



# TECHNICAL CATALOGUE

## **ALUMINIUM**

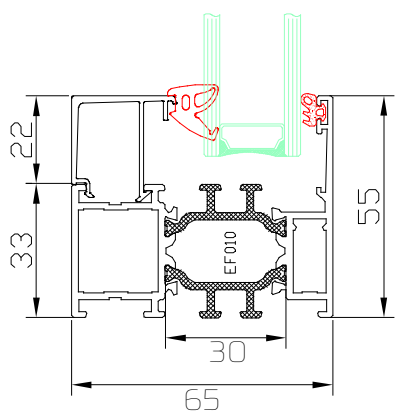




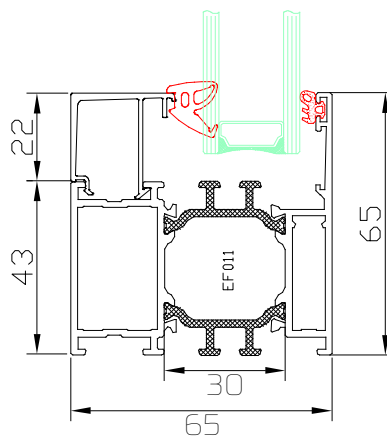
|                       |    |
|-----------------------|----|
| DA-65 EF              | 4  |
| DA-65 EFUS            | 20 |
| DA-70C                | 30 |
| DA-77                 | 32 |
| DA-90 THERMO          | 53 |
| DA-77 HST             | 64 |
| DA-40 ST              | 69 |
| DA-51 ST              | 72 |
| DA-51 HST             | 80 |
| DA-77N PANEL DOORS    | 91 |
| DA-77 FD FOLDING DOOR | 93 |



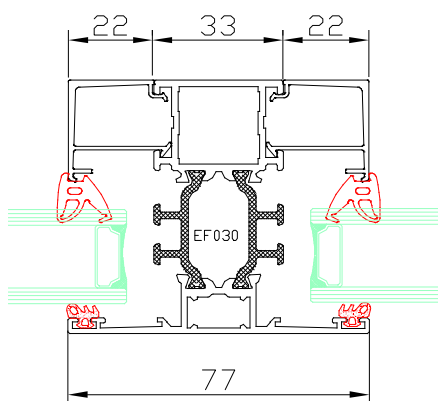
**DA-65 EF**



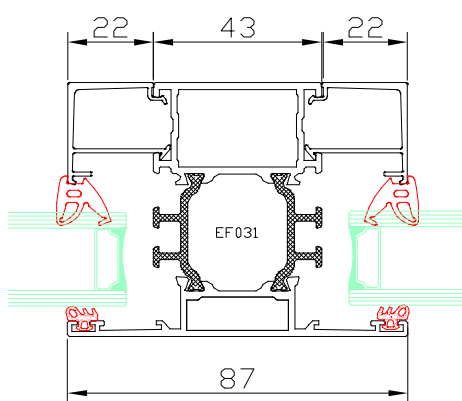
DA-65 EF  
Fixed window  
Frame: EF010



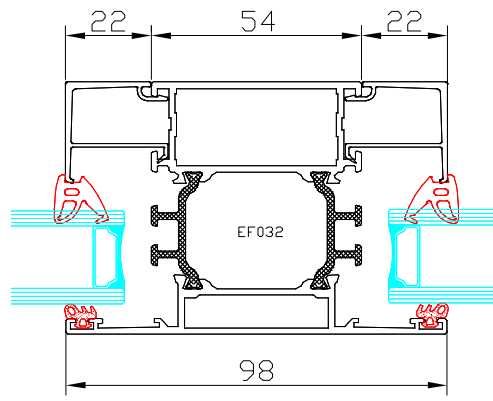
DA-65 EF  
Fixed window  
Frame: EF011 - for roller shutters



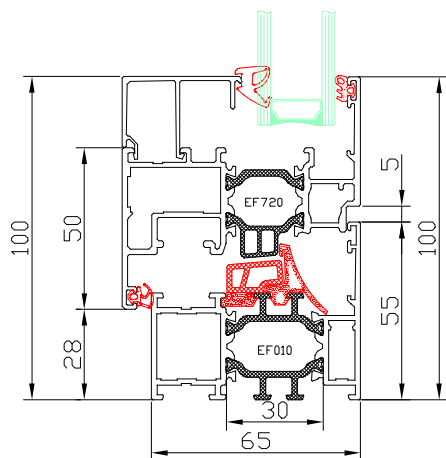
DA-65 EF  
Crossbar - Fixed window  
Mullion: EF030



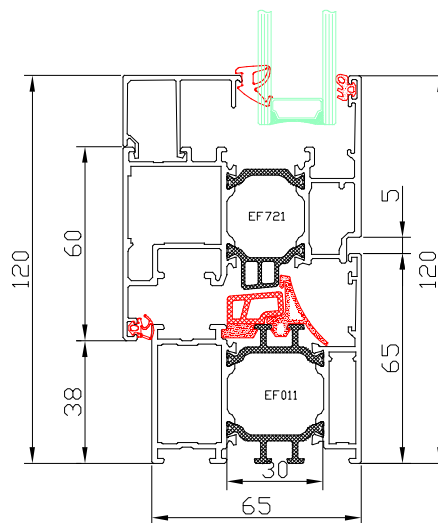
DA-65 EF  
Crossbar - Fixed window  
Mullion: EF031



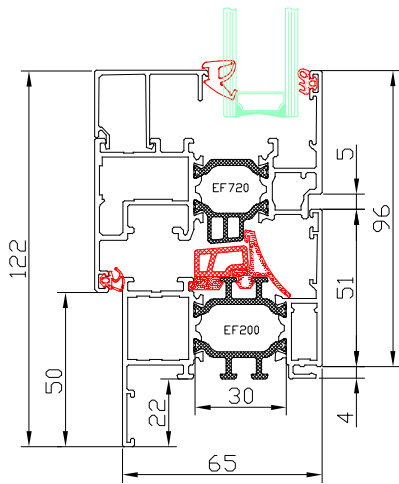
DA-65 EF  
Crossbar - Fixed window  
Mullion: EF032



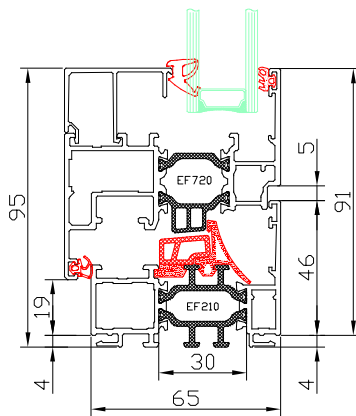
DA-65 EF  
Tilt-and-turn window, Turn window  
and Tilt window  
Frame: EF010  
Sash: EF720



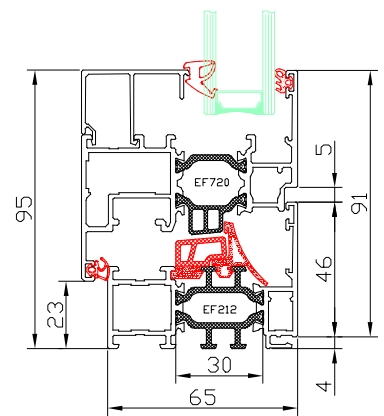
DA-65 EF  
Tilt-and-turn window, Turn window  
and Tilt window  
Wide frame: EF011  
Wide sash: EF721



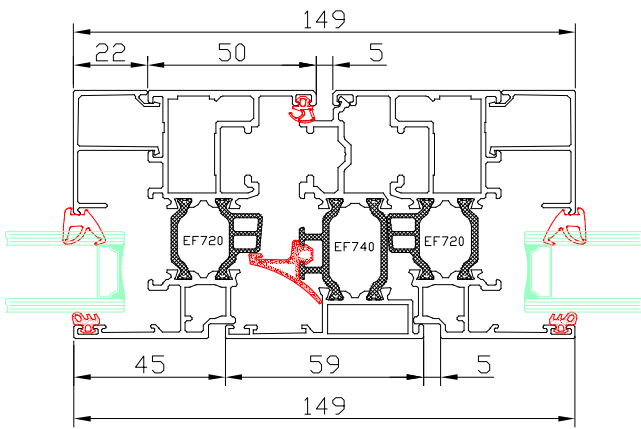
|   |
|---|
| DA-65 EF  |
| Tilt-and-turn window, Turn window and Tilt window |
| Frame: EF200                                      |
| Sash: EF720                                       |



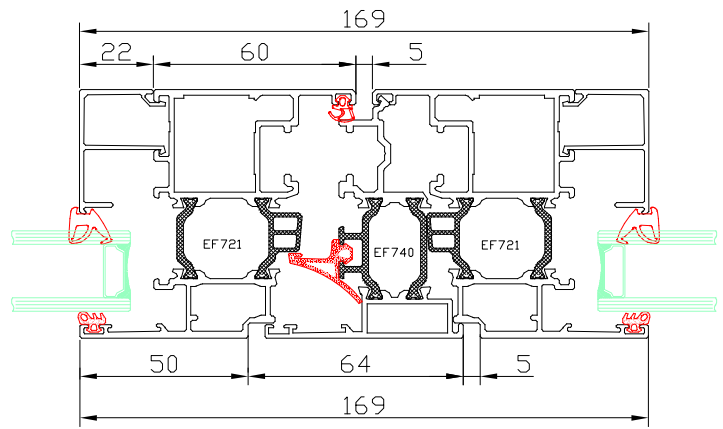
|   |
|---|
| DA-65 EF  |
| Tilt-and-turn window, Turn window and Tilt window |
| Frame: EF210                                      |
| Sash: EF720                                       |



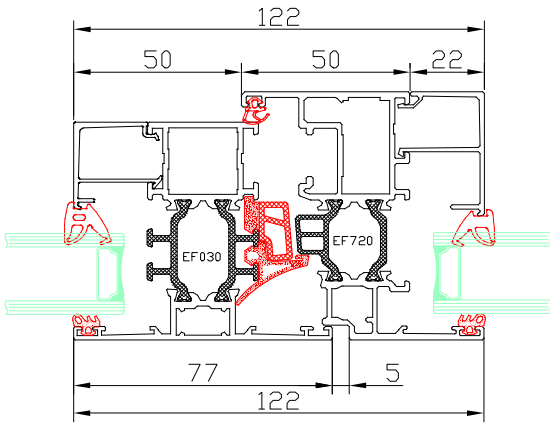
|   |
|---|
| DA-65 EF  |
| Tilt-and-turn window, Turn window and Tilt window |
| Frame: EF212                                      |
| Sash: EF720                                       |



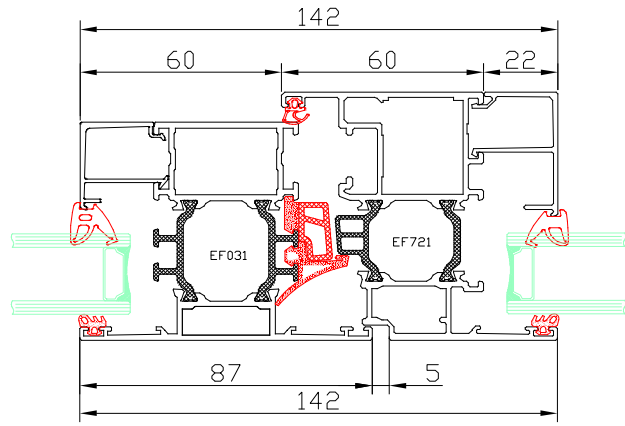
|                 |
|-----------------|
| DA-65 EF        |
| Movable mullion |
| Mullion: EF740  |
| Sash: EF720     |



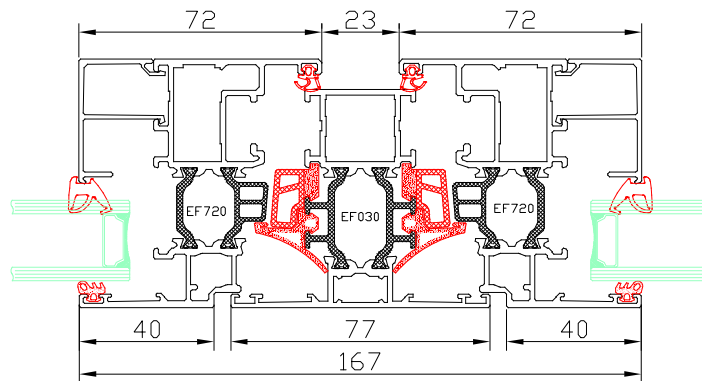
|                  |
|------------------|
| DA-65 EF         |
| Movable mullion  |
| Mullion: EF740   |
| Wide sash: EF721 |



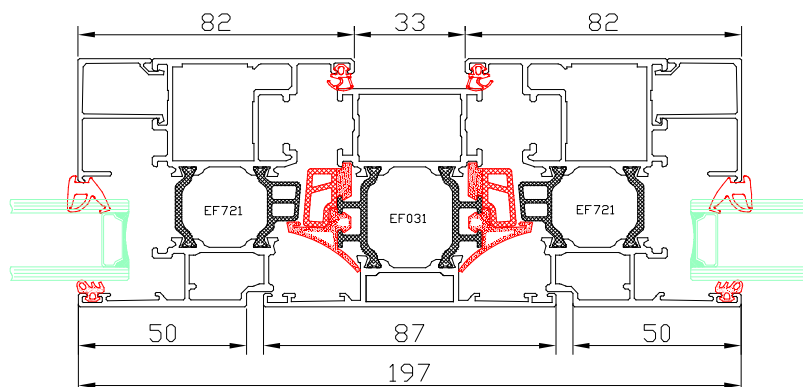
|   |
|---|
| DA-65 EF  |
| Mullion for Tilt-and-turn window and fixed window |
| Mullion: EF030                                    |
| Sash: EF720                                       |



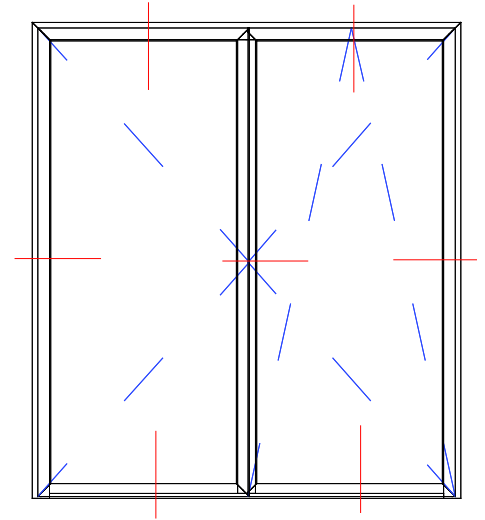
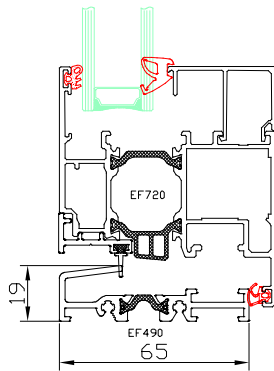
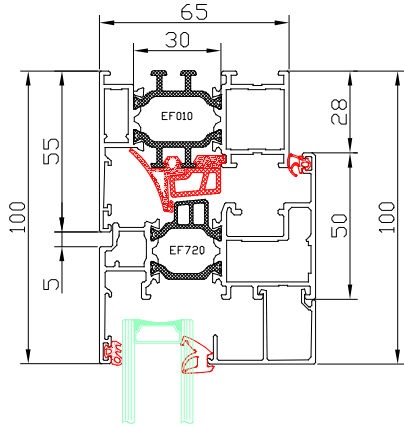
|   |
|---|
| DA-65 EF  |
| Mullion for Tilt-and-turn window and fixed window |
| Mullion: EF031                                    |
| Wide sash: EF721                                  |



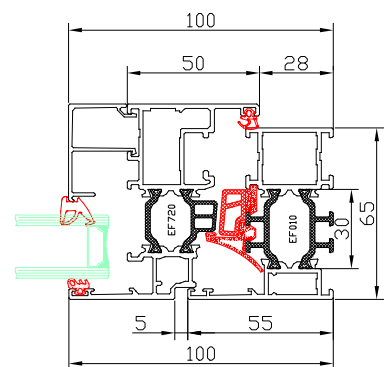
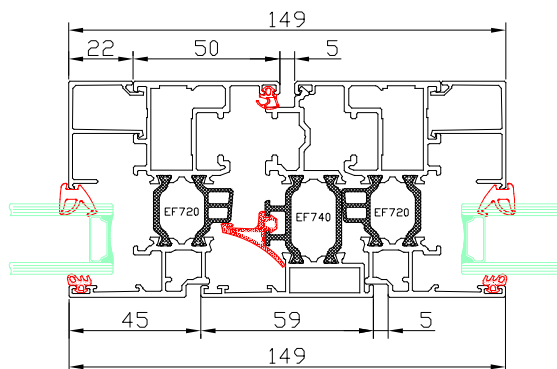
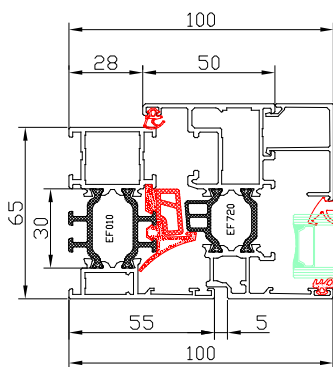
|                                    |
|------------------------------------|
| DA-65 EF                           |
| 2 sash window with a fixed mullion |
| Mullion: EF030                     |
| Sash: EF720                        |

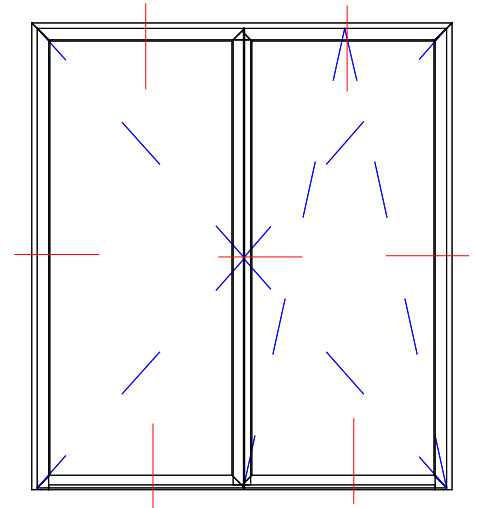
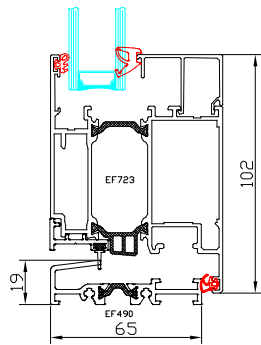
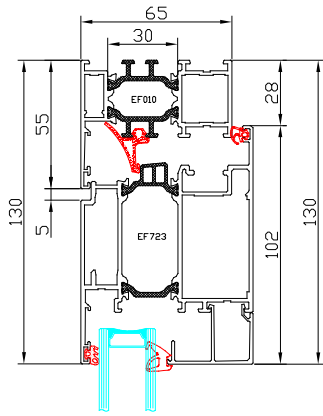


|                                    |
|------------------------------------|
| DA-65 EF                           |
| 2 sash window with a fixed mullion |
| Mullion: EF031                     |
| Wide sash: EF721                   |

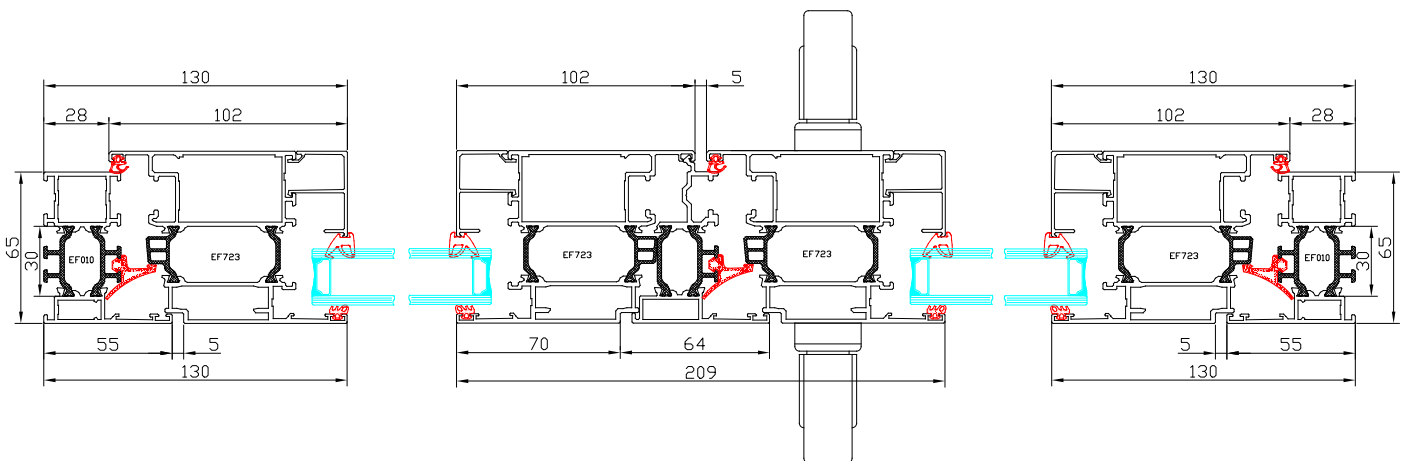


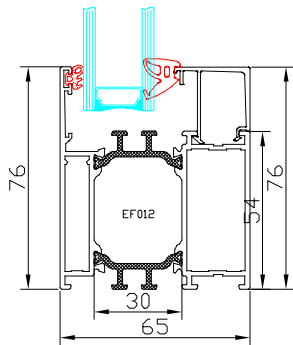
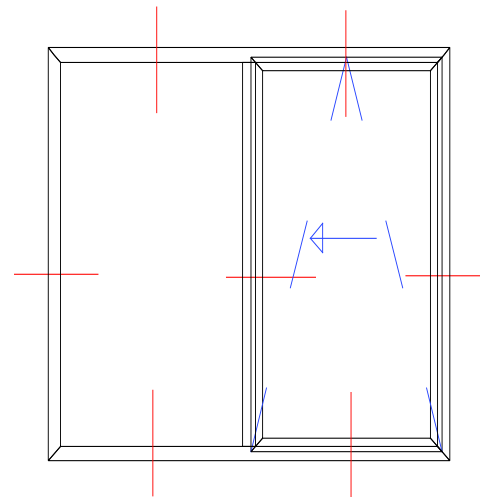
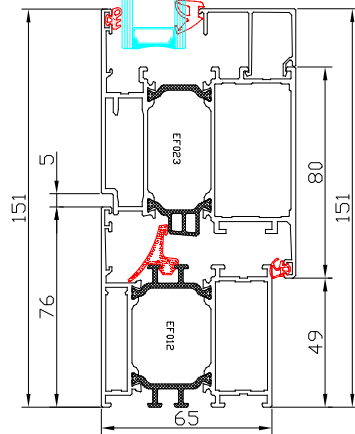
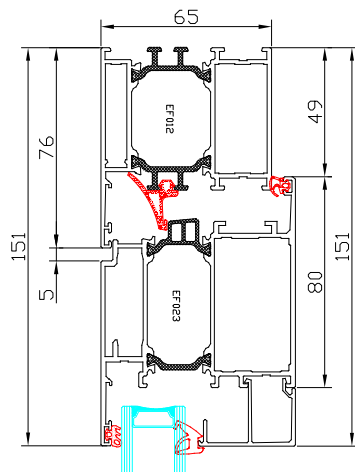
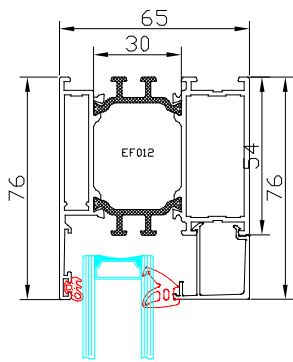
|                           |
|---------------------------|
| DA-65 EF                  |
| 1 or 2-sash balcony doors |
| Frame: EF010              |
| Sash: EF720               |
| Mullion: EF740            |
| Threshold: EF490          |



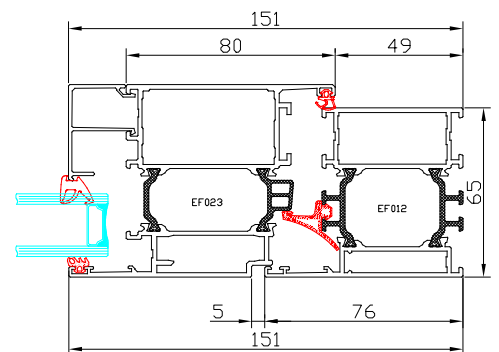
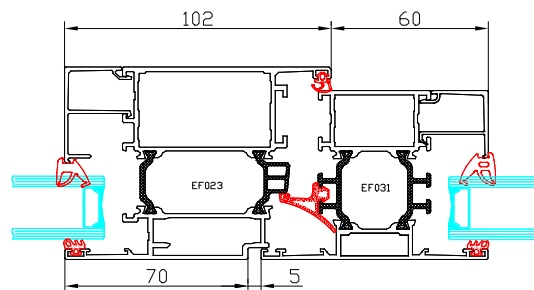
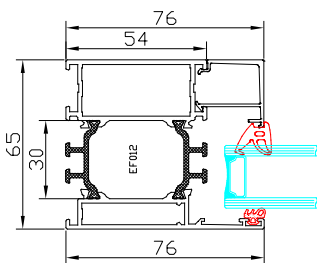


|  |
|--|
| DA-65 EF   |
| 1 or 2-sash balcony doors with a handle and two-sided lock |
| Frame: EF010   |
| Sash: EF723  |
| Threshold: EF490   |

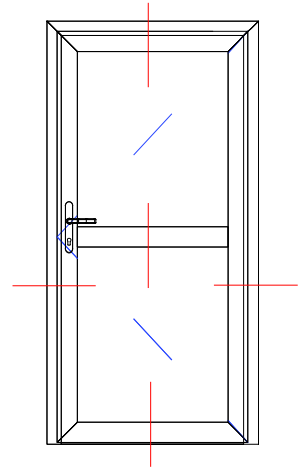
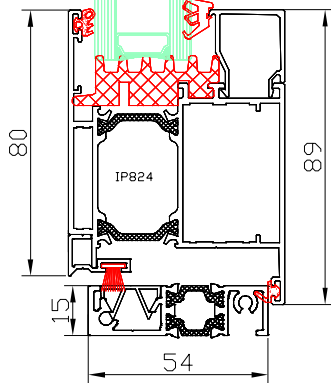
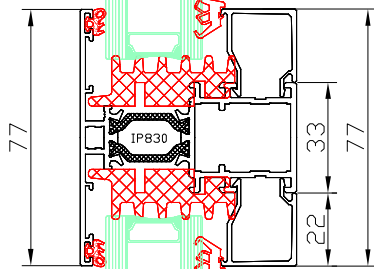
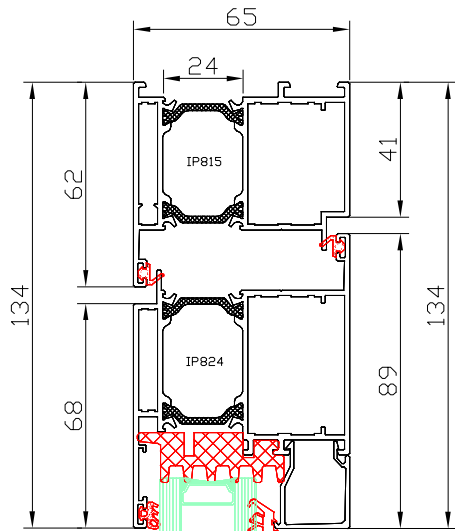




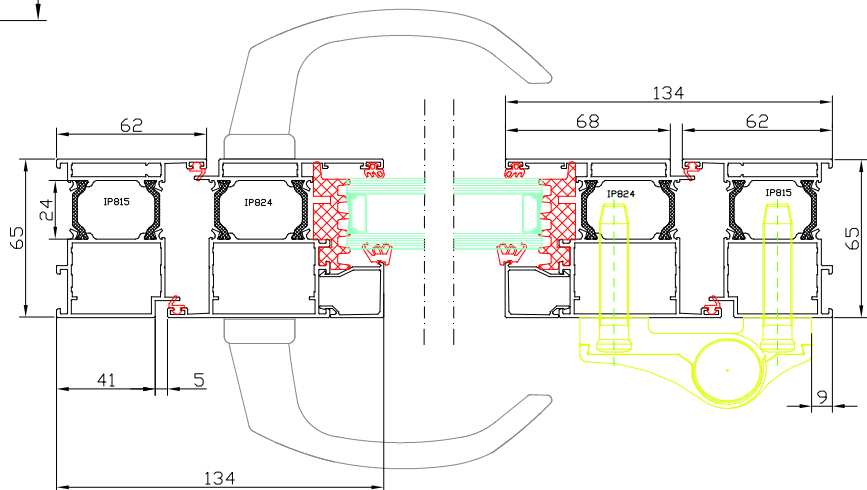
|                        |
|------------------------|
| DA-65 EF               |
| Tilt-sliding HKS doors |
| Frame: EF012           |
| Mullion: EF030         |
| Sash: EF020            |

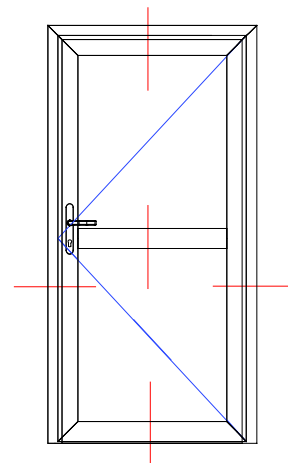
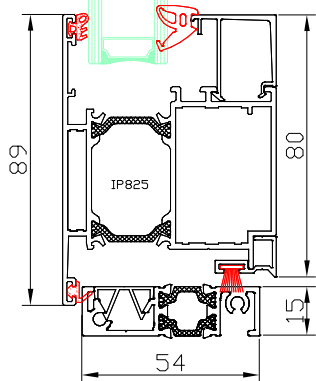
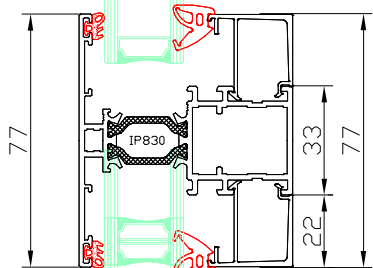
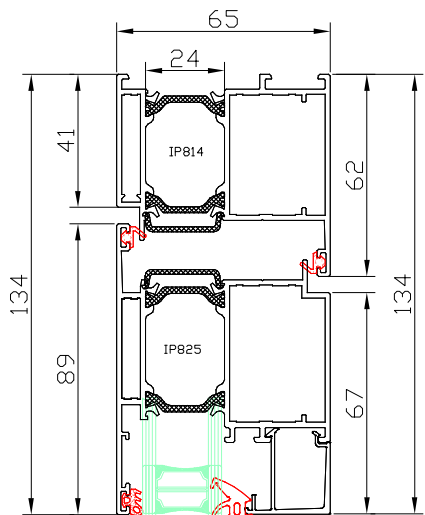




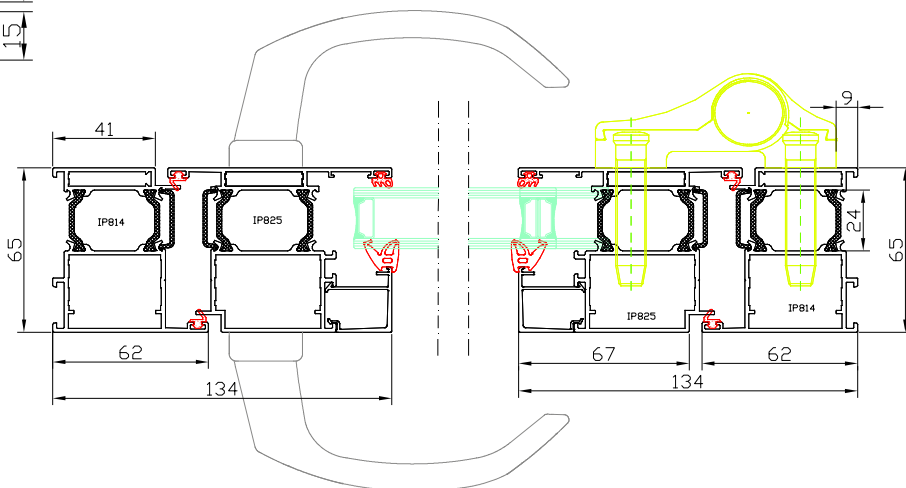


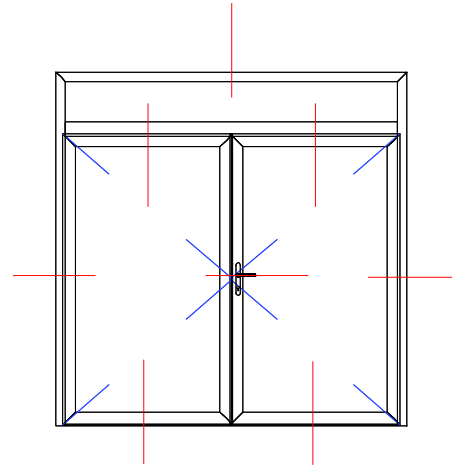
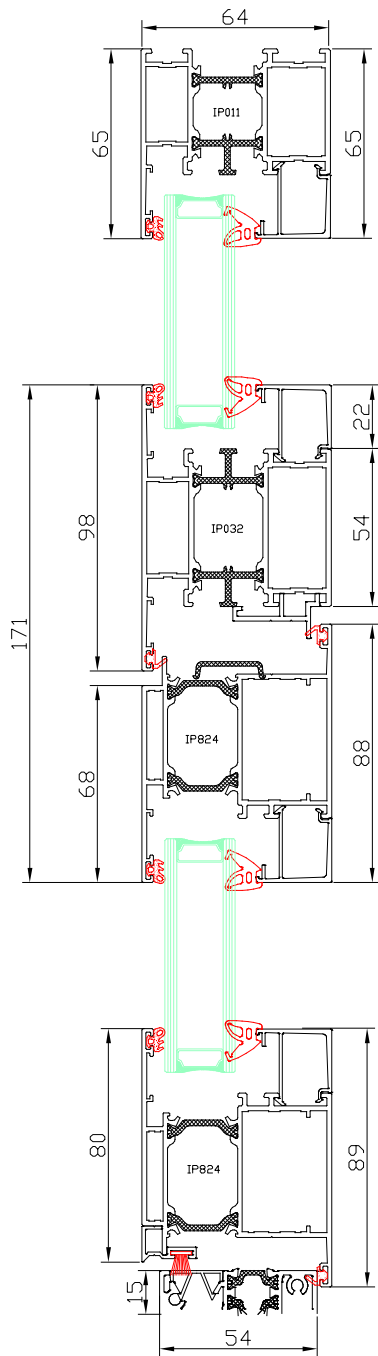
|                                  |
|----------------------------------|
| DA-65                            |
| Single-sash door opening inwards |
| Frame: IP815                     |
| Crossbar: IP830                  |
| Threshold: 15 mm                 |
| Sash: IP824                      |



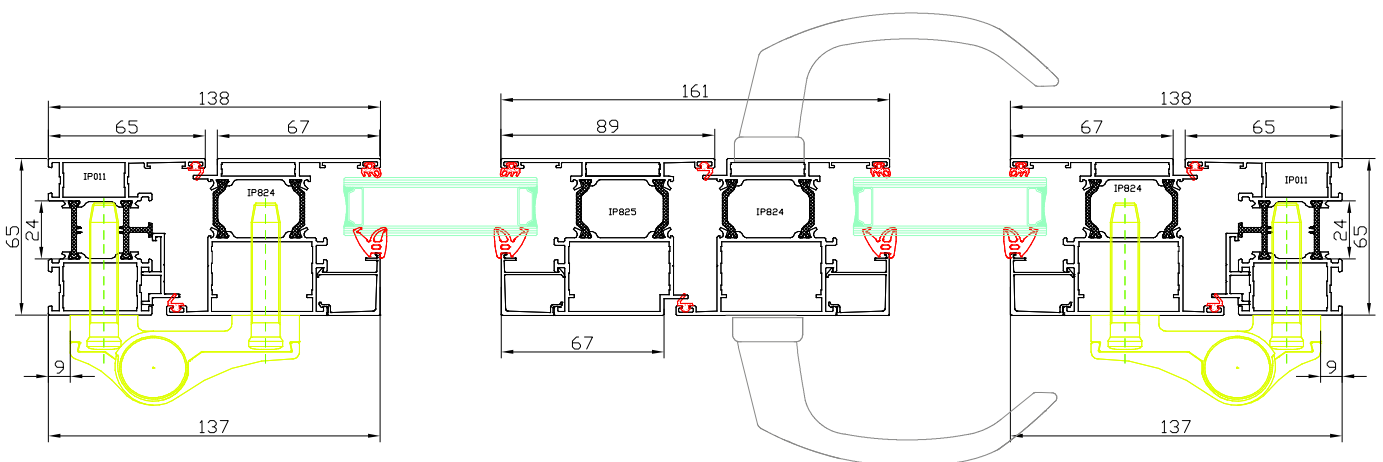


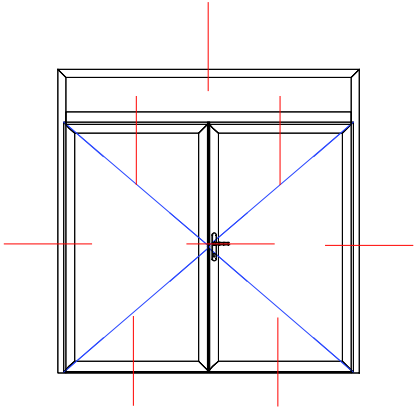
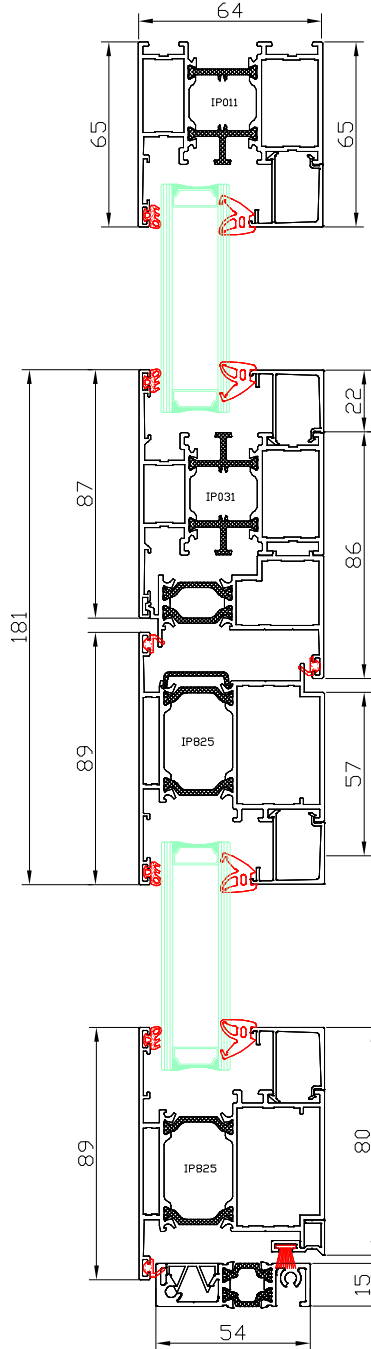
|                                   |
|-----------------------------------|
| DA-65                             |
| Single-sash door opening outwards |
| Frame: IP814                      |
| Crossbar: IP830                   |
| Threshold: 15 mm                  |
| Sash: IP825                       |



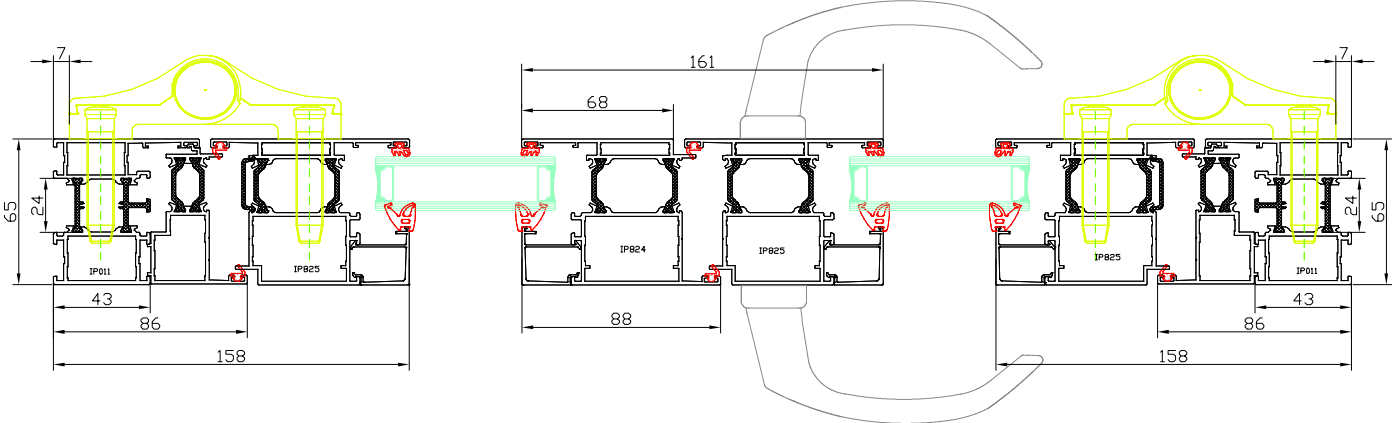


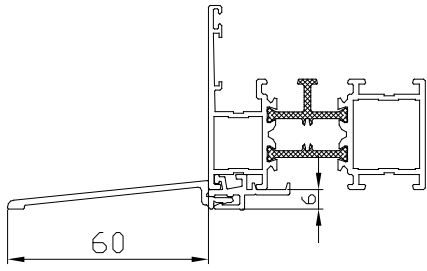
|                             |
|-----------------------------|
| DA-65                       |
| 2-sash door opening inwards |
| Frame: IP011                |
| Mullion: IP032              |
| Threshold: 15 mm            |
| Sash: IP824 i IP824         |



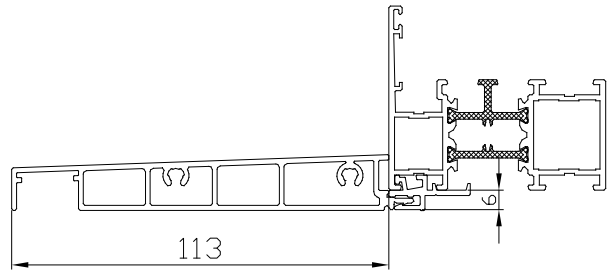


|                              |
|------------------------------|
| DA-65                        |
| 2-sash door opening outwards |
| Frame: IP011                 |
| Mullion: IP031               |
| Threshold: 15 mm             |
| Sash: EF824   EF825          |

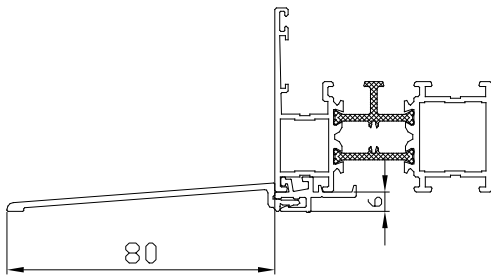




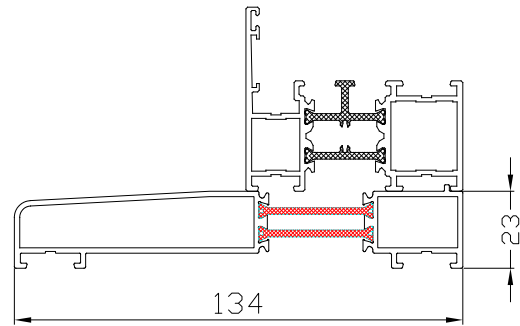
DA-65 EF  
Sill profile (window sill) UN320 + UN119



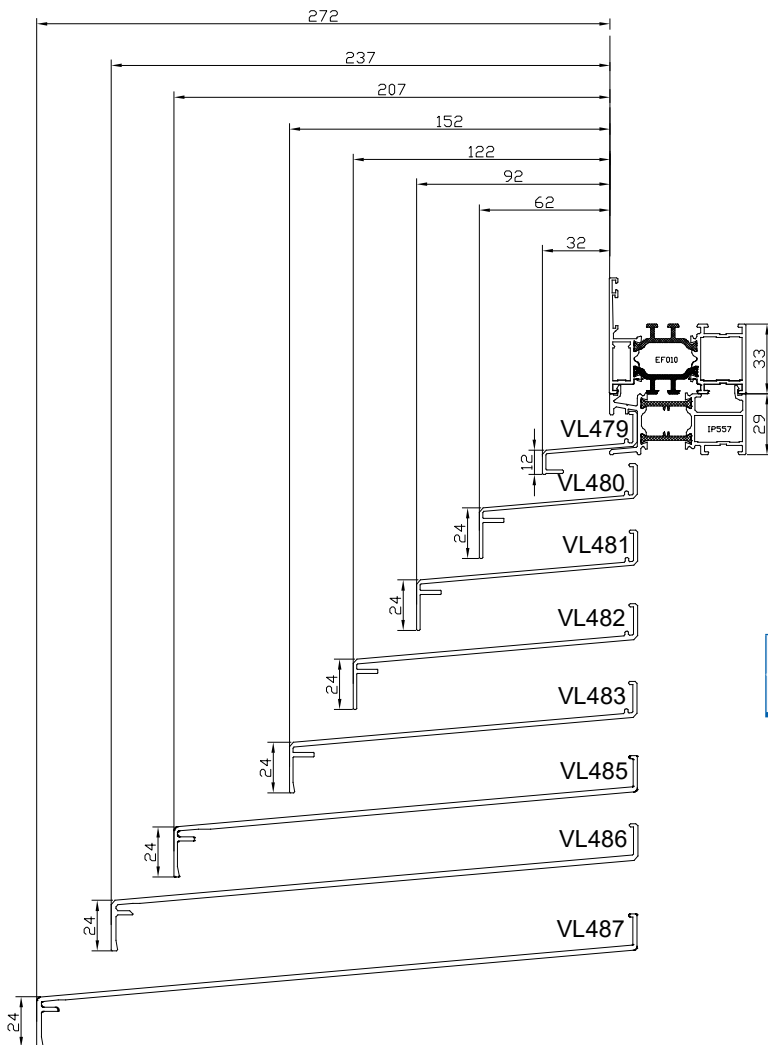
DA-65 EF  
Sill profile (window sill) EF2000 + UN119



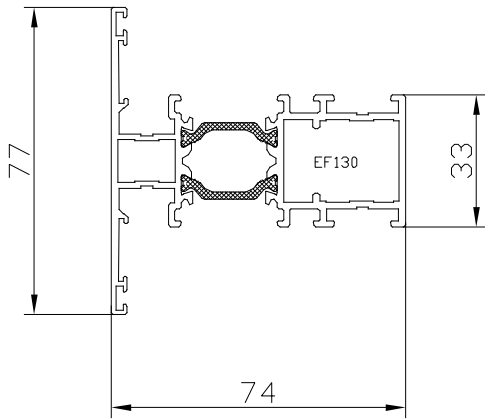
DA-65 EF  
Sill profile (window sill) UN321 + UN119



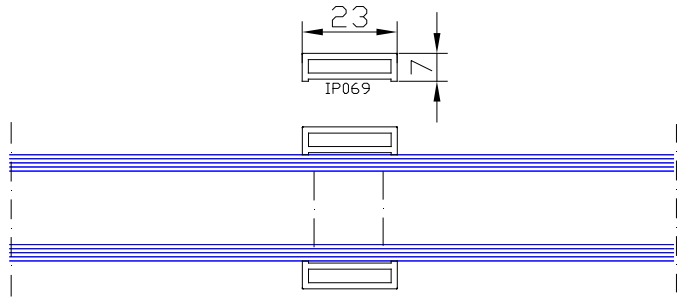
DA-65 EF  
Sill profile (window sill) IN357



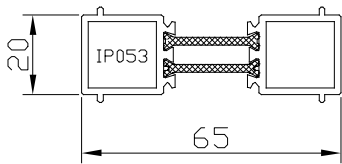
DA-65 EF  
Sill profile (window sill)



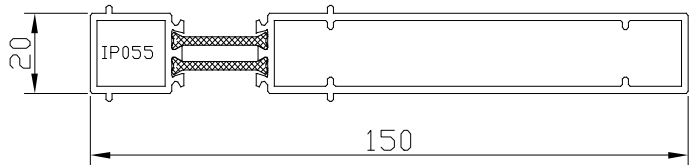
DA-65 EF  
Crossbar in the sash



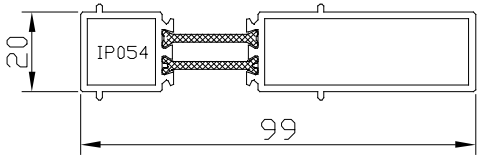
DA-65 EF  
Glued-on muntin bars + DUPLEX:  
inter-pane muntin bars



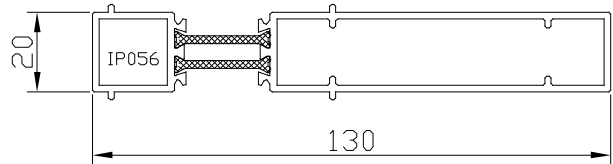
DA-65 EF  
Connector IP053



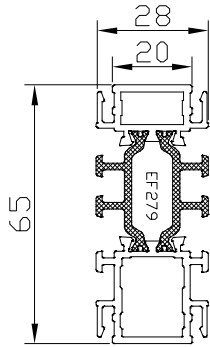
DA-65 EF  
Connector IP055



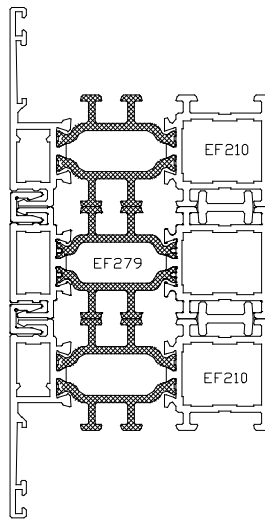
DA-65 EF  
Connector IP054



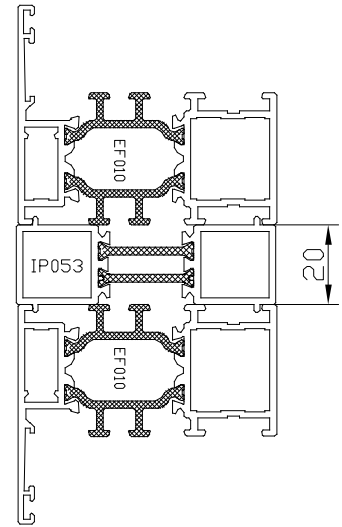
DA-65 EF  
Connector IP056



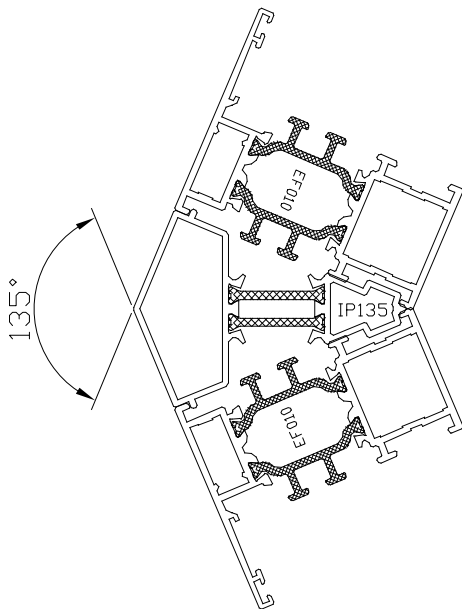
DA-65 EF  
Expansion Joint EF279



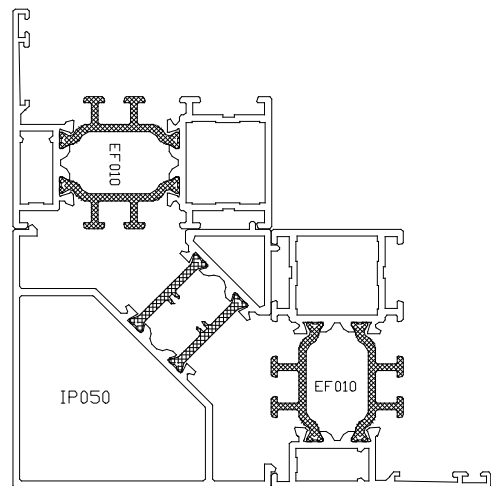
DA-65 EF  
Expansion Joints EF279 (example)



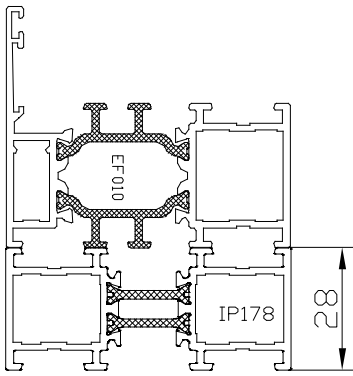
DA-65 EF  
Connectors IP053 (example)



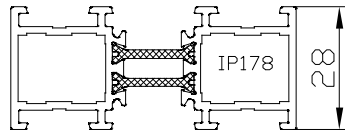
DA-65 EF  
Corner joint IP135



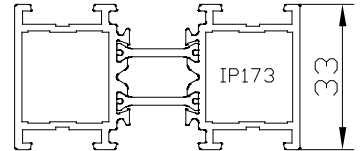
DA-65 EF  
Corner joint IP050



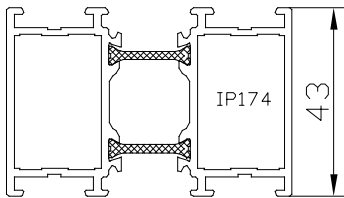
DA-65 EF  
Expander IP178 (example)



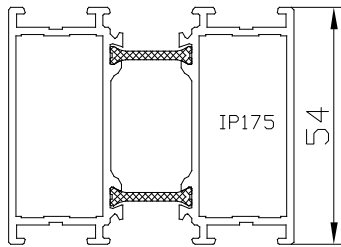
DA-65 EF  
Expander IP178



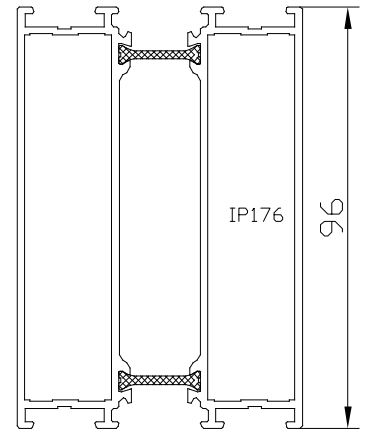
DA-65 EF  
Expander IP173



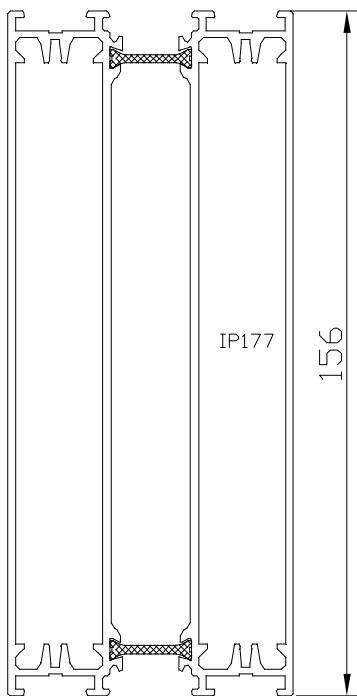
DA-65 EF  
Expander IP174



DA-65 EF  
Expander IP175

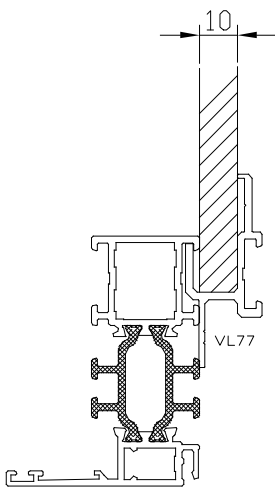


DA-65 EF  
Expander IP176

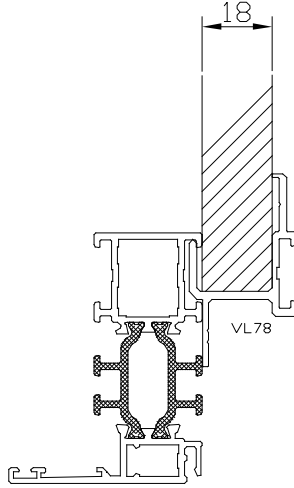


DA-65 EF  
Expander IP177

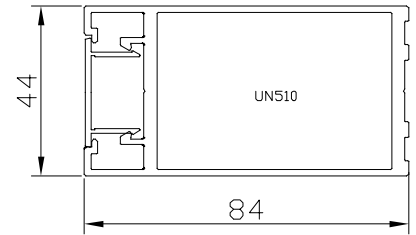




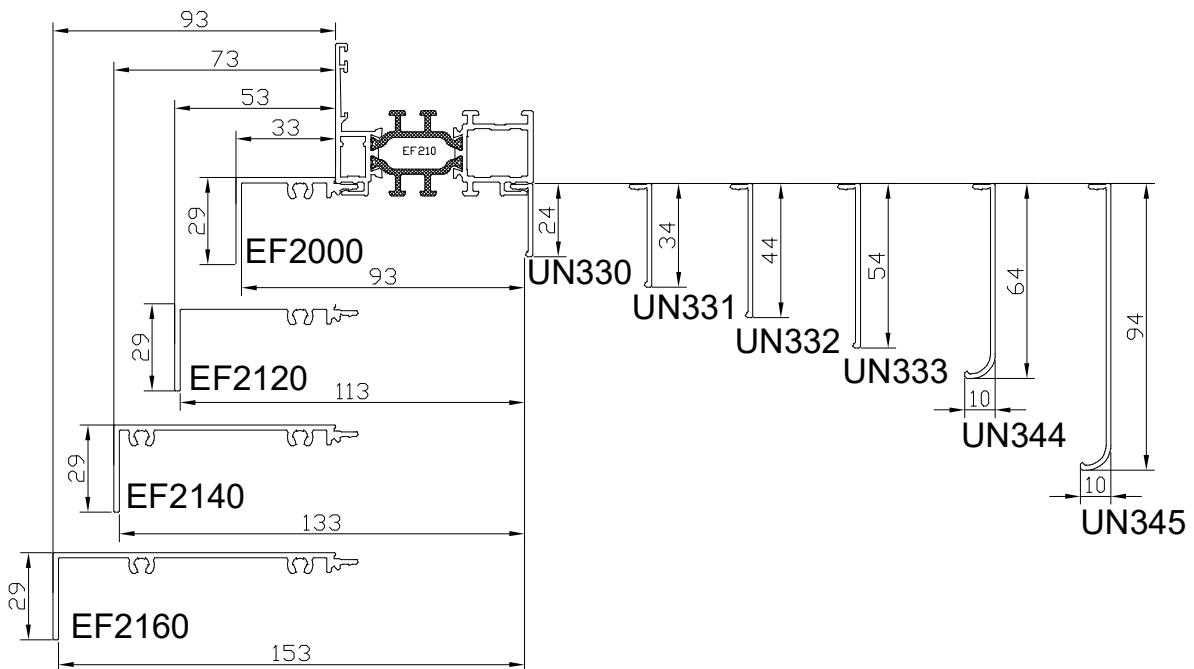
DA-65 EF  
Covering profile VL77



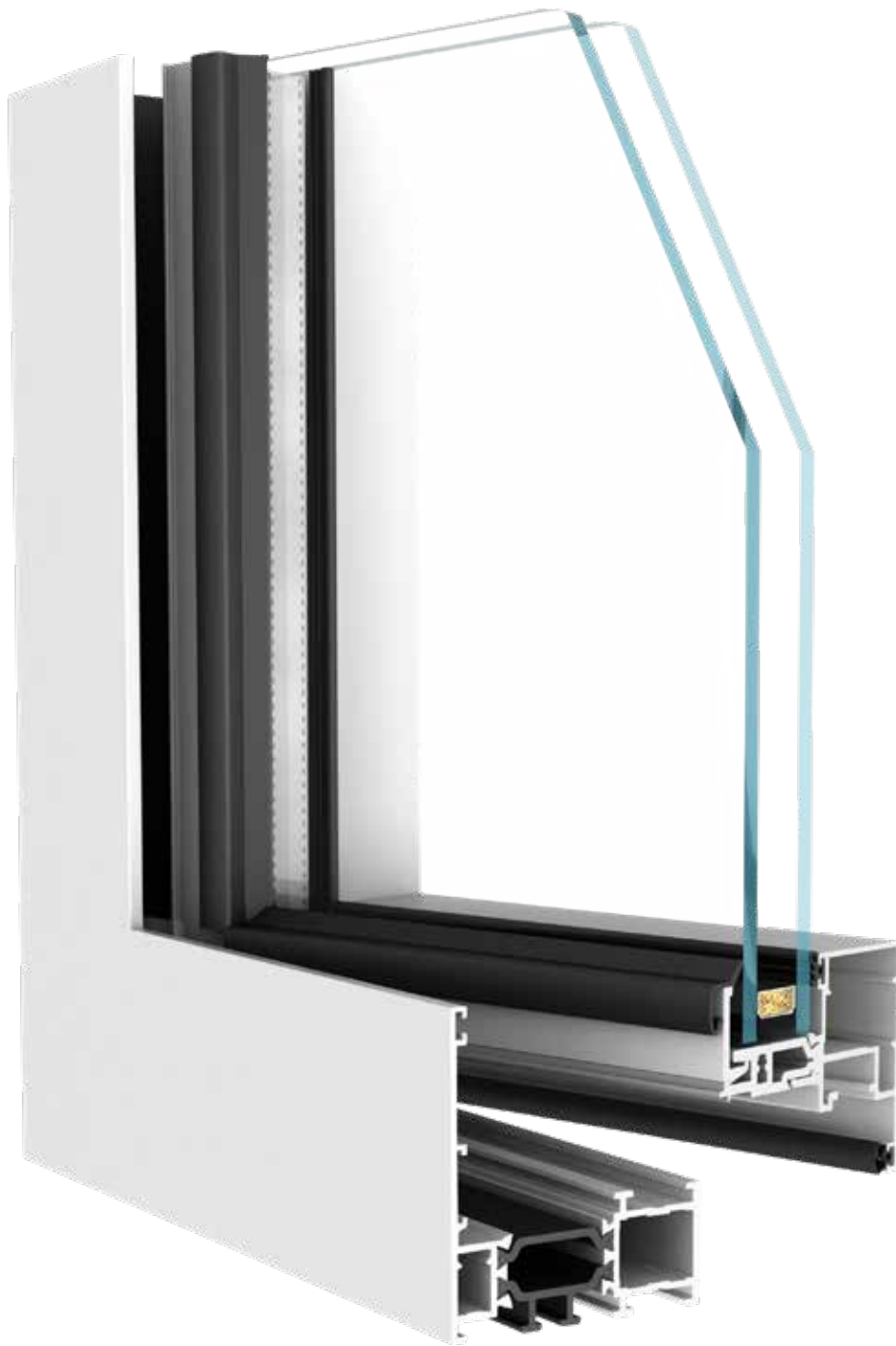
DA-65 EF  
Covering profile VL78



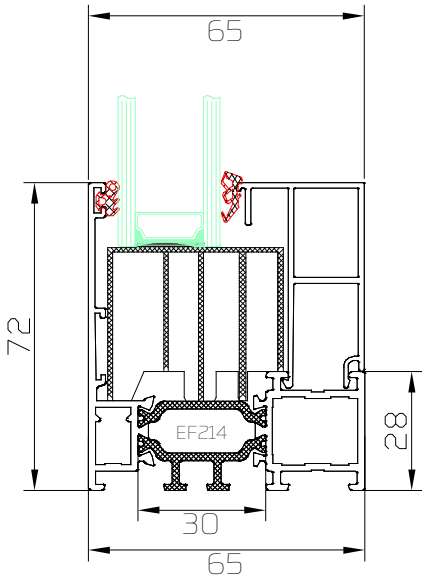
DA-65 EF  
Tube reinforcement UN510



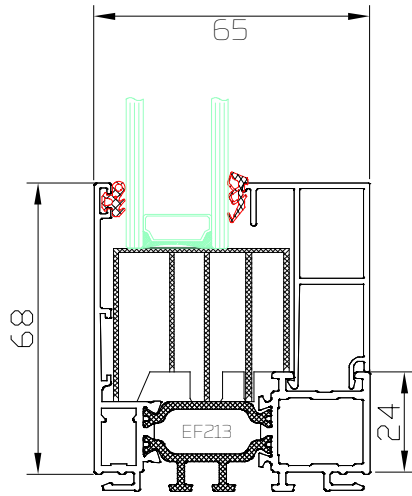
DA-65 EF  
Covering profile for renovation



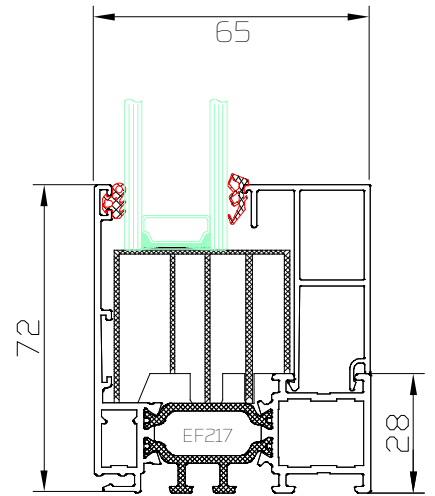
**DA-65 EFUS**



DA-65 EFUS  
Fixed window  
Frame: EF214

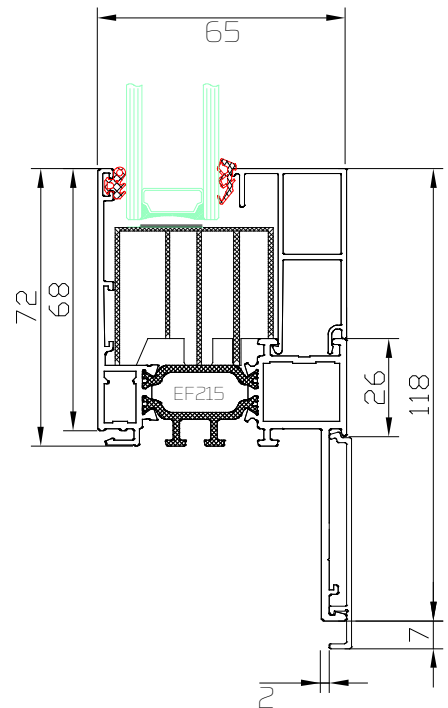


DA-65 EFUS  
Fixed window  
Frame: EF213

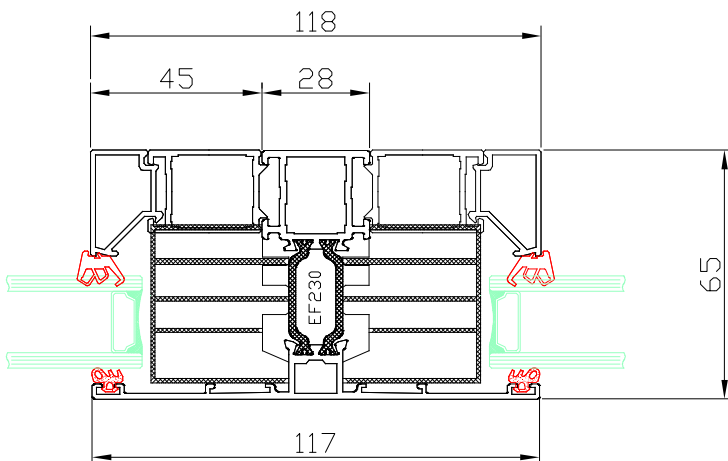


DA-65 EFUS  
Fixed window  
Frame: EF217

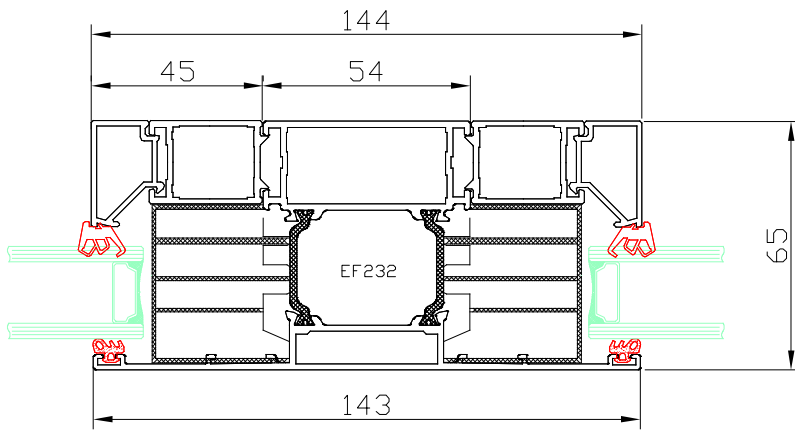
DA-65 EFUS  
Fixed window  
Frame: EF215



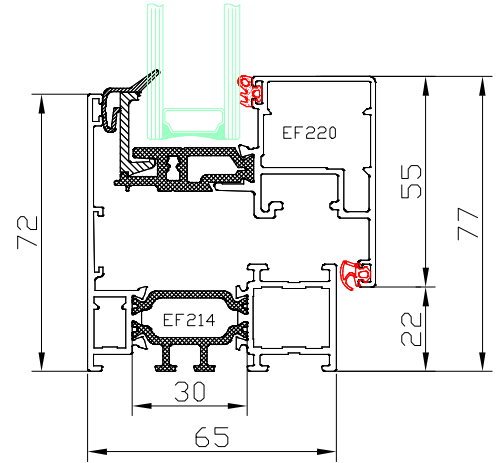
DA-65 EFUS  
Fixed window  
Frame: EF215



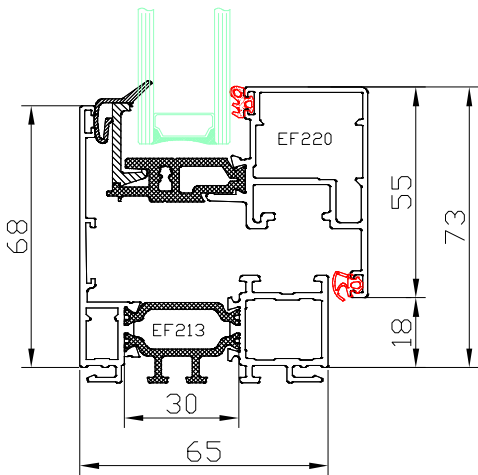
DA-65 EFUS  
Fixed mullion  
Mullion: EF230



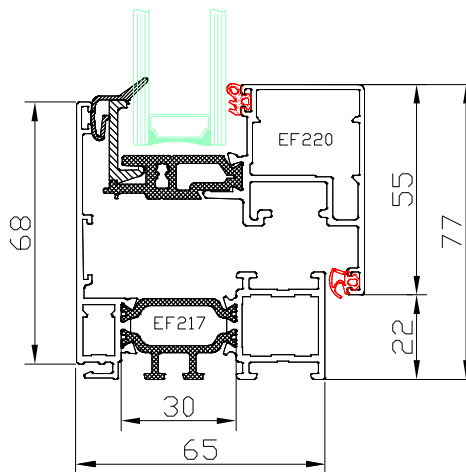
DA-65 EFUS  
Fixed mullion  
Mullion: EF232



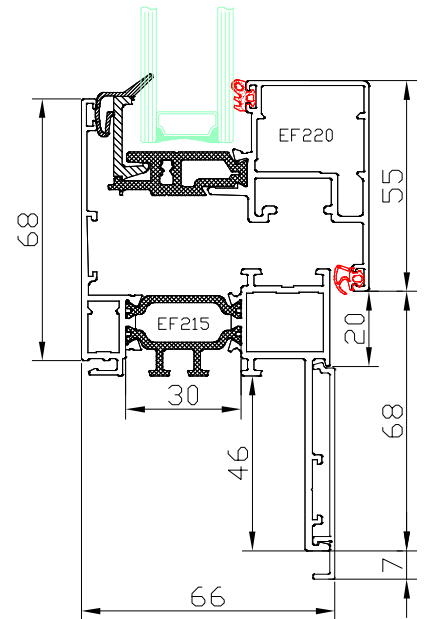
DA-65 EFUS  
Tilt-and-turn window, Turn window  
and Tilt window  
Frame: EF214  
Sash: EF220



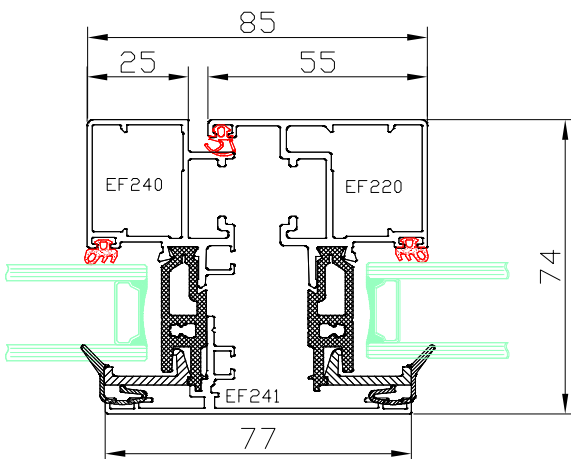
DA-65 EFUS  
Tilt-and-turn window, Turn window  
and Tilt window  
Frame: EF213  
Sash: EF220



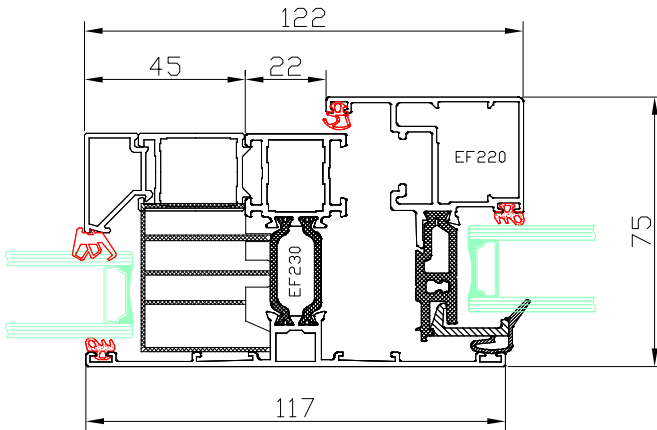
DA-65 EFUS  
Tilt-and-turn window, Turn window  
and Tilt window  
Frame: EF217  
Sash: EF220



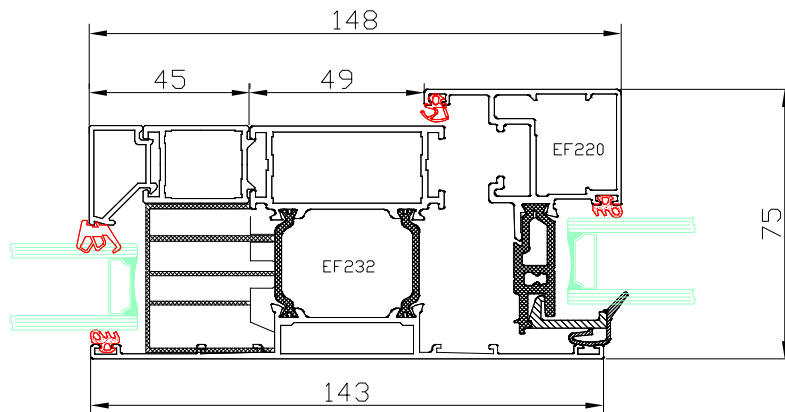
DA-65 EFUS  
Tilt-and-turn window, Turn window  
and Tilt window  
Frame: EF215  
Sash: EF220



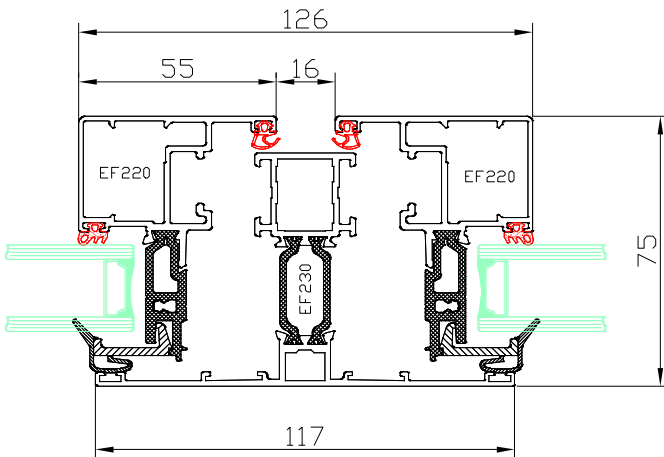
DA-65 EFUS  
Movable mullion  
Mullion: EF241  
Sash: EF220 i EF240



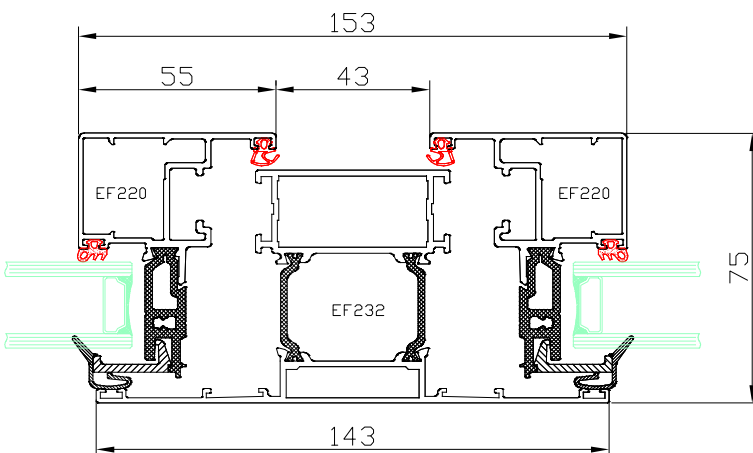
|   |
|---|
| DA-65 EFUS  |
| Mullion for Tilt-and-turn window and fixed window |
| Sash: EF220                                       |
| Mullion: EF230                                    |



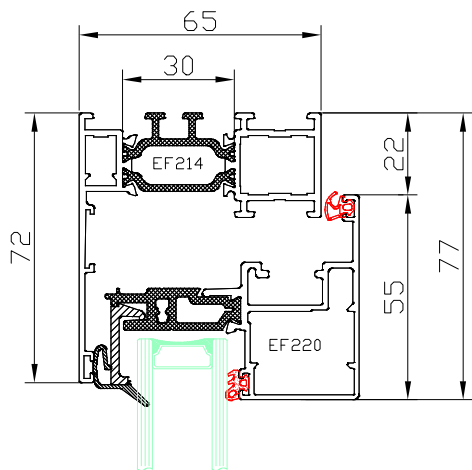
|   |
|---|
| DA-65 EFUS  |
| Mullion for Tilt-and-turn window and fixed window |
| Sash: EF220                                       |
| Mullion: EF232                                    |



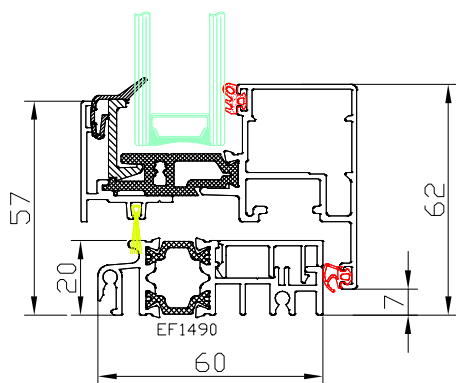
|                                    |
|------------------------------------|
| DA-65 EFUS                         |
| 2 sash window with a fixed mullion |
| Mullion: EF230                     |
| Sash: EF220                        |



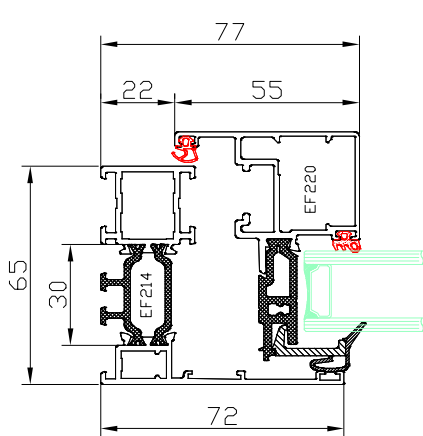
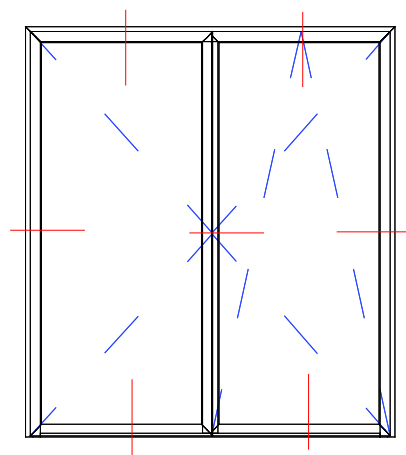
|                                    |
|------------------------------------|
| DA-65 EFUS                         |
| 2 sash window with a fixed mullion |
| Mullion: EF232                     |
| Sash: EF220                        |



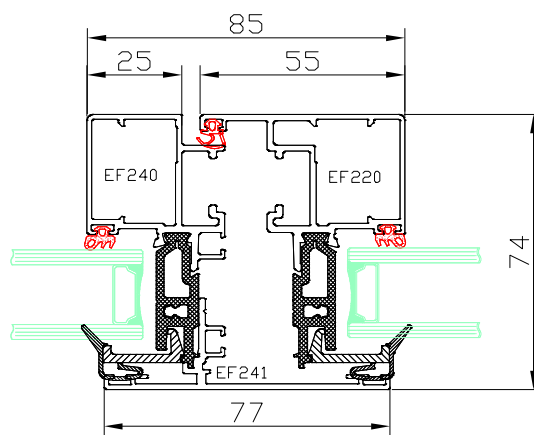
|                           |
|---------------------------|
| DA-65 EFUS                |
| 1 or 2-sash balcony doors |
| Frame: EF214              |
| Sash: EF220               |



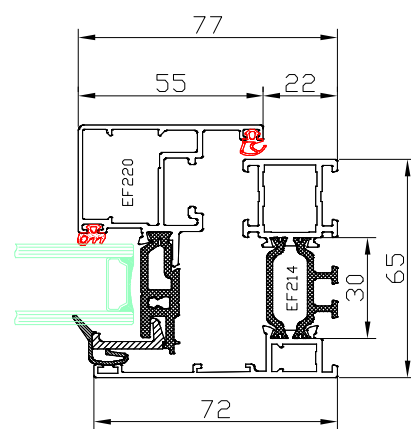
|                           |
|---------------------------|
| DA-65 EFUS                |
| 1 or 2-sash balcony doors |
| Sash: E2720               |
| Threshold: EF1490         |



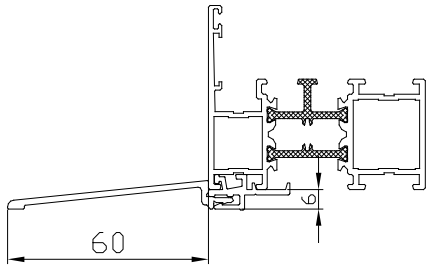
|                           |
|---------------------------|
| DA-65 EFUS                |
| 1 or 2-sash balcony doors |
| Frame: EF214              |
| Sash: EF220               |



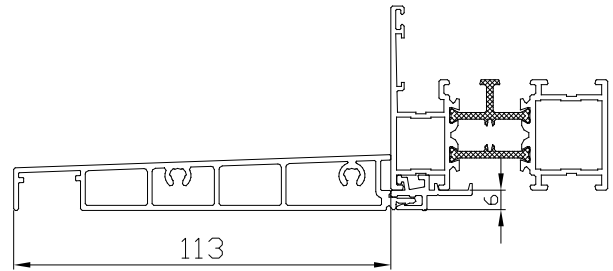
|                           |
|---------------------------|
| DA-65 EFUS                |
| 1 or 2-sash balcony doors |
| Mullion: EF241            |
| Sash: EF220   EF240       |



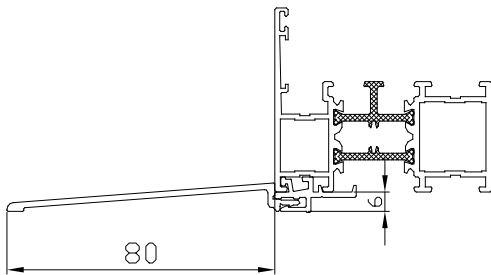
|                           |
|---------------------------|
| DA-65 EFUS                |
| 1 or 2-sash balcony doors |
| Frame: EF214              |
| Sash: EF220               |



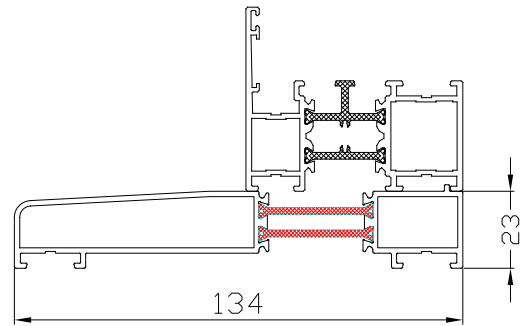
DA-65 EFUS  
Sill profile (window sill) UN320 + UN119



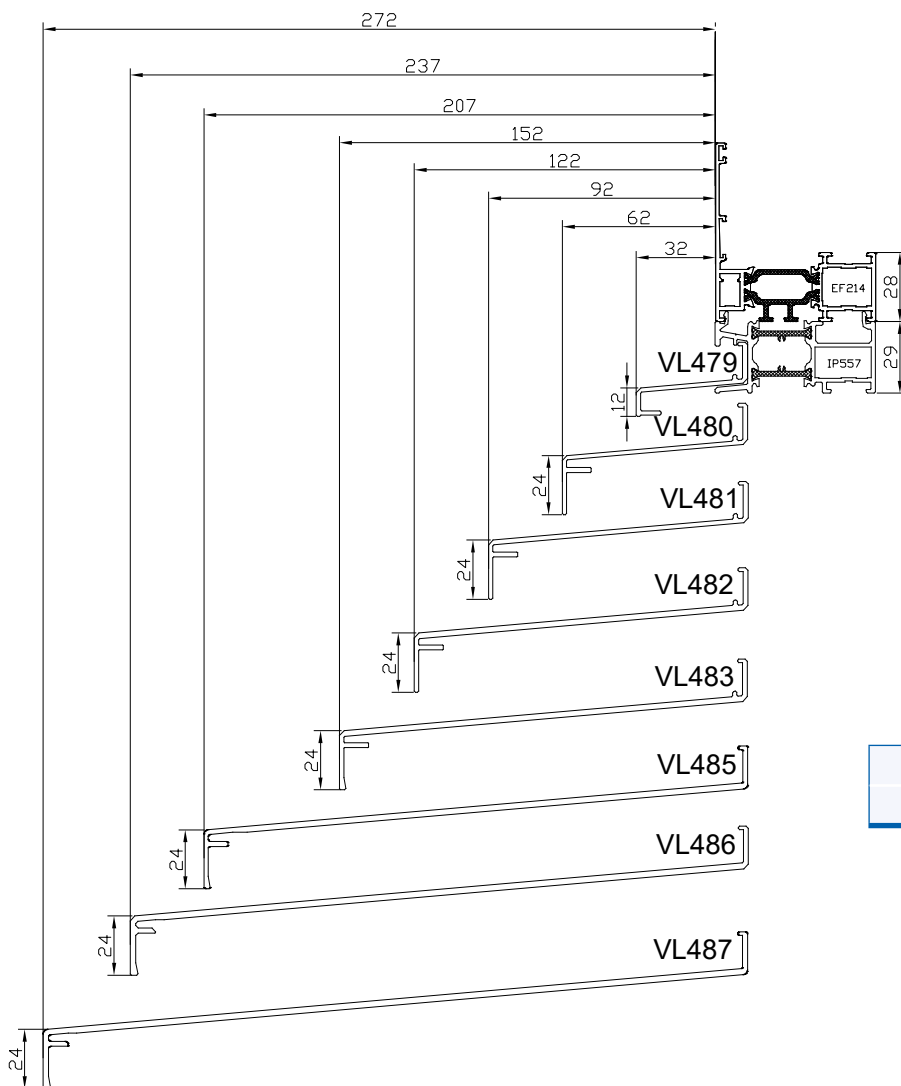
DA-65 EFUS  
Sill profile (window sill) EF2000 + UN119



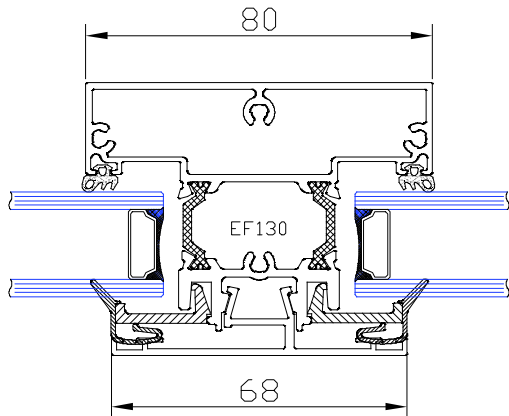
DA-65 EFUS  
Sill profile (window sill) UN321 + UN119



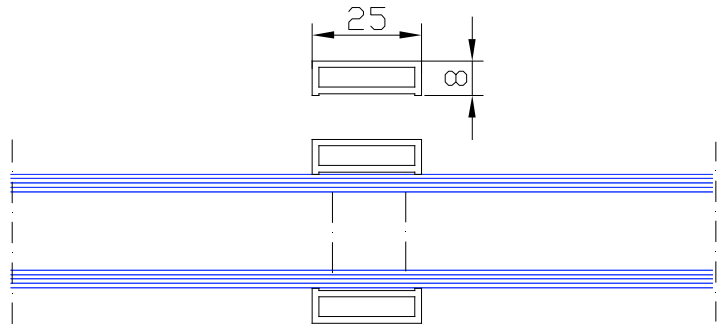
DA-65 EFUS  
Sill profile (window sill) IN357



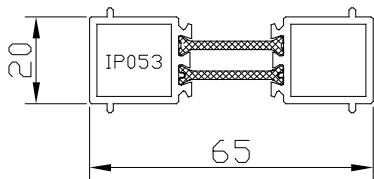
DA-65 EFUS  
Sill profile (window sill)



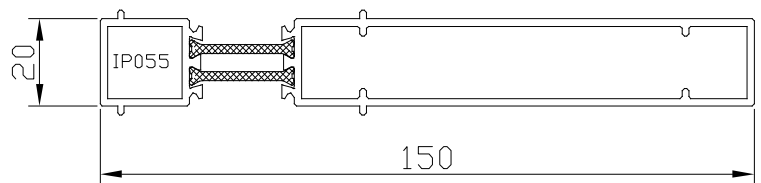
DA-65 EFUS  
Crossbar in the sash



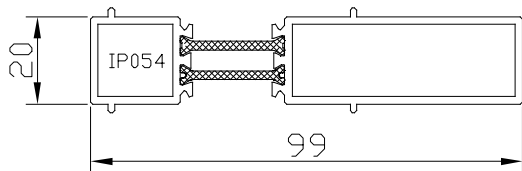
DA-65 EFUS  
Glued-on muntin bars + DUPLEX:  
inter-pane muntin bars



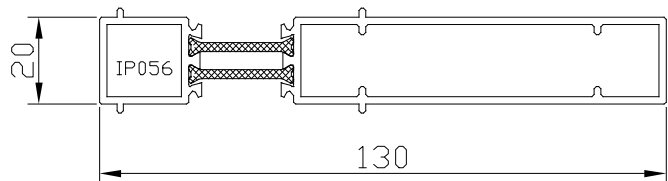
DA-65 EFUS  
Connector IP053



DA-65 EFUS  
Connector IP055

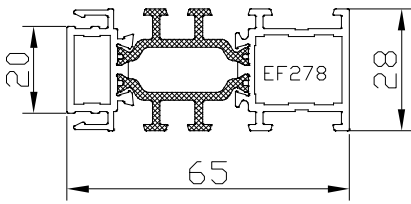


DA-65 EFUS  
Connector IP054

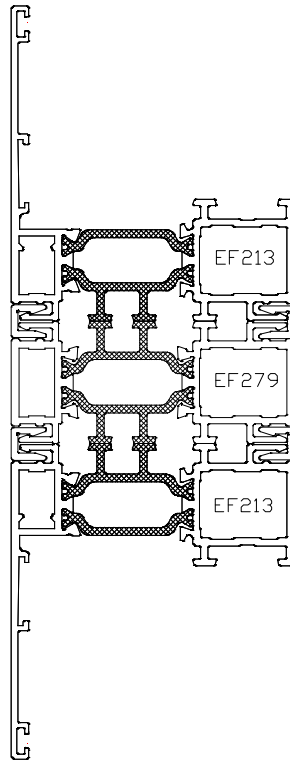


DA-65 EFUS  
Connector IP056

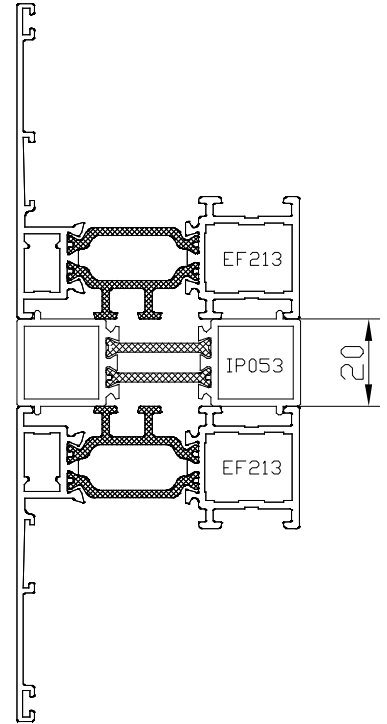




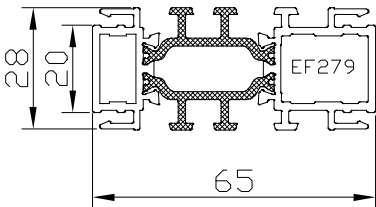
DA-65 EFUS  
Expansion Joint EF278



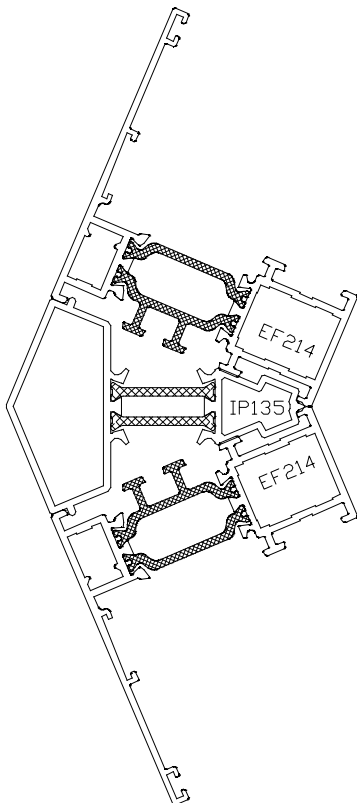
DA-65 EFUS  
Expansion Joints EF279 (example)



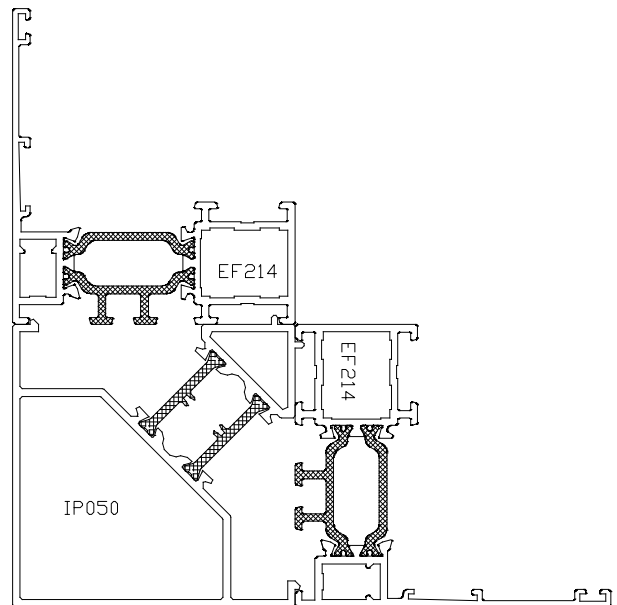
DA-65 EFUS  
Connectors IP053 (example)



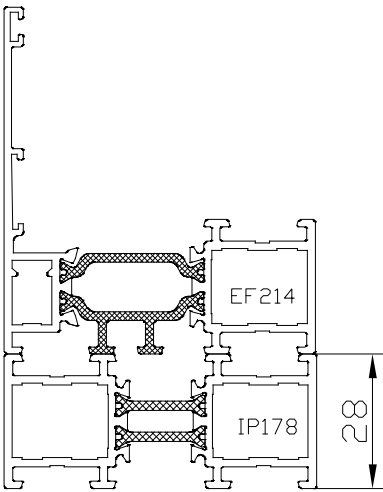
DA-65 EFUS  
Expansion Joint EF279



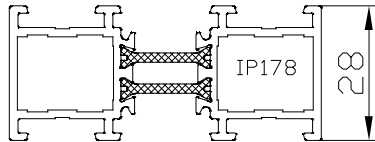
DA-65 EFUS  
Corner joint IP135



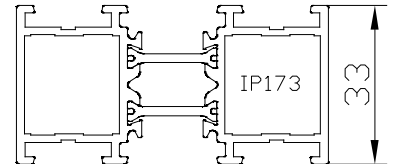
DA-65 EFUS  
Corner joint IP050



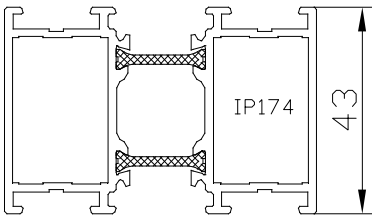
DA-65 EFUS  
Expander IP178 (example)



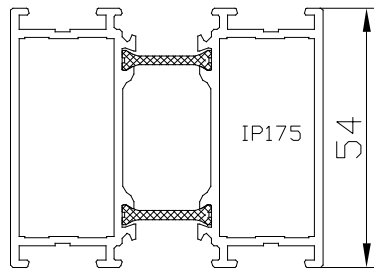
DA-65 EFUS  
Expander IP178



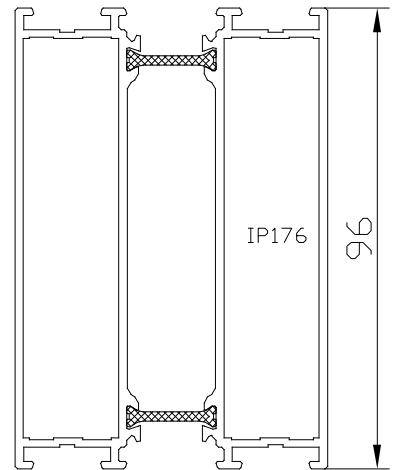
DA-65 EFUS  
Expander IP173



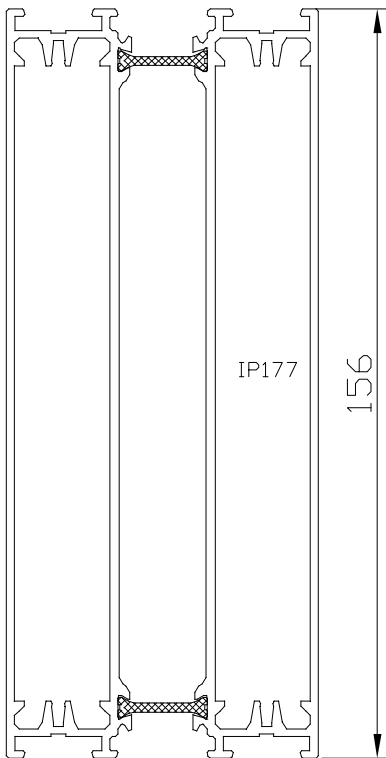
DA-65 EFUS  
Expander IP174



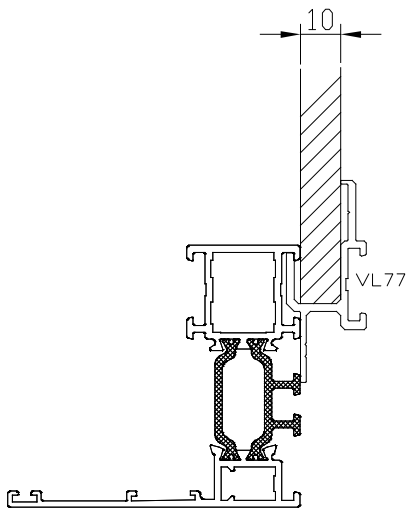
DA-65 EFUS  
Expander IP175



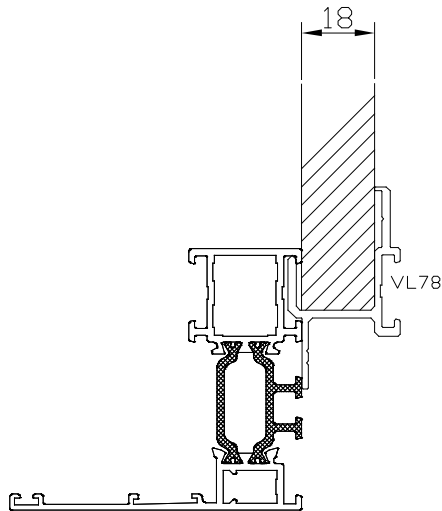
DA-65 EFUS  
Expander IP176



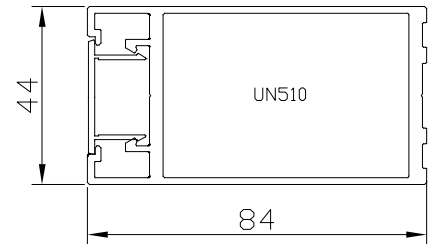
DA-65 EFUS  
Expander IP177



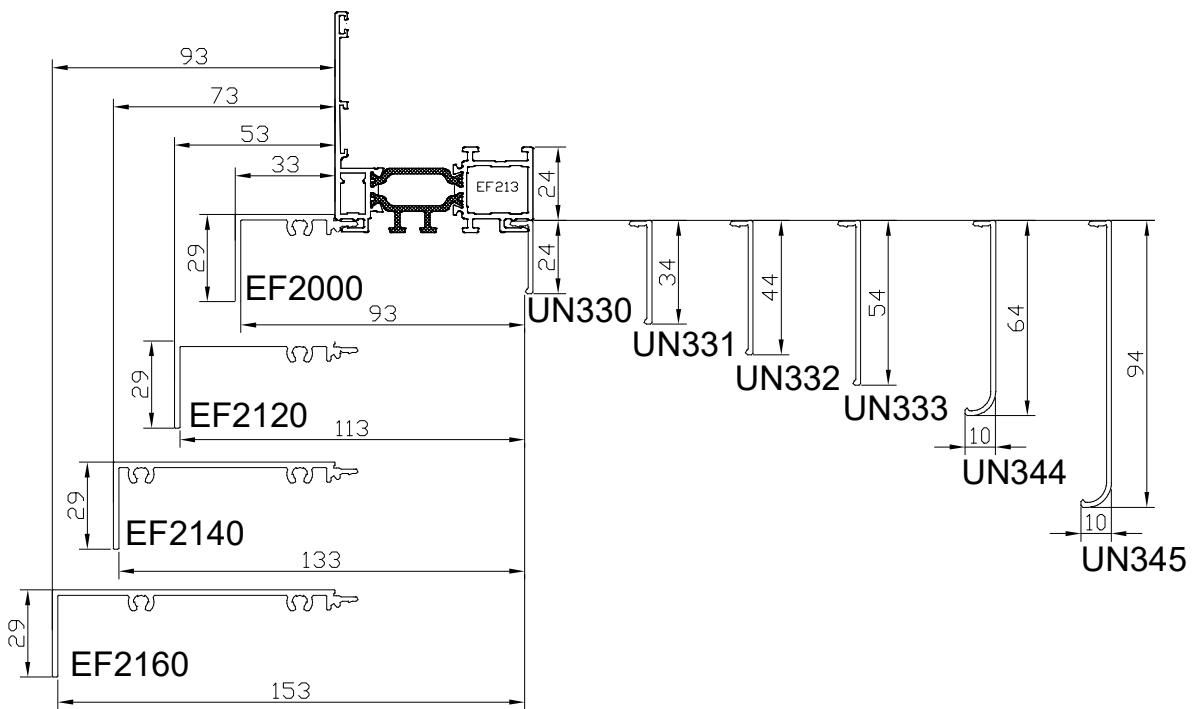
DA-65 EFUS  
Covering profile VL77



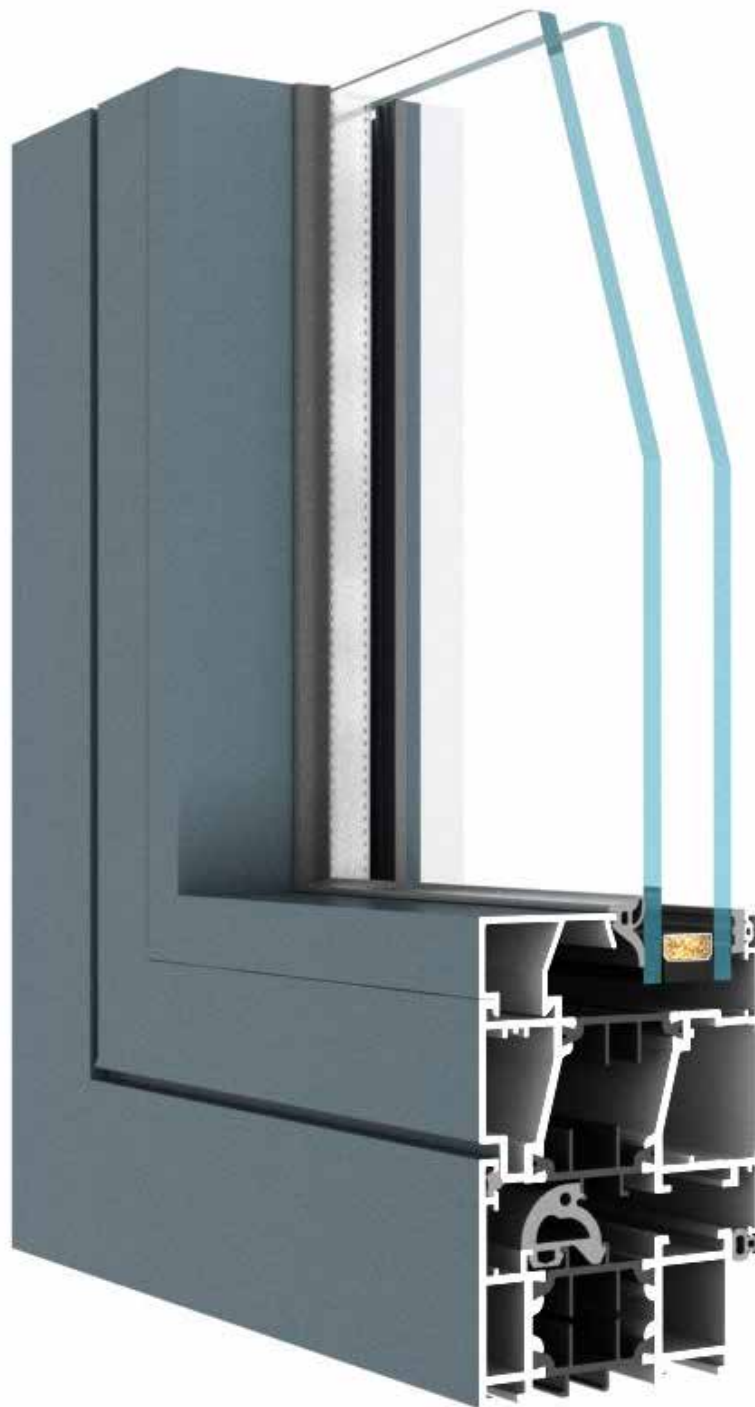
DA-65 EFUS  
Covering profile VL78



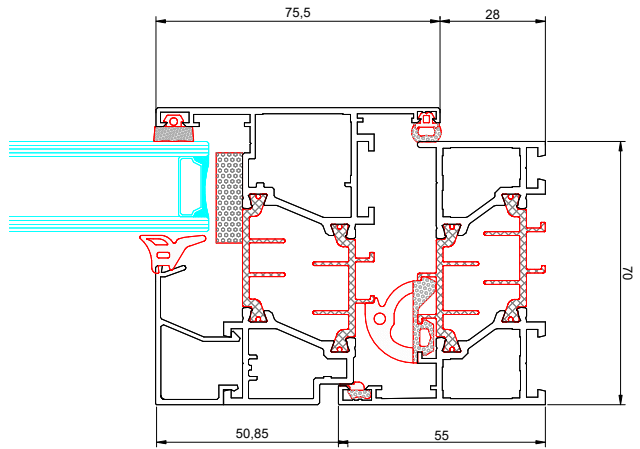
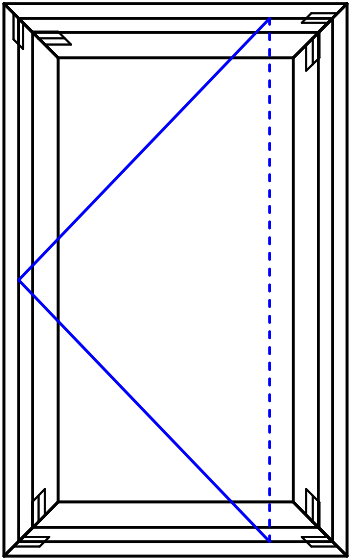
DA-65 EFUS  
Tube reinforcement UN510



DA-65 EFUS  
Covering profile for renovation



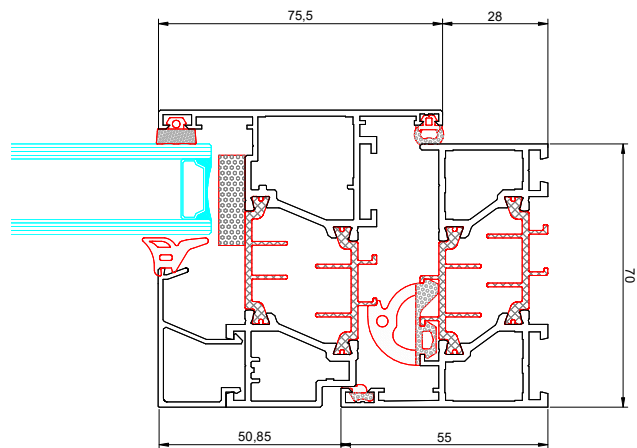
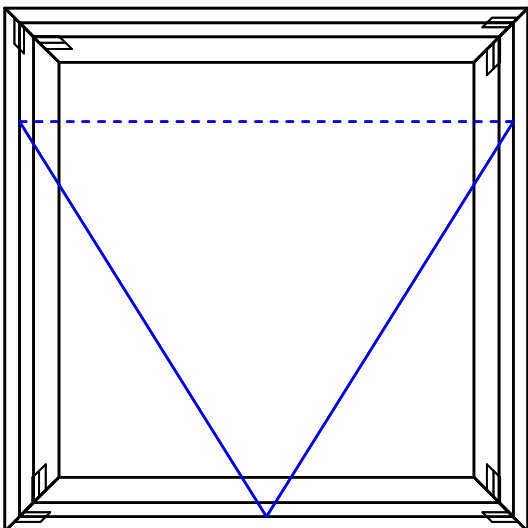
DA-70C



DA-70C SIDE HUNG

Frame: K518474

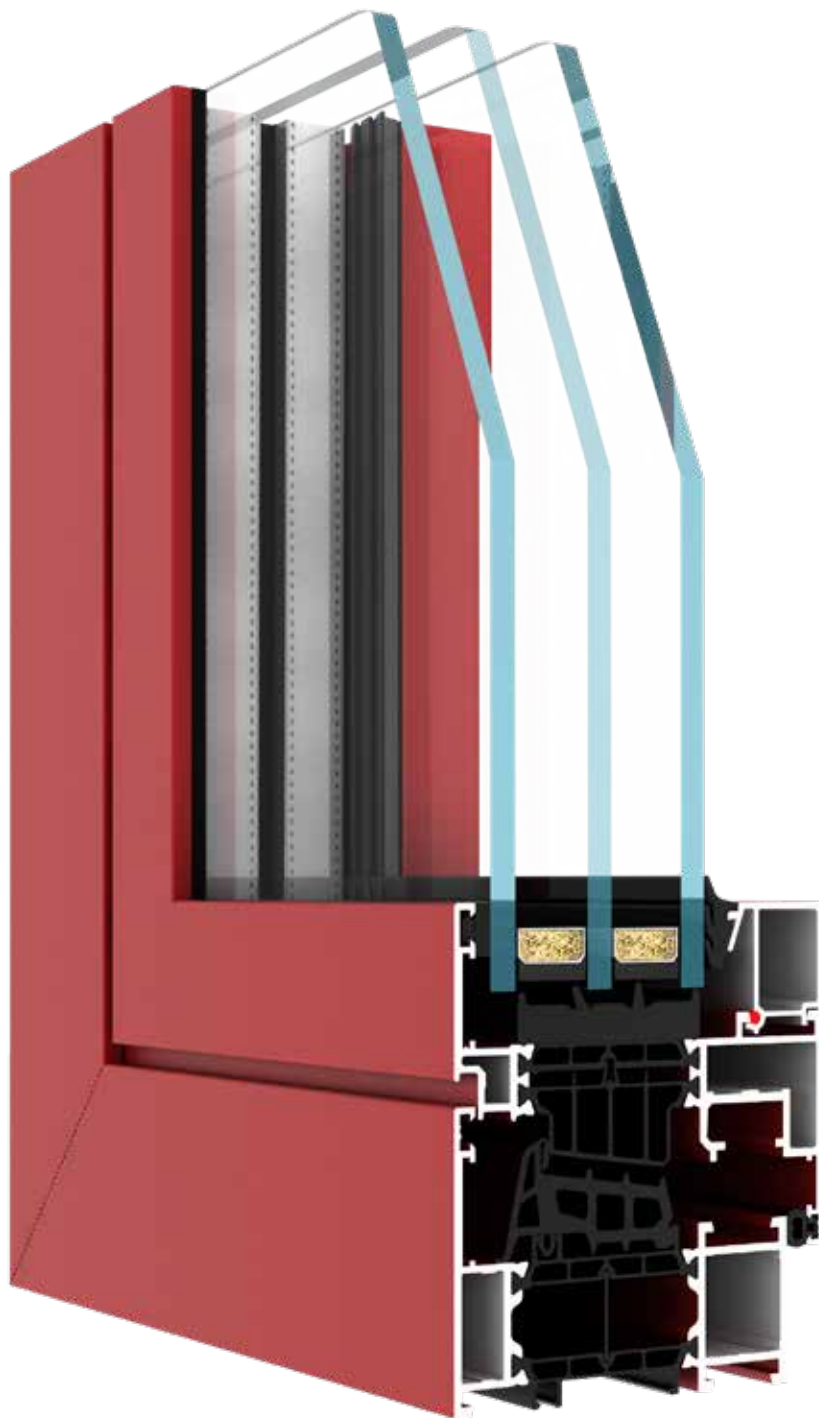
Sash: K518472

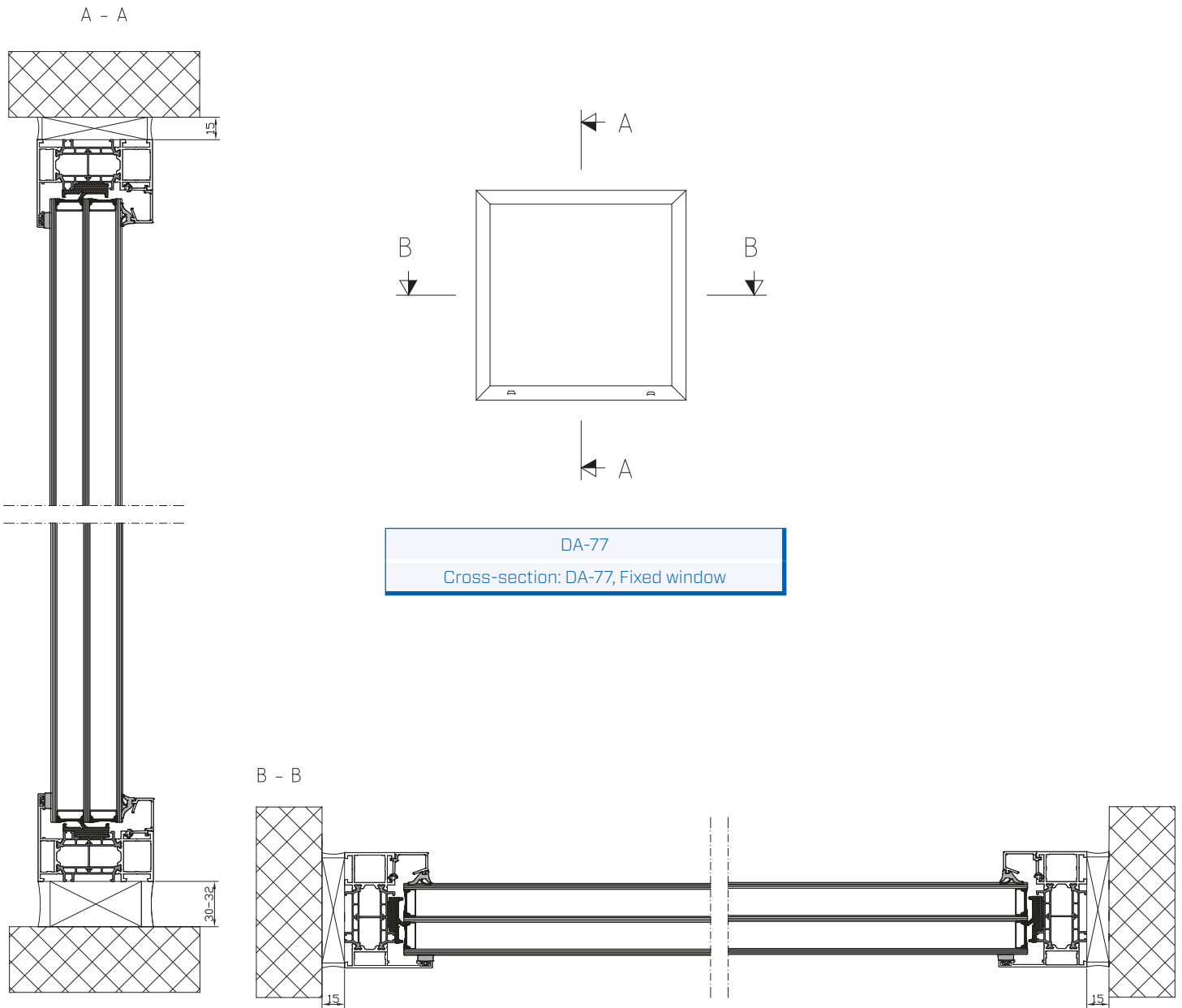


DA-70C TOP HUNG

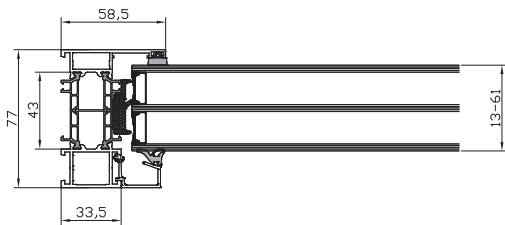
Frame: K518474

Sash: K518472

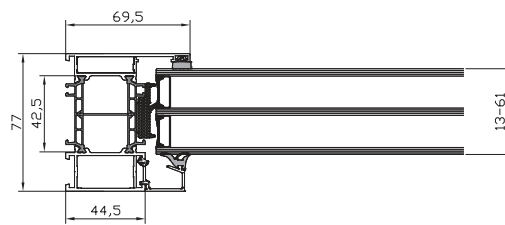




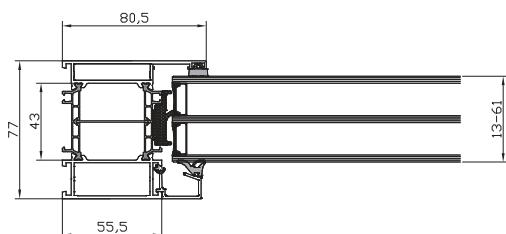
CROSS-SECTION A-A AND B-B



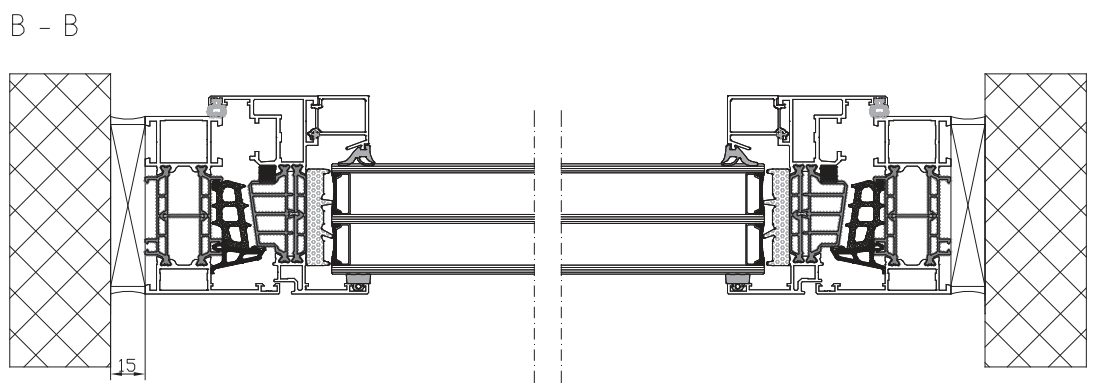
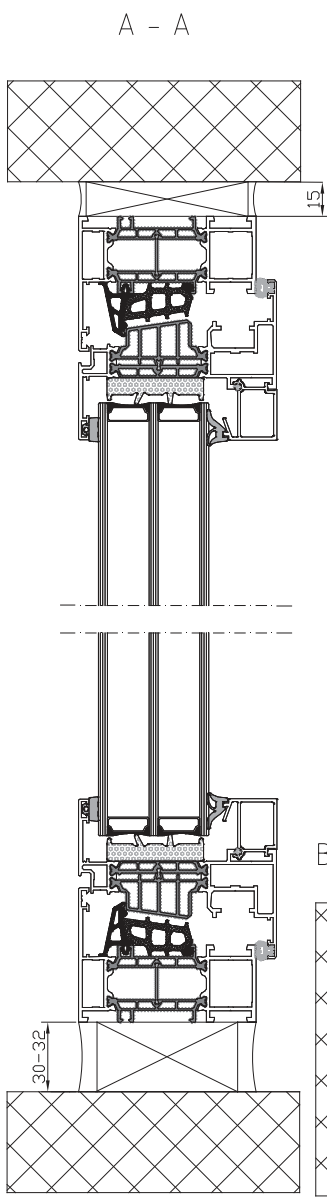
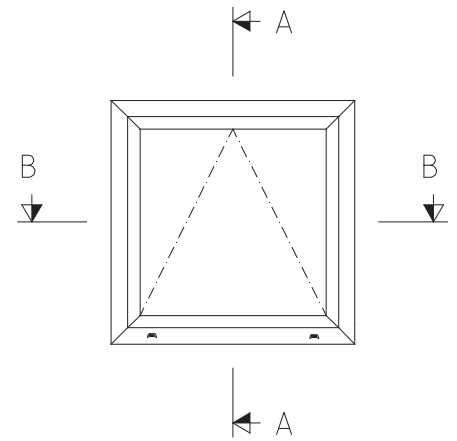
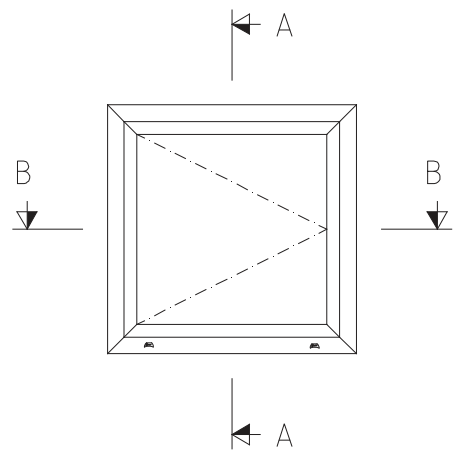
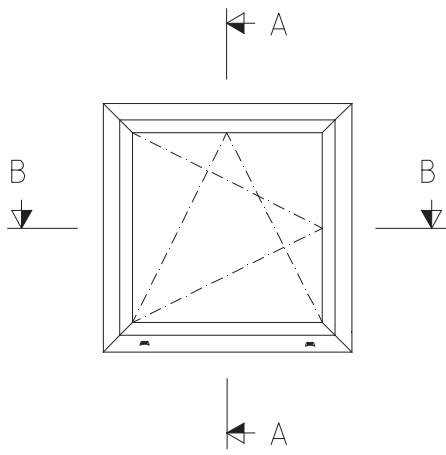
DA-77 FW.01



DA-77 FW.02



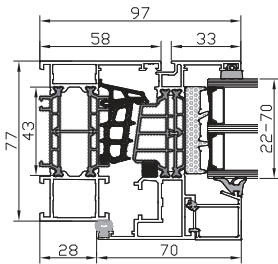
DA-77 FW.03



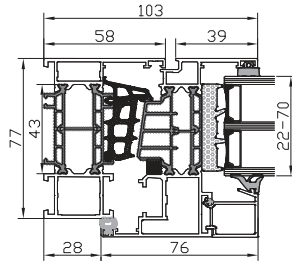
DA-77  
Cross-section: DA-77, 1-sash window



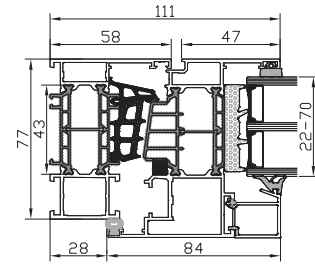
CROSS-SECTION A-A AND B-B



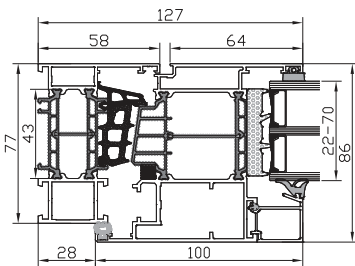
DA-77 FW.01/SW.01



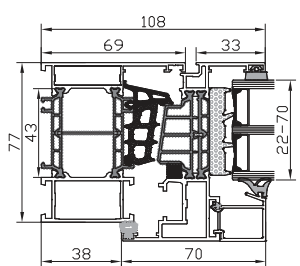
DA-77 FW.01/SW.02



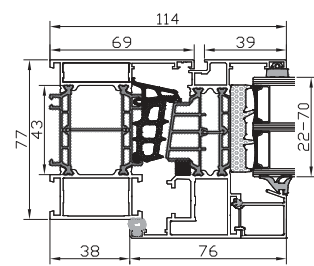
DA-77 FW.01/SW.03



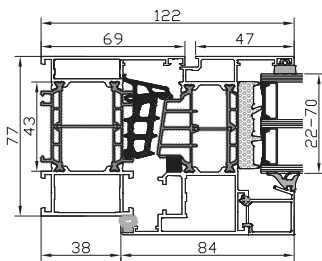
DA-77 FW.01/SW.04



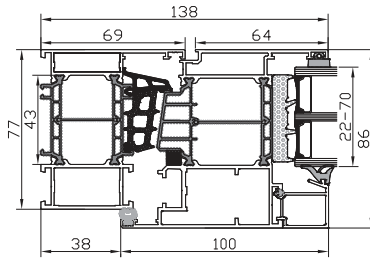
DA-77 FW.02/SW.01



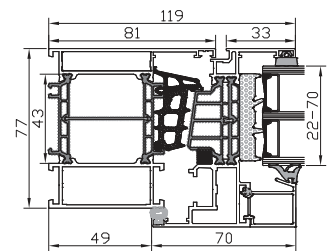
DA-77 FW.02/SW.02



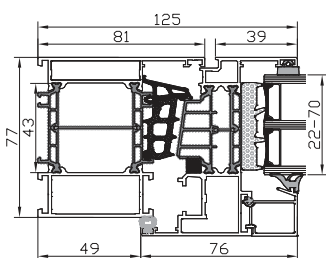
DA-77 FW.02/SW.03



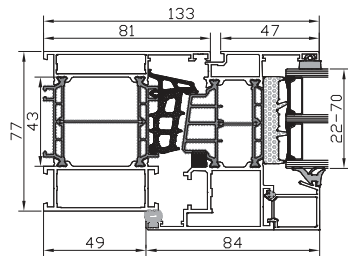
DA-77 FW.02/SW.04



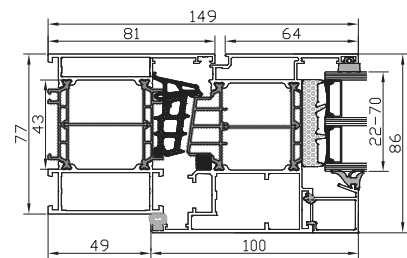
DA-77 FW.03/SW.01



DA-77 FW.03/SW.02

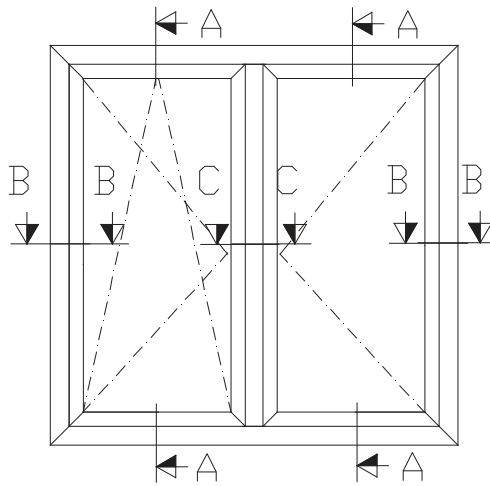
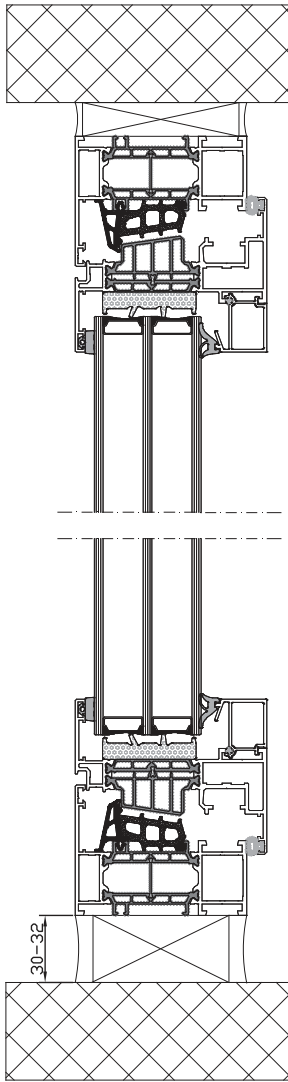


DA-77 FW.03/SW.03



DA-77 FW.03/SW.04

A - A

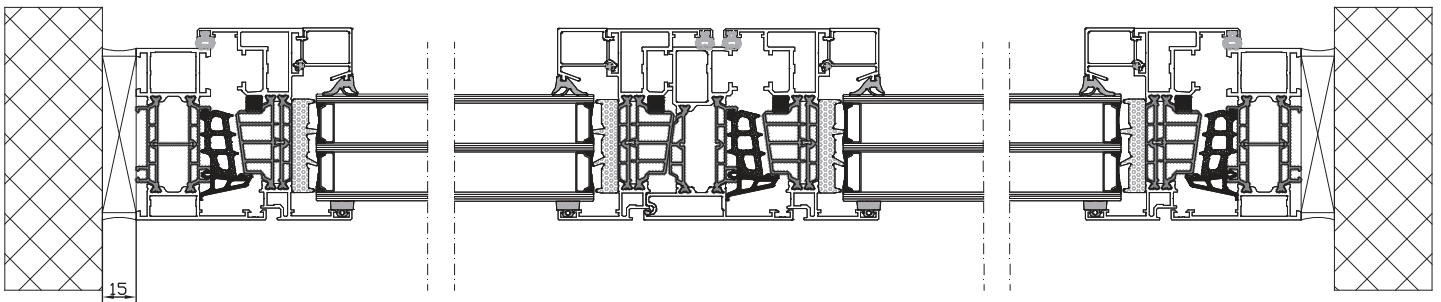


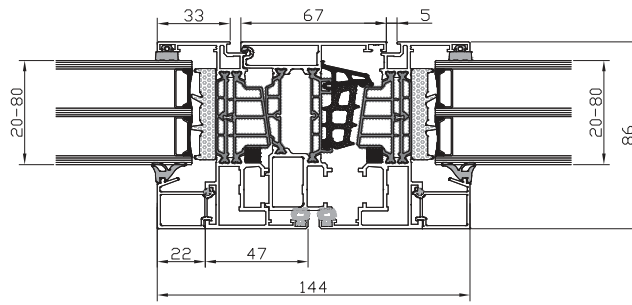
DA-77  
 Cross-section: DA-77, window with a movable mullion

B - B

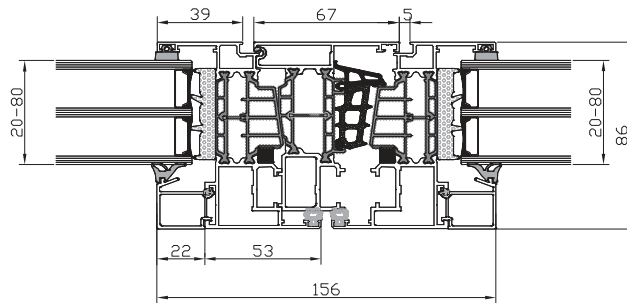
C - C

B - B

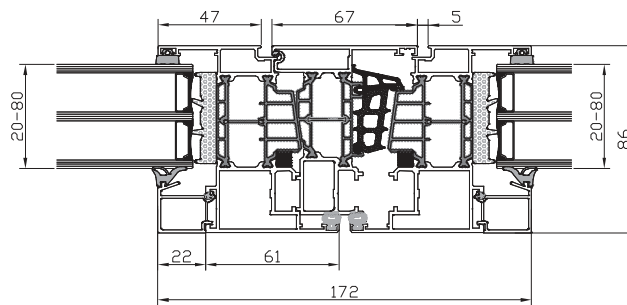




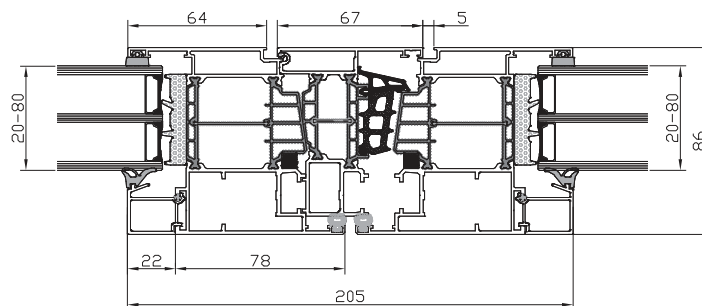
DA-77 SW.01/MP.01/SW.01



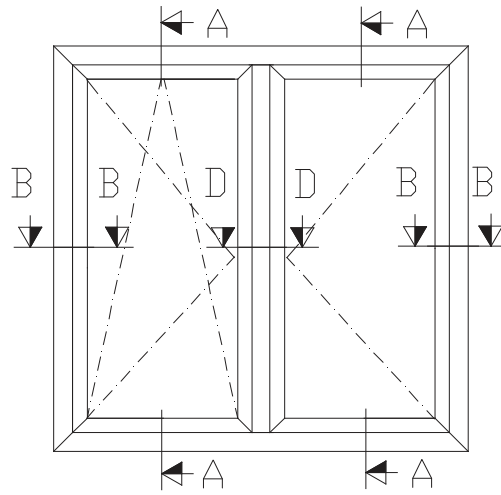
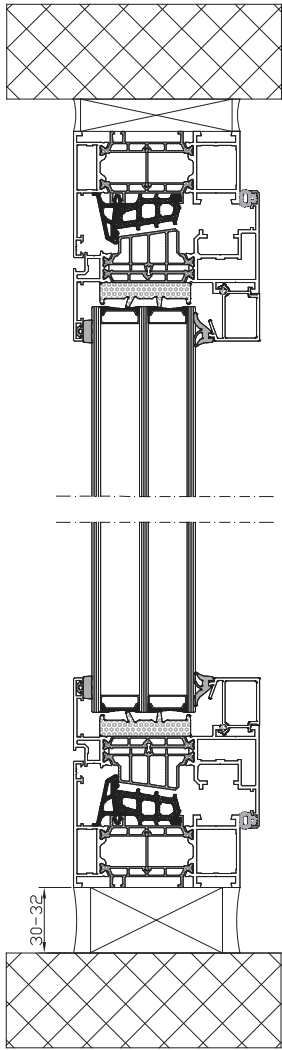
DA-77 SW.02/MP.01/SW.02



DA-77 SW.03/MP.01/SW.03



DA-77 SW.04/MP.01/SW.04

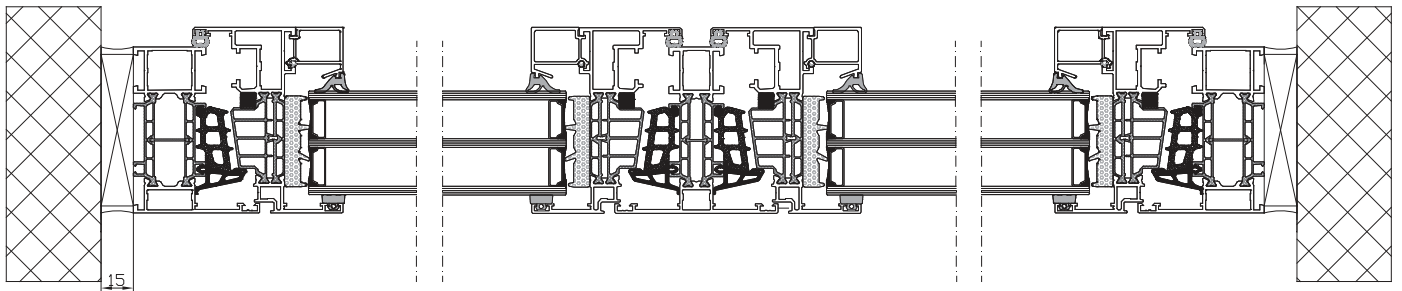


DA-77  
 Cross-section: DA-77, tilt-and-turn window with  
 a fixed window

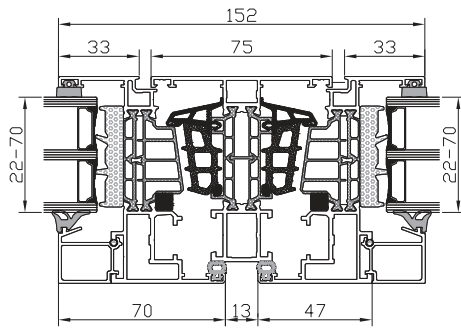
B - B

D - D

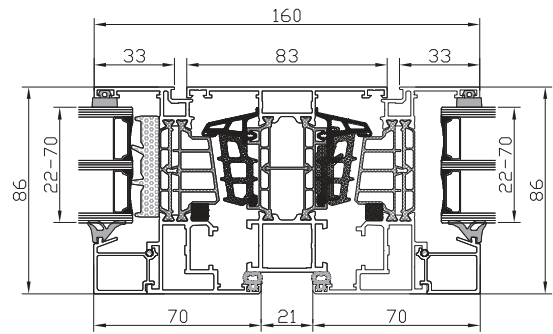
B - B



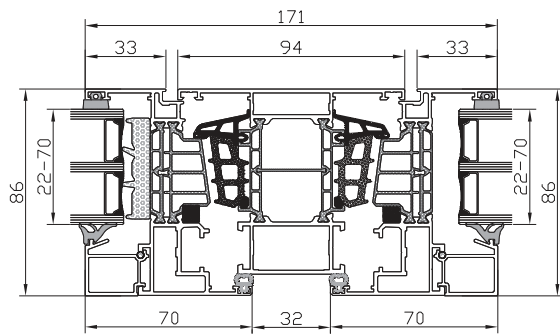
CROSS-SECTION D-D



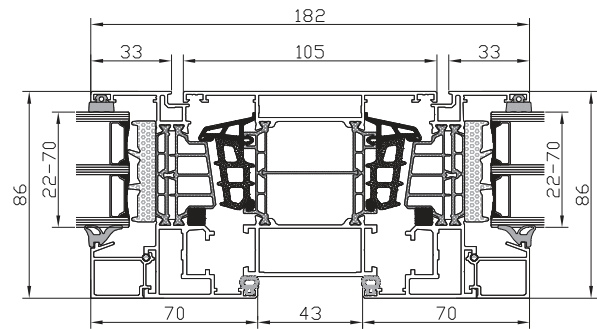
DA-77 SW.01/PP.01/SW.01



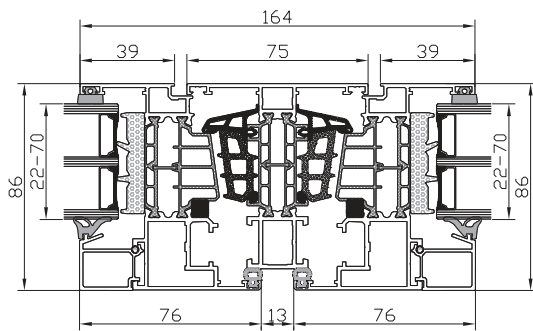
DA-77 SW.01/PP.02/SW.01



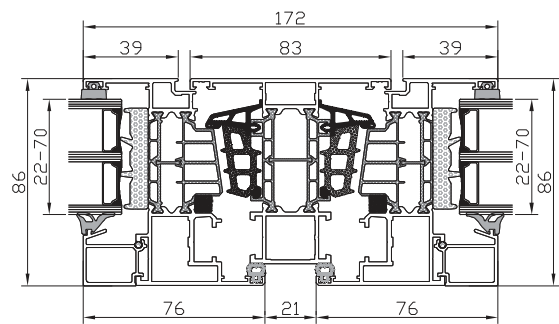
DA-77 SW.01/PP.03/SW.01



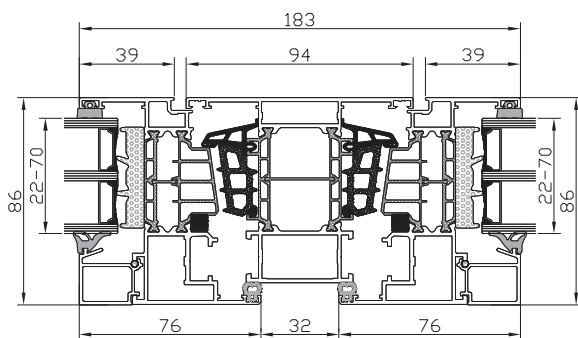
DA-77 SW.01/PP.04/SW.01



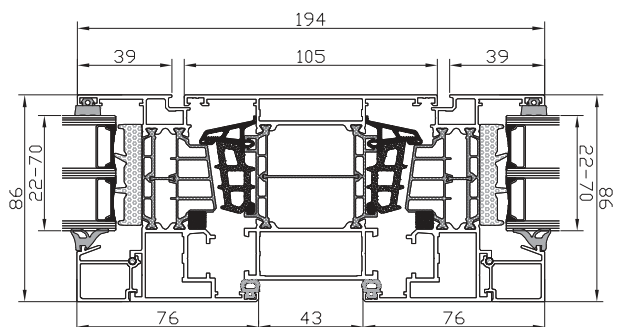
DA-77 SW.02/PP.01/SW.02



DA-77 SW.02/PP.02/SW.02

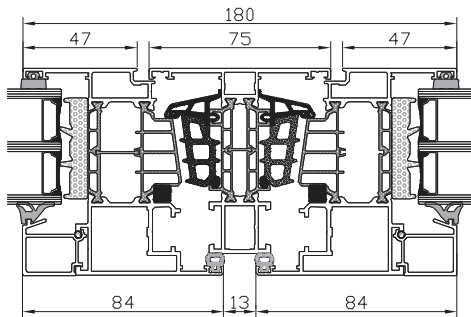


DA-77 SW.02/PP.03/SW.02

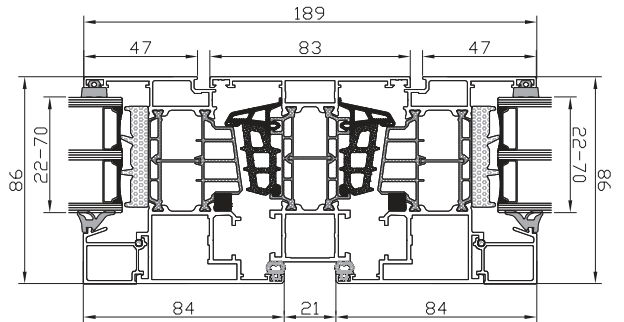


DA-77 SW.02/PP.04/SW.02

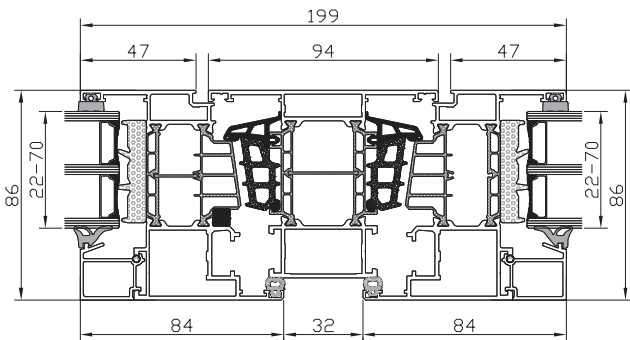
CROSS-SECTION D-D



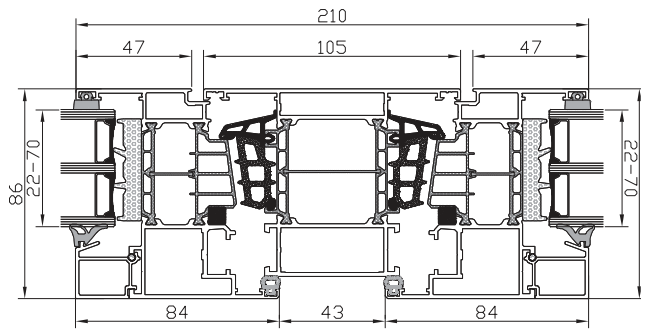
DA-77 SW.03/PP.01/SW.03



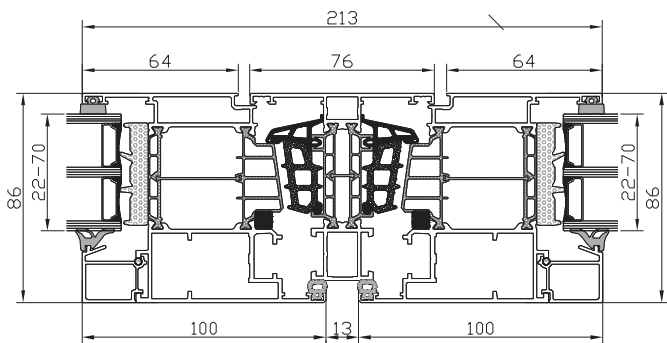
DA-77 SW.03/PP.02/SW.03



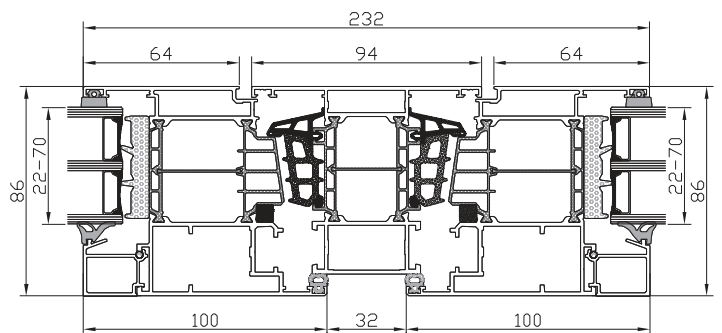
DA-77 SW.03/PP.03/SW.03



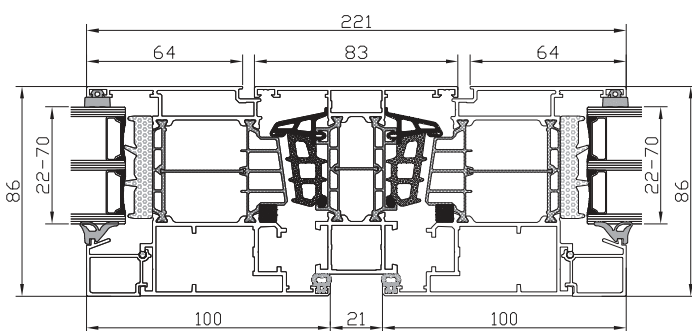
DA-77 SW.03/PP.04/SW.03



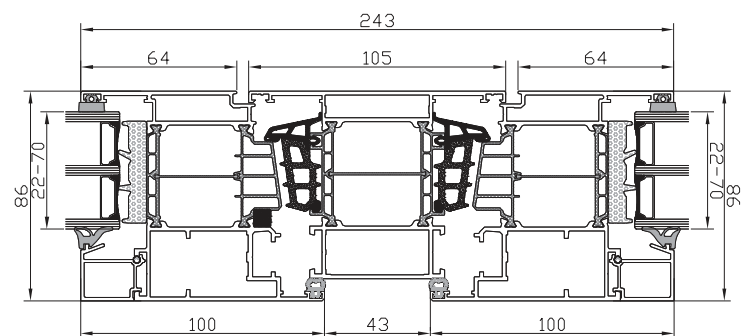
DA-77 SW.04/PP.01/SW.04



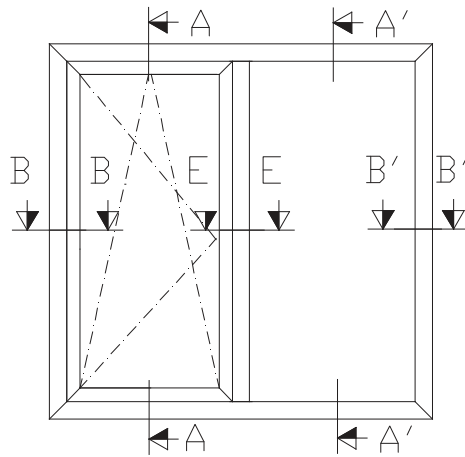
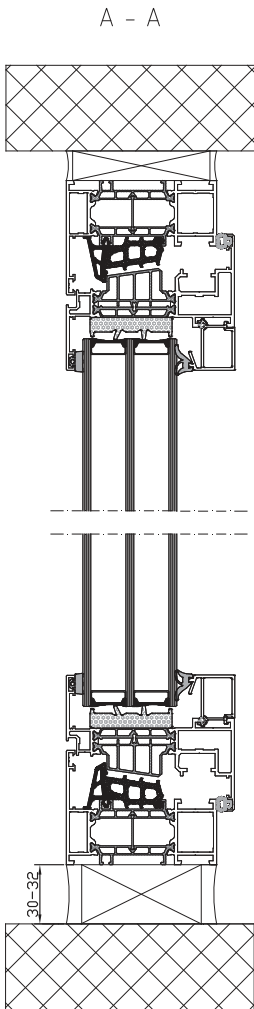
DA-77 SW.04/PP.03/SW.04



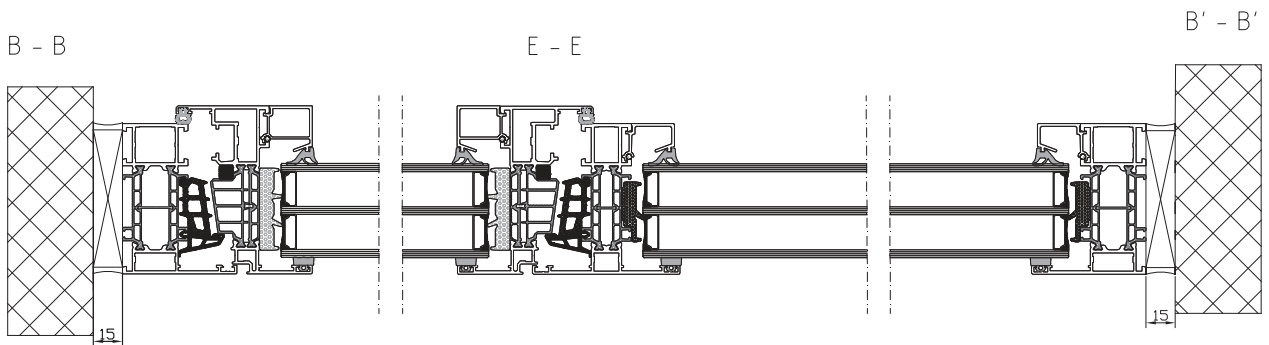
DA-77 SW.04/PP.02/SW.04



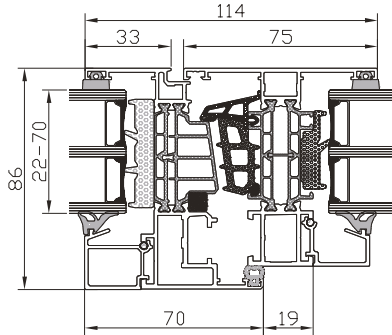
DA-77 SW.04/PP.04/SW.04



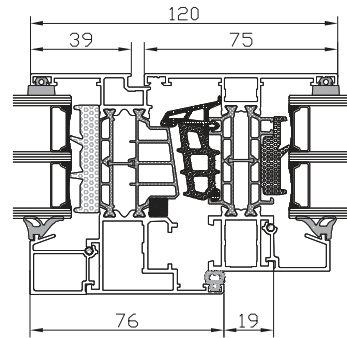
DA-77  
 Cross-section: DA-77, tilt-and-turn window with  
 a fixed window



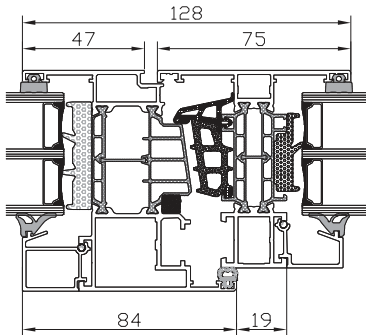
## CROSS-SECTION E-E



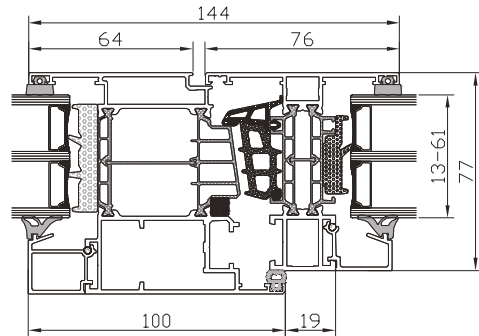
DA-77 SW.01/PP.01



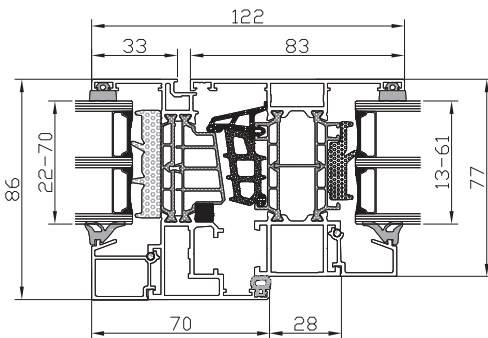
DA-77 SW.02/PP.01



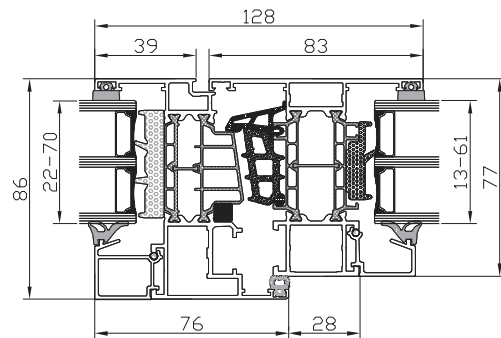
DA-77 SW.03/PP.01



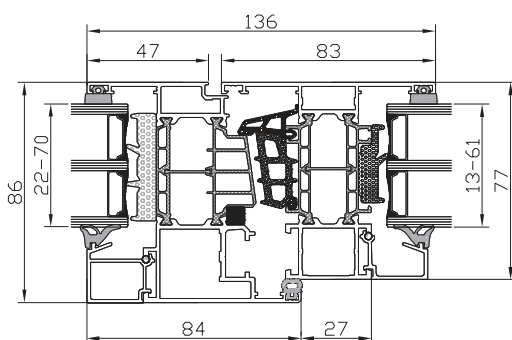
DA-77 SW.04/PP.01



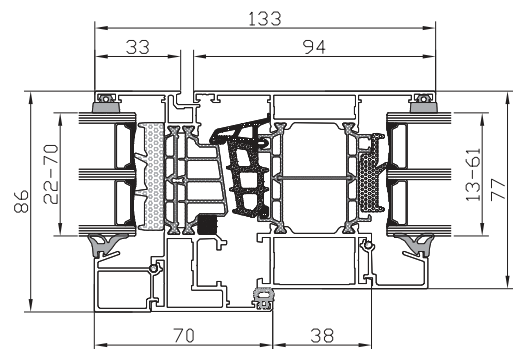
DA-77 SW.01/PP.02



DA-77 SW.02/PP.02

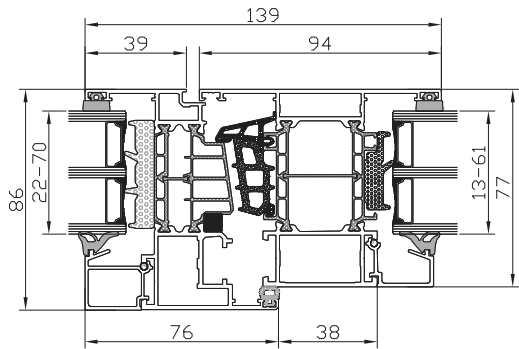


DA-77 SW.03/PP.02

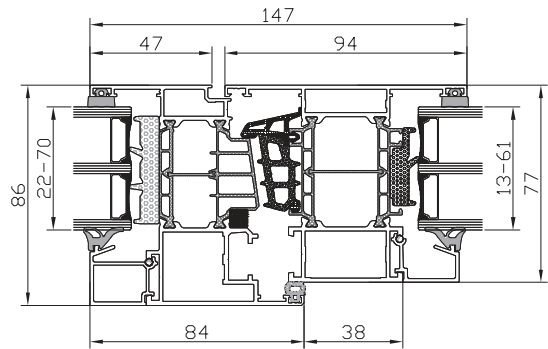


DA-77 SW.01/PP.03

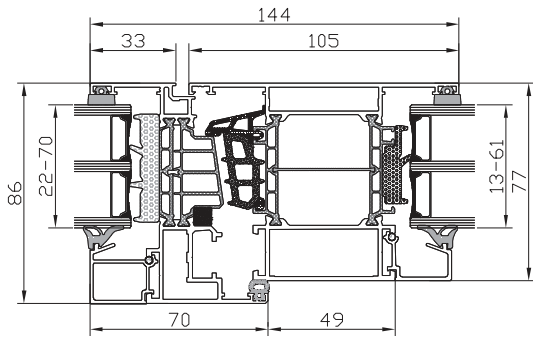




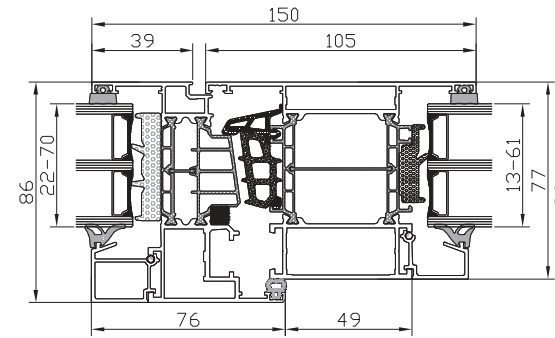
DA-77 SW.02/PP.03



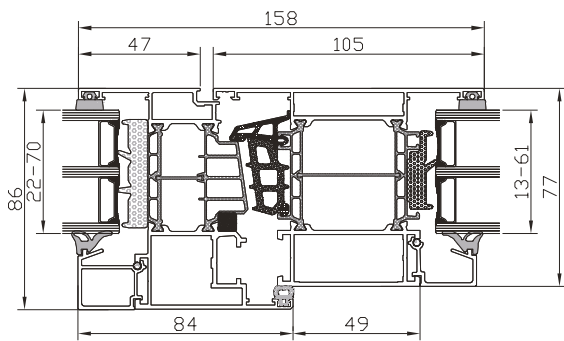
DA-77 SW.03/PP.03



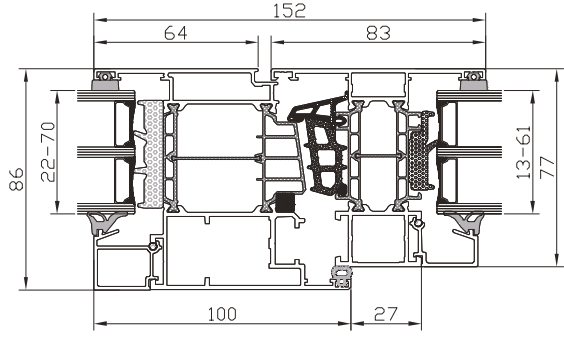
DA-77 SW.01/PP.04



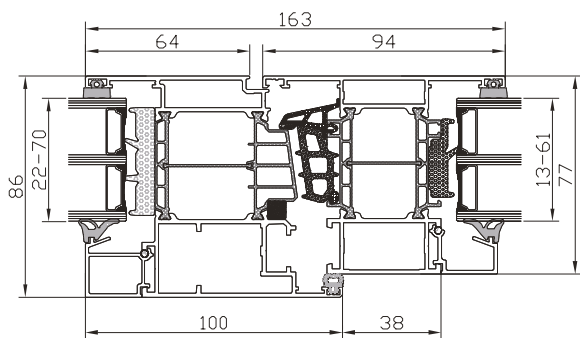
DA-77 SW.02/PP.04



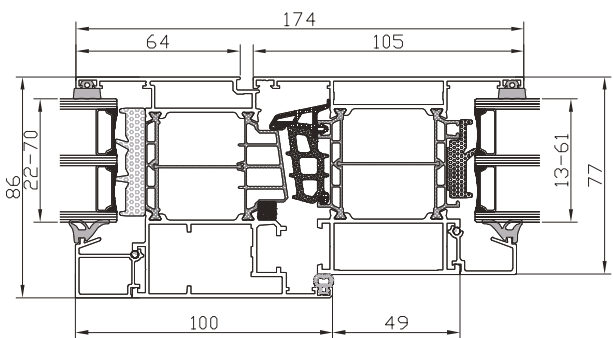
DA-77 SW.03/PP.04



DA-77 SW.04/PP.02

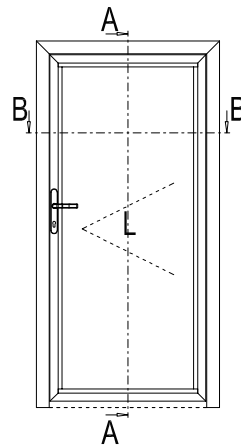
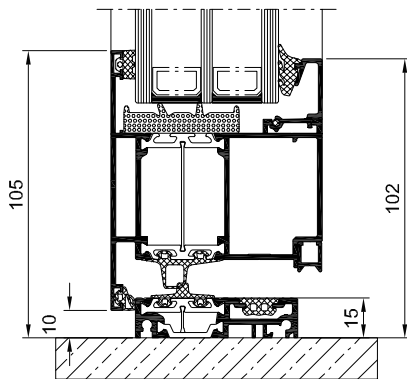
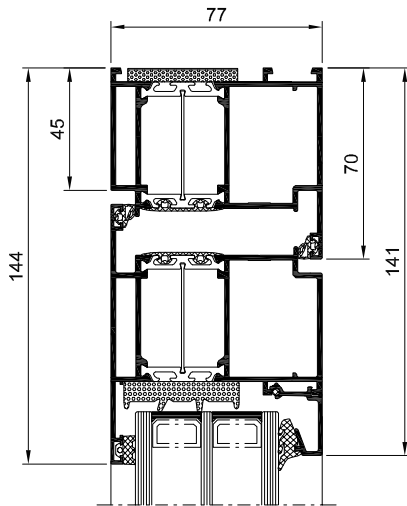


DA-77 SW.04/PP.03

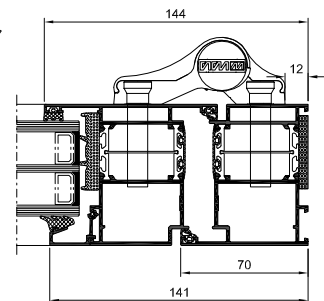
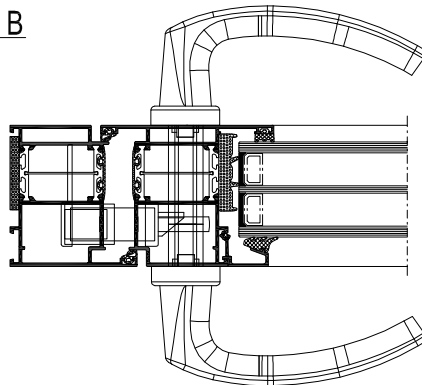


DA-77 SW.04/PP.04

## A - A

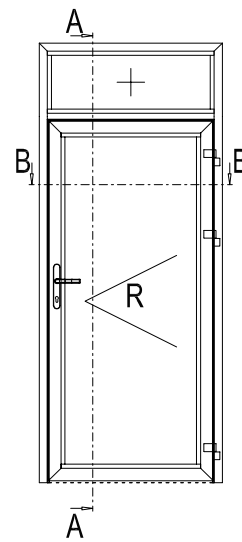
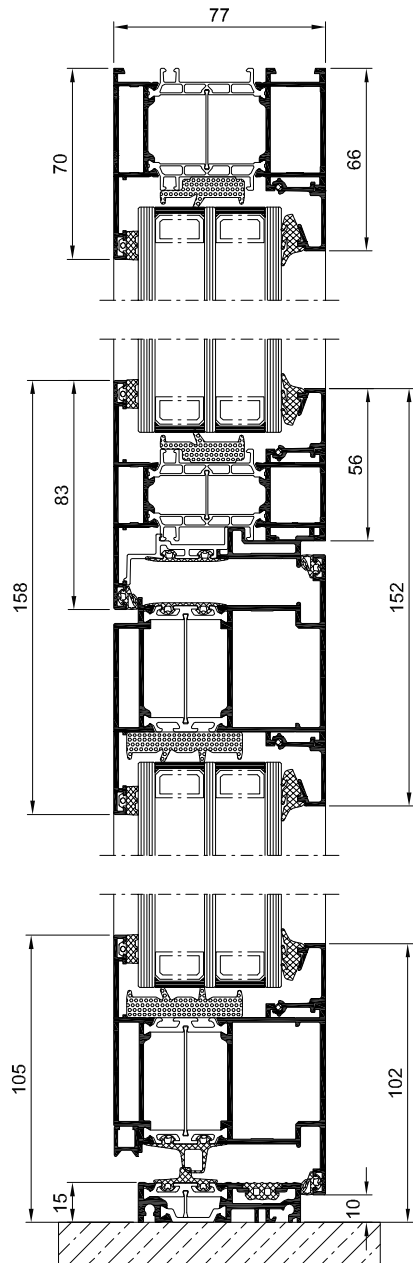


## B - B

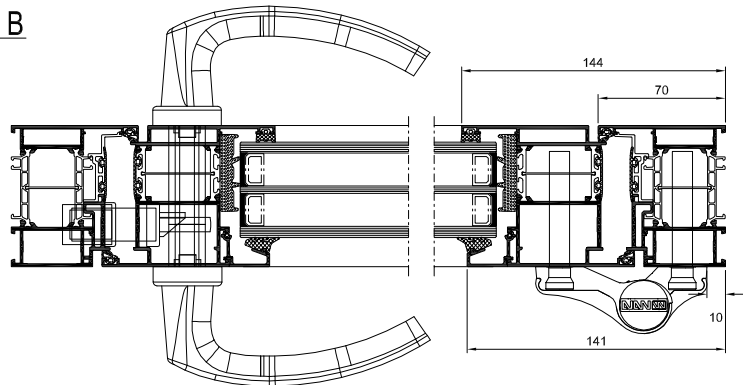


DA-77

1-sash door

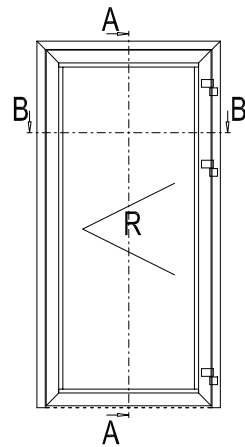
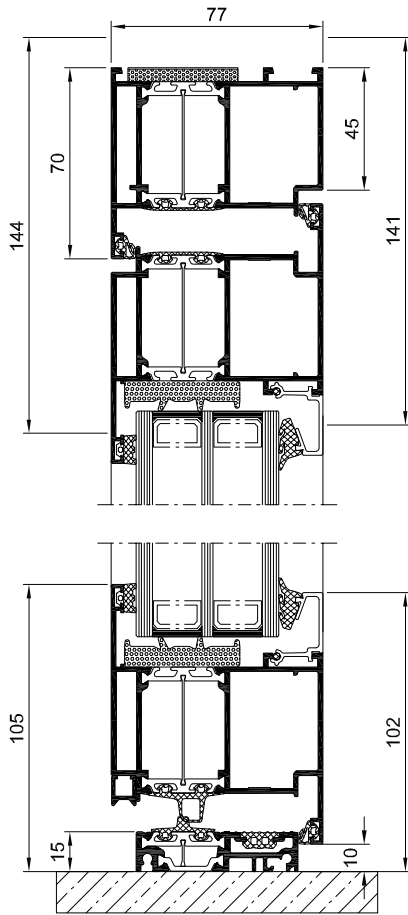


**B - B**

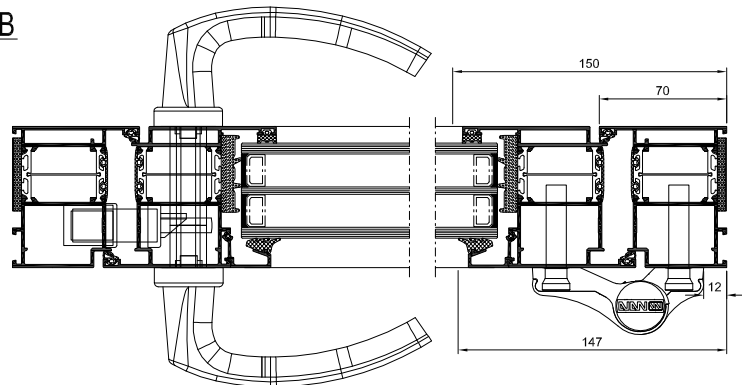


DA-77  
1-sash door with a transom

A - A



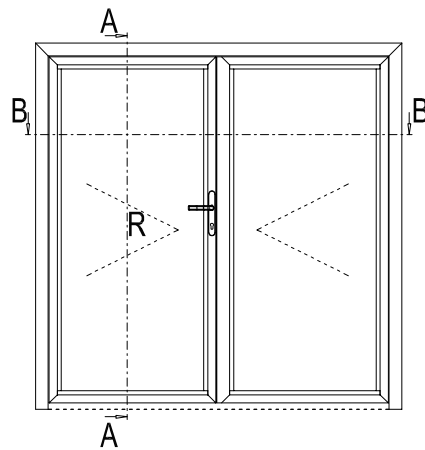
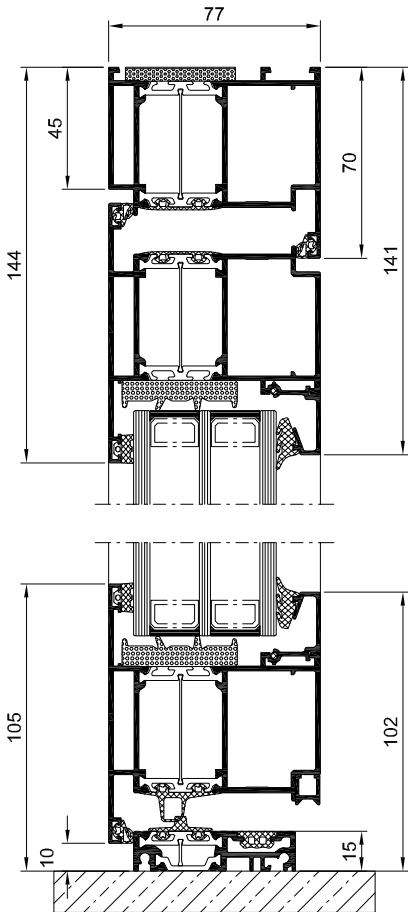
B - B



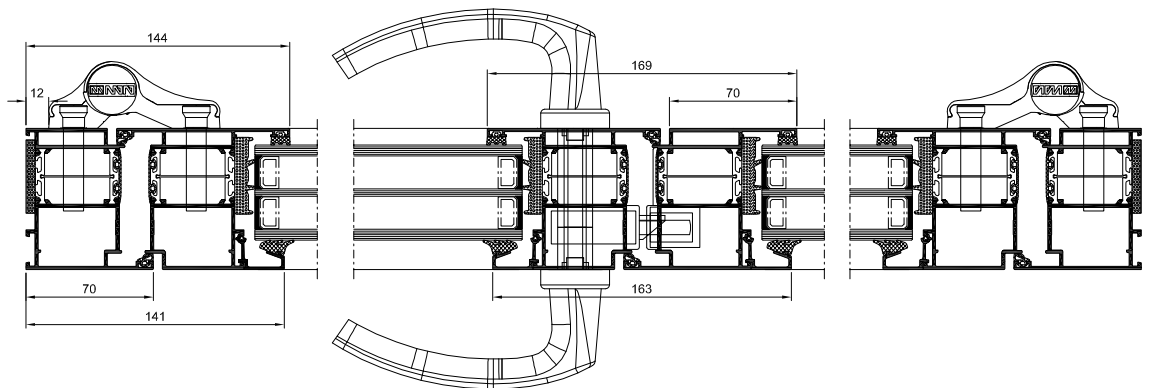
DA-77

1-sash door

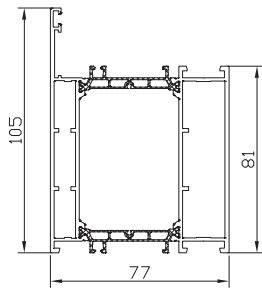
A - A



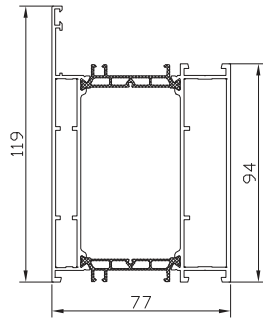
B - B



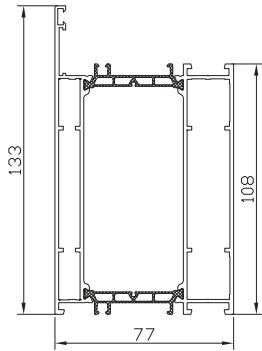
DA-77  
1-sash door with an opening vertical fixed window



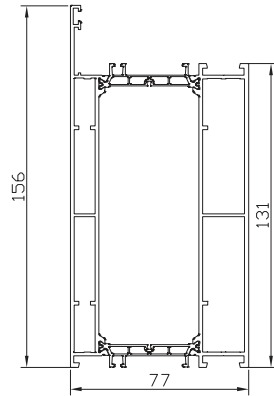
DA-77  
Frame FW.04



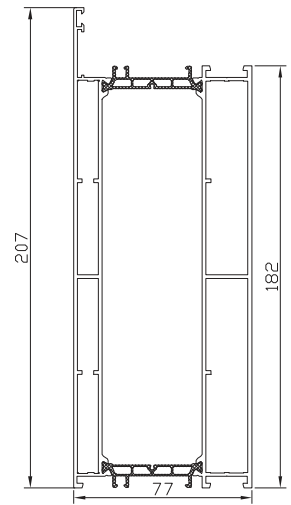
DA-77  
Frame FW.05



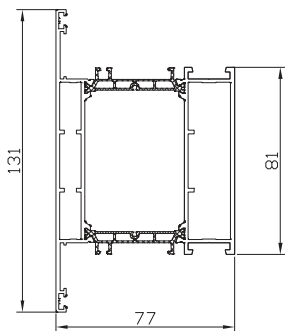
DA-77  
Frame FW.06



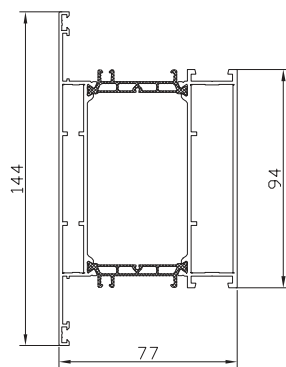
DA-77  
Frame FW.07



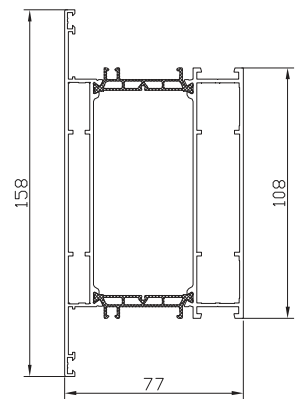
DA-77  
Frame FW.08



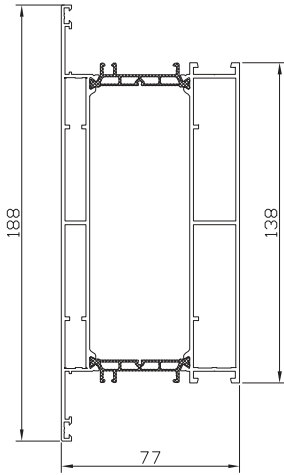
DA-77  
Fixed mullion PP.05



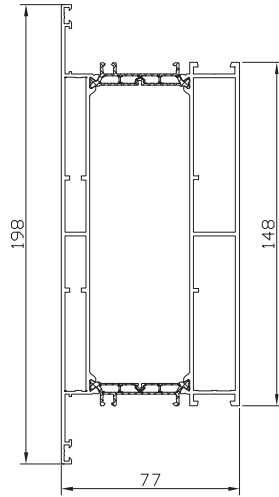
DA-77  
Fixed mullion PP.06



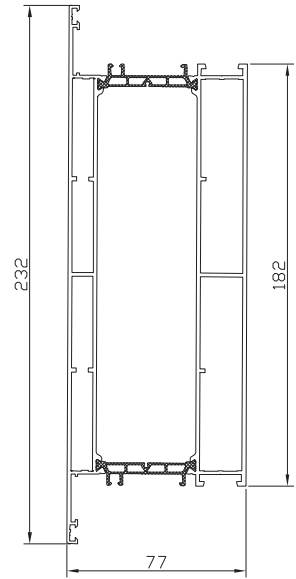
DA-77  
Fixed mullion PP.07



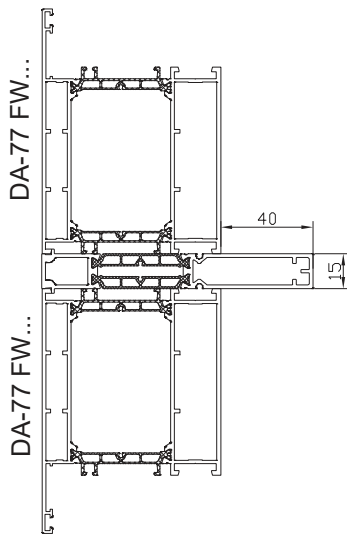
DA-77  
Fixed mullion PP.08



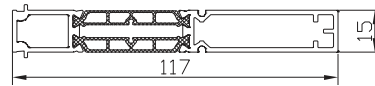
DA-77  
Fixed mullion PP.09



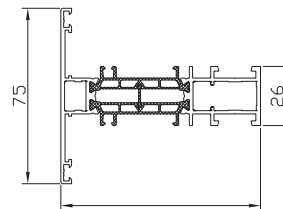
DA-77  
Fixed mullion PP.10



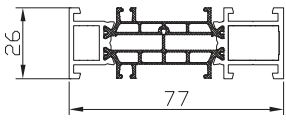
DA-77  
Expansion Joint FW...



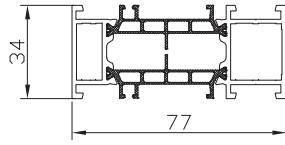
DA-77  
Expansion Joint CP.01



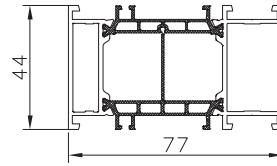
DA-77  
Crossbar in the frame  
SWP.01



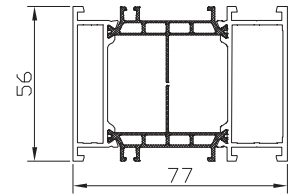
DA-77  
Expander SP.01



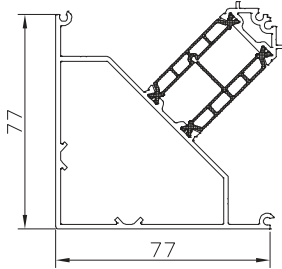
DA-77  
Expander SP.02



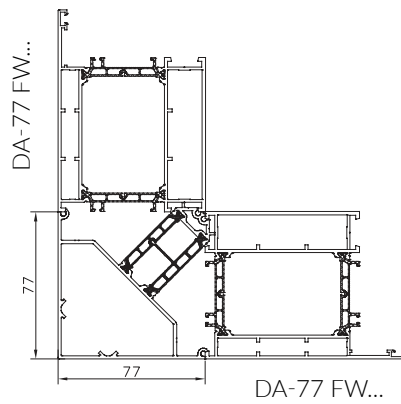
DA-77  
Expander SP.03



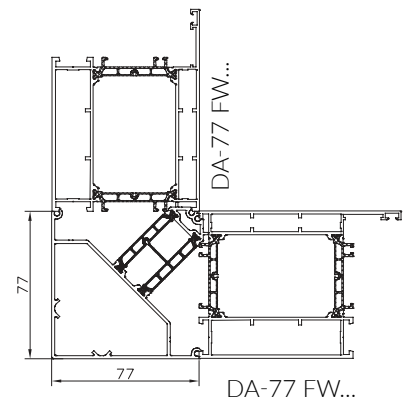
DA-77  
Expander SP.04



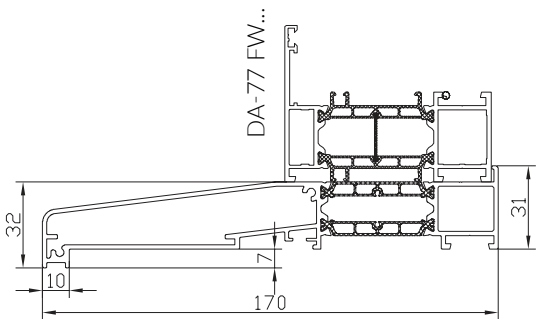
DA-77  
Corner joint 90° CP.02



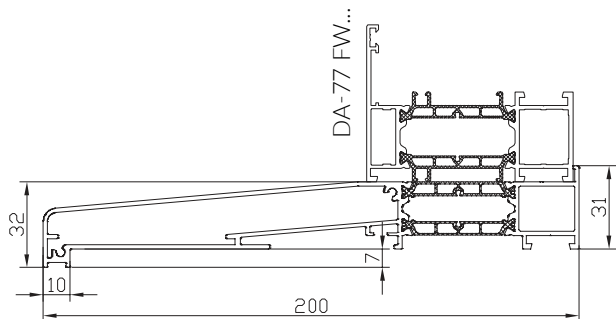
DA-77  
Corner joint 90° FW...



DA-77  
Corner joint 90° FW...

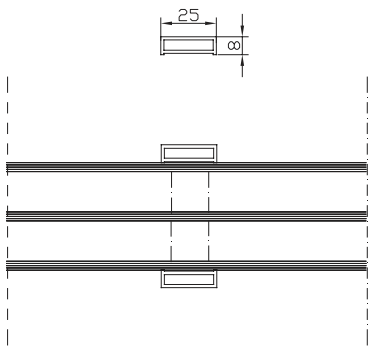


DA-77  
Sill profile  
(window sill) SM.01

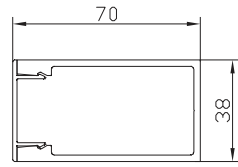


DA-77  
Sill profile  
(window sill) SM.02

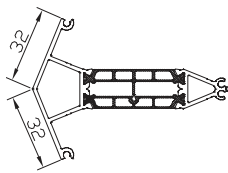
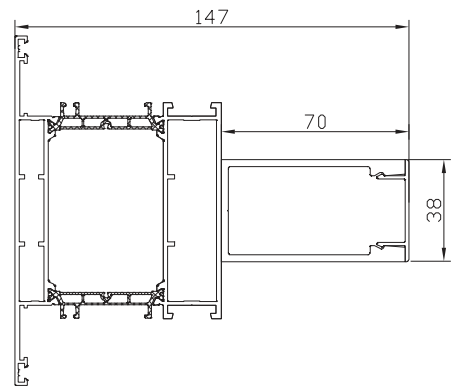




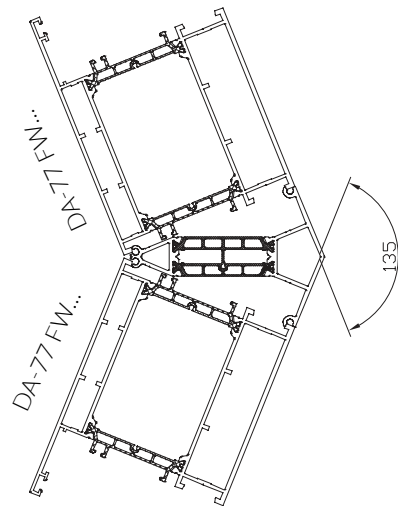
DA-77  
Glued-on muntin bars +  
DUPLEX: inter-pane muntin  
bars SWP.02



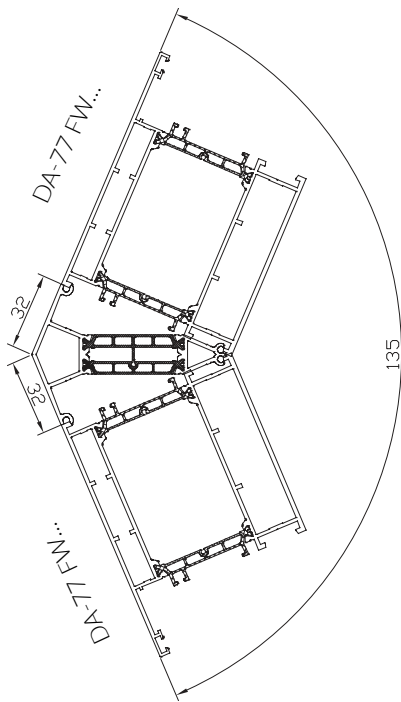
DA-77  
Tube reinforcement RP.01



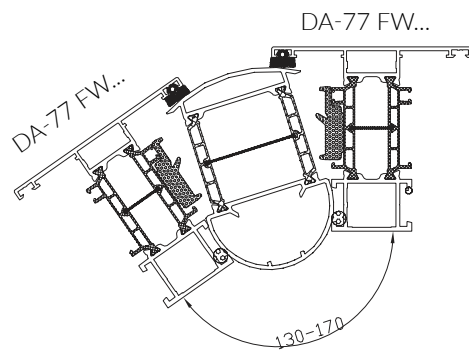
DA-77  
Corner joint CP.03



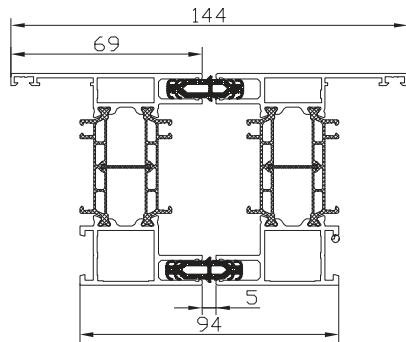
DA-77  
Corner joint FW...



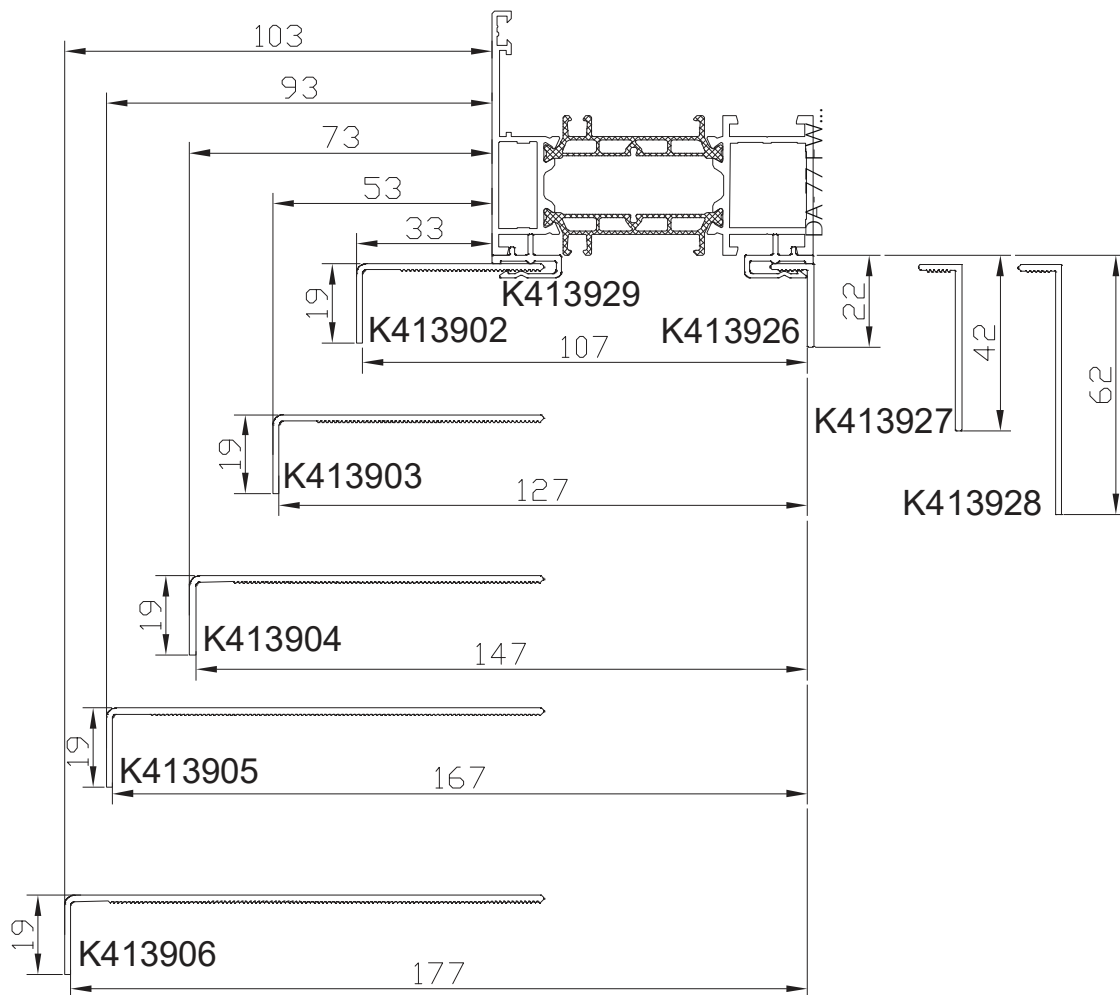
DA-77  
Corner joint FW...



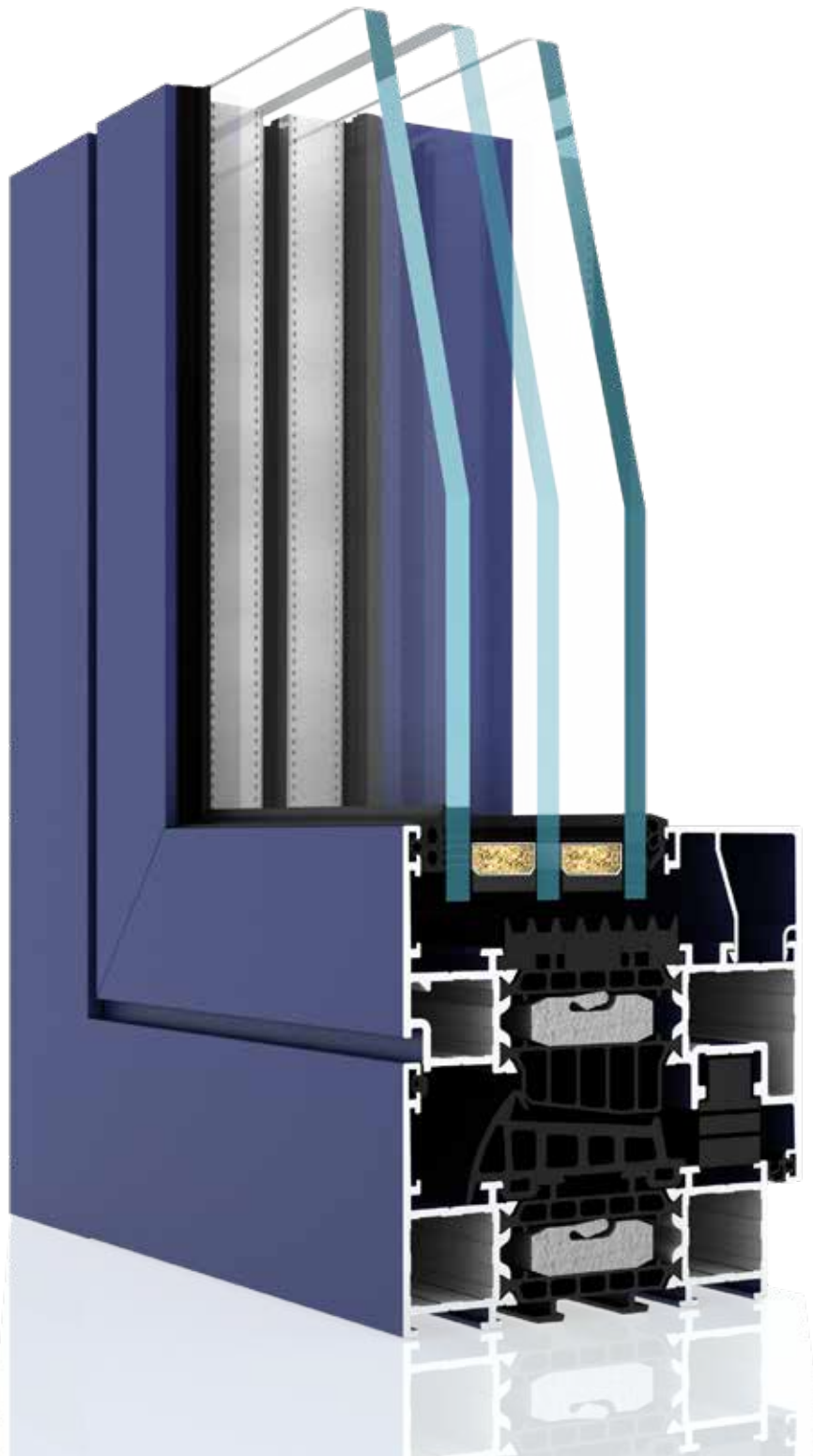
DA-77  
Corner joint PP...



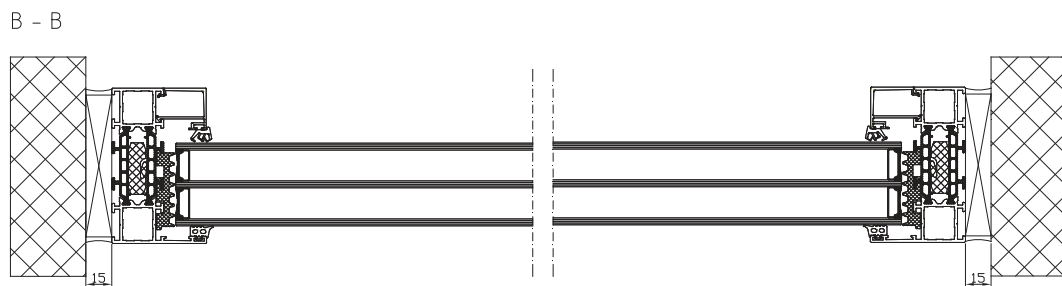
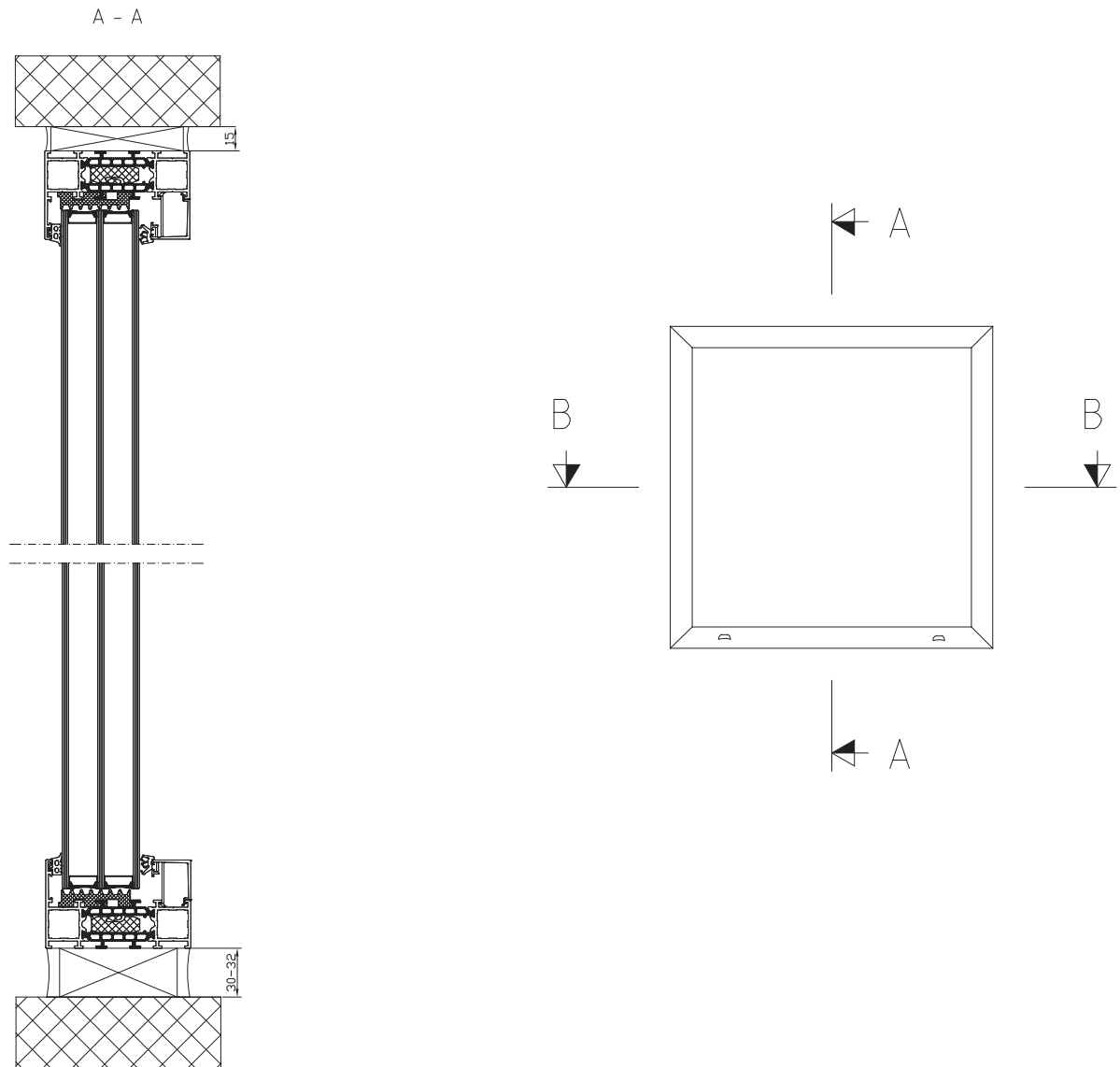
DA-77  
Expansion Joint EP.01



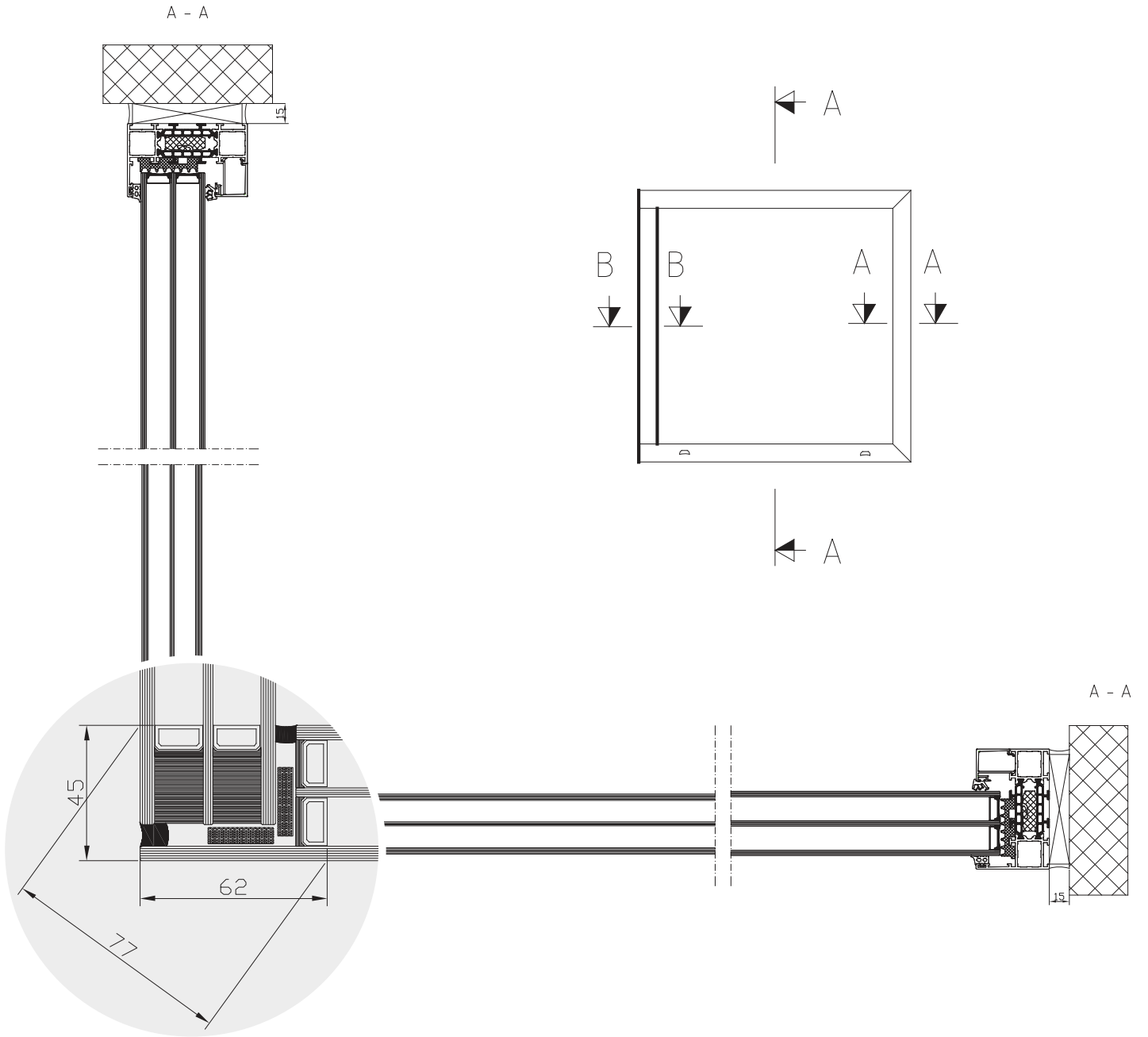
DA-77  
Covering profile for renovation



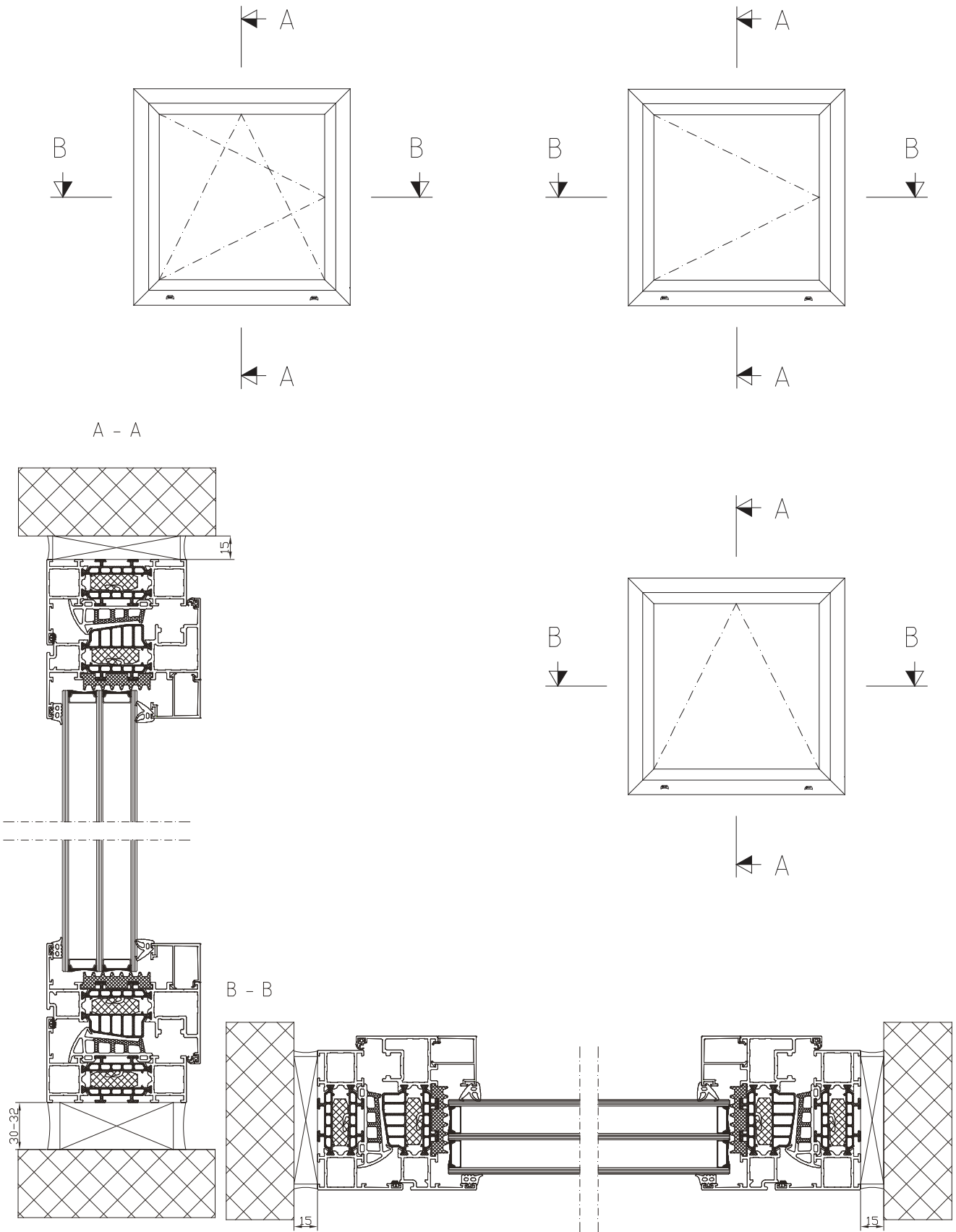
# DA-90 THERMO



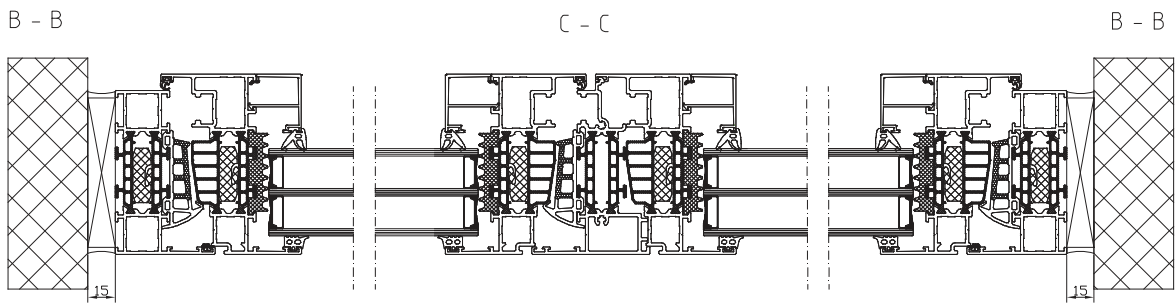
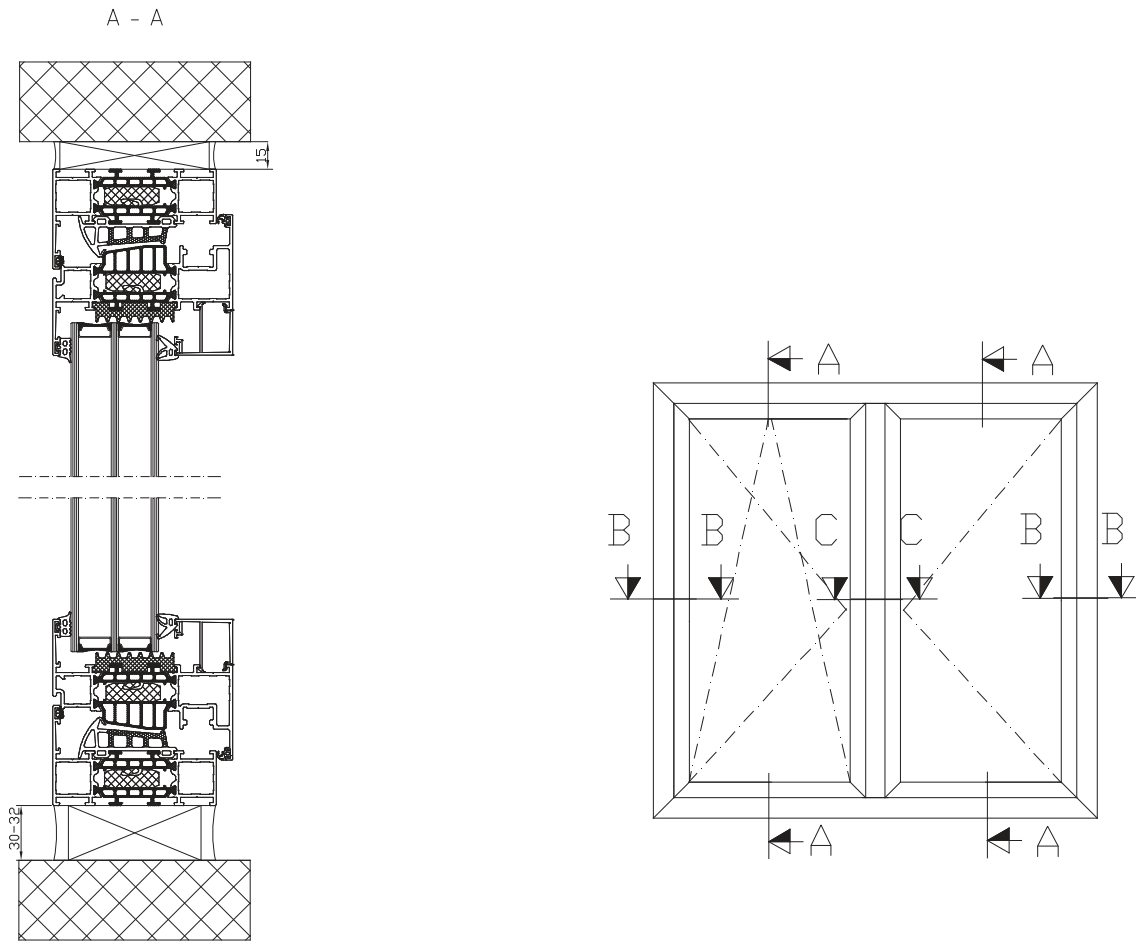
DA-90 thermo  
Fixed window



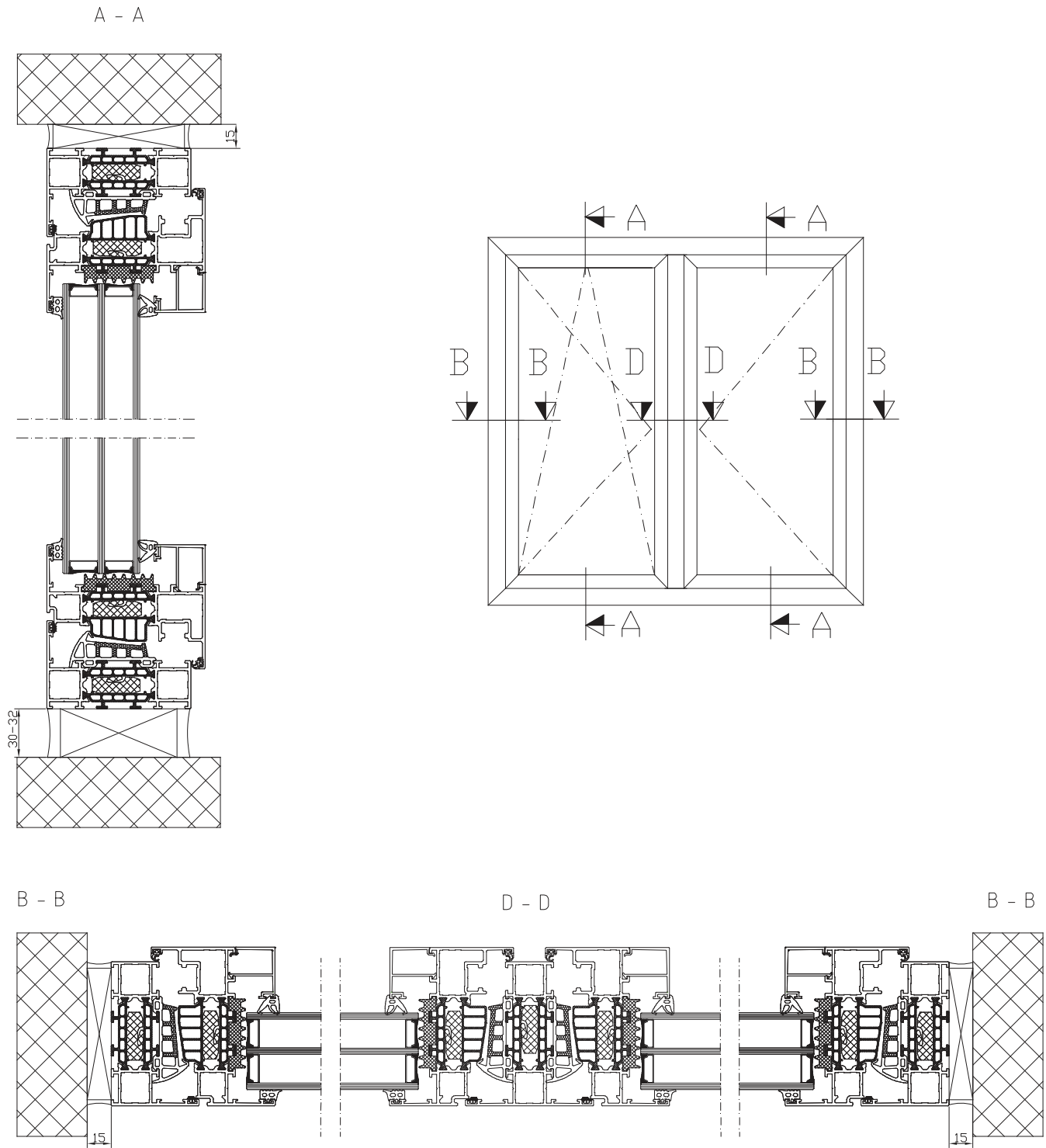
DA-90 thermo  
90 °



DA-90 thermo  
1-sash window



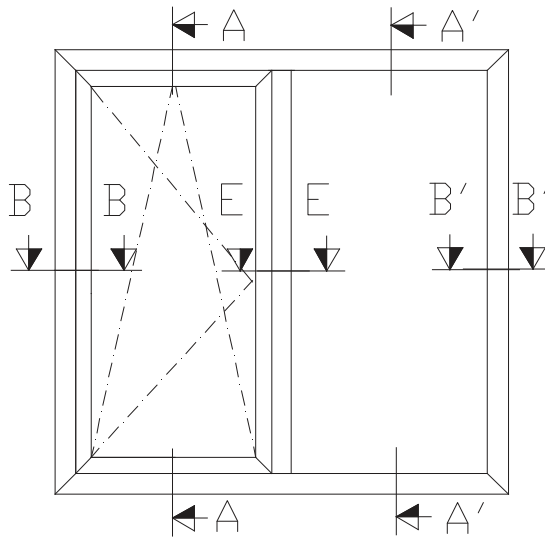
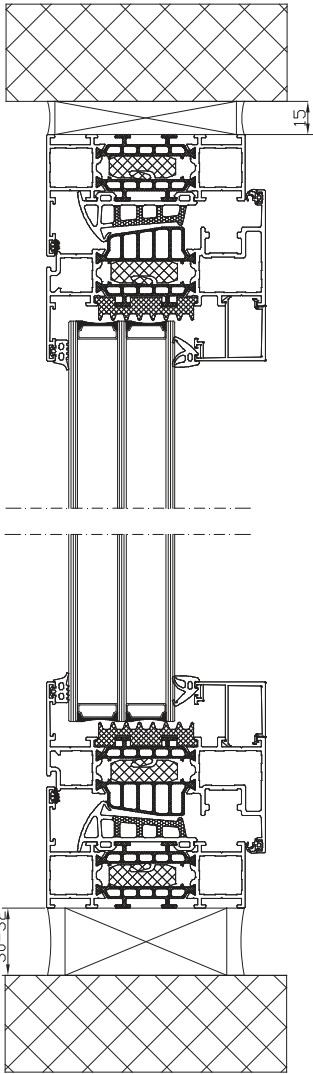
DA-90 thermo  
Window with a movable mullion



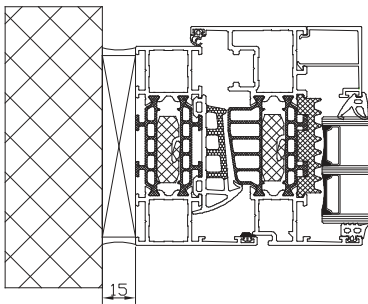
DA-90 thermo  
Window with a fixed mullion



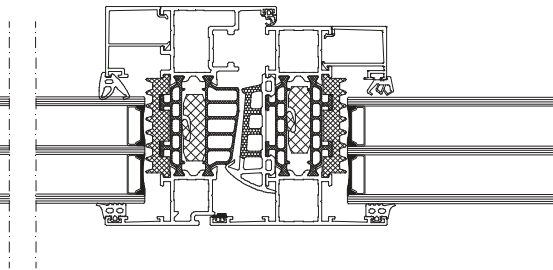
A - A



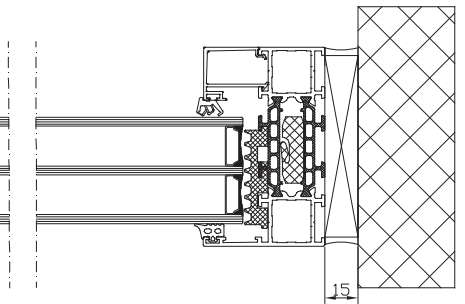
B - B



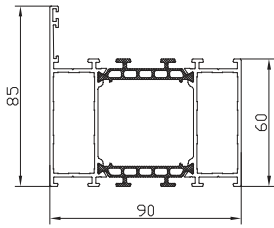
E - E



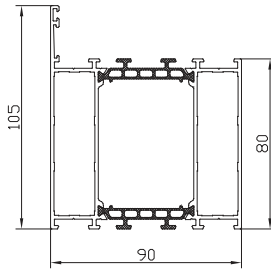
B' - B'



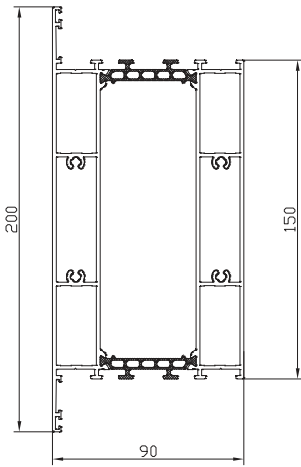
DA-90 thermo  
Tilt-and-turn window + fixed



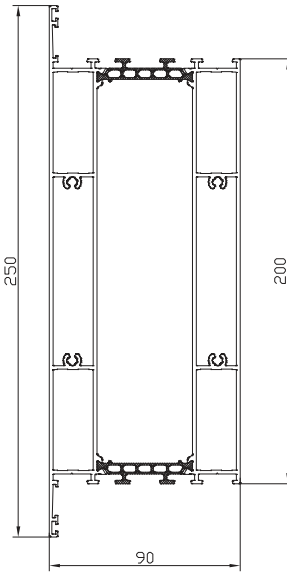
DA-90 thermo  
Frame DA-90Thermo FW.04



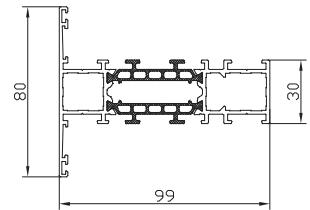
DA-90 thermo  
Frame DA-90Thermo FW.05



DA-90 thermo  
Fixed mullion DA-90Thermo PP.05

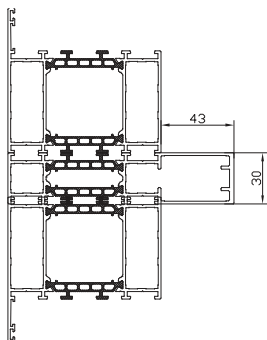


DA-90 thermo  
Fixed mullion DA-90Thermo PP.06

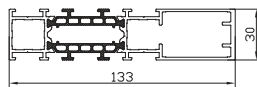


DA-90 thermo  
Mullion in the sash DA-90Thermo SWP.01

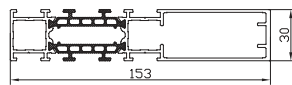
DA-90 THERMO FW... DA-90 THERMO FW...



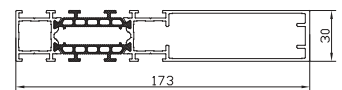
DA-90 thermo  
Expansion Joint DA-90Thermo FW...



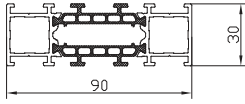
DA-90 thermo  
Expansion Joint DA-90Thermo CP.01



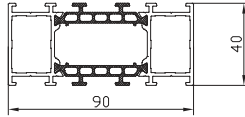
DA-90 thermo  
Expansion Joint DA-90Thermo CP.02



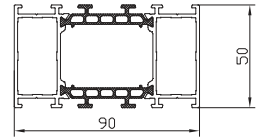
DA-90 thermo  
Expansion Joint DA-90Thermo CP.03



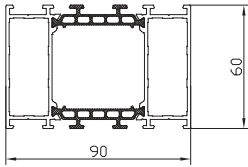
DA-90 thermo  
Expander DA-90Thermo SP.01



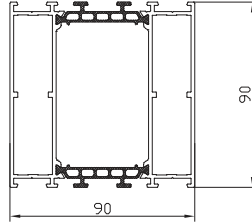
DA-90 thermo  
Expander DA-90Thermo SP.02



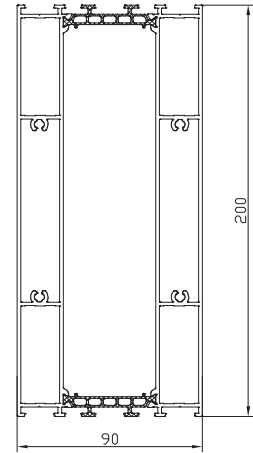
DA-90 thermo  
Expander DA-90Thermo SP.03



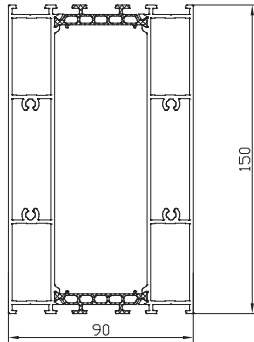
DA-90 thermo  
Expander DA-90Thermo SP.04



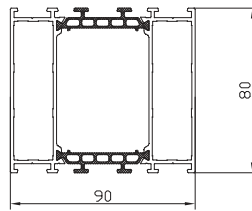
DA-90 thermo  
Expander DA-90Thermo SP.06



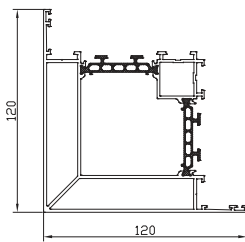
DA-90 thermo  
Expander DA-90Thermo SP.08



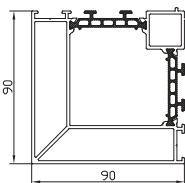
DA-90 thermo  
Expander DA-90Thermo SP.07



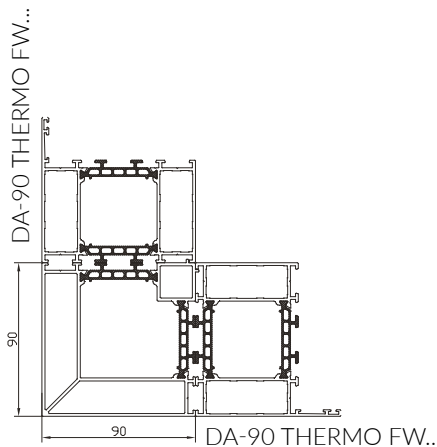
DA-90 thermo  
Expander DA-90Thermo SP.05



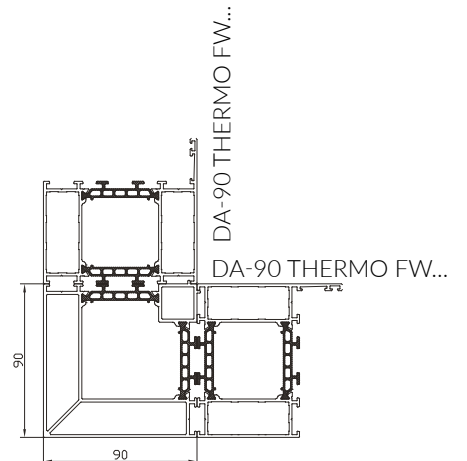
DA-90 thermo  
Corner joint 90° DA-90Thermo CP.05



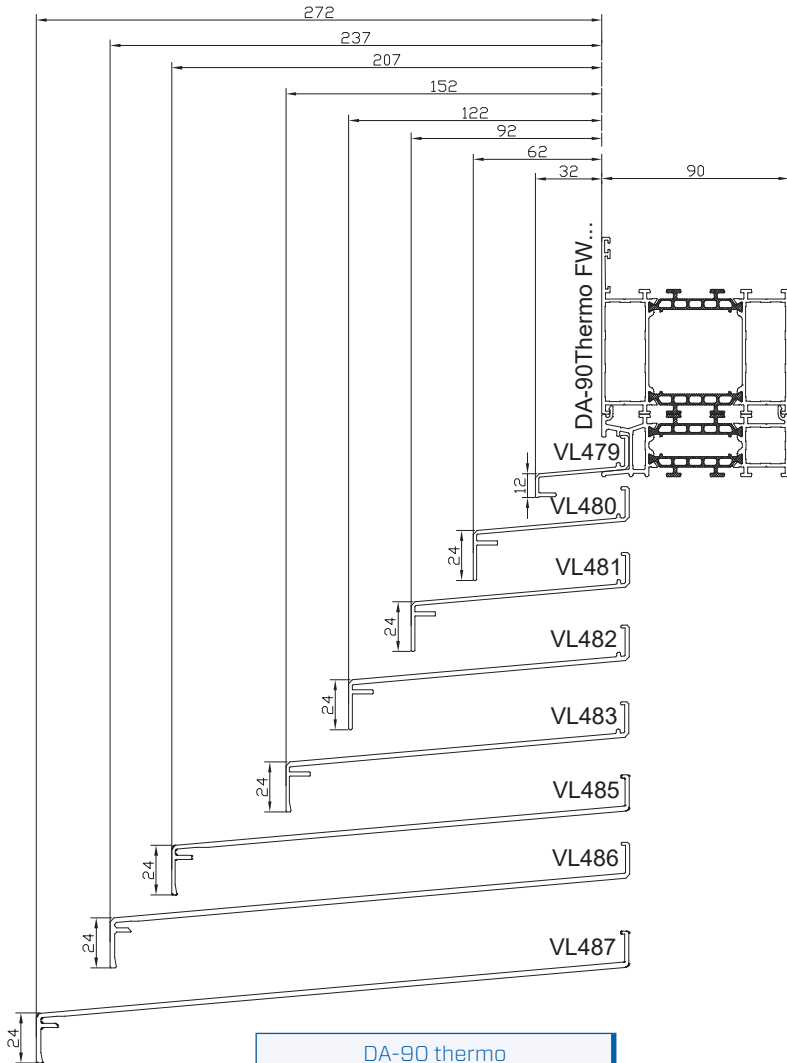
DA-90 thermo  
Corner joint 90° DA-90Thermo CP.04



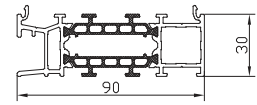
DA-90 thermo  
Corner joint 90° DA-90Thermo FW...



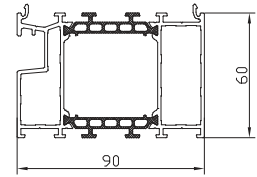
DA-90 thermo  
Corner joint 90° DA-90Thermo FW...



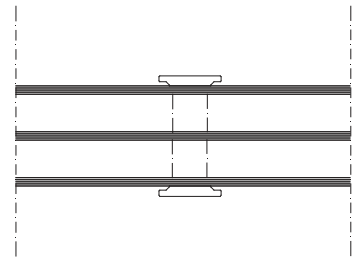
DA-90 thermo  
Sill profile DA-90Thermo FW...



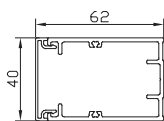
DA-90 thermo  
Sill profile DA-90Thermo SM.01



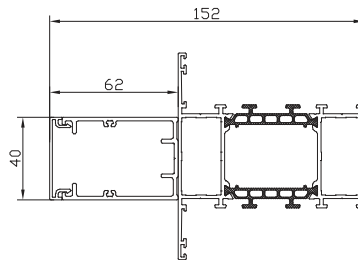
DA-90 thermo  
Sill profile DA-90Thermo SM.02



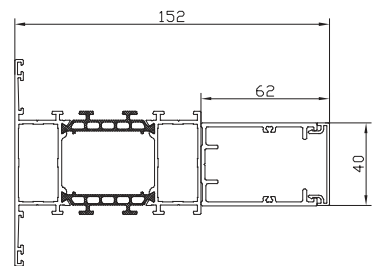
DA-90 thermo  
External muntin bar DA-90Thermo SWP.02



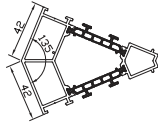
DA-90 thermo  
Tube reinforcement  
DA-90Thermo RP.01



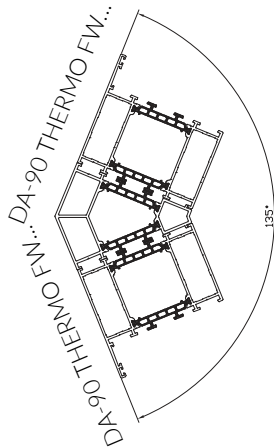
DA-90 thermo  
Tube reinforcement  
DA-90Thermo RP.01/O



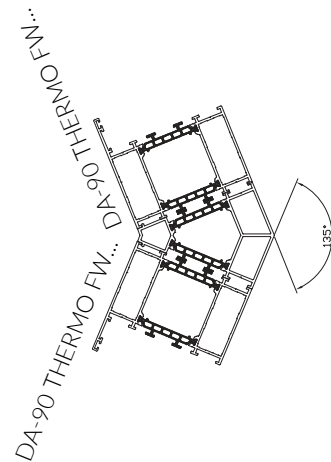
DA-90 thermo  
Tube reinforcement  
DA-90Thermo RP.01/I



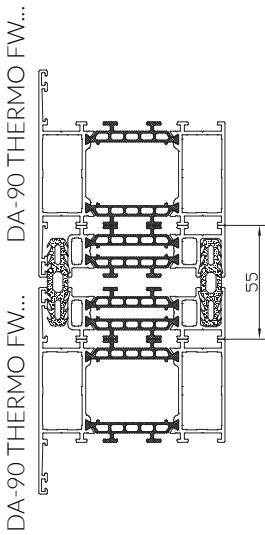
DA-90 thermo  
Connector 135° DA-90Thermo  
CP.06



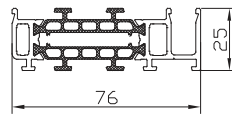
DA-90 thermo  
Connector 135° DA-90Thermo  
FW...



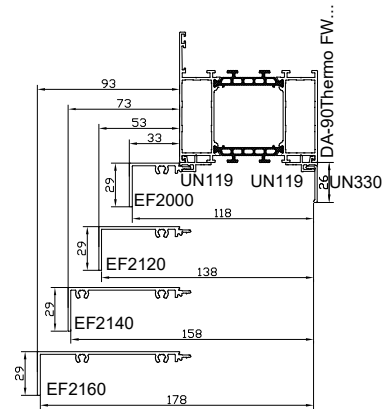
DA-90 thermo  
Connector 135° DA-90Thermo  
FW...



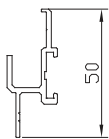
DA-90 thermo  
Expansion profile  
DA-90Thermo PP...



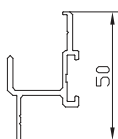
DA-90 thermo  
Expansion profile  
DA-90Thermo EP.01



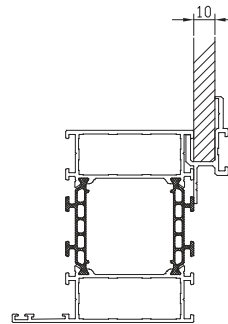
DA-90 thermo  
Renovation profile  
DA-90Thermo FW...



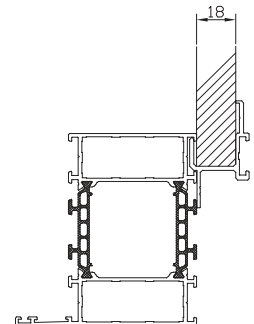
DA-90 thermo  
Finishing profile  
DA-90Thermo BD.01



DA-90 thermo  
Finishing profile  
DA-90Thermo BD.02



DA-90 thermo  
Finishing profile  
DA-90Thermo BD.01



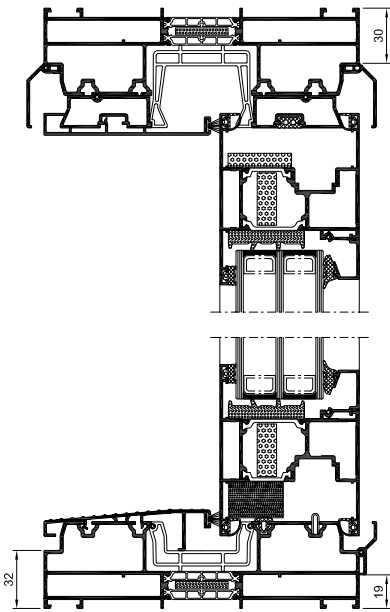
DA-90 thermo  
Finishing profile  
DA-90Thermo BD.02



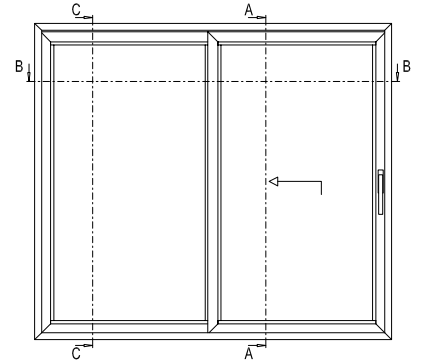
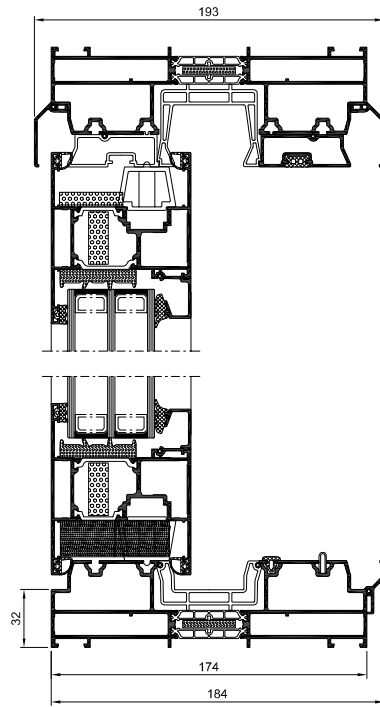
## DA-77 HST

Lift and slide  
Frame depth - 174mm

A - A



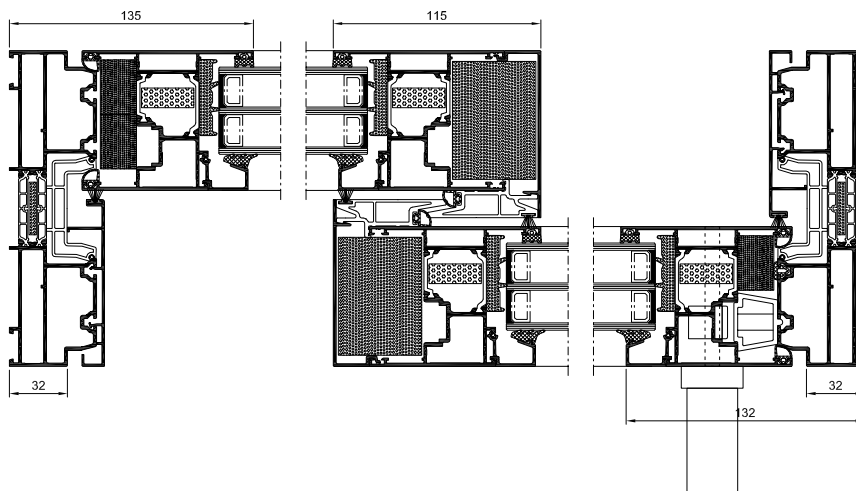
C - C



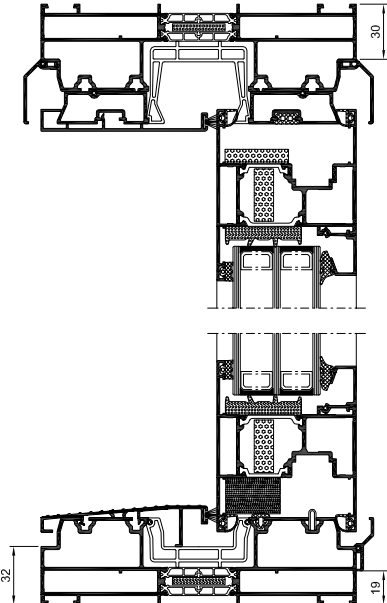
DA-77 HST

Lift and slide  
1 sliding sash

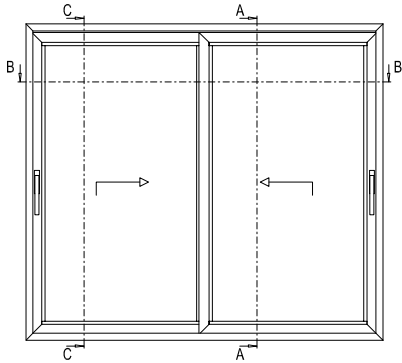
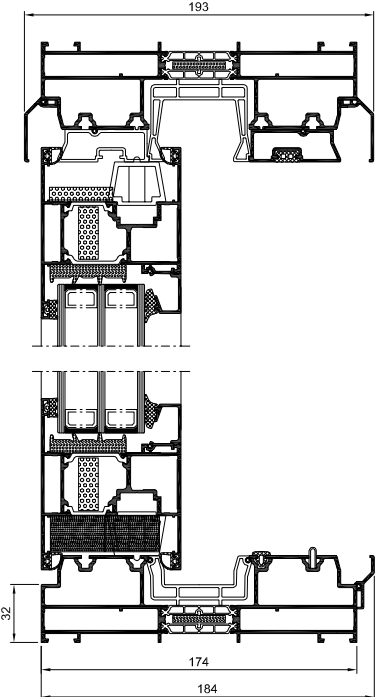
B - B



A - A

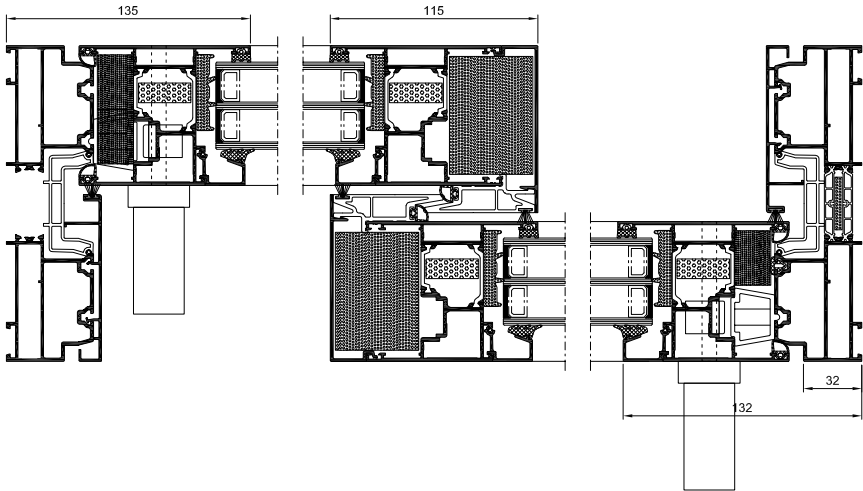


C - C



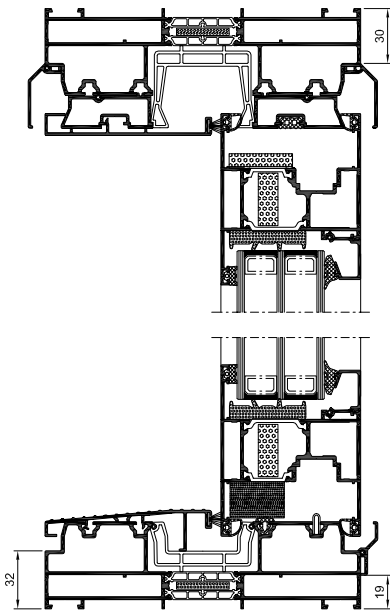
DA-77 HST  
Lift and slide  
2 sliding sashes

B - B

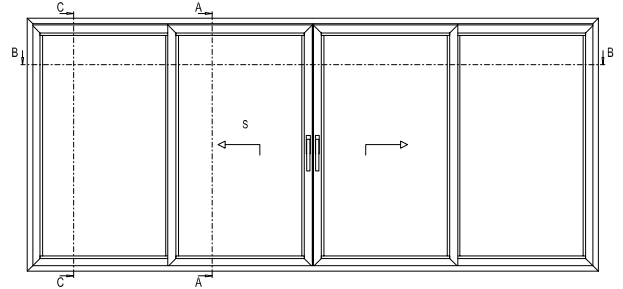
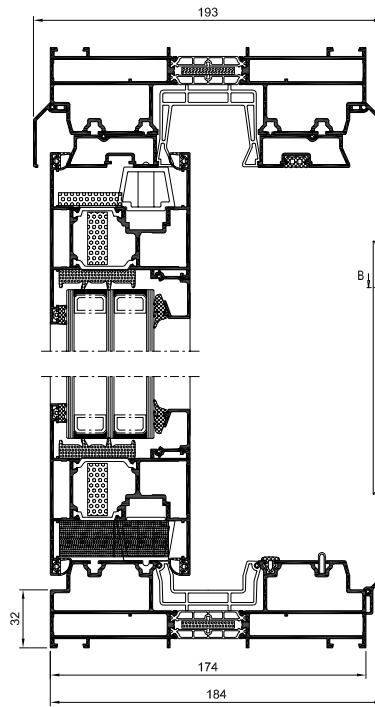




A - A



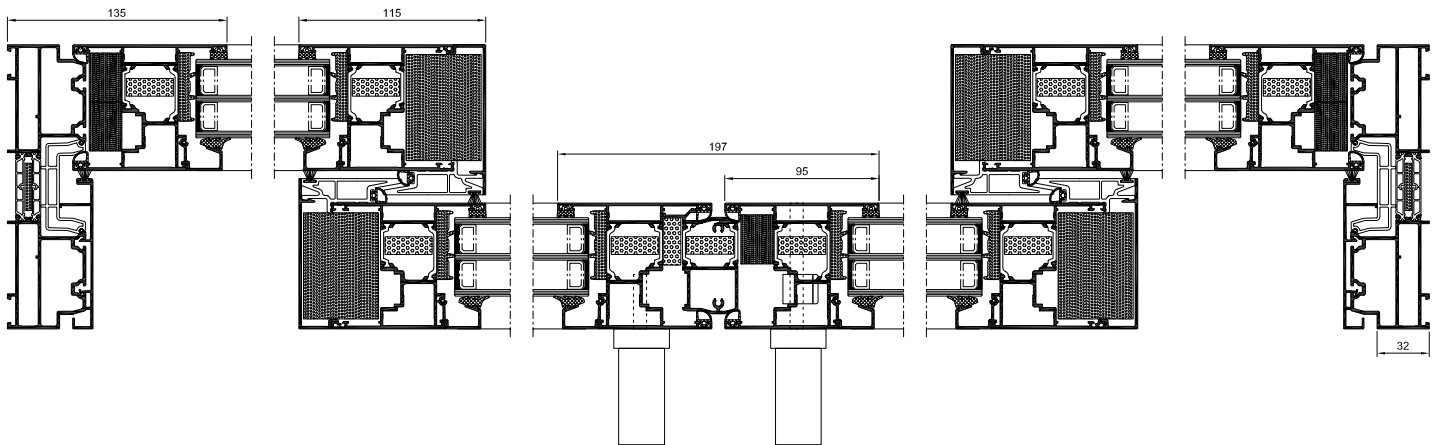
C - C



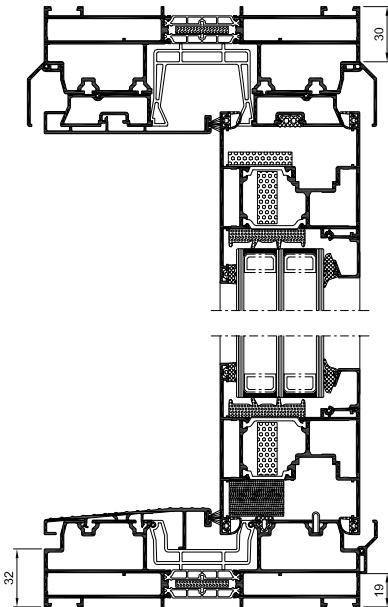
DA-77 HST

Lift and slide door with 4 sashes  
of which 2 are sliding

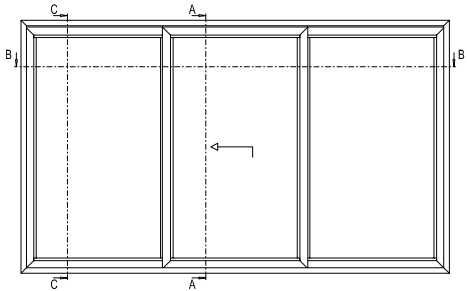
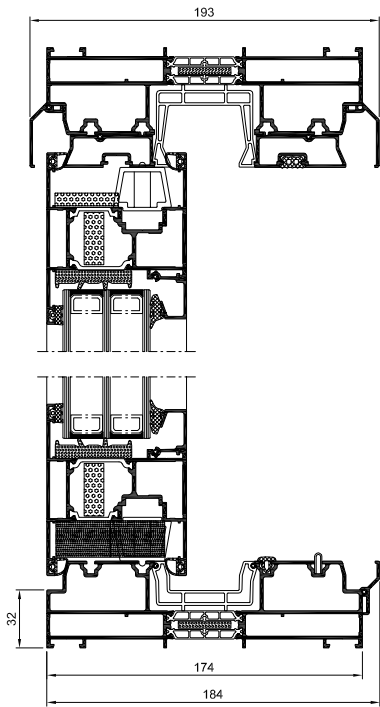
B - B



A - A

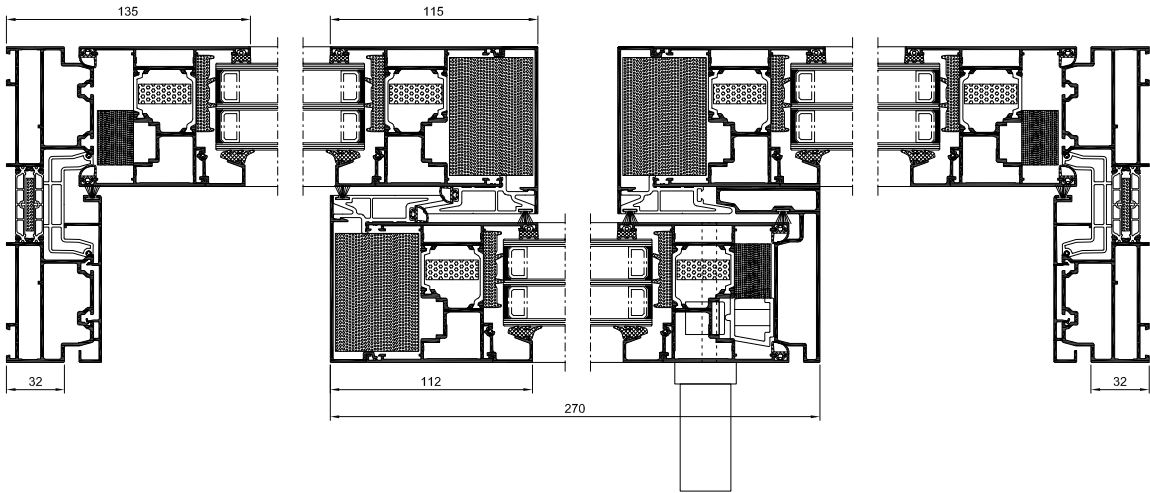


C - C



DA-77 HST  
Lift and slide door with 3 sashes  
of which 1 is sliding

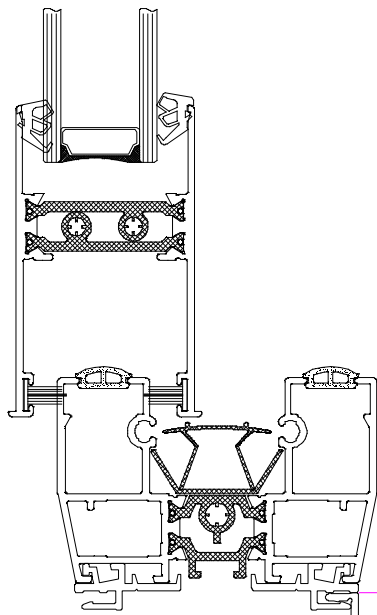
B - B



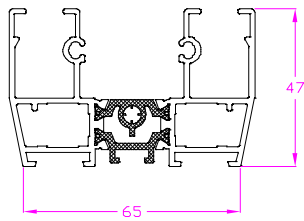
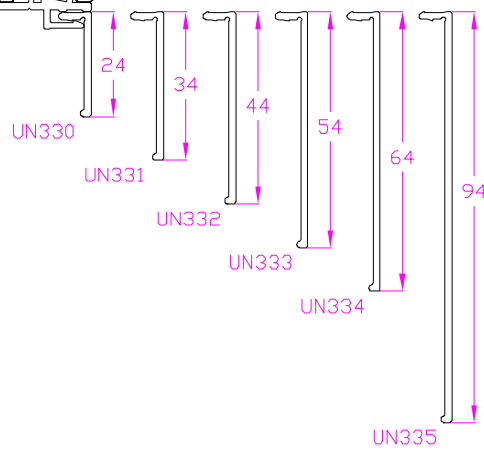


## DA-40 ST

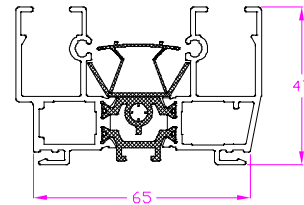
Sliding doors with 2 or 3 rails, wall mounted  
Frame with top-mounted roller shutters



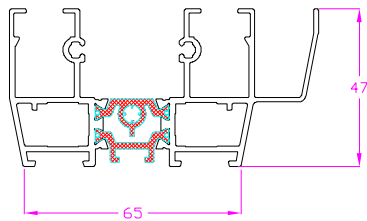
DA-40 ST  
Standard frame MDS010



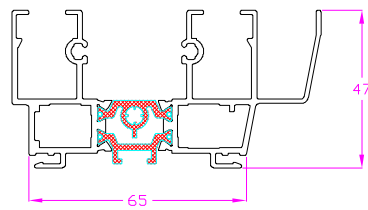
DA-40 ST  
Standard frame MDS010 - add UNI119 clips to link the renovation sashes



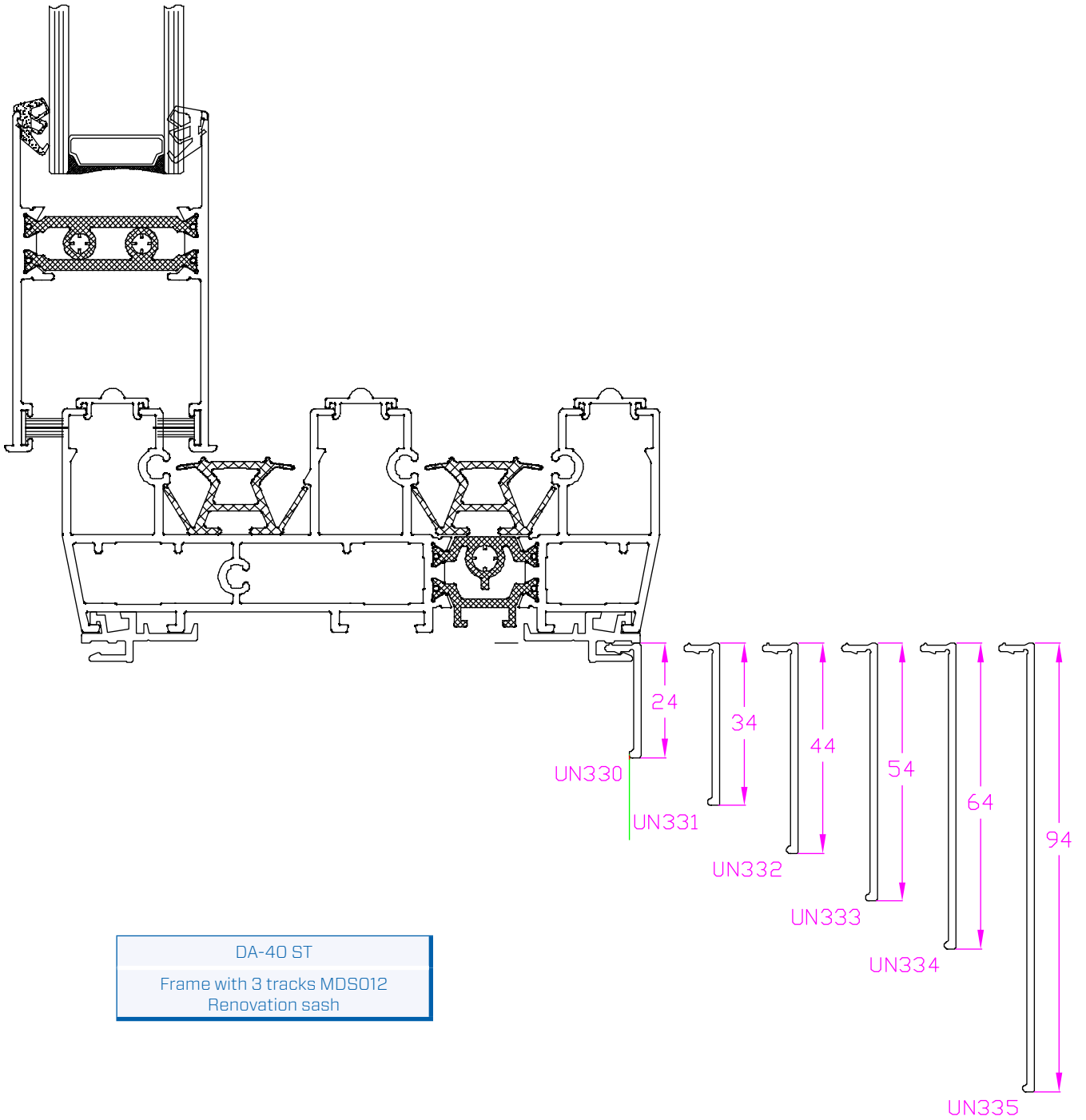
DA-40 ST  
Frame with double grooves MDS010 - clip the exterior/interior finishing profiles



DA-40 ST  
Frame MDS010 - threshold depth 47mm

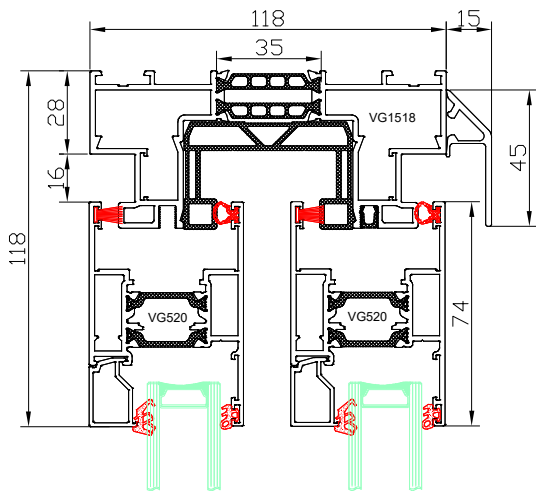


DA-40 ST  
Frame MDS010 - threshold depth 47mm double groove for linking exterior/interior finishing profiles

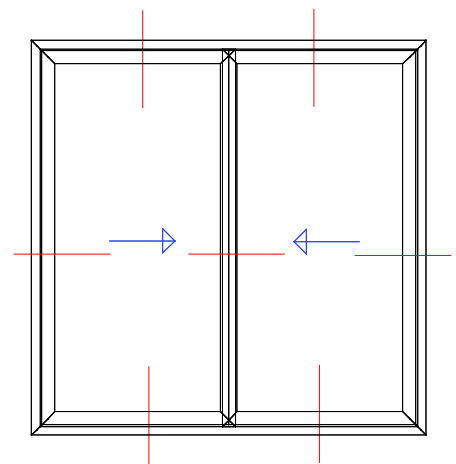
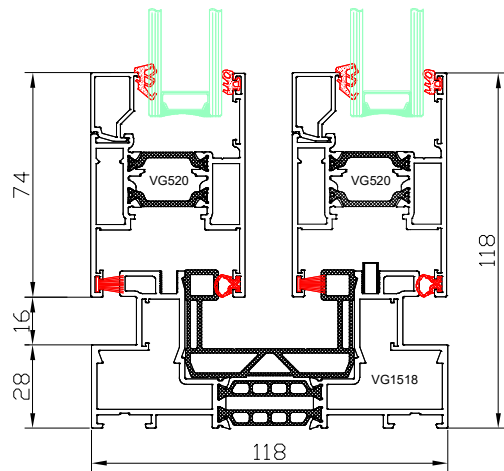




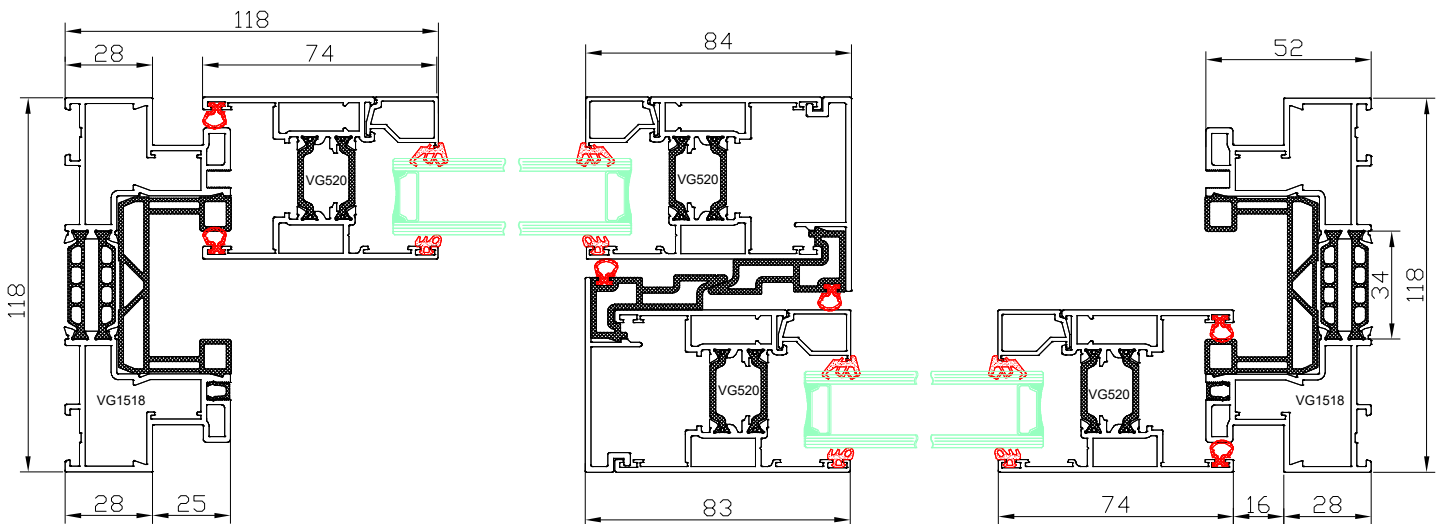
**DA-51 ST**

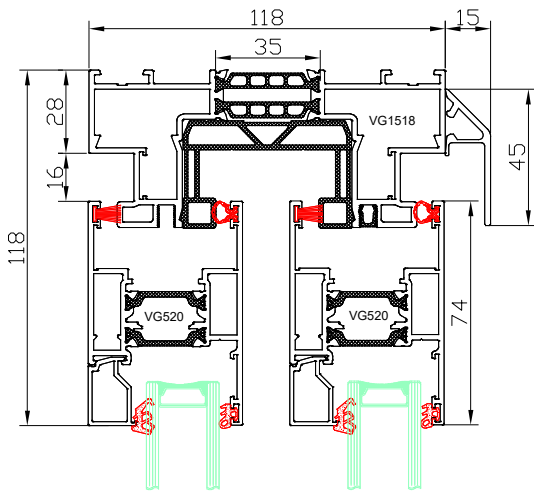


|                     |
|---------------------|
| DA-51 ST            |
| Frame with 2 tracks |
| Frame: VG1518       |
| Sash: VG520         |

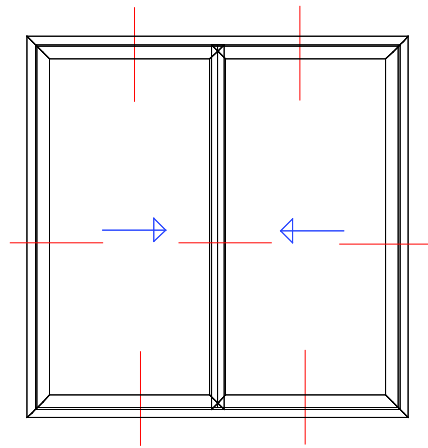
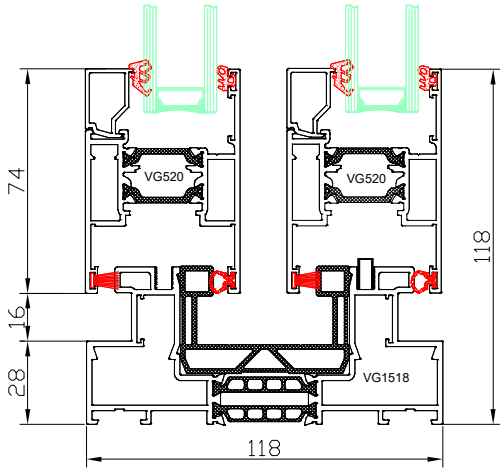


|                     |
|---------------------|
| DA-51 ST            |
| Frame with 2 tracks |
| Frame: VG1518       |
| Sash: VG520         |
| Post: 84 mm         |

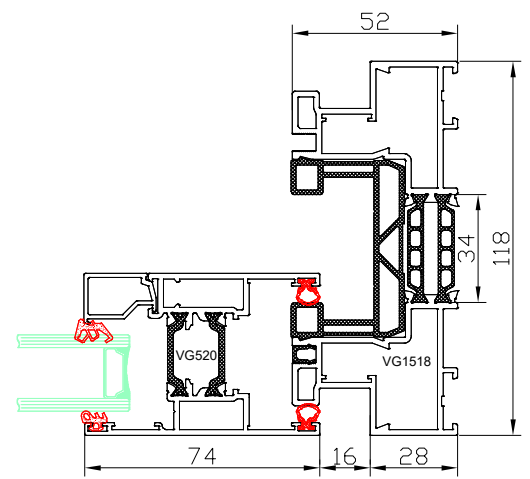
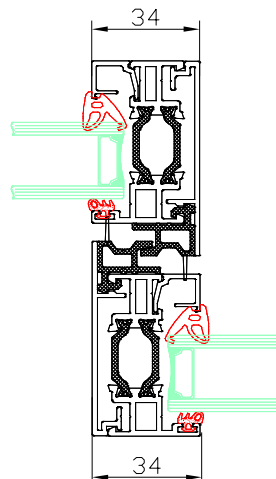
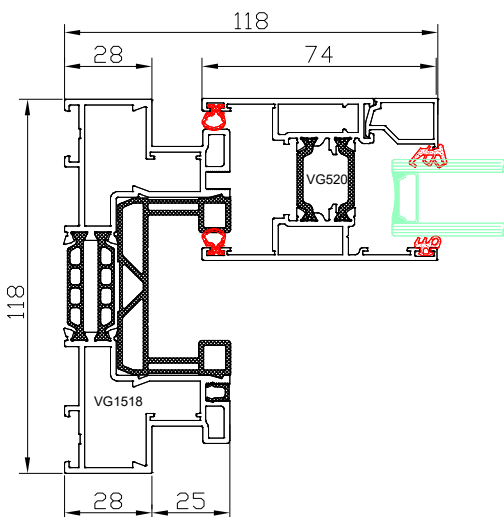




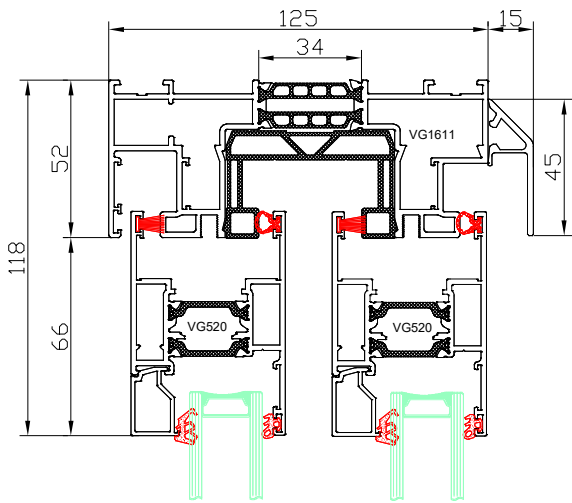
|                     |
|---------------------|
| DA-51 ST            |
| Frame with 2 tracks |
| Frame: VG1518       |
| Sash: VG520         |



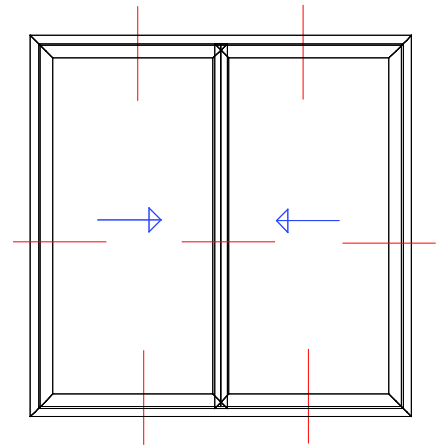
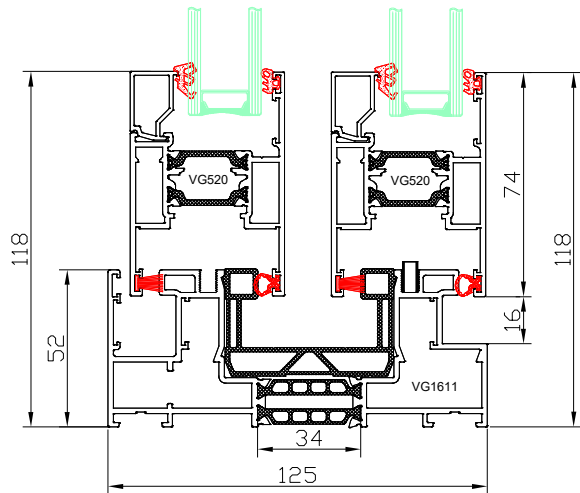
|                     |
|---------------------|
| DA-51 ST            |
| Frame with 2 tracks |
| Frame: VG1518       |
| Sash: VG520         |
| Lowered post: 34 mm |



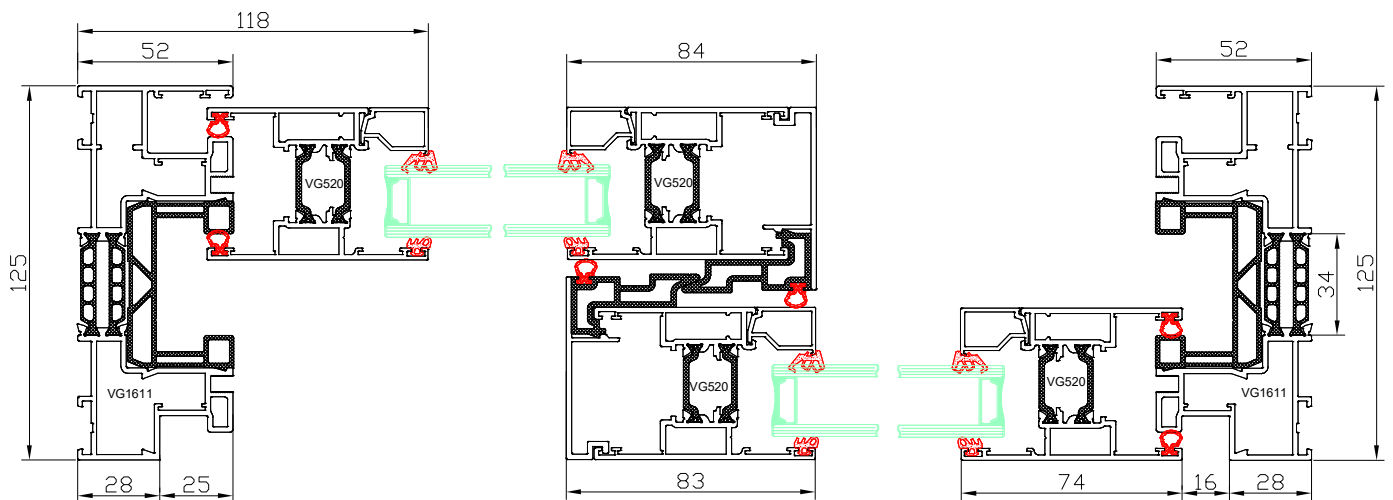


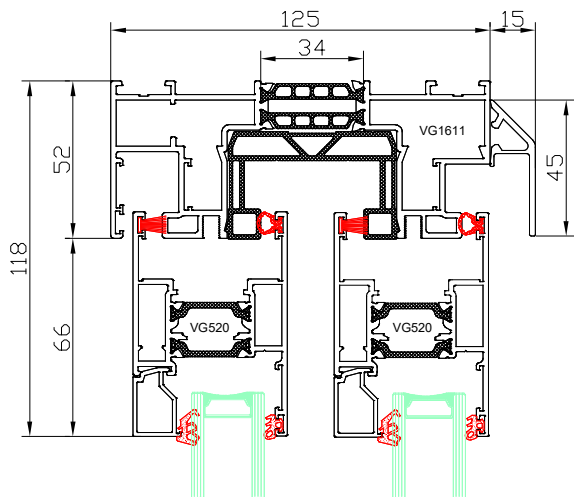


DA-51 ST  
 Frame with 2 tracks and a threshold to be flushed from the inside  
 Frame: VG1611  
 Sash: VG520

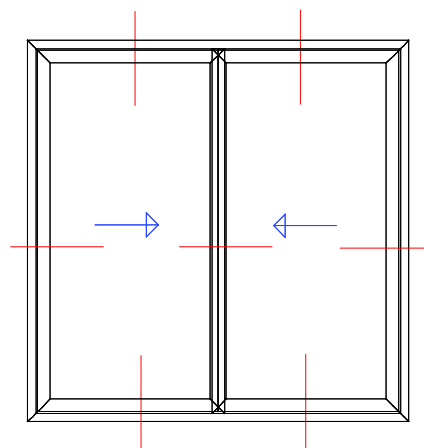
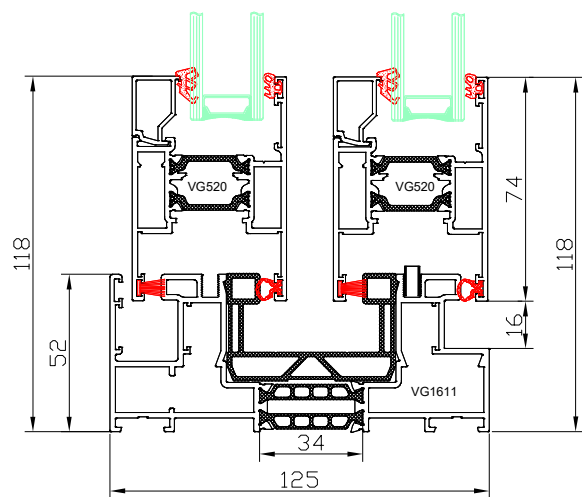


DA-51 ST  
 Frame with 2 tracks and a threshold to be flushed from the inside  
 Frame: VG1611  
 Sash: VG520  
 Post: 84 mm

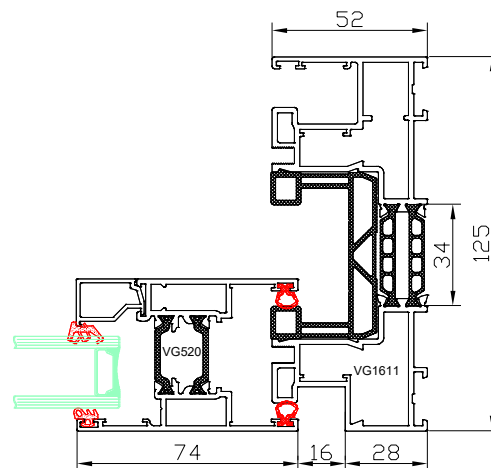
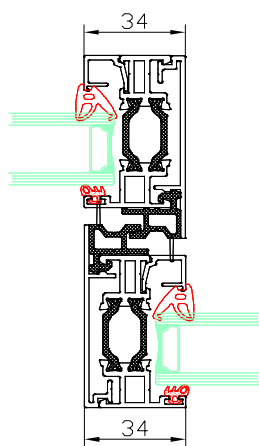
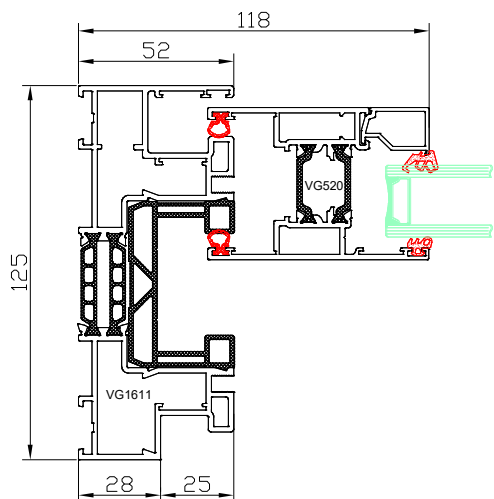


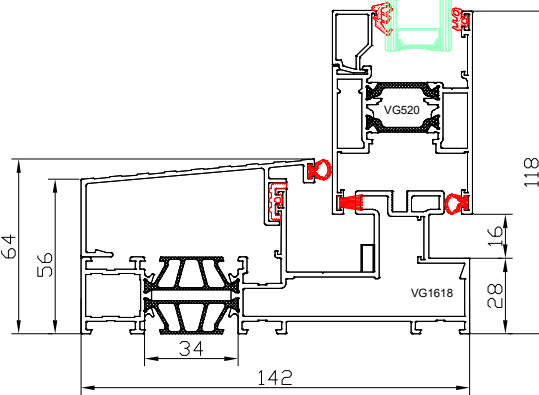
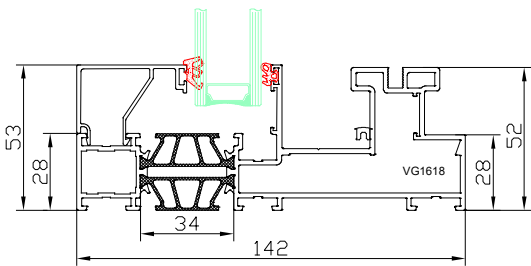
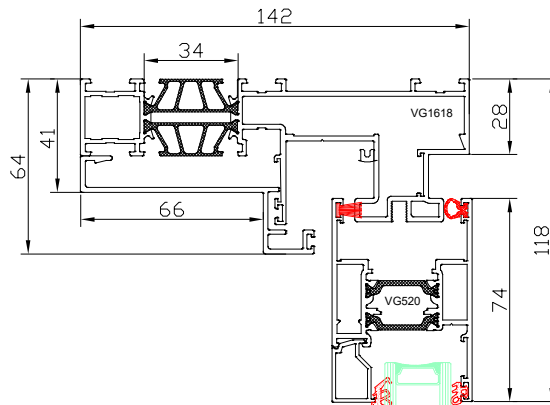
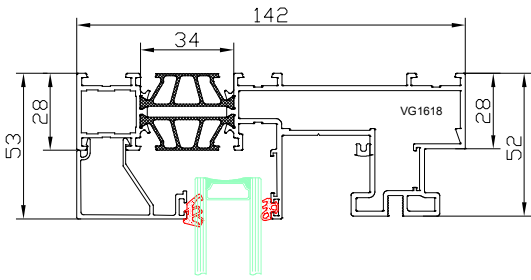


DA-51 ST  
 Frame with 2 tracks and a threshold to be flushed from the inside  
 Frame: VG1611  
 Sash: VG520



DA-51 ST  
 Frame with 2 tracks and a threshold to be flushed from the inside  
 Frame: VG1611  
 Sash: VG520  
 Lowered post: 34 mm

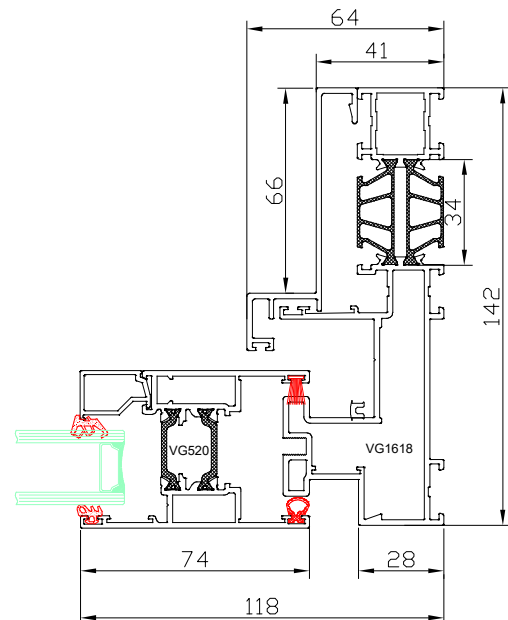
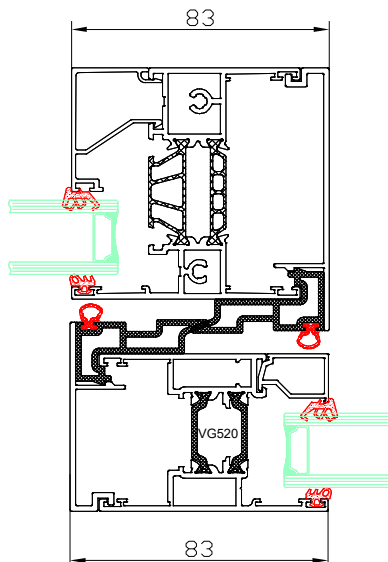
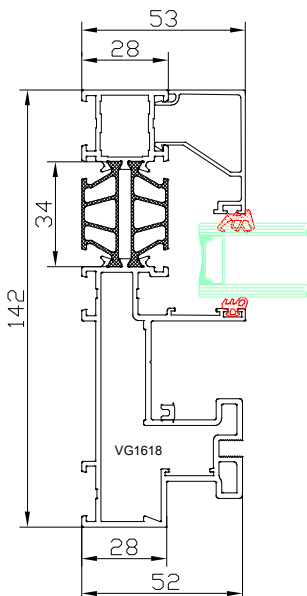


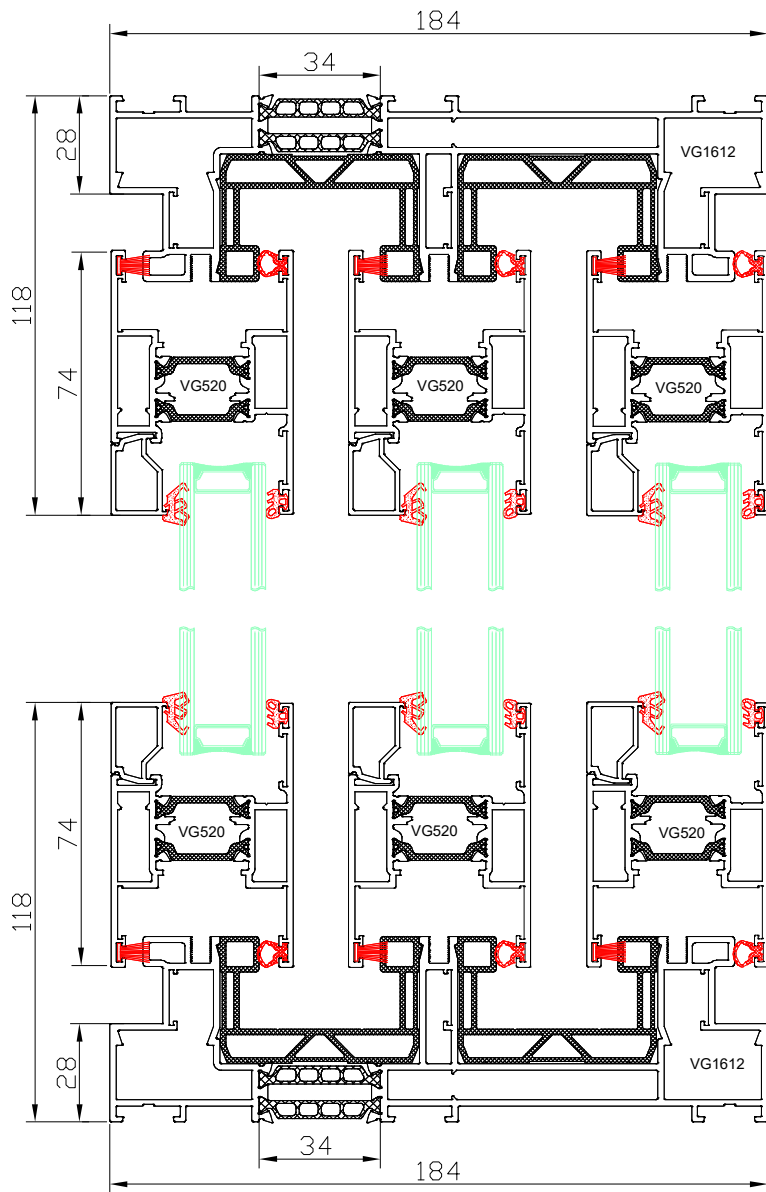


DA-51 ST  
 Frame - monorail (1 track)  
 Frame: VG1618  
 Fixed part

DA-51 ST  
 Frame - monorail (1 track)  
 Frame: VG1618  
 Sash: VG520

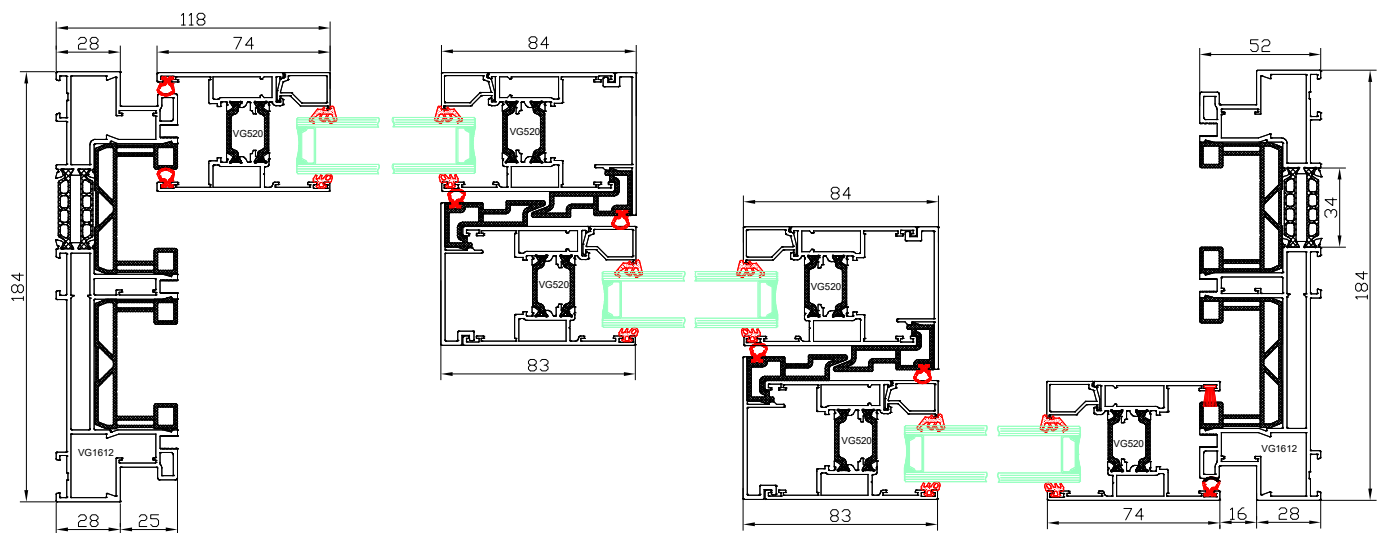
DA-51 ST  
 Frame - monorail (1 track)  
 Frame: VG1618  
 Sash: VG520  
 Post: 83 mm

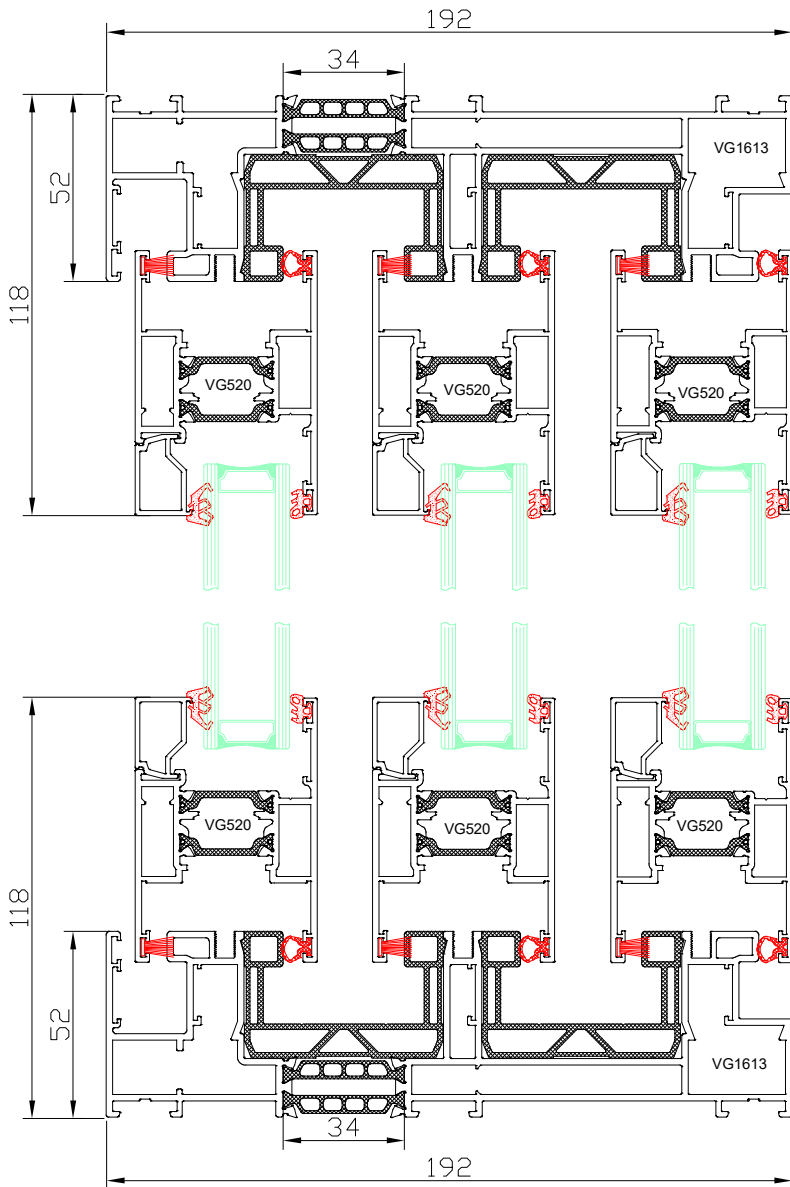




|               |
|---------------|
| DA-51 ST      |
| 3 track frame |
| Frame: VG1612 |
| Sash: VG520   |

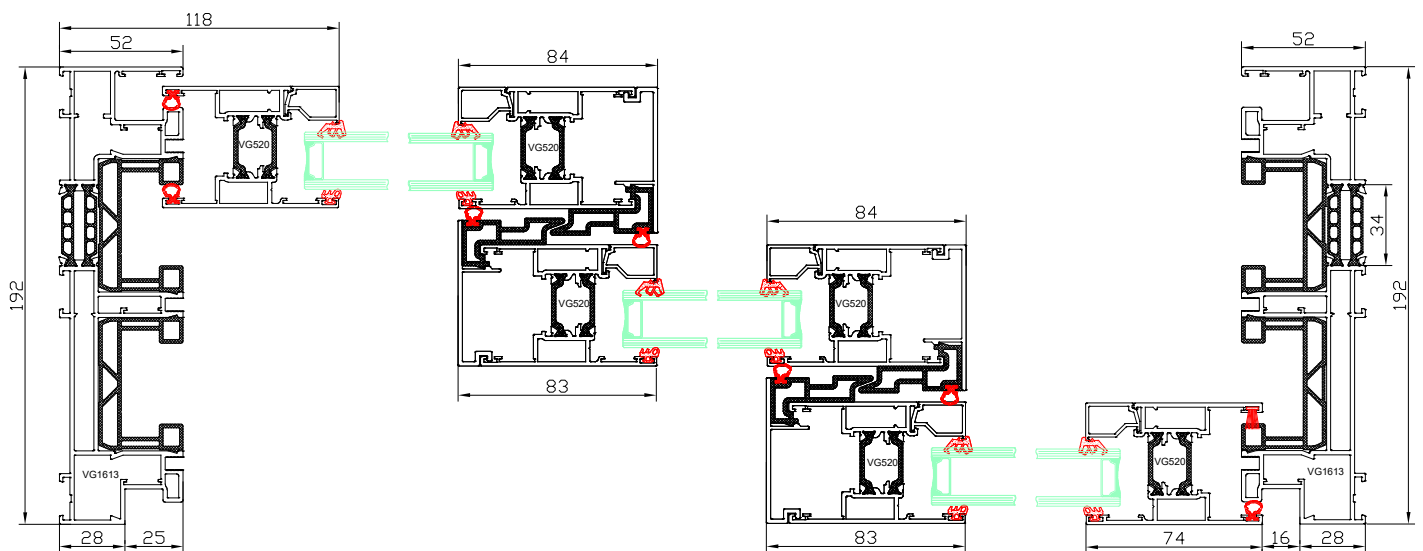
|               |
|---------------|
| DA-51 ST      |
| 3 track frame |
| Frame: VG1612 |
| Sash: VG520   |
| Post: 84 mm   |





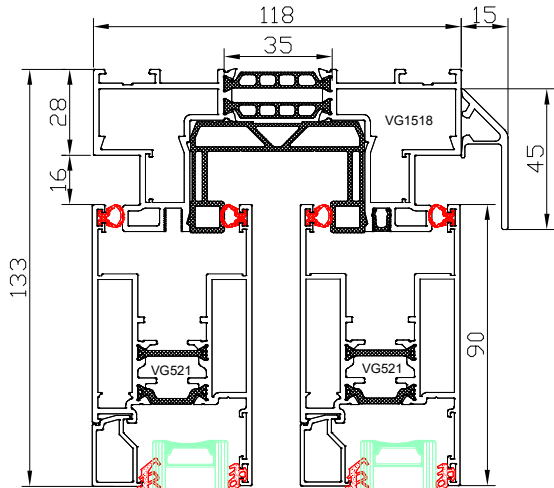
|   |
|---|
| DA-51 ST  |
| Frame with 3 tracks and a threshold to be flushed from the inside |
| Frame: VG1613   |
| Sash: VG520   |

|   |
|---|
| DA-51 ST  |
| Frame with 3 tracks and a threshold to be flushed from the inside |
| Frame: VG1613   |
| Sash: VG520   |
| Post: 84 mm   |

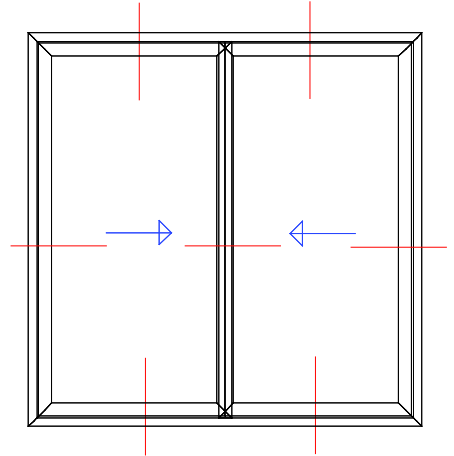
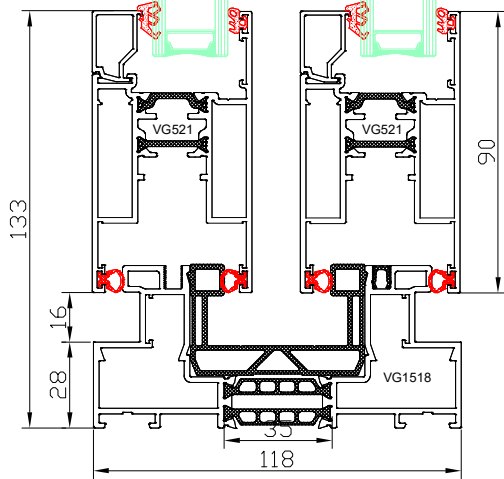




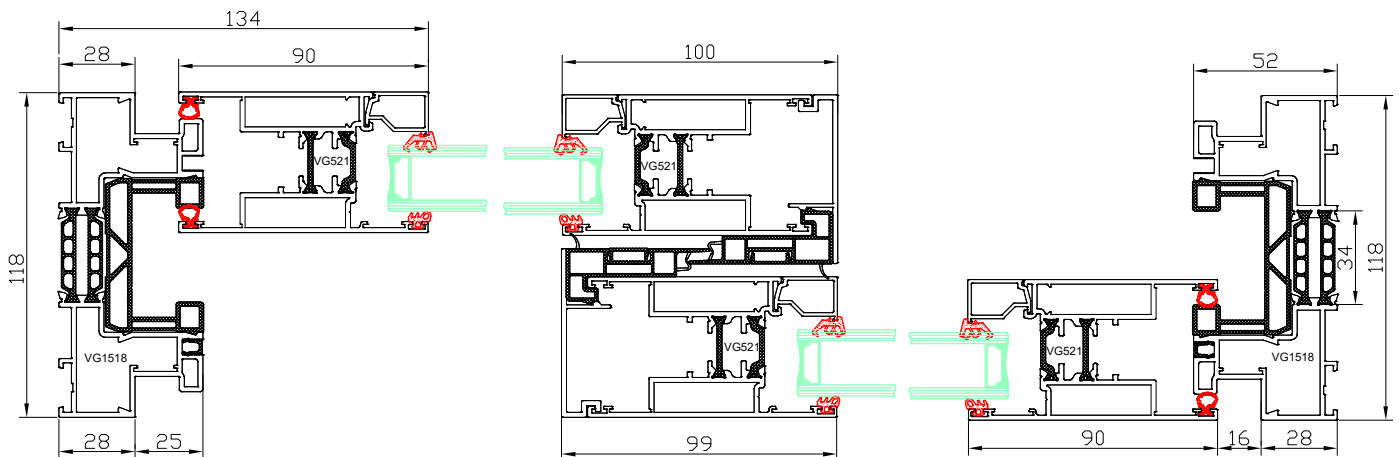
**DA-51 HST**

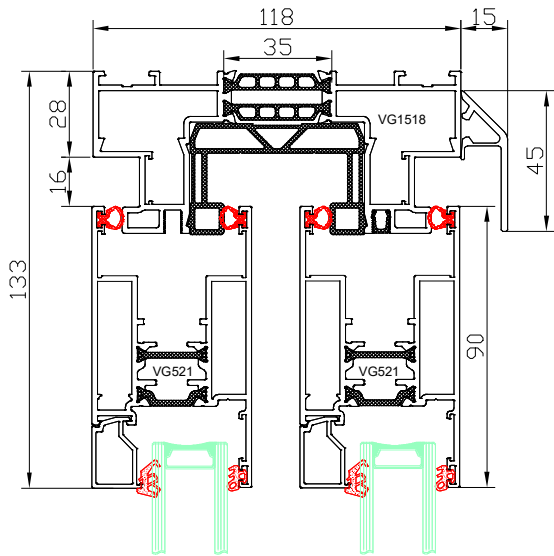


|                               |
|-------------------------------|
| DA-51 HST                     |
| Frame with 2 tracks, 2 sashes |
| Frame: VG1518                 |
| Sash: VG521                   |

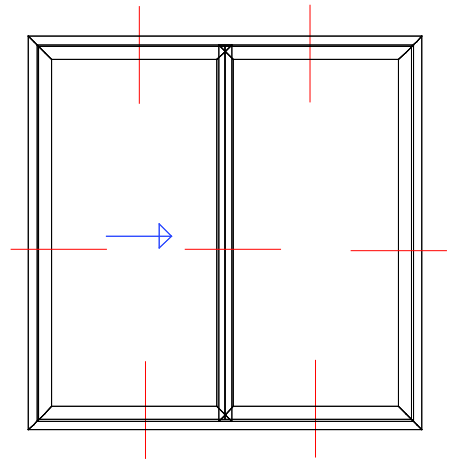
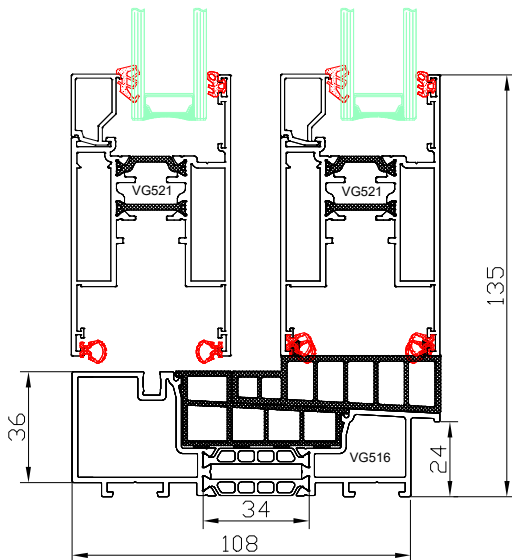


|                               |
|-------------------------------|
| DA-51 HST                     |
| Frame with 2 tracks, 2 sashes |
| Frame: VG1518                 |
| Sash: VG521                   |
| Post: 100 mm                  |

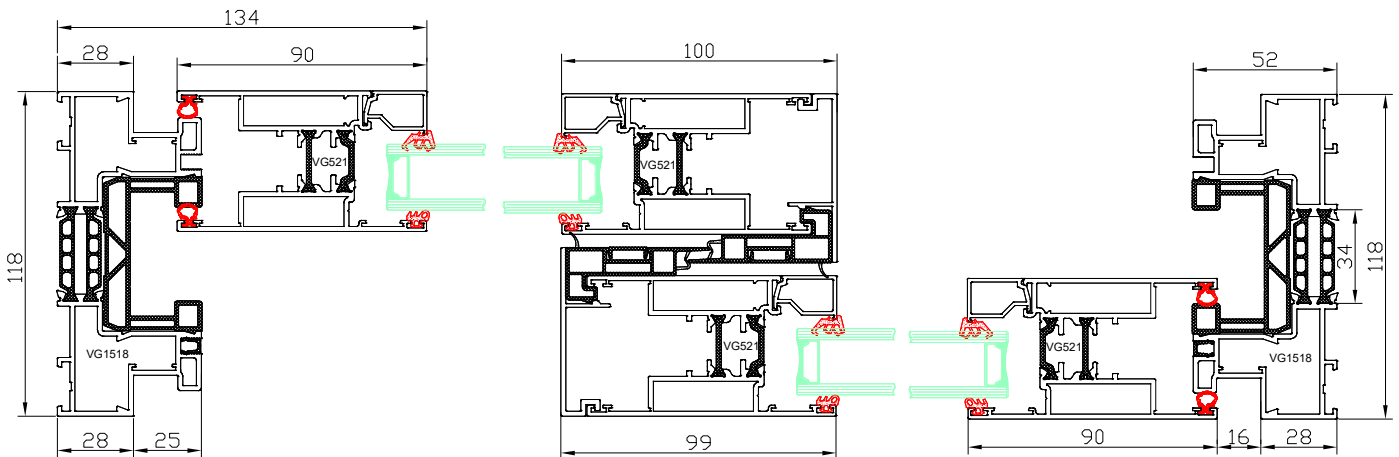




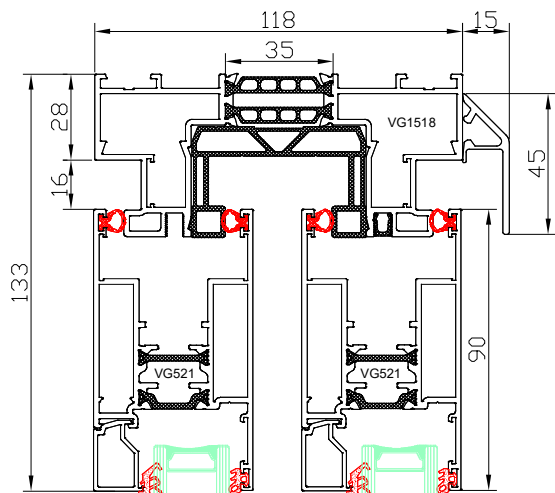
DA-51 HST  
 Frame, 1 sash with a low threshold  
 for the disabled  
 Frame: VG1516  
 Sash: VG521



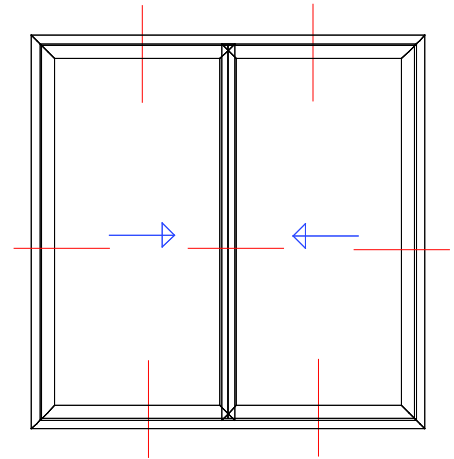
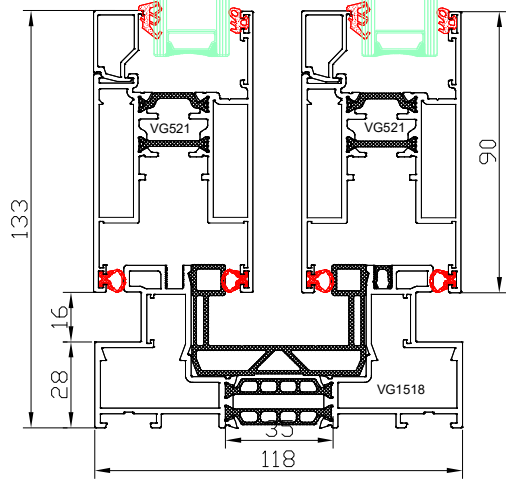
DA-51 HST  
 Frame, 1 sash with a low threshold  
 for the disabled  
 Frame: VG1518  
 Sash: VG521  
 Post: 100 mm



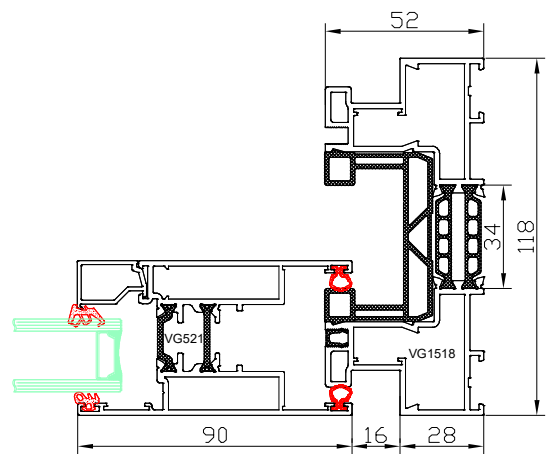
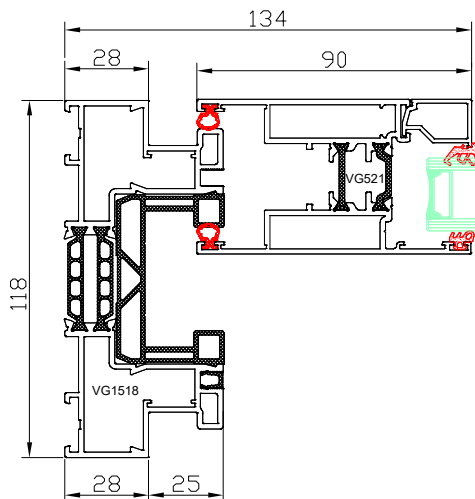


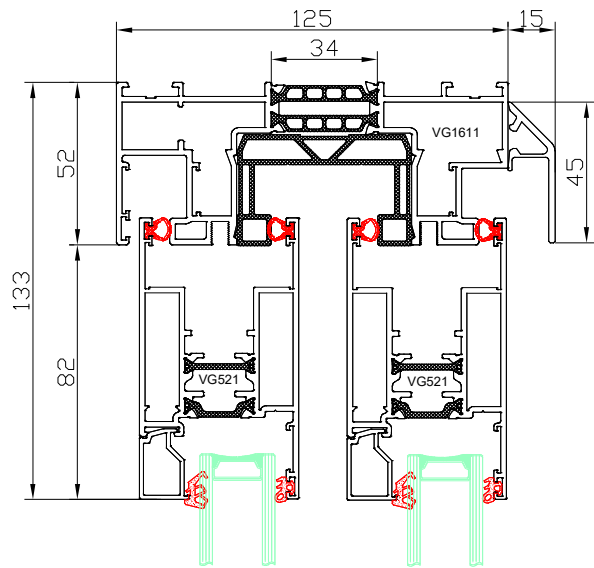


|                               |
|-------------------------------|
| DA-51 HST                     |
| Frame with 2 tracks, 2 sashes |
| Frame: VG1518                 |
| Sash: VG521                   |

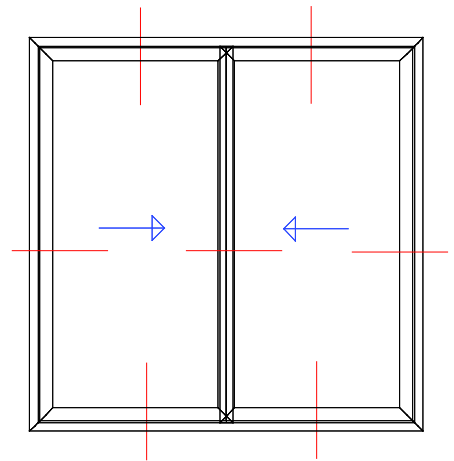
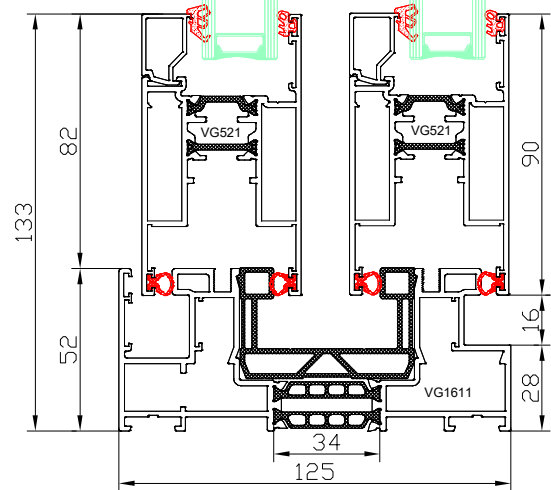


|                               |
|-------------------------------|
| DA-51 HST                     |
| Frame with 2 tracks, 2 sashes |
| Frame: VG1518                 |
| Sash: VG521                   |
| Lowered post: 34 mm           |

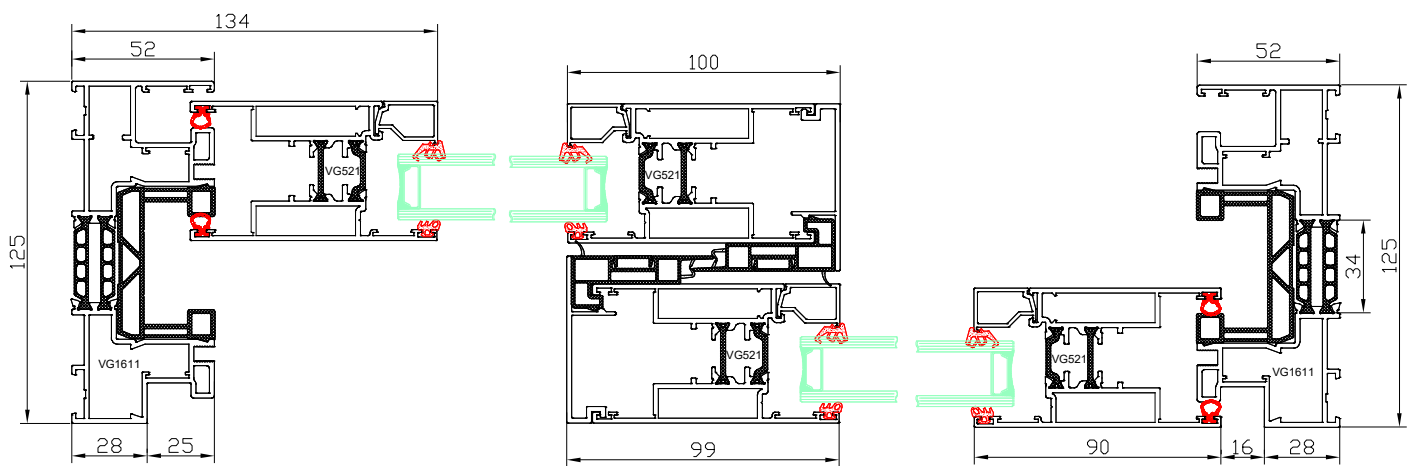


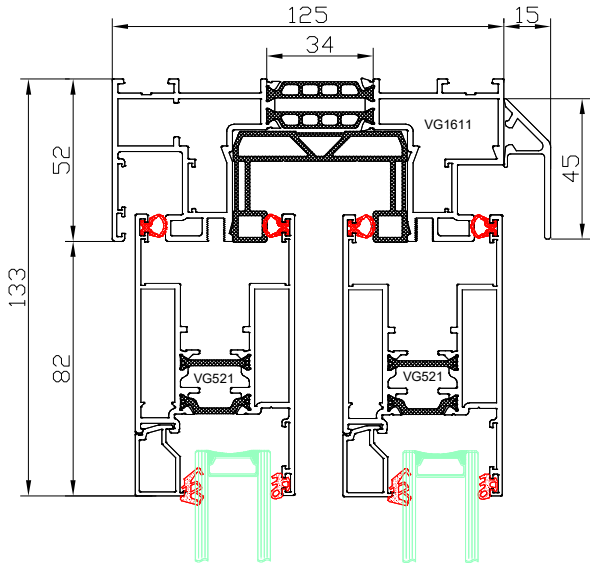


DA-51 HST  
 Frame with 2 tracks and a threshold to be flushed from the inside  
 Frame: VG1611  
 Sash: VG521

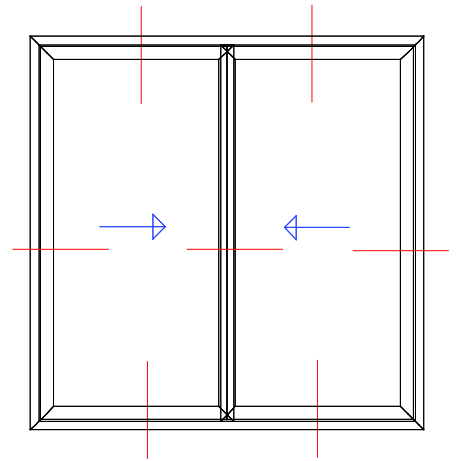
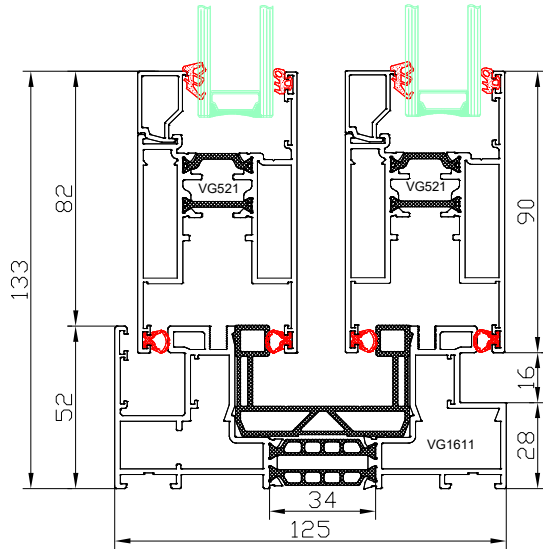


DA-51 HST  
 Frame with 2 tracks and a threshold to be flushed from the inside  
 Frame: VG1611  
 Sash: VG521  
 Post: 100 mm

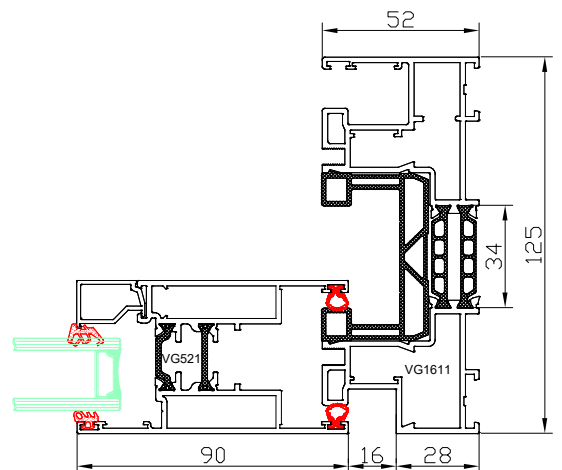
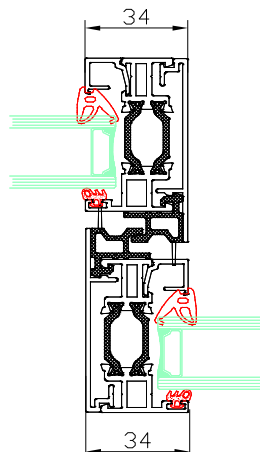
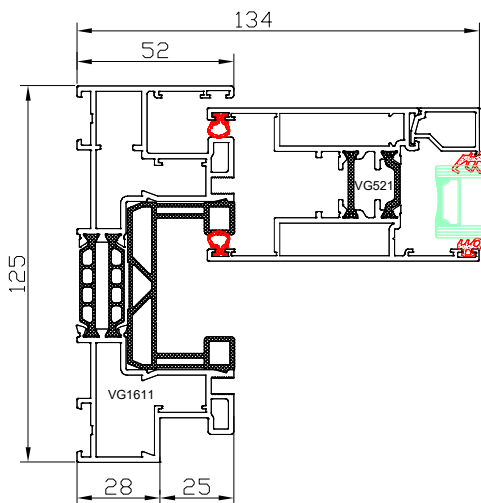


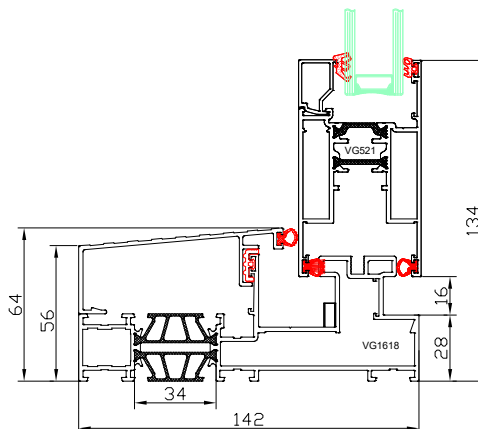
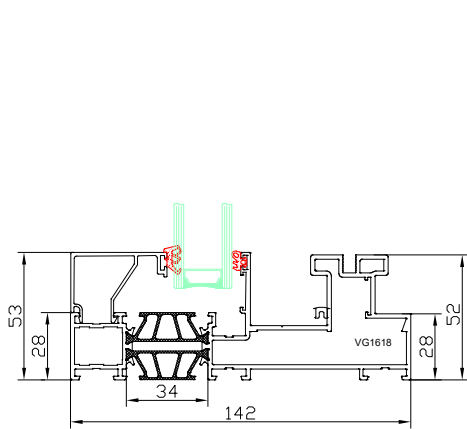
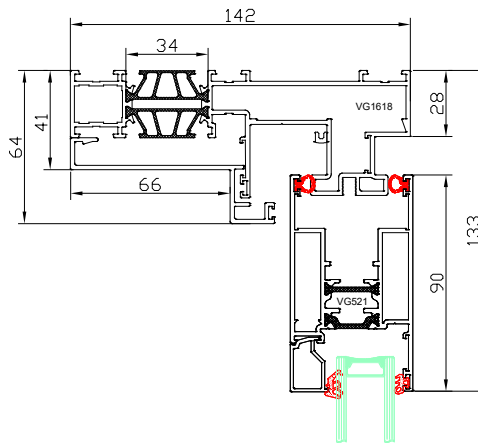
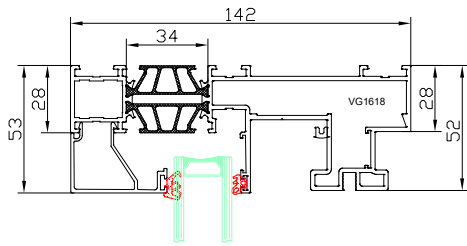


DA-51 HST  
 Frame with 2 tracks and a threshold to be flushed from the inside  
 Frame: VG1611  
 Sash: VG521



DA-51 HST  
 Frame with 2 tracks and a threshold to be flushed from the inside  
 Frame: VG1611  
 Sash: VG521  
 Lowered post: 34 mm

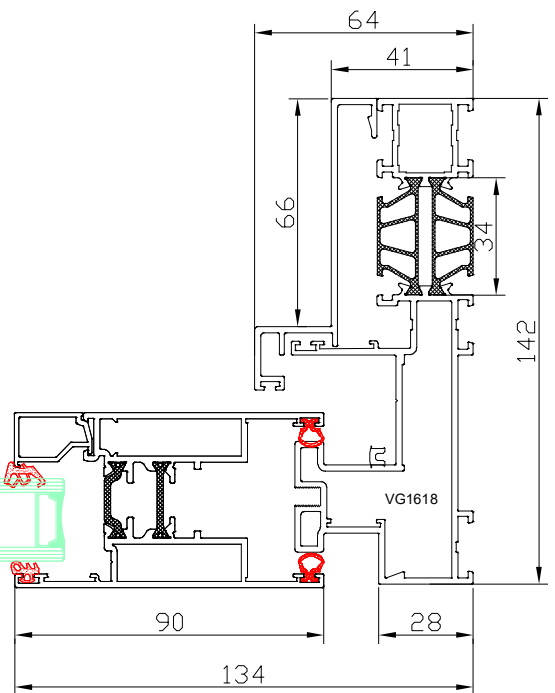
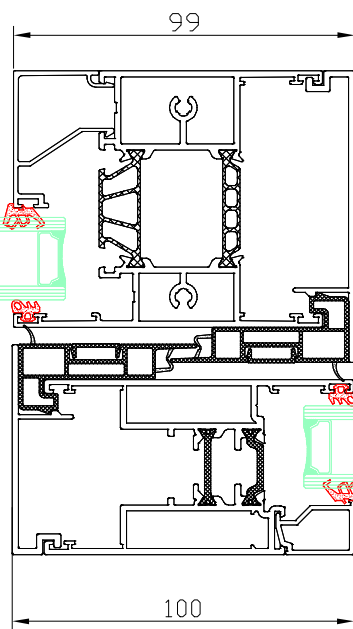
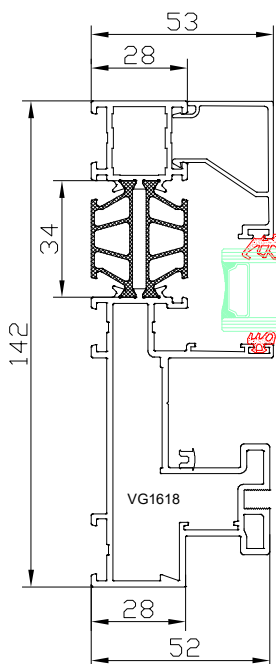


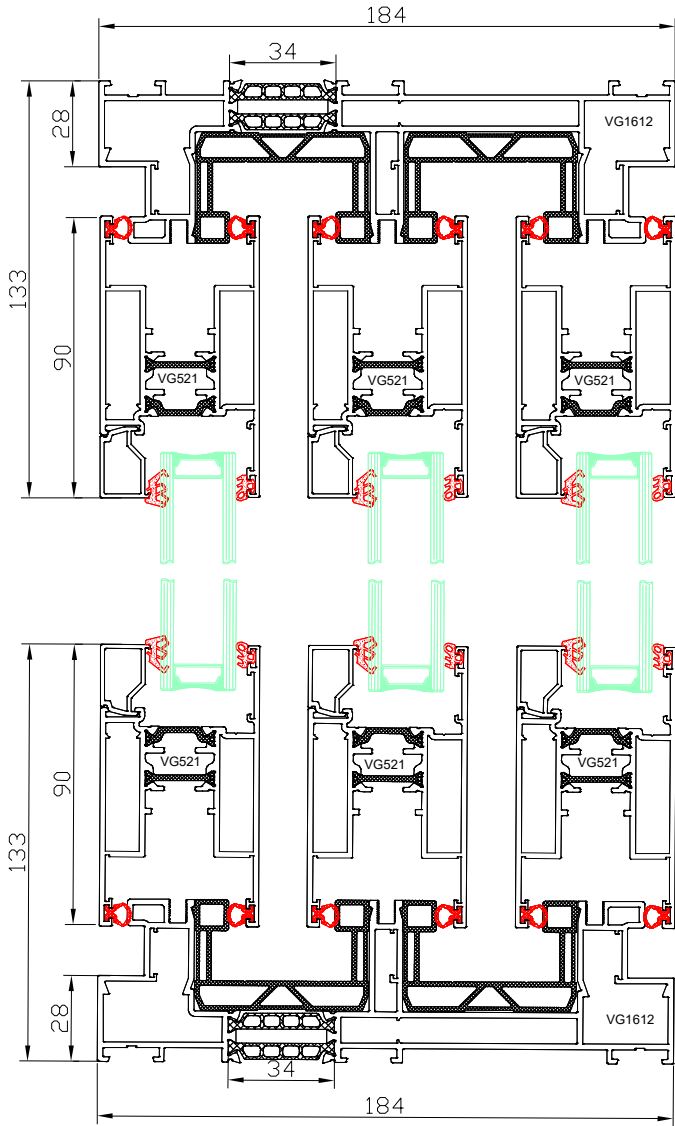


DA-51 HST  
Frame - monorail (1 track)  
Frame: VG1618 (Fixed part)

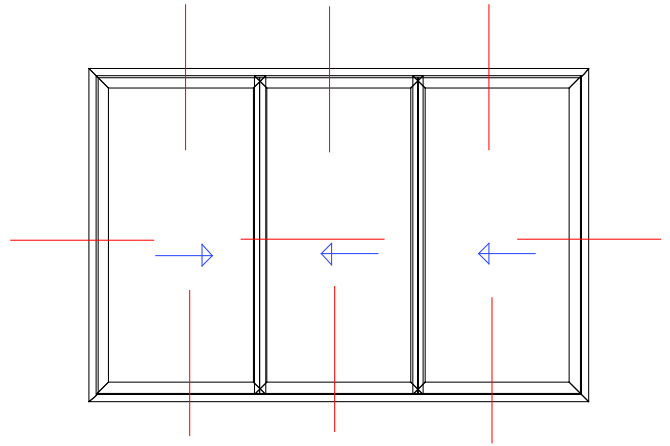
DA-51 HST  
Frame - monorail (1 track)  
Frame: VG1618  
Sash: VG521

DA-51 HST  
Frame - monorail (1 track)  
Frame: VG1618  
Sash: VG521  
Post: 100 mm

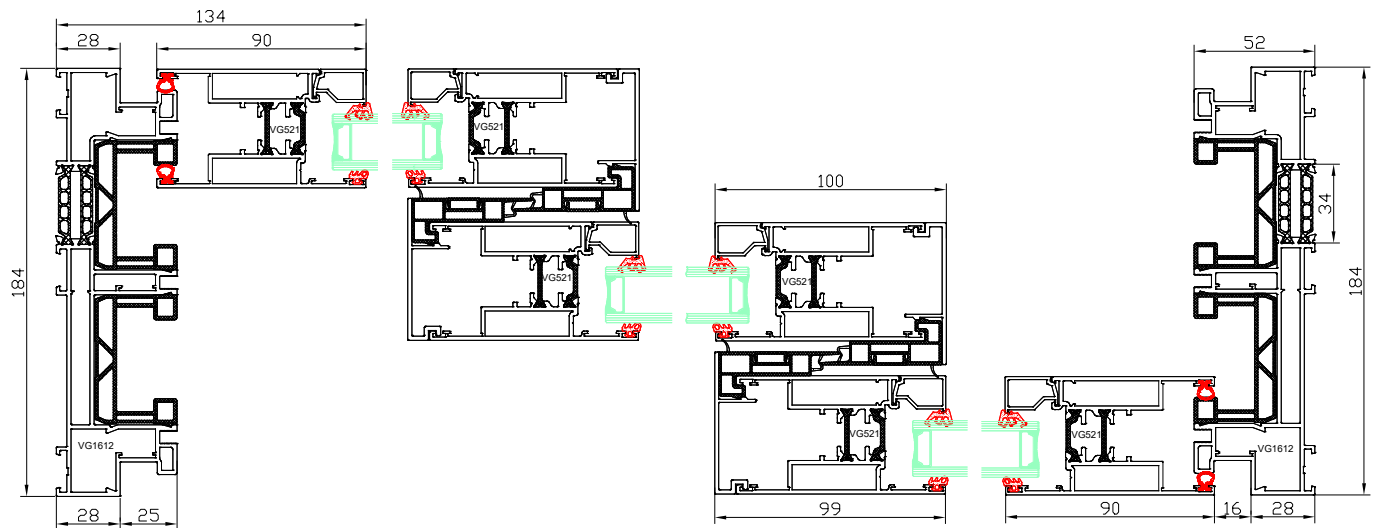


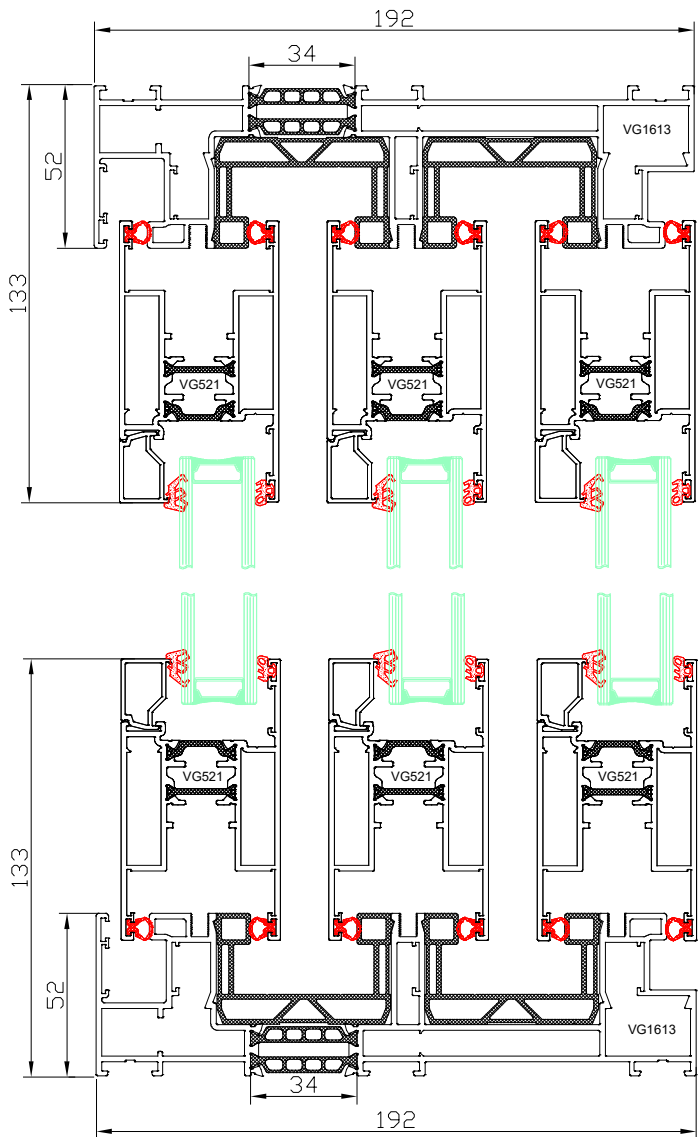


|               |
|---------------|
| DA-51 HST     |
| 3 track frame |
| Frame: VG1612 |
| Sash: VG521   |

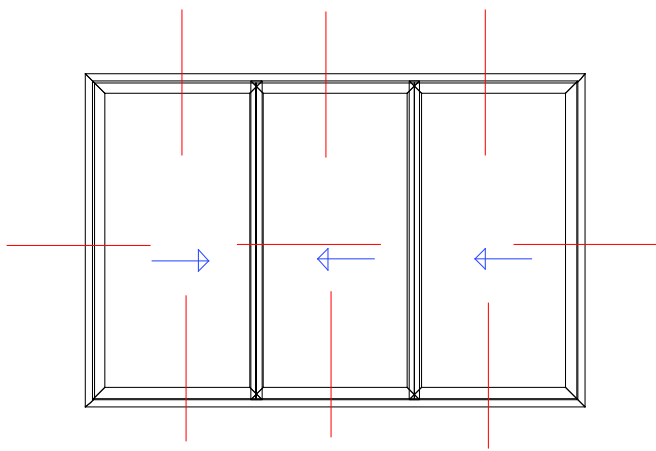


|               |
|---------------|
| DA-51 HST     |
| 3 track frame |
| Frame: VG1612 |
| Sash: VG521   |
| Post: 100 mm  |

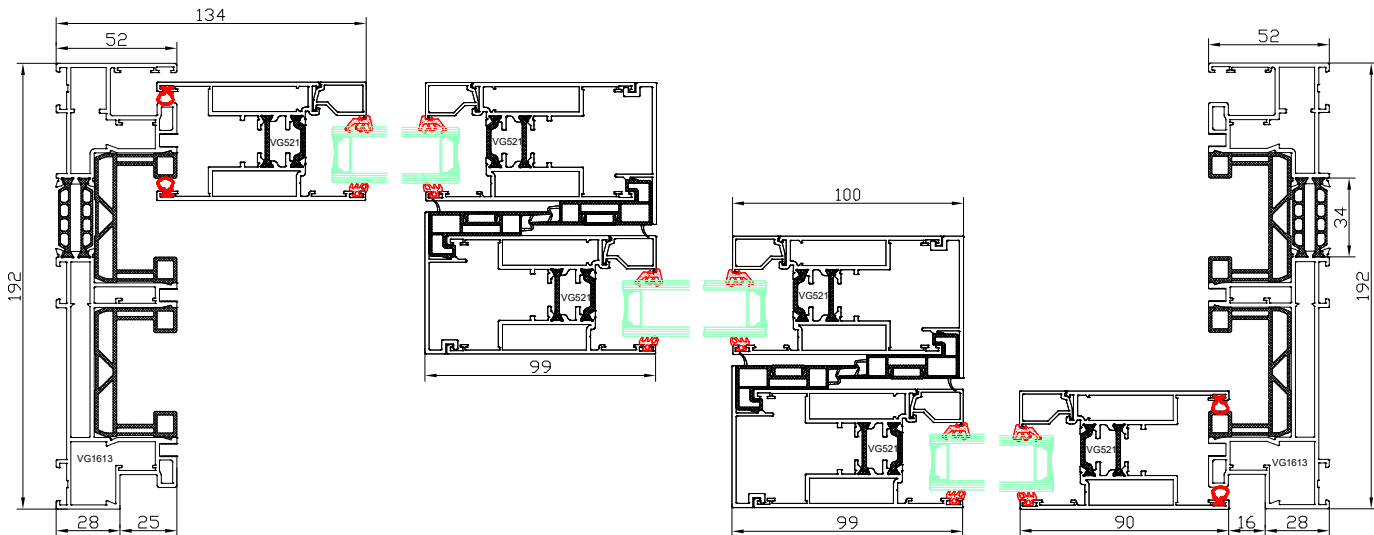


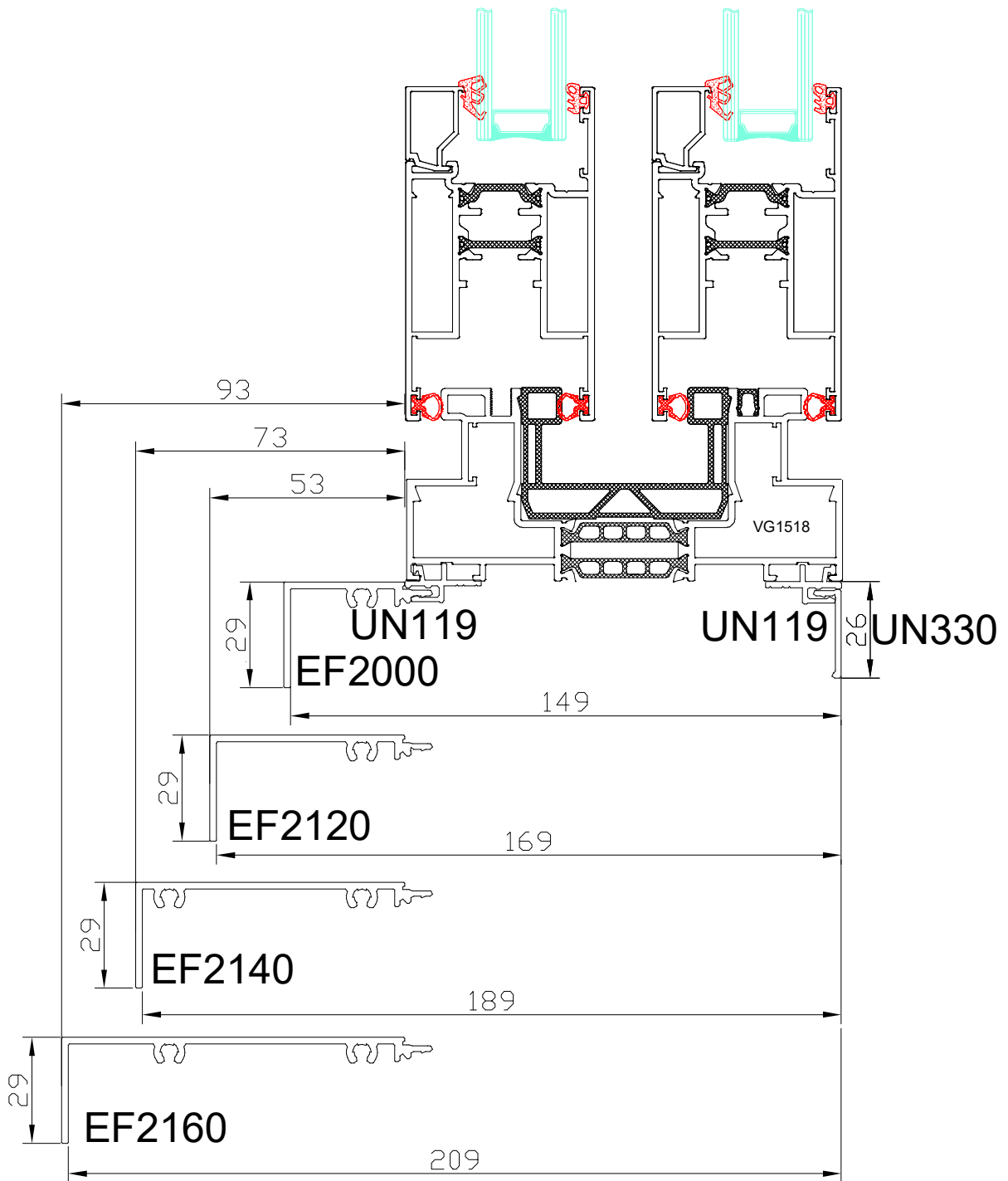


DA-51 HST  
 Frame with 3 tracks and a threshold  
 to be flushed from the inside  
 Frame: VG1613  
 Sash: VG521

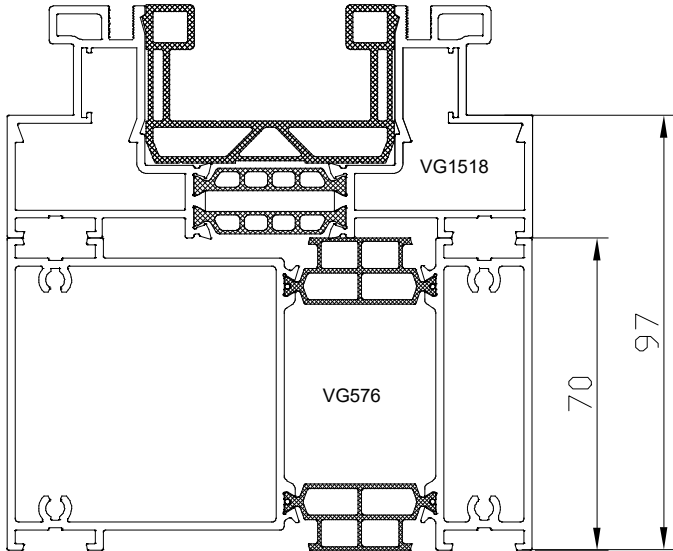


DA-51 HST  
 Frame with 3 tracks and a threshold  
 to be flushed from the inside  
 Frame: VG1613  
 Sash: VG521  
 Post: 100 mm

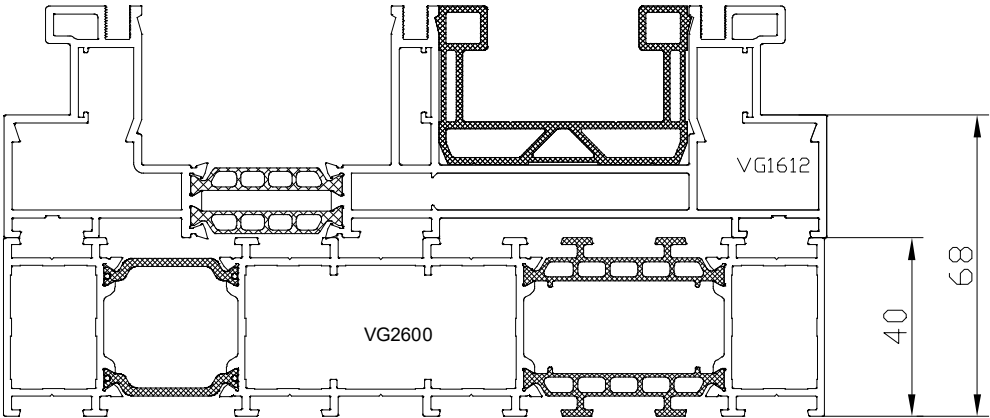




DA-51 HST / DA-51 ST  
Cover profiles



DA-51 HST / DA-51 ST  
Expander VG576

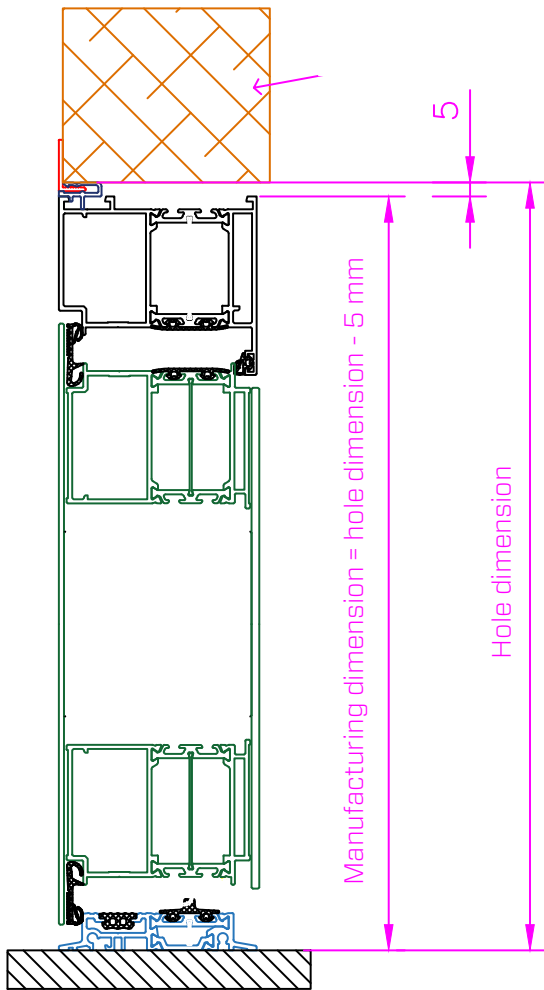


DA-51 HST / DA-51 ST  
Expander VG2600

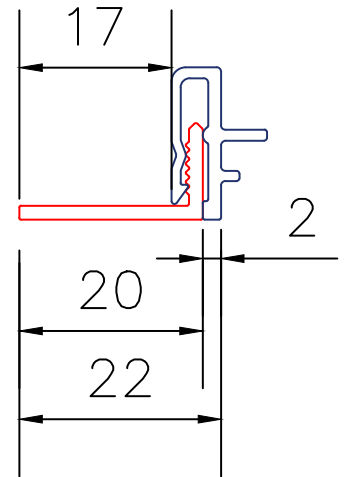




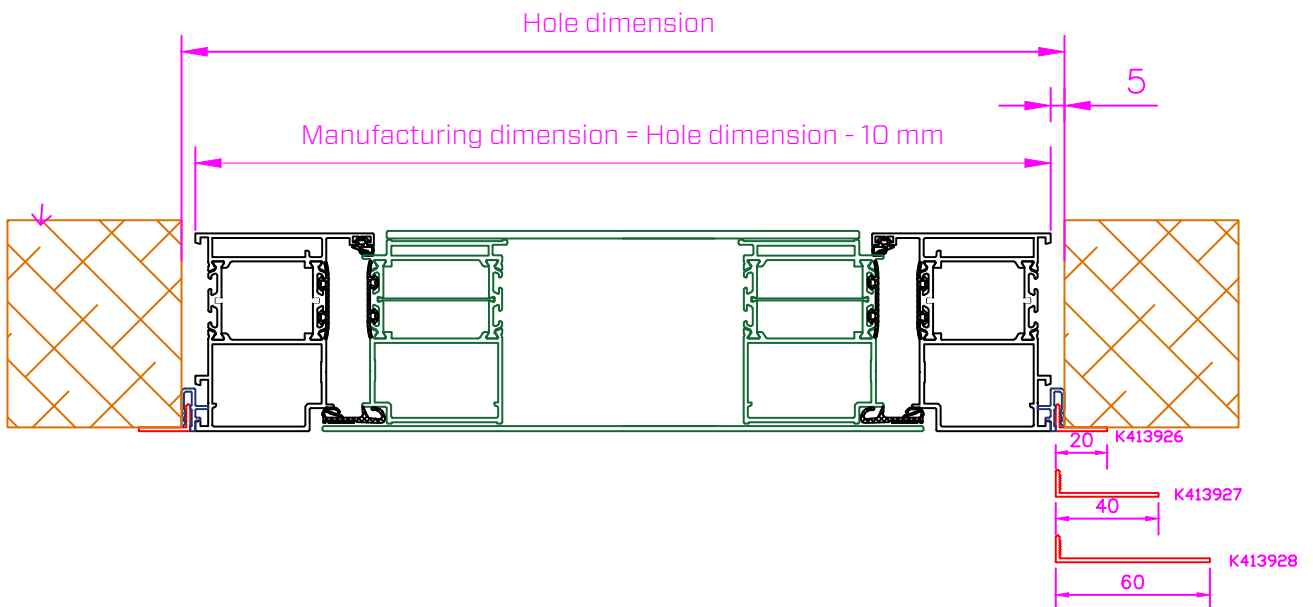
## DA-77N PANEL DOORS

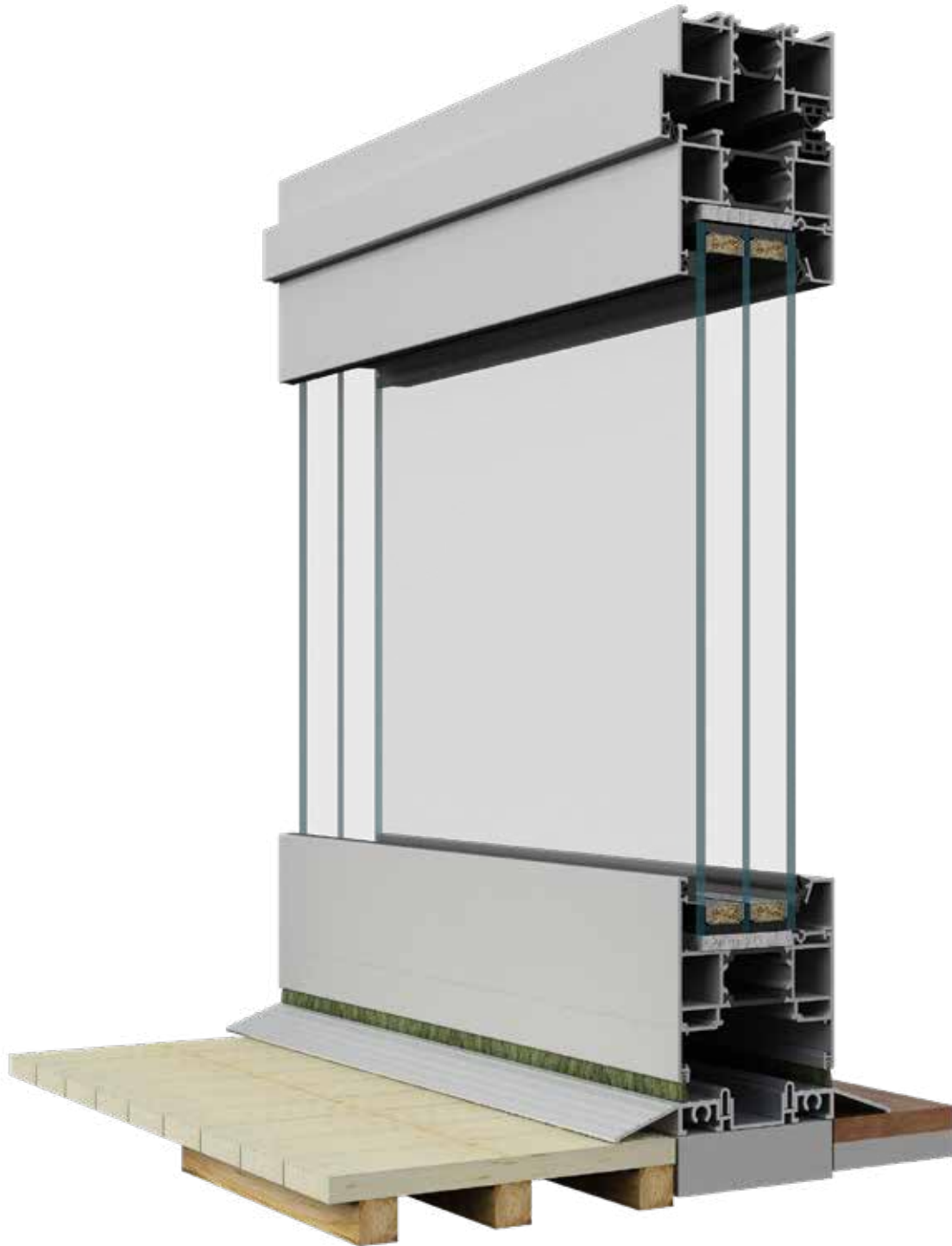


K413929 + K413926



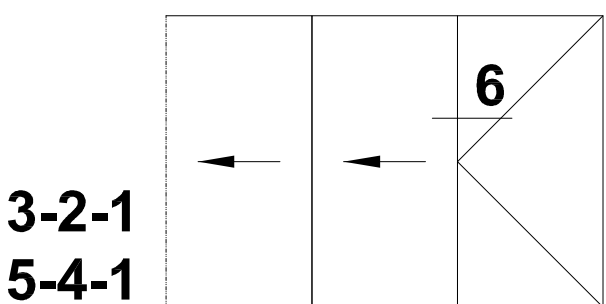
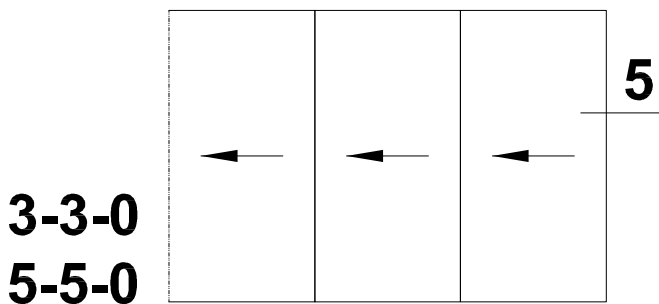
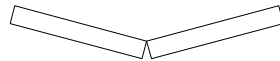
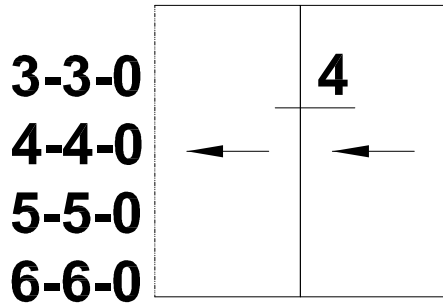
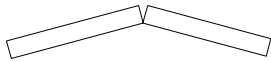
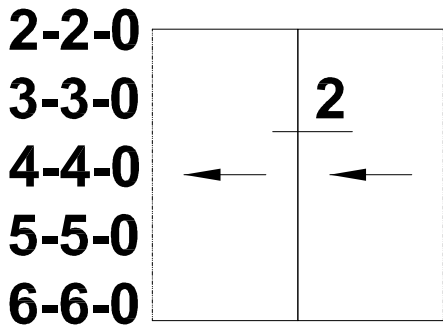
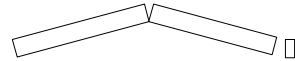
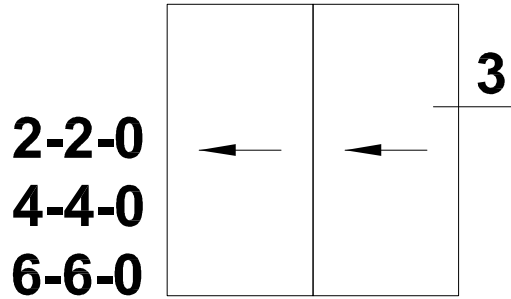
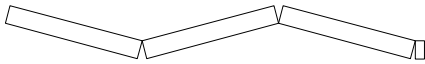
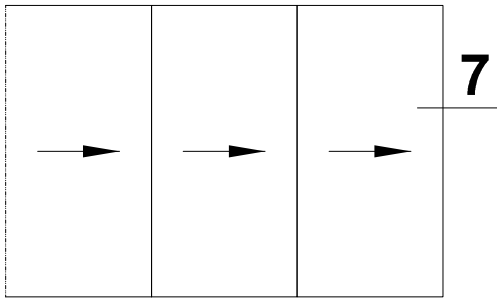
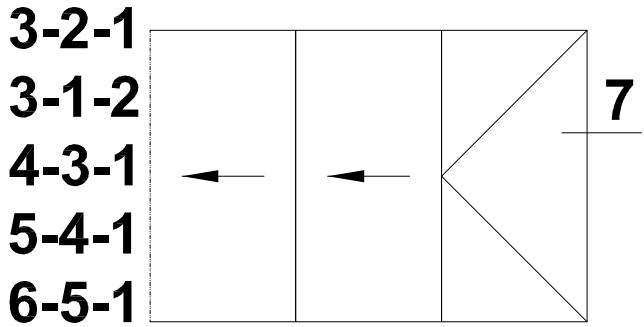
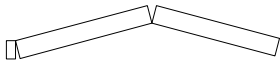
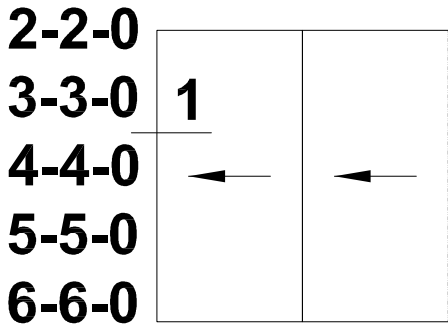
DA-77N  
Renovation assembly - profile DA-77N panel doors  
- sahes on 3 sides: D, G, H



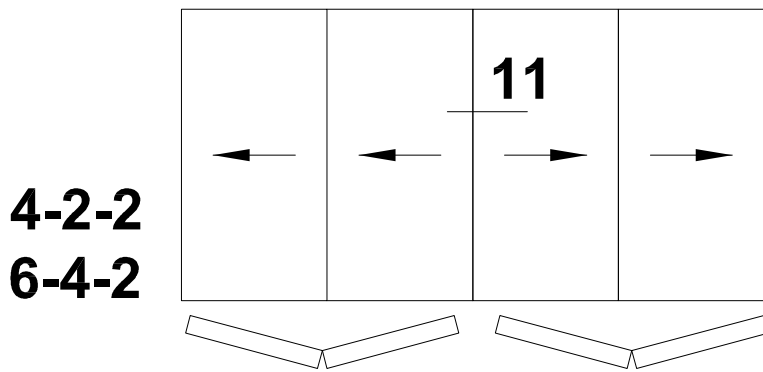
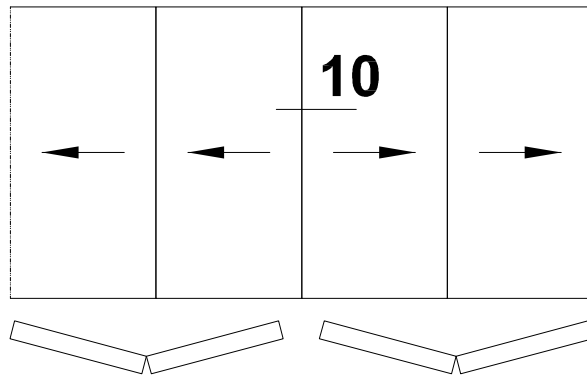
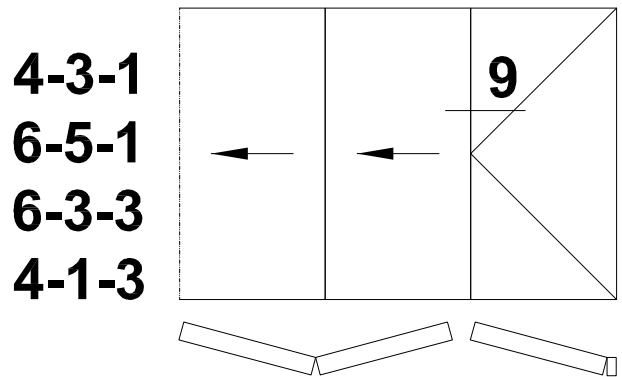
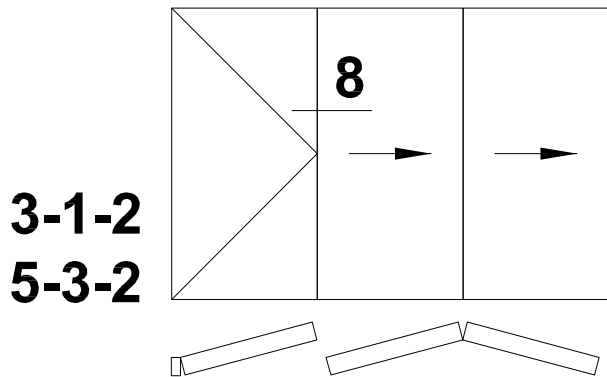


# DA-77 FD FOLDING DOOR

DA-77 FD  
Possible inward opening models

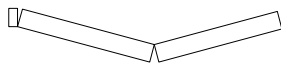
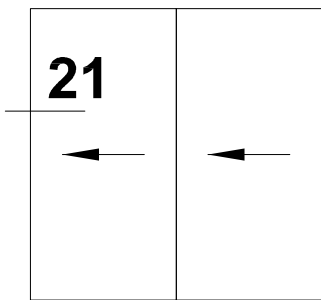


DA-77 FD  
Possible inward opening models

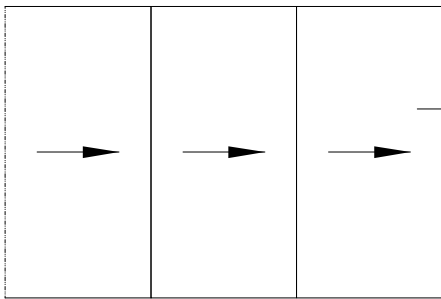
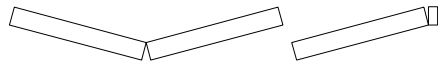
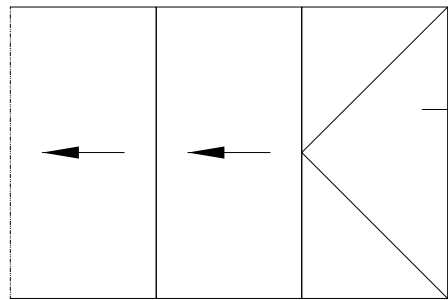


DA-77 FD  
Possible outward opening models

2-2-0  
3-3-0  
4-4-0  
5-5-0  
6-6-0

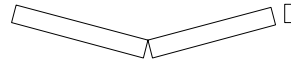
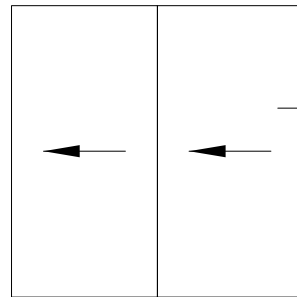


3-2-1  
3-1-2  
4-3-1  
5-4-1  
6-5-1



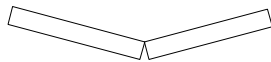
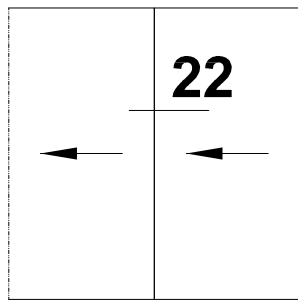
27

2-2-0  
4-4-0  
6-6-0



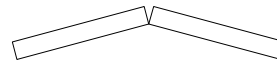
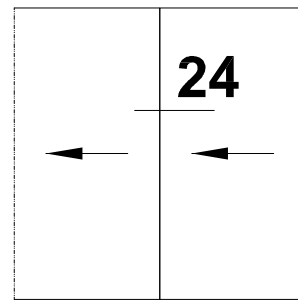
23

2-2-0  
3-3-0  
4-4-0  
5-5-0  
6-6-0



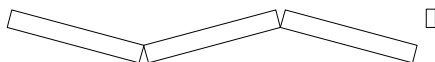
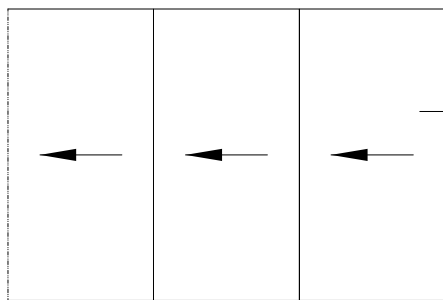
22

3-3-0  
4-4-0  
5-5-0  
6-6-0



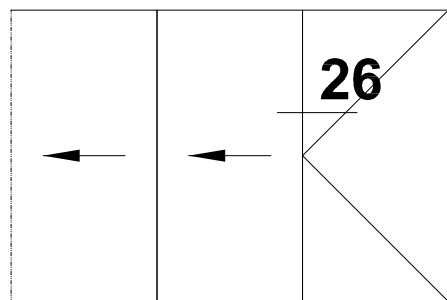
24

3-3-0  
5-5-0



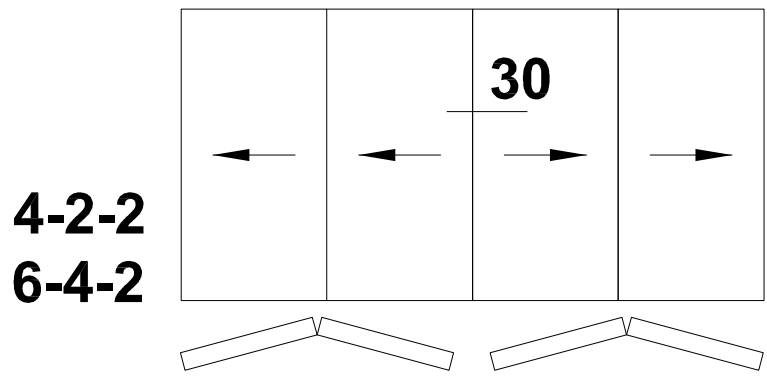
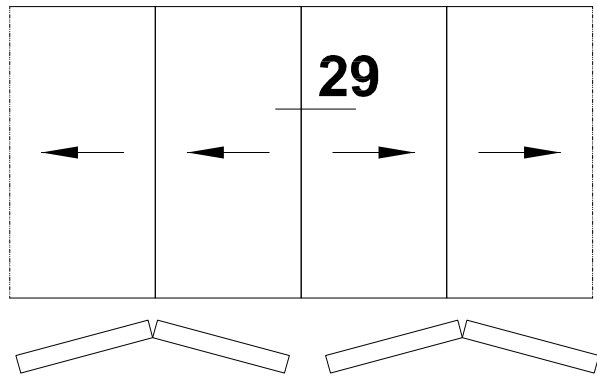
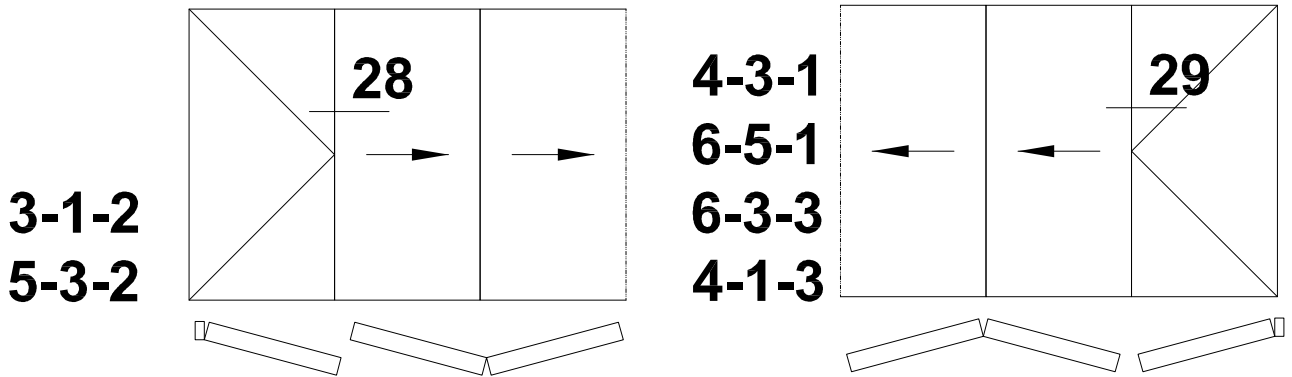
25

3-2-1  
5-4-1

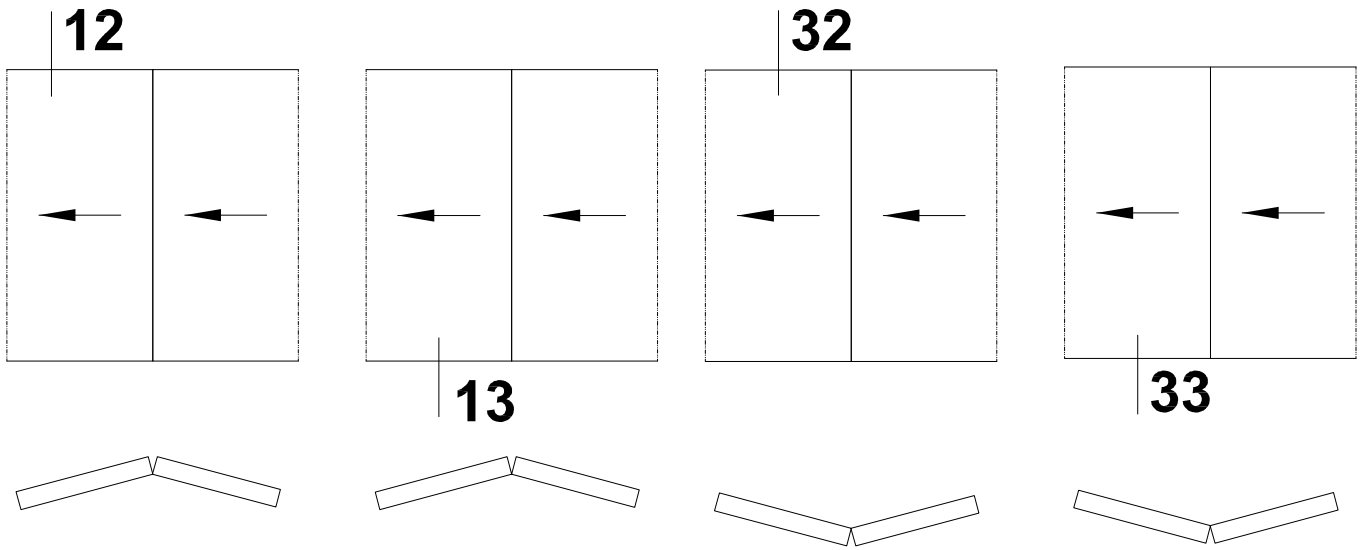


26

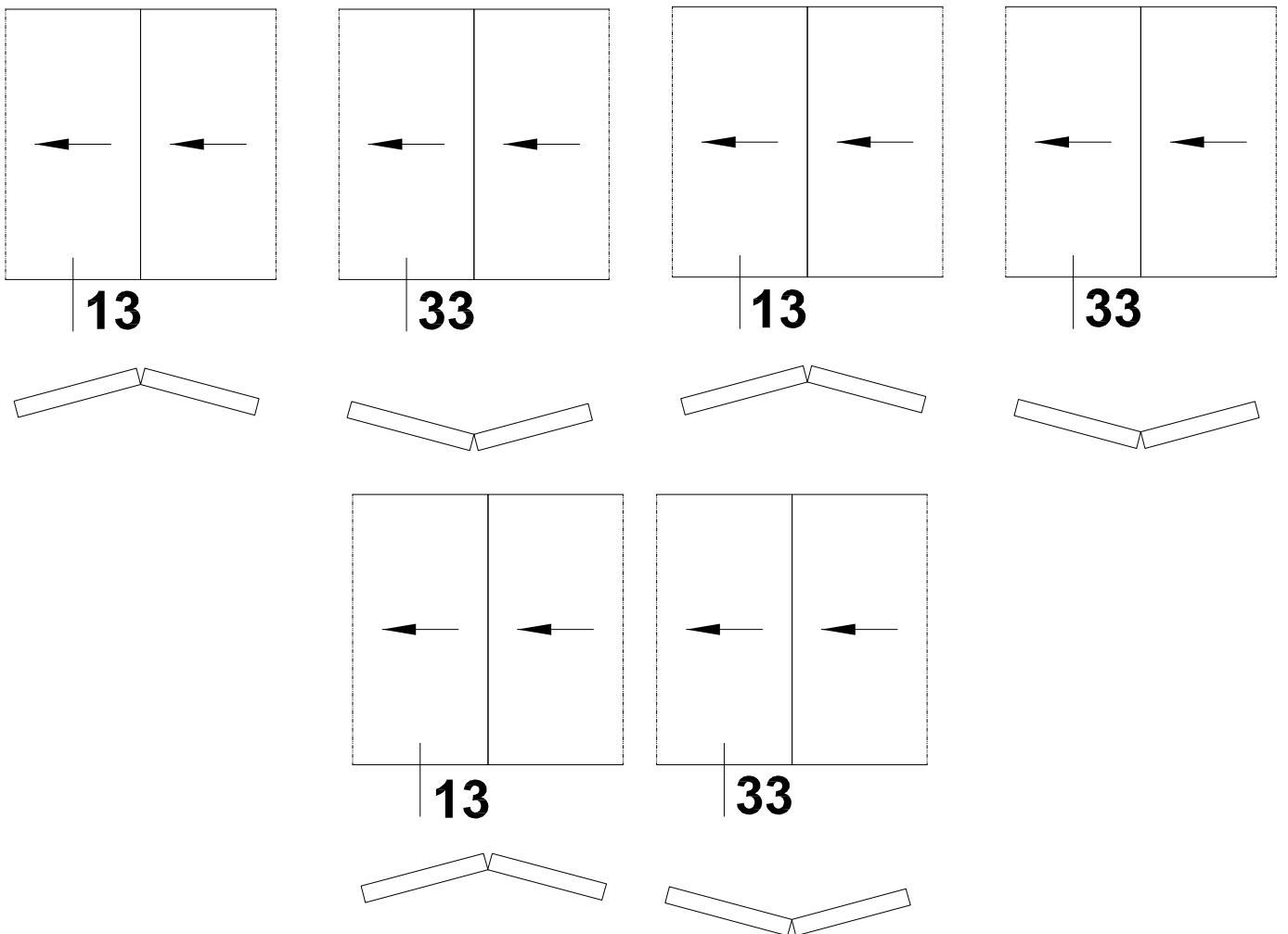
DA-77 FD  
Possible outward opening models



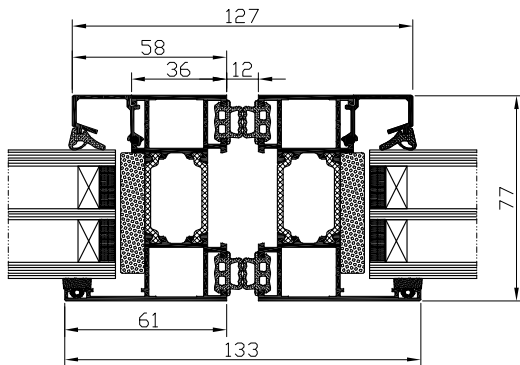
DA-77 FD  
Possible models for inward or outward opening



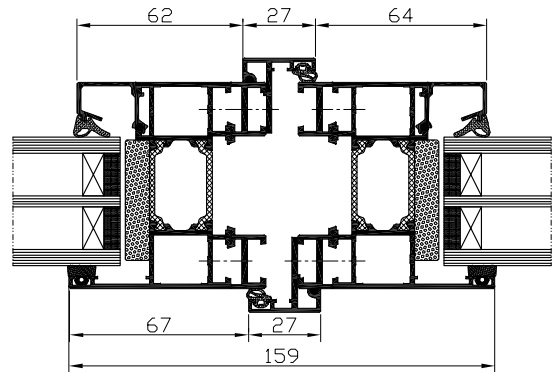
DA-77 FD  
Possible models for inward or outward opening



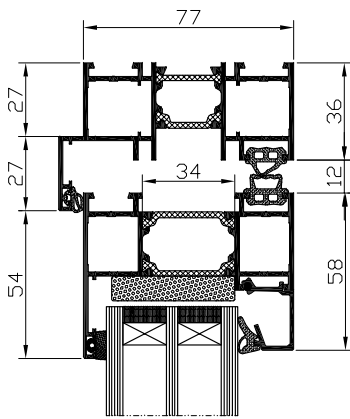




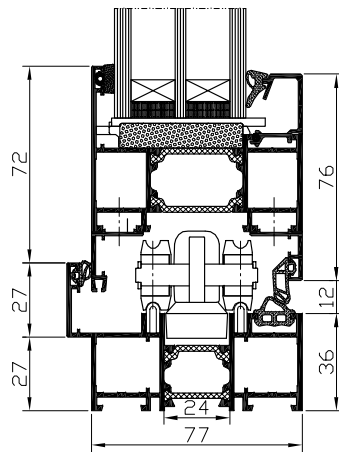
DA-77 FD  
Cross-section: 2, 4, 6, 8, 9, 10, 22,  
24, 26, 28, 29, 30 variant 1



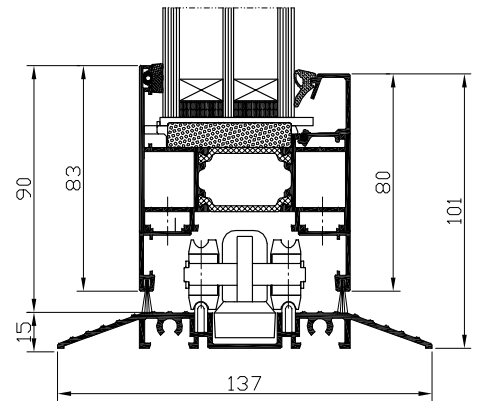
DA-77 FD  
Cross-section: 2, 4, 6, 8, 9, 10, 22,  
24, 26, 28, 29, 30 variant 7



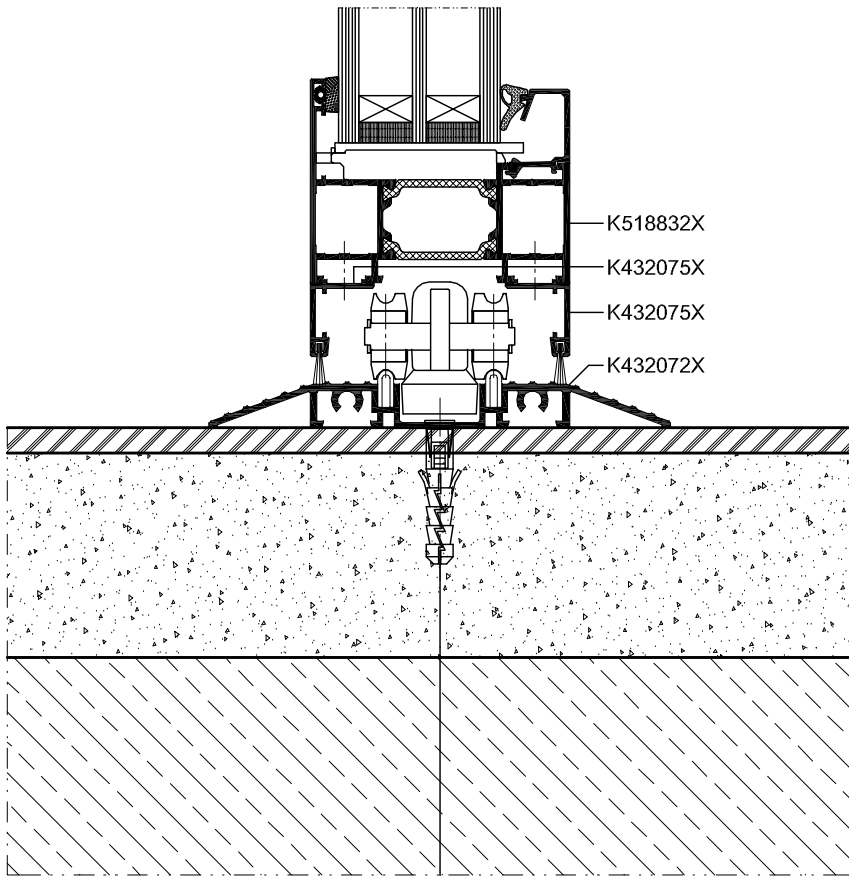
DA-77 FD  
Cross-section: 12, 32 variant 1



DA-77 FD  
Cross-section: 13, 33 variant 1

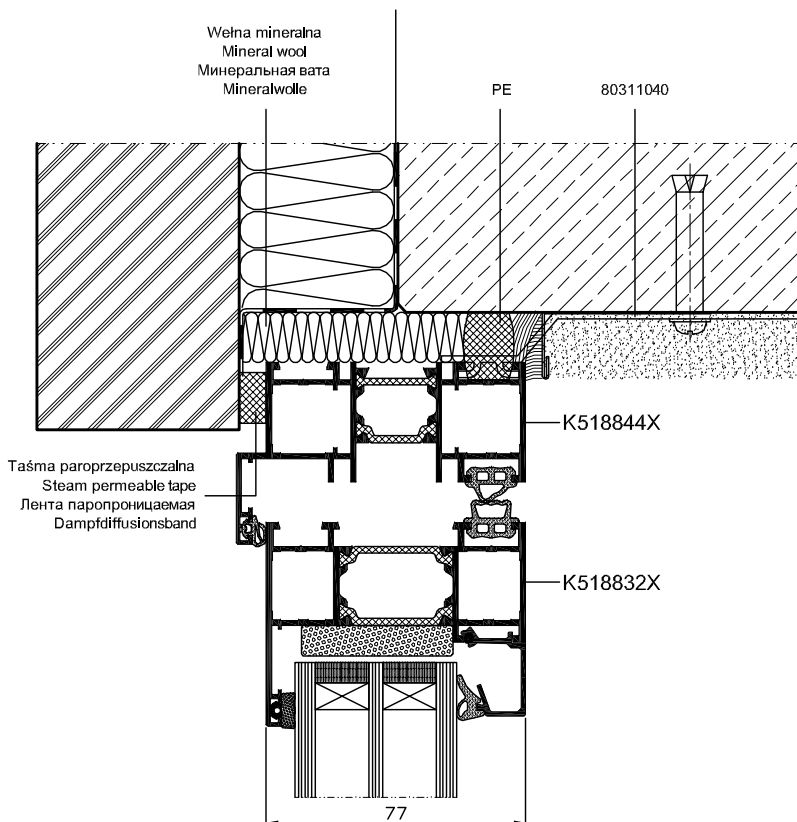


DA-77 FD  
Cross-section: 13, 33 variant 2



Kolek rozporowy Ø10  
 Expansion bolt Ø10  
 Дюбель Ø10  
 Spreizdübel Ø10

DA-77 FD  
 Assembly



DA-77 FD  
 Assembly



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