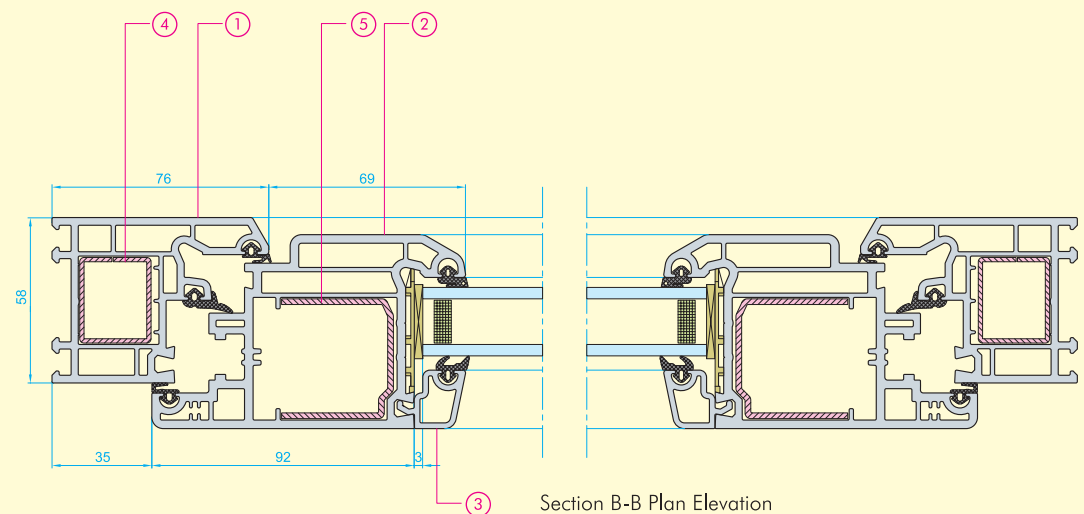
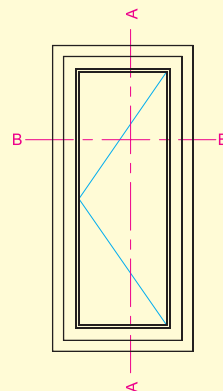
| Glazing Bead                             | Glass Thickness (mm) |    |    |
|--|----------------------|----|----|
| 107.792                                  | 16                   | 17 | 18 |
| 107.714                                  | 19                   | 20 | 21 |
| <Note> Glazing Gaskets: 112.750, 112.751 |                      |    |    |
| 107.711                                  | 22                   | 23 | 24 |
| 107.043                                  | 33                   | 34 | 35 |
| <Note> Glazing Gaskets: 112.750, 112.753 |                      |    |    |

### Profiles & Accessories Table >>

| Item | Article Nos./Description                 | Specifications  |
|------|--|-----------------|
| 1    | 101.705 Door Frame                       | 76 x 58         |
| 2    | 103.179 Door Sash, Inwards Opening       | 110 x 68        |
| 3    | 107.044 Glazing Bead                     | 20.5 x 18       |
| 4    | 113.702 Galvanized Steel Reinforcement   | 25 x 30 x 1.5   |
| 5    | 113.747.2 Galvanized Steel Reinforcement | 42 x 39.2 x 2.0 |



Section A-A Side Elevation



Section B-B Plan Elevation







## MD65 Casement Window (Inwards Opening) System

### Application >>

It is especially suitable for use in building developments where climatic conditions in the vicinity or local building codes calls for a window system with higher than normal weather performance capabilities or when higher thermal and sound insulation properties is desired. Commonly used in high quality residential developments like condominiums, bungalows, villas, hotels and top grade commercial buildings.

### Product Features >>

- 1> Fully compliant to all technical specifications as set forth in European standards, EN 12608 - Class A. Main profile wall thickness is 3 mm.
- 2> Triple seal system design improves weather tightness performance of window, especially suitable in areas with cold climates.
- 3> Larger chamber design for steel reinforcement enhances wind-resistant capabilities of main profile.
- 4> Two different window sashes, i.e. surface flush and surface staggered sashes are available to satisfy different aesthetic appearance from the outside.
- 5> Large, multiple chambered profile section design with the ample wall thickness imparts higher heat insulation properties to this system.
- 6> Color foil lamination and vacuum spray coating processes can be applied to the profile systems to satisfy the aesthetic needs for color co-ordinated windows in a development.

### Glazing Bead Assembly Table >>

Sash 703.005:

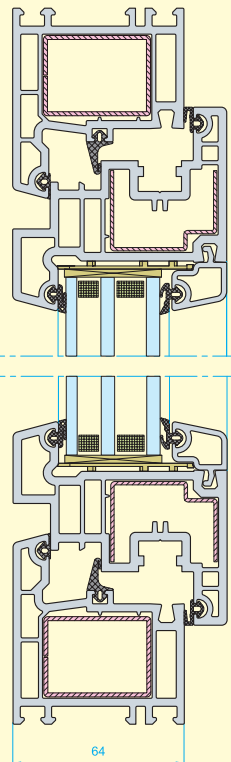
| Glazing Bead                             | Glass Thickness (mm) |    |    |
|--|----------------------|----|----|
| 107.714                                  | 19                   | 20 | 21 |
| <Note> Glazing Gaskets: 112.750, 112.751 |                      |    |    |
| 107.711                                  | 22                   | 23 | 24 |
| 107.043                                  | 33                   | 34 | 35 |
| <Note> Glazing Gaskets: 112.750, 112.753 |                      |    |    |

Sash 703.006:

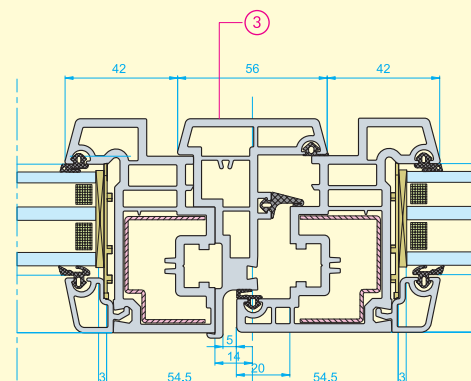
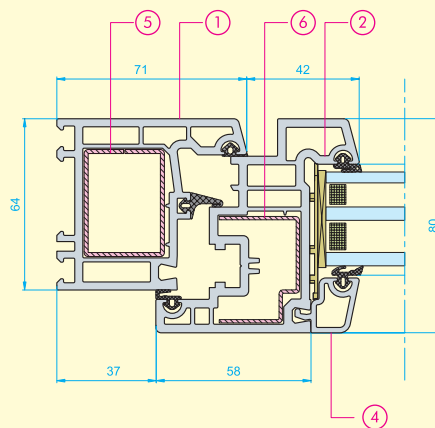
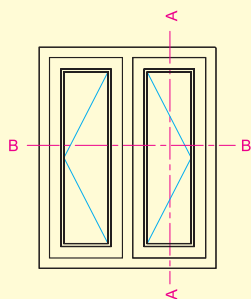
| Glazing Bead                             | Glass Thickness (mm) |    |    |
|--|----------------------|----|----|
| 107.734                                  | 22                   | 23 | 24 |
| 107.714                                  | 29                   | 30 | 31 |
| 107.711                                  | 33                   | 34 | 35 |
| <Note> Glazing Gaskets: 112.750, 112.751 |                      |    |    |

### Profiles & Accessories Table >>

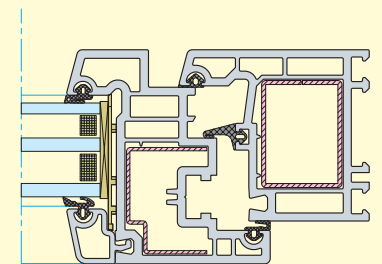
| Item | Article Nos./Description               | Specifications    |
|------|--|-------------------|
| 1    | 701.012 Window Frame                   | 71 x 64           |
| 2    | 703.006 Window Sash, Inwards Opening   | 76 x 80           |
| 3    | 702.014 Movable Mullion                | 56 x 64           |
| 4    | 107.714 Glazing Bead                   | 25.5 x 18         |
| 5    | 113.729 Galvanized Steel Reinforcement | 30 x 40 x 1.5     |
| 6    | 113.730 Galvanized Steel Reinforcement | 29.4 x 39.8 x 1.5 |



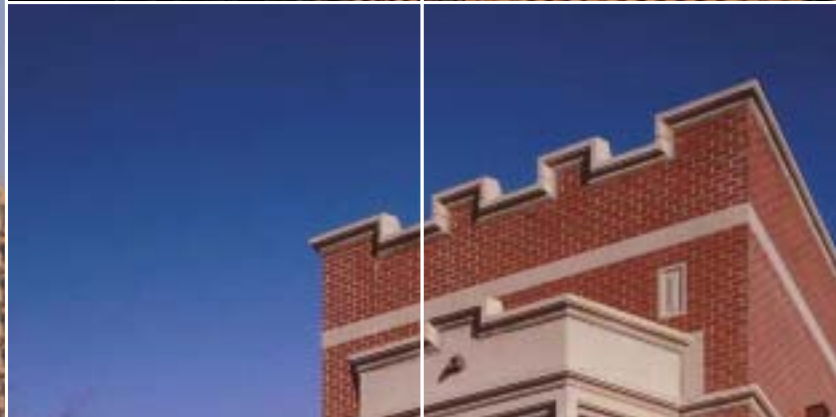
Section A-A Side Elevation



Section B-B Plan Elevation











## AD60AL Casement Window (Outwards Opening) System

### Application >>

Suitable for use in retrofitting projects where there is a requirement to maintain uniformity of colors on the exterior facades. Combination of the benefits of both u-PVC and aluminum makes this composite system also suitable for new constructions where optimum focus is placed on weathering performance, heat, sound insulation and wind loading. It is widely used in high end condominiums, apartment buildings, bungalows or villas and hotels or resorts, especially those located near coastal areas. Also used in high rise commercial buildings to satisfy the rigorous requirements on weathering performance..

### Product Features >>

- 1> This composite u-PVC and aluminum profile design imparts higher inertia strength to the profile system.
- 2> The multiple chamber design improves heat and sound insulation properties.
- 3> The exterior surface of Aluminum is powder coated with imported thermosetting powder and comes in a variety of colors to suit varying needs on color schemes for different building developments.
- 4> Unique crimping process effectively provides a composite system with the benefits of aluminum on the outside and the thermal efficiency of u-PVC on the inside.
- 5> System is capable of accepting a wide variety of single, double and even triple glaze units.

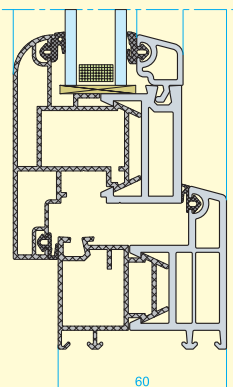
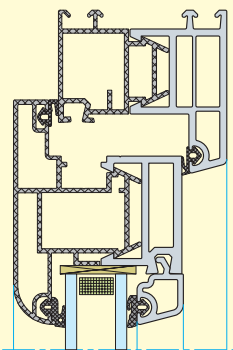
### Glazing Bead Assembly Table >>

| Glazing Bead | Glass Thickness (mm) |    |    |
|--------------|----------------------|----|----|
| 107.734      | 4                    | 5  | 6  |
| 107.736      | 19                   | 20 | 21 |
| 107.045      | 20                   | 21 | 22 |

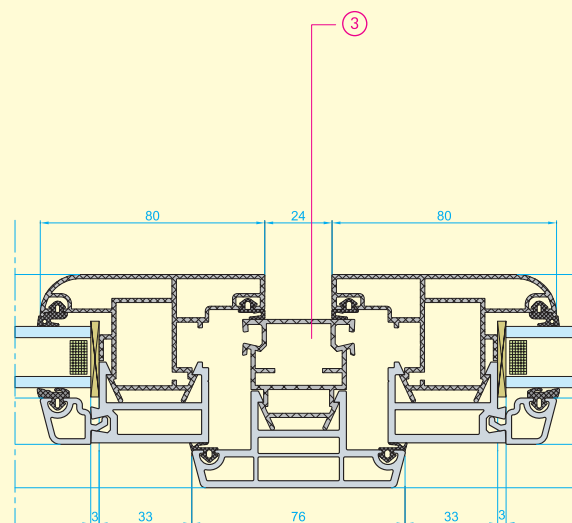
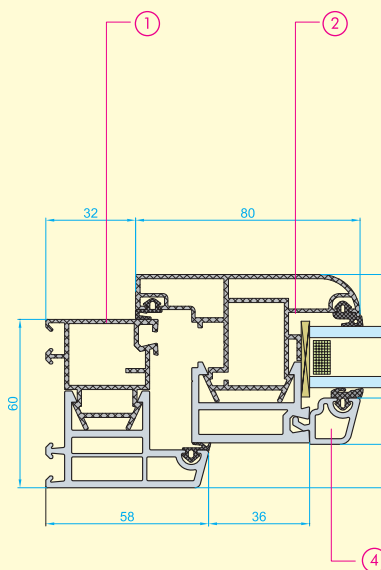
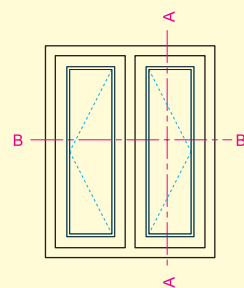
<Note> Glazing Gaskets: 112.750, 112.733

### Profiles & Accessories Table >>

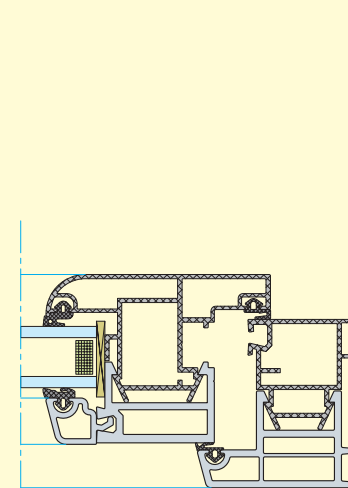
| Item | Article Nos./Description                                   | Specifications |
|------|--|----------------|
| 1    | 101.709+104.722 AD60 PVC-AL Window Frame, Outwards Opening | 58 x 60        |
| 2    | 103.709+104.732 AD60 PVC-AL Window Sash, Outwards Opening  | 80 x 60        |
| 3    | 102.712+104.724 AD60 PVC-AL T-Mullion, Outwards Opening    | 76 x 60        |
| 4    | 107.045 Glazing Bead                                       | 16.5 x 18      |



Section A-A Side Elevation



Section B-B Plan Elevation











## AD60AL Casement Door (Outwards Opening) System

### Application >>

Suitable for use in retrofitting projects where there is a requirement to maintain uniformity of colors on the exterior facades. Combination of the benefits of both u-PVC and aluminum makes this composite system also suitable for new constructions where optimum focus is placed on weathering performance, heat, sound insulation and wind loading. It is widely used in high end condominiums, apartment buildings, bungalows or villas and hotels or resorts, especially those located near coastal areas. Also used in high rise commercial buildings to satisfy the rigorous requirements on weathering performance.

### Product Features >>

- 1> This composite u-PVC and aluminum profile design imparts higher inertia strength to the profile system.
- 2> The multiple chamber design strengthens heat-insulation and sound insulation properties.
- 3> The exterior surface of Aluminum is powder coated with imported thermosetting powder and comes in a variety of colors to suit varying needs on color schemes for different building developments.
- 4> Unique crimping process effectively provides a composite system with the benefits of aluminum on the outside and the thermal efficiency of u-PVC on the inside.
- 5> System is capable of accepting a wide variety of single, double and even triple glaze units.

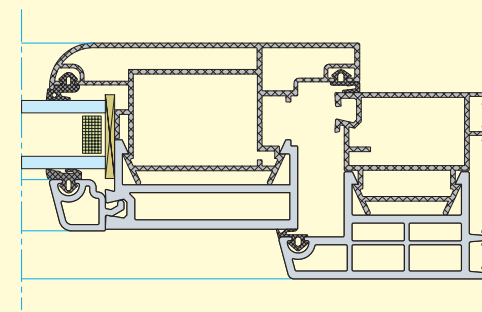
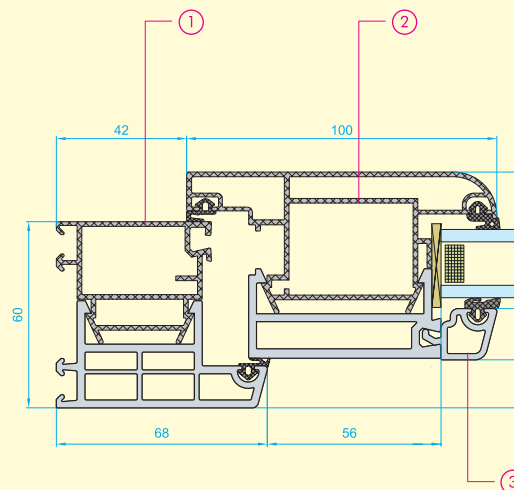
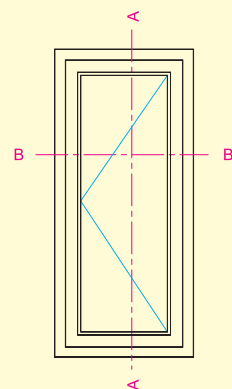
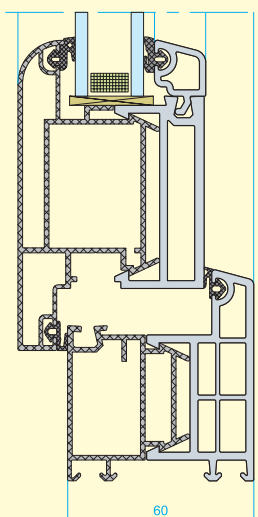
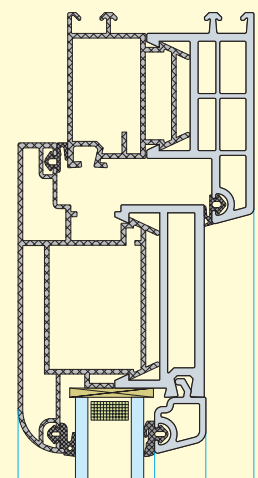
### Glazing Bead Assembly Table >>

| Glazing Bead | Glass Thickness (mm) |    |    |
|--------------|----------------------|----|----|
| 107.734      | 4                    | 5  | 6  |
| 107.736      | 19                   | 20 | 21 |
| 107.045      | 20                   | 21 | 22 |

<Note> Glazing Gaskets: 112.750, 112.733

### Profiles & Accessories Table >>

| Item | Article Nos./Description                                 | Specifications |
|------|--|----------------|
| 1    | 101.710+104.723 AD60 PVC-AL Door Frame, Outwards Opening | 68 x 60        |
| 2    | 103.710+104.733 AD60 PVC-AL Door Sash, Outwards Opening  | 100 x 60       |
| 3    | 107.045 Glazing Bead                                     | 16.5 x 18      |



Section A-A Side Elevation

Section B-B Plan Elevation







## MD60AL Casement Window (Inwards Opening) System

### Application >>

Suitable for use in retrofitting projects where there is a requirement to maintain uniformity of colors on the exterior facades. Combination of the benefits of both u-PVC and aluminum makes this composite system suitable for new constructions and retrofitting projects where optimum focus is placed on weathering performance, heat, sound insulation and wind loading. It is widely used in high end condominiums, apartment buildings, bungalows or villas and hotels or resorts especially those located near coastal areas. Also used in high rise commercial buildings to satisfy the rigorous requirements on weathering performance.

### Product Features >>

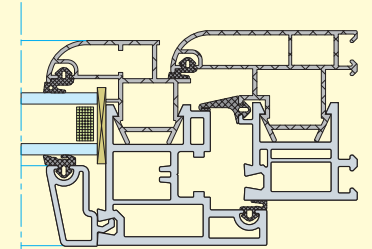
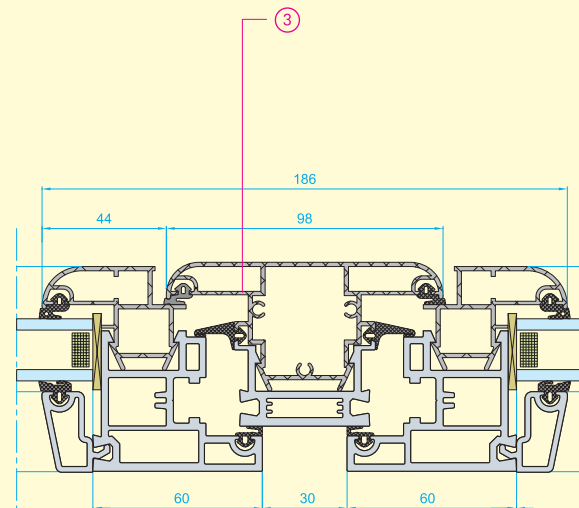
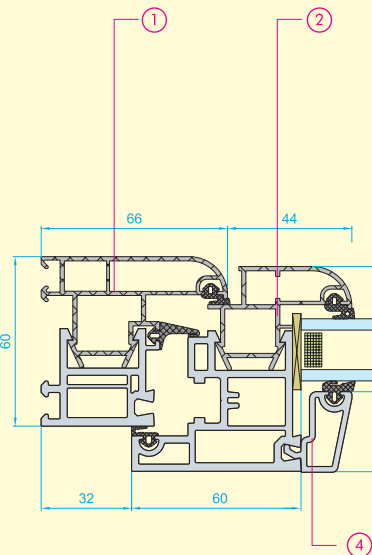
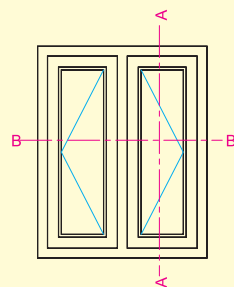
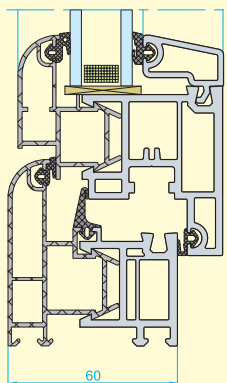
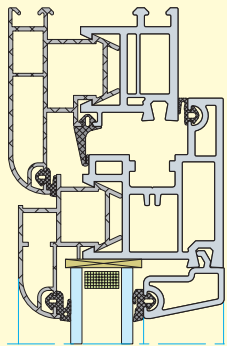
- 1> This composite u-PVC and aluminum profile design imparts higher inertia strength to the profile system.
- 2> The multiple chamber design strengthens heat and sound insulation properties.
- 3> Triple seal system design further improves weather tightness performance of this system.
- 4> The exterior surface of Aluminum is powder coated with imported thermosetting powder and comes in a variety of colors to suit varying needs on color schemes for different building developments.
- 5> Unique crimping process effectively provides a composite system with the benefits of aluminum on the outside and the thermal efficiency of u-PVC on the inside.
- 6> System is capable of accepting a wide variety of single, double and even triple glaze units.

### Glazing Bead Assembly Table >>

| Glazing Bead                             | Glass Thickness (mm) |    |    |
|--|----------------------|----|----|
| 107.734                                  | 17                   | 18 | 19 |
| 107.792                                  | 21                   | 22 | 23 |
| 107.714                                  | 24                   | 25 | 26 |
| 107.045                                  | 33                   | 34 | 35 |
| <Note> Glazing Gaskets: 112.750, 112.733 |                      |    |    |

### Profiles & Accessories Table >>

| Item | Article Nos./Description                                     | Specifications |
|------|--|----------------|
| 1    | 101.707 + 104.727 MD 60 PVC-AL Window Frame, Inwards Opening | 66 x 60        |
| 2    | 103.707 + 104.737 MD 60 PVC-AL Window Sash, Inwards Opening  | 78 x 72.5      |
| 3    | 102.711 + 104.721 MD 60 PVC-AL T-Mullion, Inwards Opening    | 98 x 58        |
| 4    | 107.792 Glazing Bead   | 28.5 x 18      |



Section A-A Side Elevation

Section B-B Plan Elevation









## MD60AL Casement Door (Inwards Opening) System

### Application >>

Suitable for use in retrofitting projects where there is a requirement to maintain uniformity of colors on the exterior facades. Combination of the benefits of both u-PVC and aluminum makes this composite system suitable for new constructions and retrofitting projects where optimum focus is placed on weathering performance, heat, sound insulation and wind loading. It is widely used in high end condominiums, apartment buildings, bungalows or villas and hotels or resorts especially those located near coastal areas. Also used in high rise commercial buildings to satisfy the rigorous requirements on weathering performance.

### Product Features >>

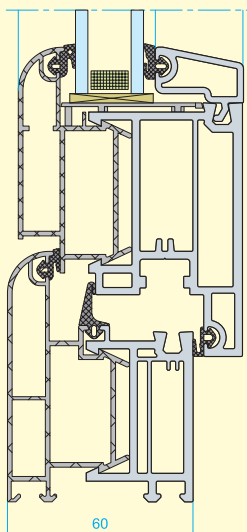
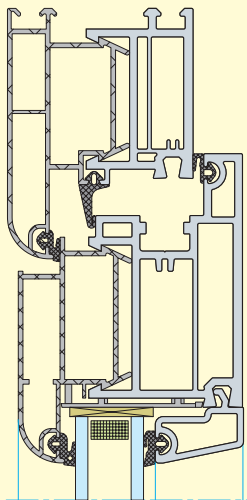
- 1> This composite u-PVC and aluminum profile design imparts higher inertia strength to the profile system.
- 2> The multiple chamber design strengthens heat and sound insulation properties.
- 3> Triple seal system design further improves weather tightness performance of this system.
- 4> The exterior surface of Aluminum is powder coated with imported thermosetting powder and comes in a variety of colors to suit varying needs on color schemes for different building developments.
- 5> Unique crimping process effectively provides a composite system with the benefits of aluminum on the outside and the thermal efficiency of u-PVC on the inside.
- 6> System is capable of accepting a wide variety of single, double and even triple glaze units.

### Glazing Bead Assembly Table >>

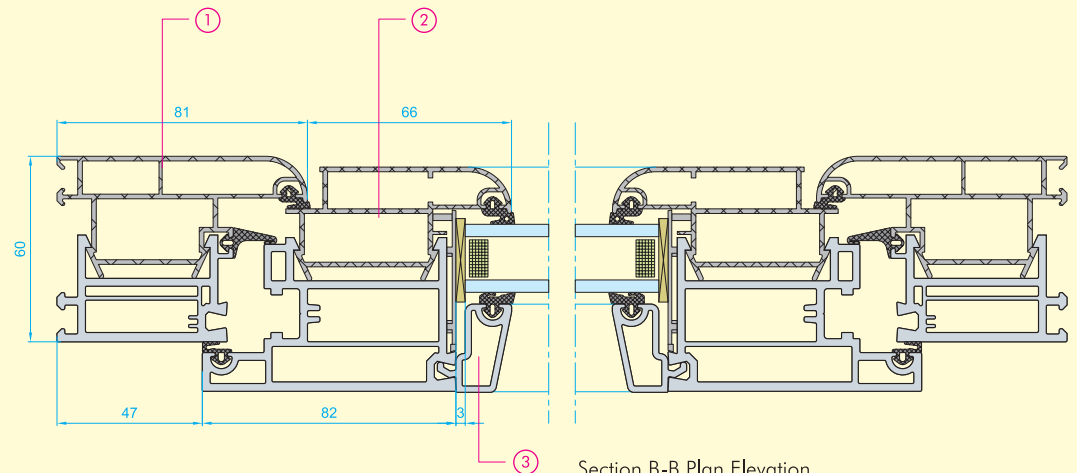
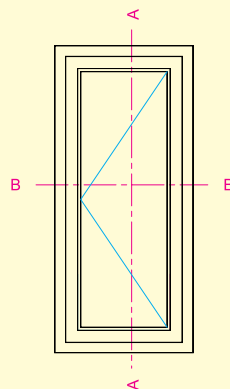
| Glazing Bead                             | Glass Thickness (mm) |    |    |
|--|----------------------|----|----|
| 107.734                                  | 17                   | 18 | 19 |
| 107.792                                  | 21                   | 22 | 23 |
| 107.714                                  | 24                   | 25 | 26 |
| 107.045                                  | 33                   | 34 | 35 |
| <Note> Glazing Gaskets: 112.750, 112.733 |                      |    |    |

### Profiles & Accessories Table >>

| Item | Article Nos./Description                                 | Specifications |
|------|--|----------------|
| 1    | 101.708+104.728 MD 60 PVC-AL Door Frame, Inwards Opening | 81 x 60        |
| 2    | 103.708+104.738 MD 60 PVC-AL Door Sash, Inwards Opening  | 100 x 72.5     |
| 3    | 107.792 Glazing Bead                                     | 28.5 x 18      |



Section A-A Side Elevation



Section B-B Plan Elevation







## AD60COEX Casement Window (Inwards Opening) System

### Application >>

Ideal for new construction or retrofit projects with specified color scheme requirements on the exterior facades. It is widely used in high end condominiums and apartment buildings, bungalows or villas, hotels or resorts to further accentuate the design features of building structures. Also used in high rise commercial buildings to satisfy the rigorous requirements on weathering performance. Applied in interiors to provide 2 color choices on internal and external face of windows.

### Product Features >>

- 1> Fully compliant to all technical specifications as set forth in European standards, EN 12608 - Class A. Main profiles' wall thickness is  $\geq 2.8\text{mm}$ .
- 2> The multiple chamber design enhances heat and sound insulation properties.
- 3> Galvanized steel reinforcement of thickness  $\geq 1.5\text{ mm}$  imparts optimum stability to the system.
- 4> Frame to sash cavity of 13mm meets installation requirements of latest German hardware.
- 5> External colored surface is co-extruded using new ground breaking material with excellent impact strength and weather resistance.

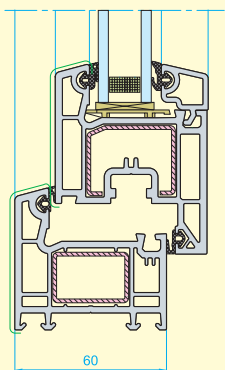
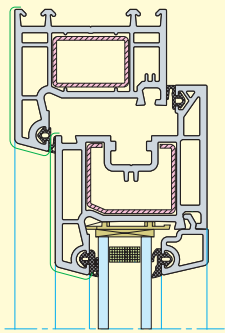
### Glazing Bead Assembly Table >>

| Glazing Bead | Glass Thickness (mm) |    |    |
|--------------|----------------------|----|----|
|              | 5                    | 6  | 7  |
| 107.735      | 5                    | 6  | 7  |
| 107.044      | 18                   | 19 | 20 |
| 107.045      | 22                   | 23 | 24 |

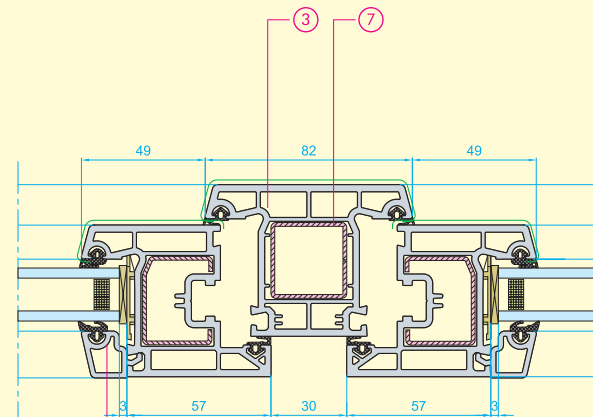
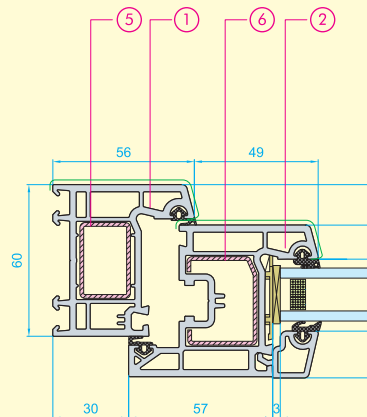
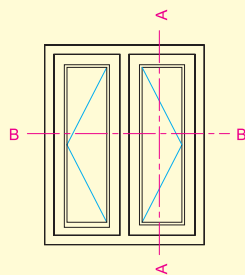
<Note> Glazing Gaskets: 112.750, 112.751

### Profiles & Accessories Table >>

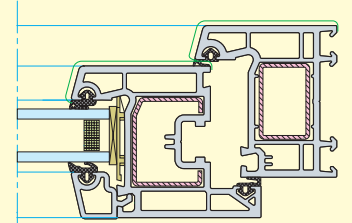
| Item | Article Nos./Description               | Specifications  |
|------|--|-----------------|
| 1    | 101.722 Window Frame, Inwards Opening  | 56 x 60         |
| 2    | 103.722 Window Sash, Inwards Opening   | 75 x 60         |
| 3    | 102.721 T-Mullion, Inwards Opening     | 82 x 60         |
| 4    | 107.044 Glazing Bead                   | 20.5 x 18       |
| 5    | 113.725 Galvanized Steel Reinforcement | 20 x 30 x 1.5   |
| 6    | 113.782 Galvanized Steel Reinforcement | 35 x 27.4 x 1.5 |
| 7    | 113.719 Galvanized Steel Reinforcement | 30 x 30 x 1.5   |



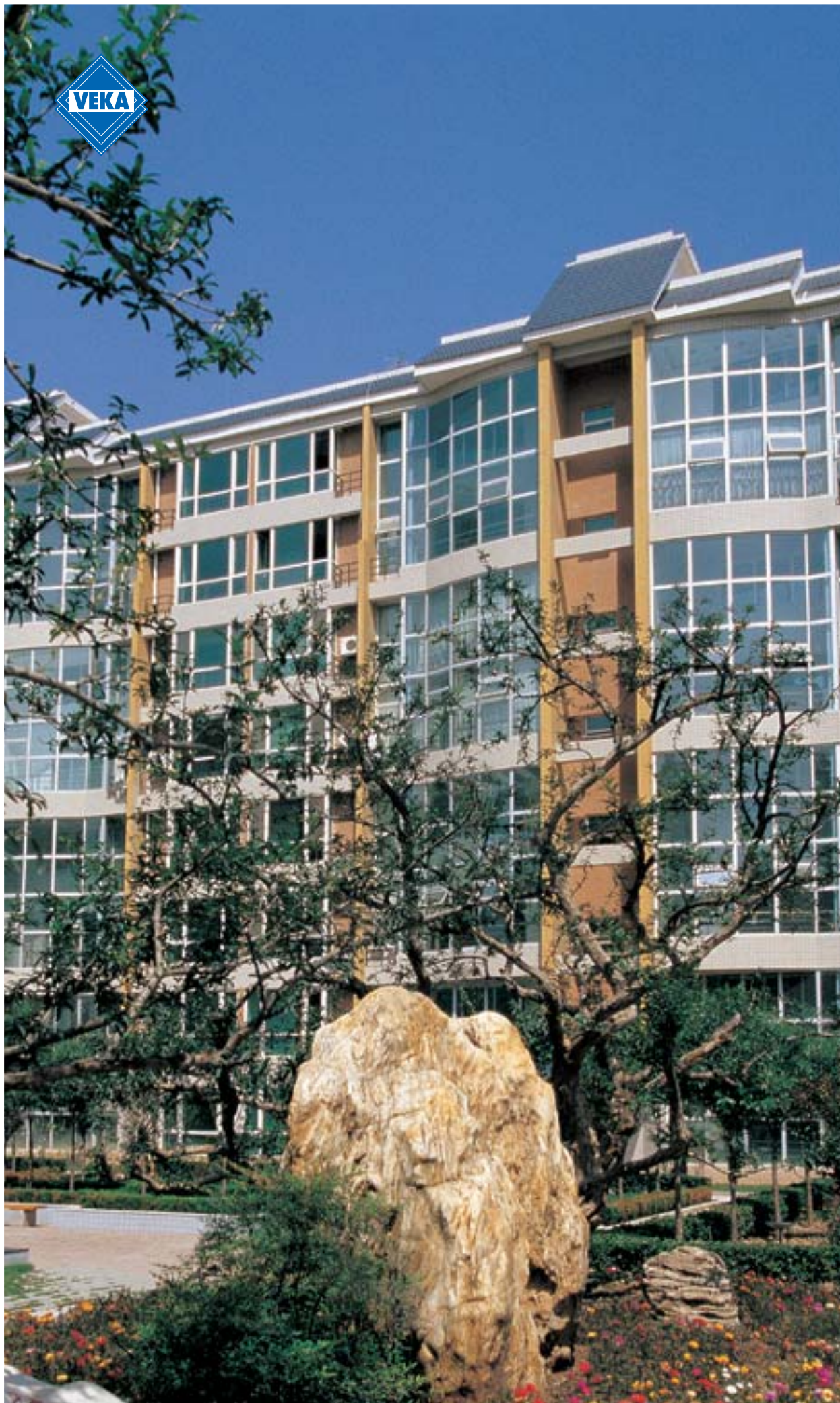
Section A-A Side Elevation



Section B-B Plan Elevation









## AD60COEX Casement Window (Outwards Opening) System

### Application >>

Ideal for new construction or retrofit projects with specified color scheme requirements on the exterior facades. It is widely used in high end condominiums and apartment buildings, bungalows or villas, hotels or resorts to further accentuate the design features of building structures. Also used in high rise commercial buildings to satisfy the rigorous requirements on weathering performance. Applied in interiors to provide 2 color choices on internal and external face of windows.

### Product Features >>

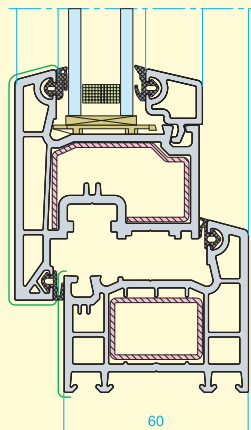
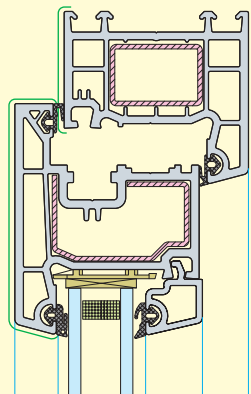
- 1> Fully compliant to all technical specifications as set forth in European standards, EN 12608 - Class A. Main profiles' wall thickness is  $\geq 2.8\text{mm}$
- 2> The multiple chamber design enhances heat-insulation and sound insulation properties.
- 3> Galvanized steel reinforcement of thickness  $\geq 1.5\text{ mm}$  imparts optimum stability to the system.
- 4> Frame to sash cavity of 13mm meets installation requirements of latest German hardware.
- 5> External colored surface is co-extruded using new ground breaking material with excellent impact strength and weather resistance.

### Glazing Bead Assembly Table >>

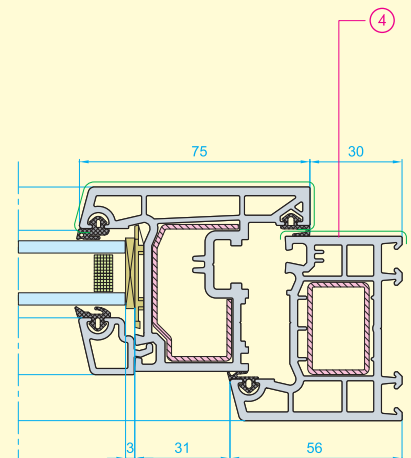
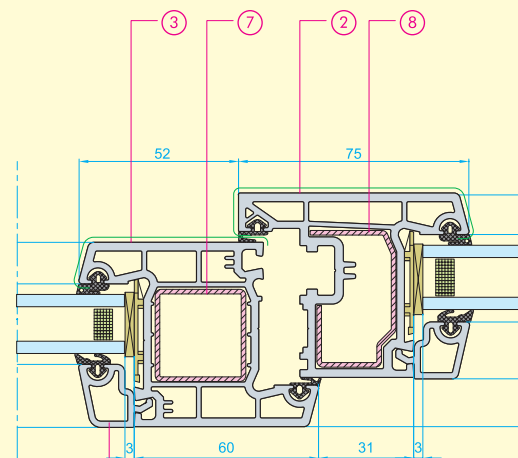
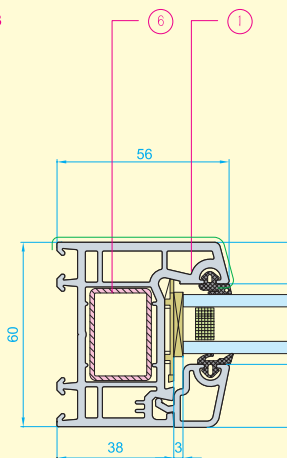
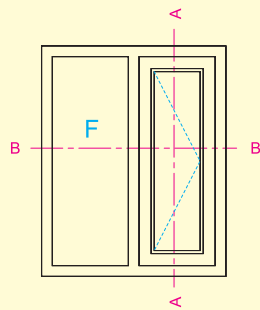
| Glazing Bead                             | Glass Thickness (mm) |    |    |
|--|----------------------|----|----|
| 107.735                                  | 5                    | 6  | 7  |
| 107.044                                  | 18                   | 19 | 20 |
| 107.045                                  | 22                   | 23 | 24 |
| <Note> Glazing Gaskets: 112.750, 112.751 |                      |    |    |

### Profiles & Accessories Table >>

| Item | Article Nos./Description               | Specifications  |
|------|--|-----------------|
| 1    | 101.722 Window Frame, Inwards Opening  | 56 x 60         |
| 2    | 103.721 Window Sash, Outwards Opening  | 75 x 60         |
| 3    | 102.723 Z-Mullion, Outwards Opening    | 78 x 60         |
| 4    | 101.723 Window Frame, Outwards Opening | 56 x 60         |
| 5    | 107.044 Glazing Bead                   | 20.5 x 18       |
| 6    | 113.725 Galvanized Steel Reinforcement | 20 x 30 x 1.5   |
| 7    | 113.719 Galvanized Steel Reinforcement | 30 x 30 x 1.5   |
| 8    | 113.791 Galvanized Steel Reinforcement | 44.5 x 28 x 1.5 |



Section A-A Side Elevation



5

Section B-B Plan Elevation







## AD60COEX Casement Door (Inwards Opening) System

### Application >>

Ideal for new construction or retrofit projects with specified color scheme requirements on the exterior facades. It is widely used in high end condominiums and apartment buildings, bungalows or villas, hotels or resorts to further accentuate the design features of building structures. Also used in high rise commercial buildings to satisfy the rigorous requirements on weathering performance. Applied in interiors to provide 2 color choices on internal and external face of doors.

### Product Features >>

- 1> Fully compliant to all technical specifications as set forth in European standards, EN 12608- Class A. Main profiles' wall thickness is  $\geq 2.8$ mm
- 2> The multiple chamber design enhances heat-insulation and sound insulation properties.
- 3> Galvanized steel reinforcement of thickness  $\geq 2.0$  mm imparts optimum stability to the system.
- 4> Frame to sash cavity of 13mm meets installation requirements of latest German hardware.
- 5> External colored surface is co-extruded using new ground breaking material with excellent impact strength and weather resistance.

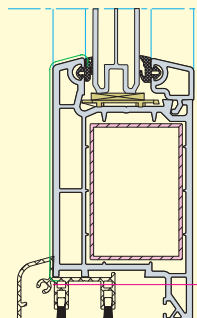
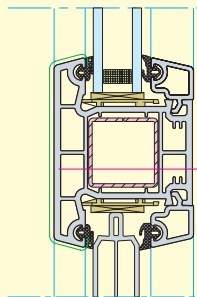
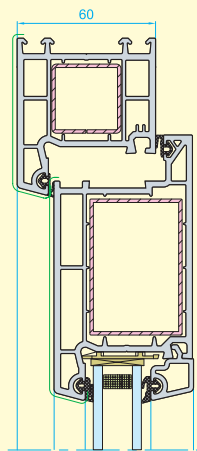
### Glazing Bead Assembly Table >>

| Glazing Bead | Glass Thickness (mm) |    |    |
|--------------|----------------------|----|----|
| 107.735      | 5                    | 6  | 7  |
| 107.044      | 18                   | 19 | 20 |
| 107.045      | 22                   | 23 | 24 |

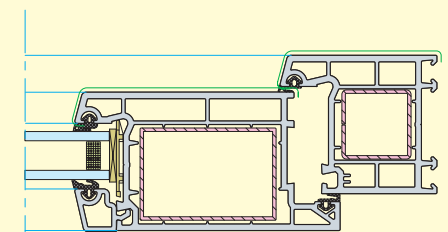
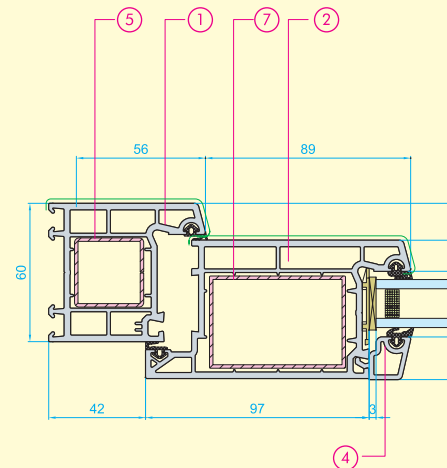
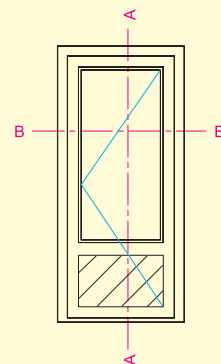
<Note> Glazing Gaskets: 112.750, 112.751

### Profiles & Accessories Table >>

| Item | Article Nos./Description                  | Specifications |
|------|---|----------------|
| 1    | 101.724 Door Frame, Inwards Opening       | 68 x 60        |
| 2    | 103.723 Door Sash, Inwards Opening        | 115 x 60       |
| 3    | 102.721 T-Mullion, Inwards Opening        | 82 x 60        |
| 4    | 107.044 Glazing Bead                      | 20.5 x 18      |
| 5    | 113.719 Galvanized Steel Reinforcement    | 30 x 30 x 1.5  |
| 6    | 104.716 Aluminum Drip Mould for Door Sash | 29.3 x 42.3    |
| 7    | 113.734.2 Galvanized Steel Reinforcement  | 40 x 59 x 2.0  |



Section A-A Side Elevation



Section B-B Plan Elevation









## AD60COEX Casement Door (Outwards Opening) System

### Application >>

Ideal for new construction or retrofit projects with specified color scheme requirements on the exterior facades. It is widely used in high end condominiums and apartment buildings, bungalows or villas, hotels or resorts to further accentuate the design features of building structures. Also used in high rise commercial buildings to satisfy the rigorous requirements on weathering performance. Applied in interiors to provide 2 color choices on internal and external face of doors.

### Product Features >>

- 1> Fully compliant to all technical specifications as set forth in European standards, EN 12608 - Class A. Main profiles' wall thickness is  $\geq 2.8\text{mm}$
- 2> The multiple chamber design enhances heat and sound insulation properties.
- 3> Galvanized steel reinforcement of thickness  $\geq 2.0\text{ mm}$  imparts optimum stability to the system.
- 4> Frame to sash cavity of 13mm meets installation requirements of latest German hardware.
- 5> External colored surface is co-extruded using new ground breaking material with excellent impact strength and weather resistance.

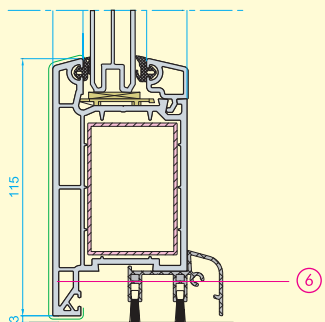
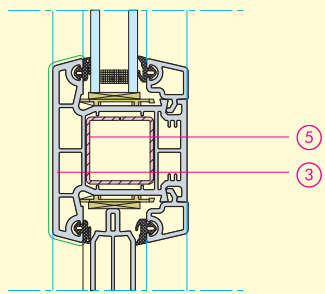
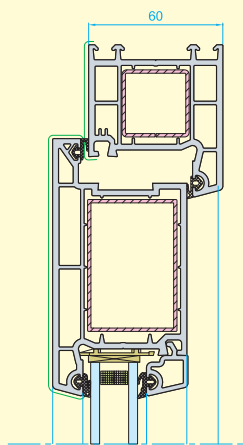
### Glazing Bead Assembly Table >>

| Glazing Bead | Glass Thickness (mm) |    |    |
|--------------|----------------------|----|----|
| 107.735      | 5                    | 6  | 7  |
| 107.044      | 18                   | 19 | 20 |
| 107.045      | 22                   | 23 | 24 |

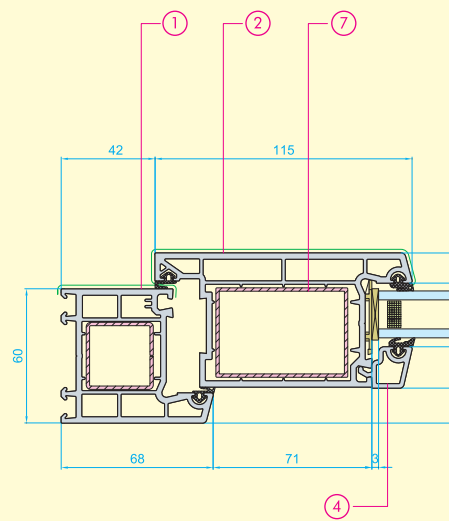
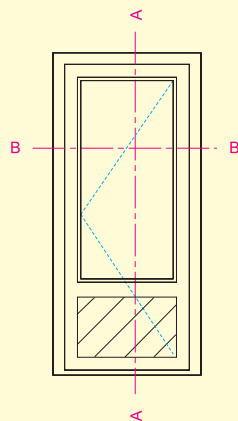
<Note> Glazing Gaskets: 112.750, 112.751

### Profiles & Accessories Table >>

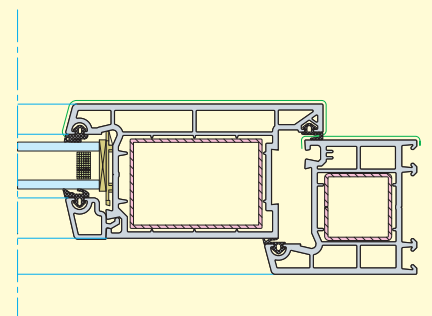
| Item | Article Nos./Description                  | Specifications |
|------|---|----------------|
| 1    | 101.725 Door Frame, Outwards Opening      | 68 x 60        |
| 2    | 103.724 Door Sash, Outwards Opening       | 115 x 60       |
| 3    | 102.721 T-Mullion, Inwards Opening        | 82 x 60        |
| 4    | 107.044 Glazing Bead                      | 20.5 x 18      |
| 5    | 113.719 Galvanized Steel Reinforcement    | 30 x 30 x 1.5  |
| 6    | 104.716 Aluminum Drip Mould for Door Sash | 29.3 x 42.3    |
| 7    | 113.734.2 Galvanized Steel Reinforcement  | 40 x 59 x 2.0  |



Section A-A Side Elevation



Section B-B Plan Elevation









# Crank Operated Outwards Opening Window System

## Application >>

It is ideal for new construction and retrofit projects and is commonly used in private landed housing developments like, detached houses, village type housing developments, bungalows, villas, resorts/boutique style hotels etc. The systems' compliance to various performance specific criteria makes it an ideal first choice in current construction market.

## Product Features >>

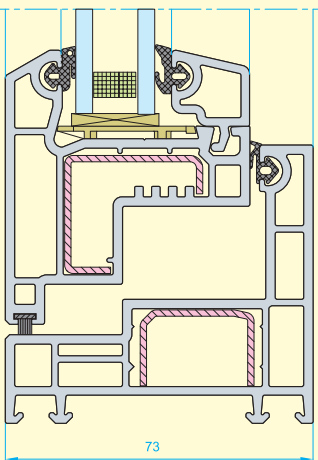
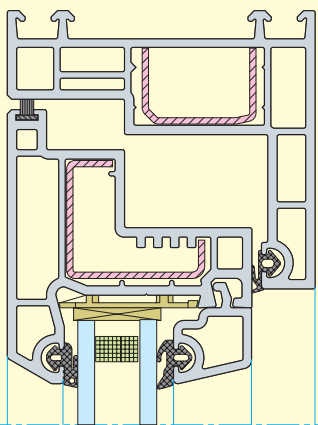
- 1> Main profiles section design and wall thickness is fully compliant with requirements for American window systems.
- 2> The multiple chamber design enhances heat and sound insulation properties.
- 3> The use of specially designed hardware allows for unique crank operated window functions, different from conventional casements and sliders.
- 4> Steel reinforcement thickness of 1.5 mm provides higher inertia strength to the window system as well as facilitates installation of hardware.

## Glazing Bead Assembly Table >>

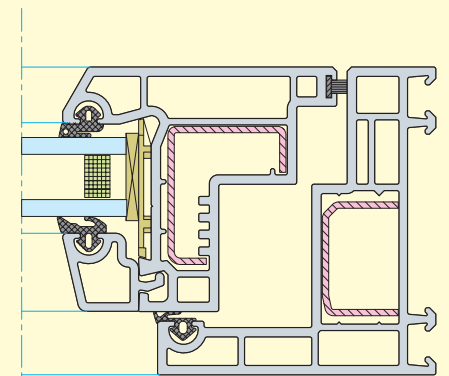
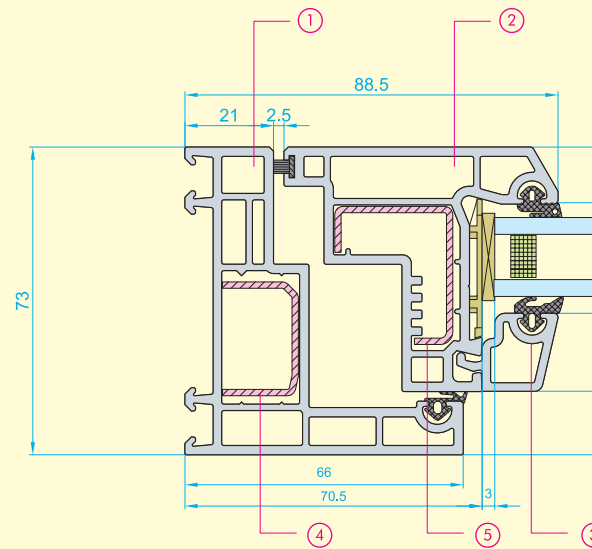
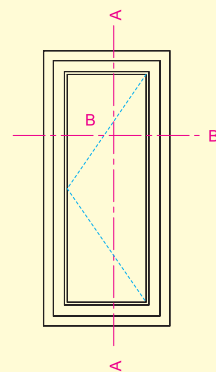
| Glazing Bead                             | Glass Thickness (mm) |    |    |
|--|----------------------|----|----|
|  | 107.734              | 4  | 5  |
| 107.736                                  | 19                   | 20 | 21 |
| <Note> Glazing Gaskets: 112.750, 112.751 |                      |    |    |

## Profiles & Accessories Table >>

| No. | Article Nos./Description               | Specifications  |
|-----|--|-----------------|
| 1   | 101.733 Window Frame, Outwards Opening | 66 x 73         |
| 2   | 103.732 Window Sash, Outwards Opening  | 65 x 58         |
| 3   | 107.736 Glazing Bead                   | 17.5 x 18       |
| 4   | 113.708 Steel Reinforcement            | 18 x 27 x 1.5   |
| 5   | 113.781 Steel Reinforcement            | 28 x 32.7 x 1.5 |



Section A-A Side Elevation



Section B-B Plan Elevation