

# WP 5000

ТЕХНИЧЕСКИ КАТАЛОГ

TECHNICAL CATALOGUE TECHNISCHER KATALOG CATALOG TEHNIC

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**ТЕХНИЧЕСКИ КАТАЛОГ**

**PVC СИСТЕМИ**

**TECHNICAL CATALOGUE  
PVC SYSTEMS**

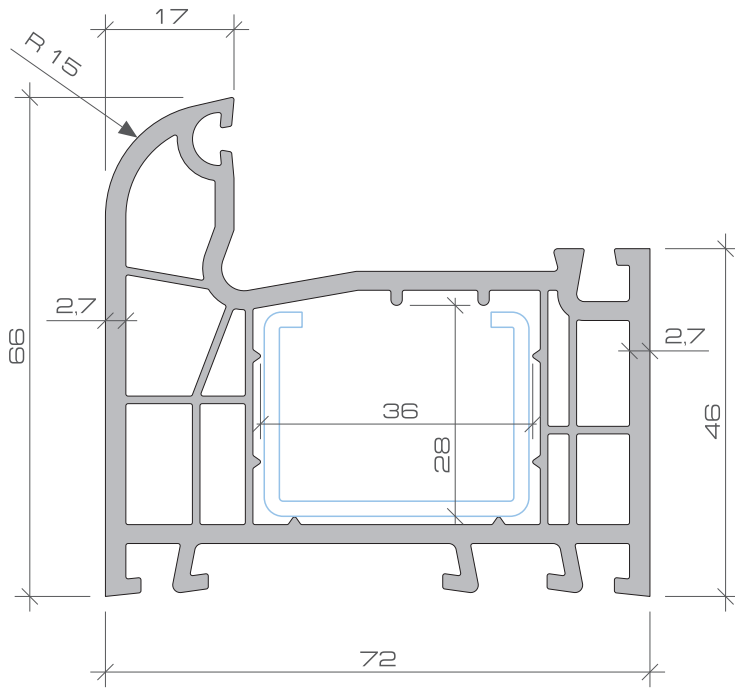
**TECHNISCHER KATALOG  
PVC SYSTEME**

**CATALOG TEHNIC  
SISTEME PVC**



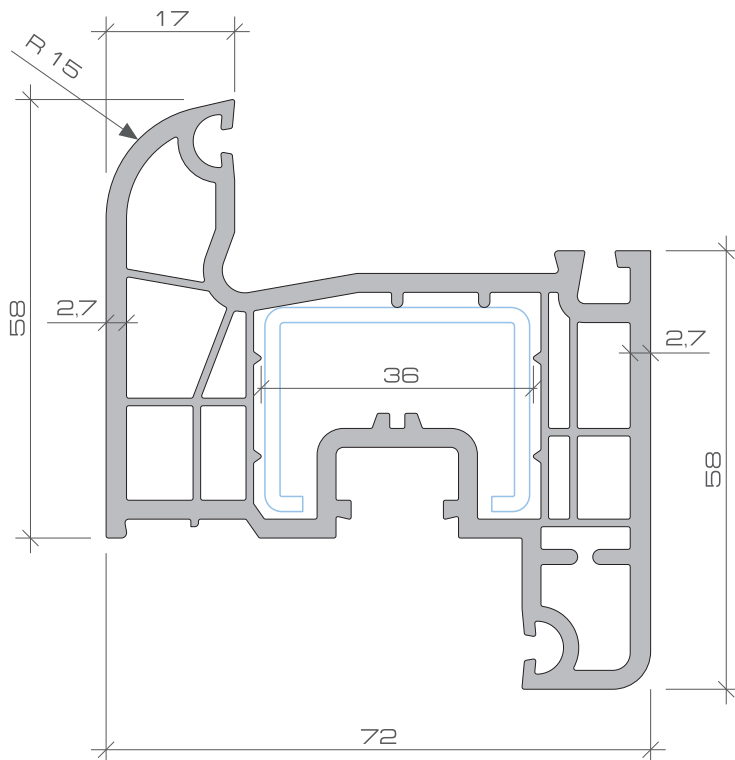
# 5 - КАМЕРА СИСТЕМА

5-chamber system / 5-Kammer System/  
Sistem de 5 camere



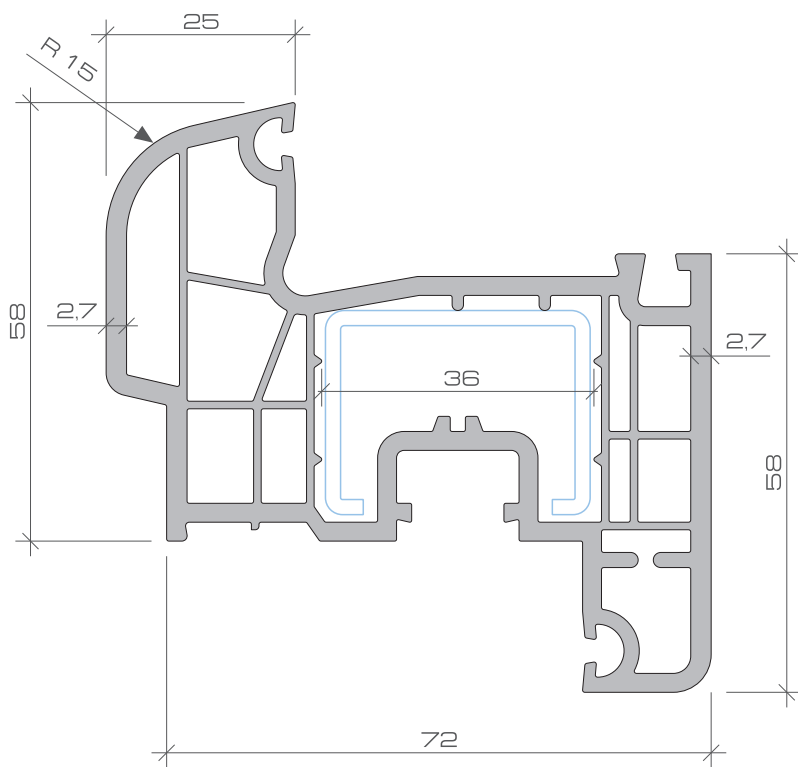
КАСА  
Rahmenprofil  
Frame profile  
Profil toc

WP 5001

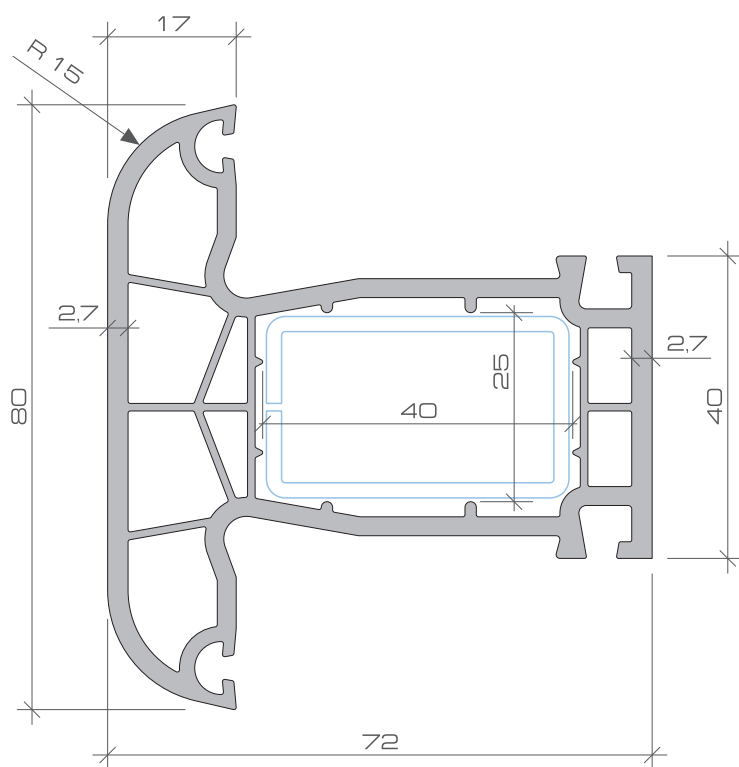


КРИЛО  
Fluegelprofil  
Sash profile  
Profil anpa

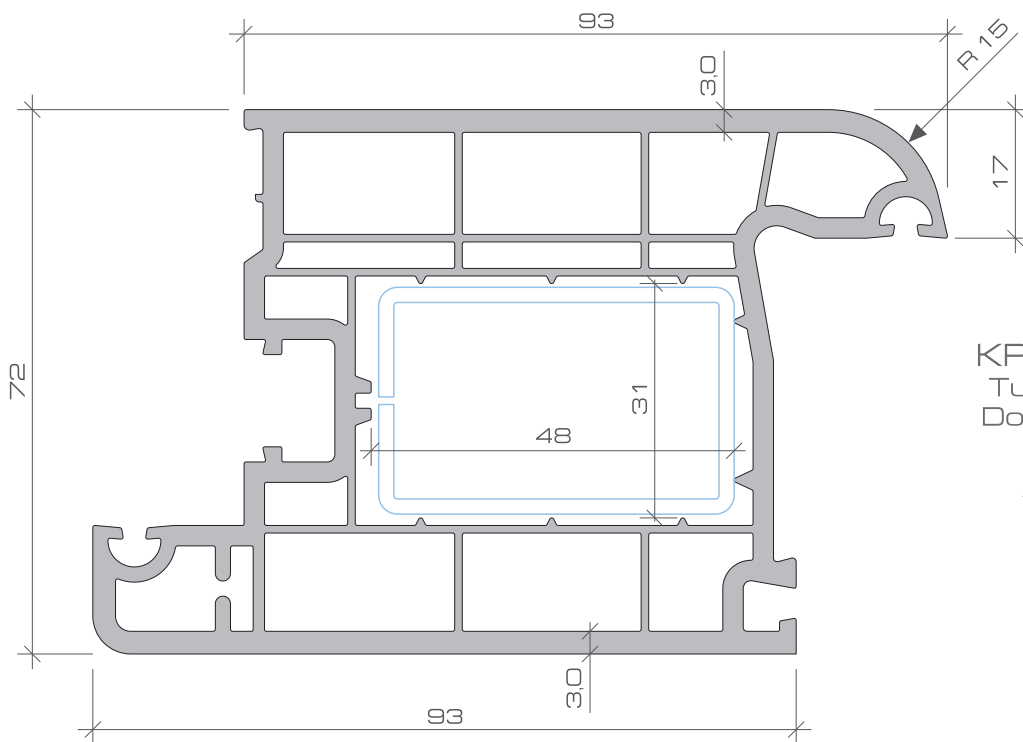
WP 5002



КРИЛО  
 Fluegelprofil  
 Sash profile  
 Profil aripa  
 WP 5010

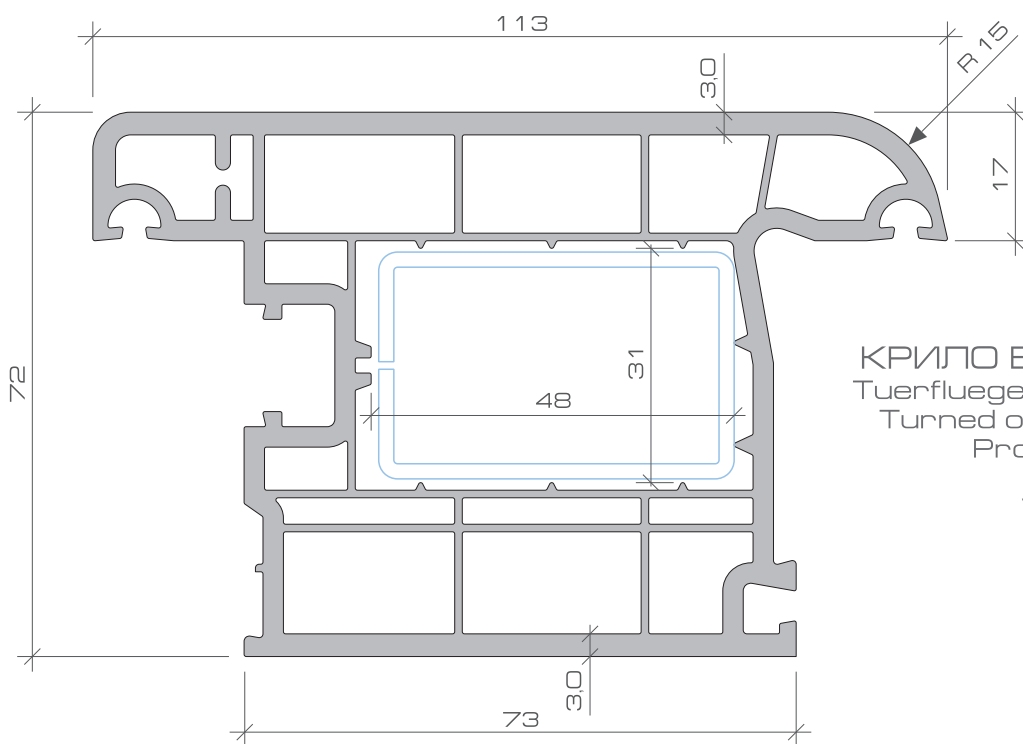


ДЕЛИТЕЛ  
 Kaempfer  
 Mullion profile  
 Profil traversa  
 WP 5003



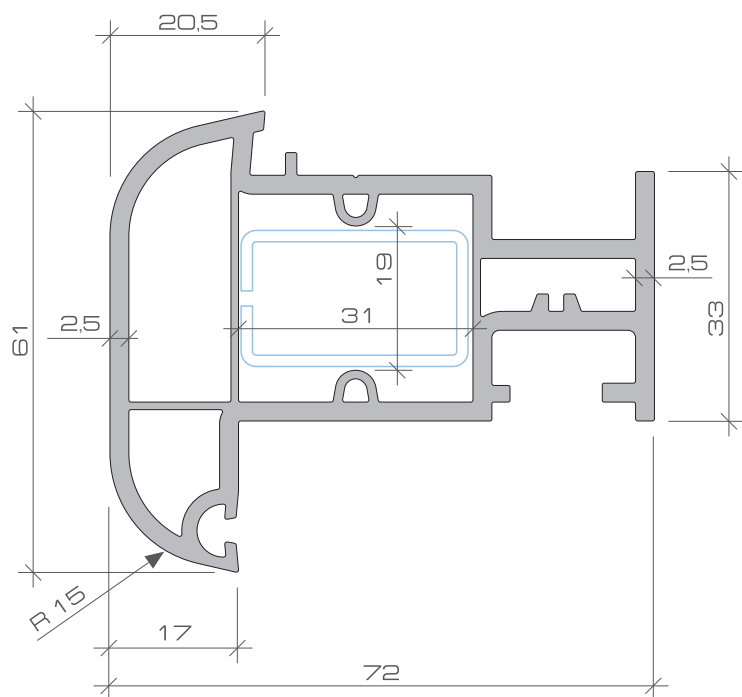
КРИЛО ВРАТА  
 Tuerfluegelprofil  
 Door sash profile  
 Profil usa

WP 5004



КРИЛО ВРАТА ОБЪРНАТО  
 Tuerfluegelprofil aussen oeffnend  
 Turned over door sash profile  
 Profil usa exterior

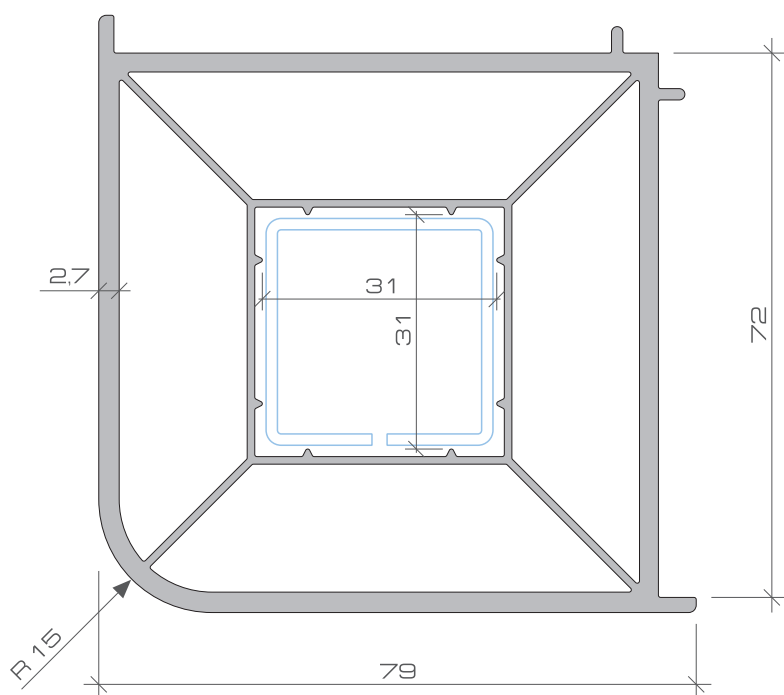
WP 5005



ПОДВИЖЕН ДЕЛИТЕЛ

Stulpprofil  
Lap joint profile  
Profil inversor

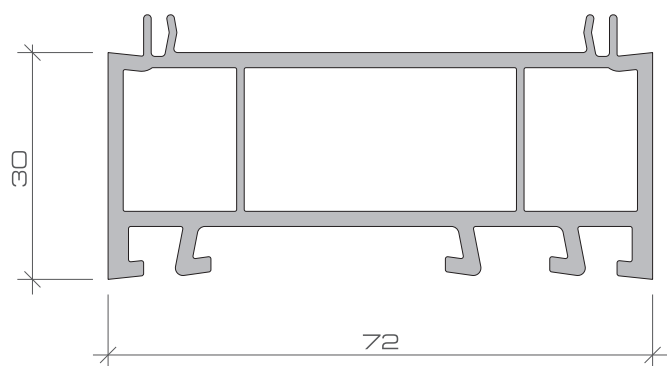
WP 5006



ЪГЛОВ ПРОФИЛ 90°

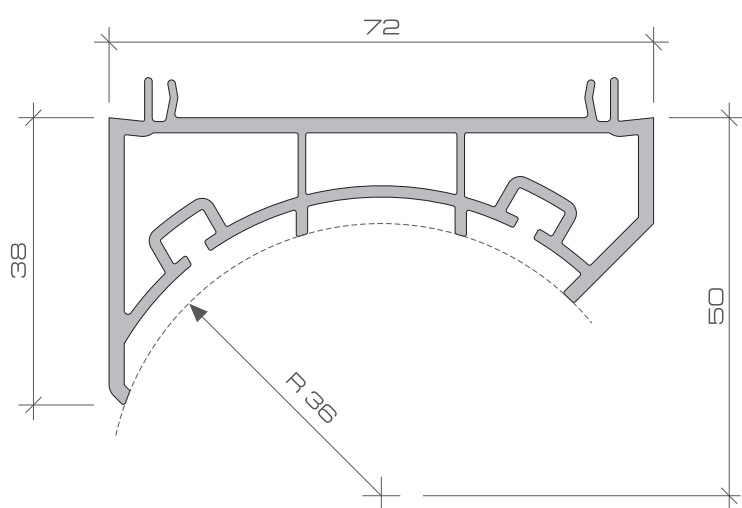
Eckpfosten  
Corner profil  
Profil colt 90°

WP 5007



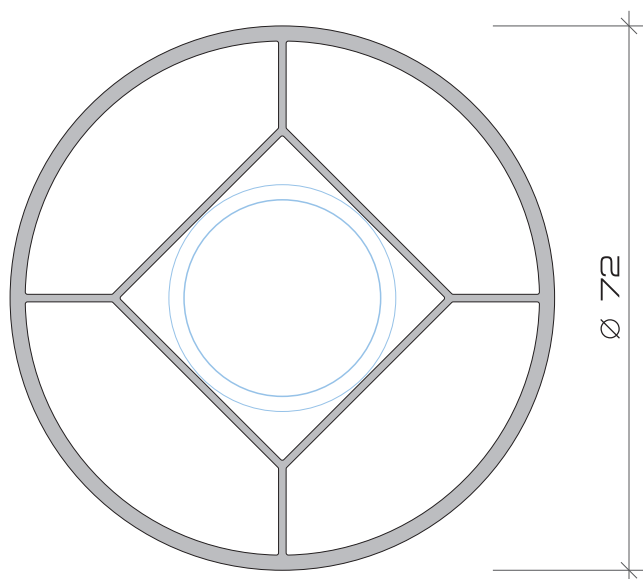
ПРОФИЛ УДЪЛЖИТЕЛ  
Verlaengerung  
Frame extension  
Inversor

WP 5008



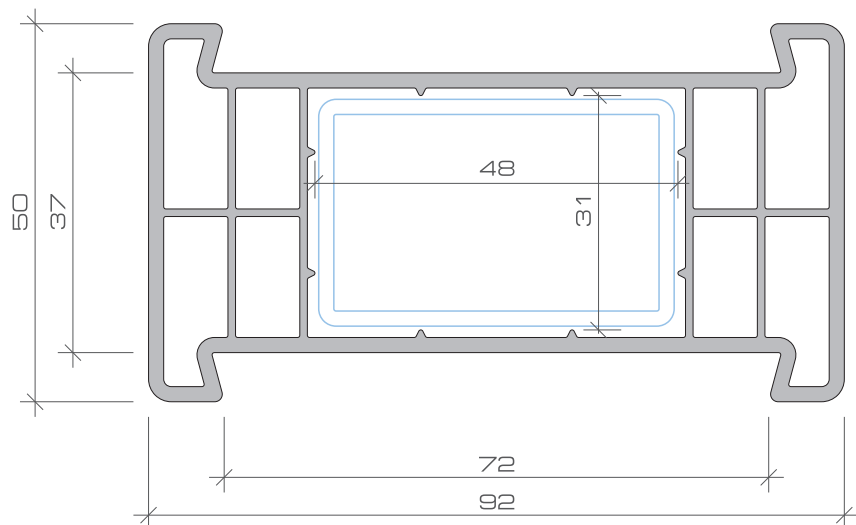
АДАПТОР  
Eckprofil variabler winkel  
Corner lag profile  
Profil adaptor

WP 5009



ТРЪБА  
Rohr variabler winkel  
Pipe profile  
Profil teava

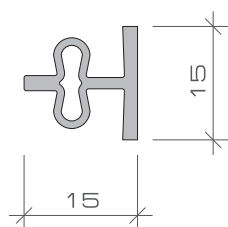
WP 5011



ПРИСЪЕДИНИТЕЛ  
ГОЛЯМ

Verbindungsprofil  
Coupling profile  
Profil conector mare

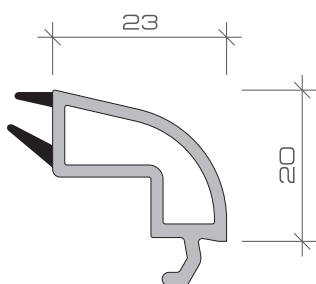
WP 5013



ПРИСЪЕДИНИТЕЛ

Verbindungsprofil  
Coupling profile  
Profil conector

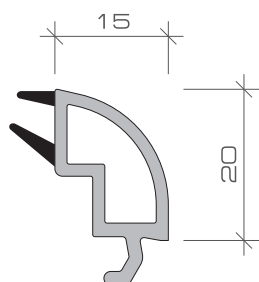
WP 5012



СТЪКЛОДЪРЖАТЕЛ 24 mm

Glasleiste 24  
Glass bead 24  
Bagheta 24 mm

WP 5020

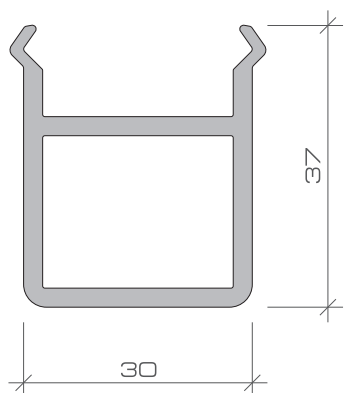


СТЪКЛОДЪРЖАТЕЛ 32 mm

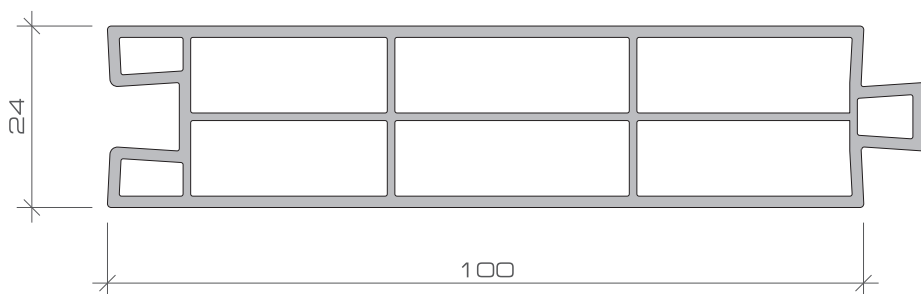
Glasleiste 32  
Glass bead 32  
Bagheta 32 mm

WP 5030

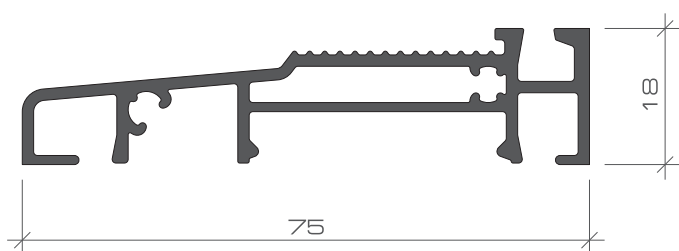




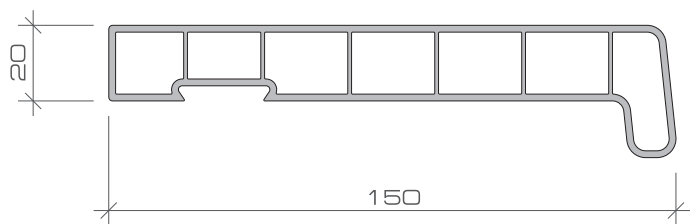
ПОВДИГАЩ ПРОФИЛ  
Lifting profile  
Hebeprofil  
WP 4123



ПАНЕЛ 24 mm  
PVC Bindeplatte 24 mm  
PVC panel 24 mm  
Lambriu 24 mm  
WP 4119

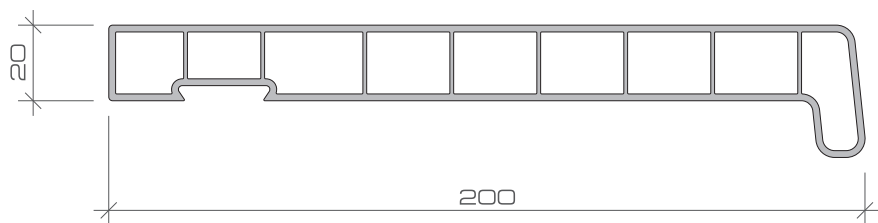


АЛУМИНИЕВ ПРАГ  
Aluminium Tuerschwelle  
Aluminium door - sill  
Prag din aluminiu  
WP 5065

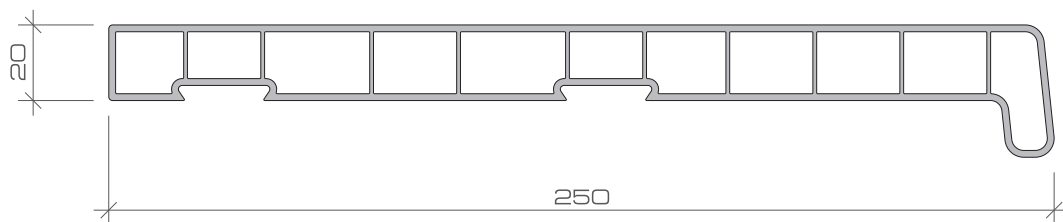


WP 4114

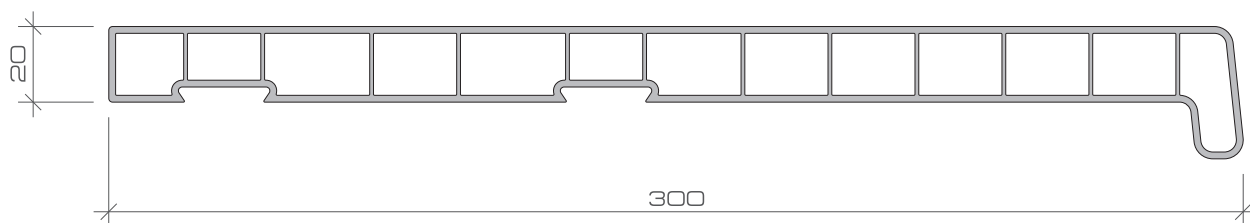
ПОДПРОЗОРЕЧЕН ПРОФИЛ  
Fensterbank  
Under window profile  
Profil glaf



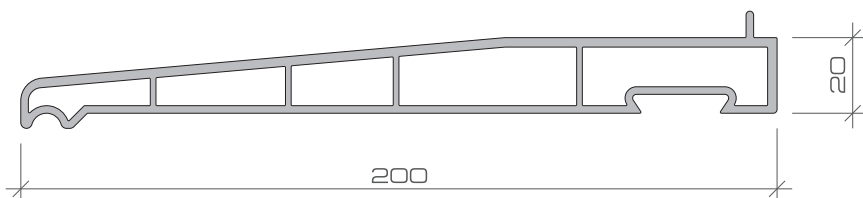
WP 4115



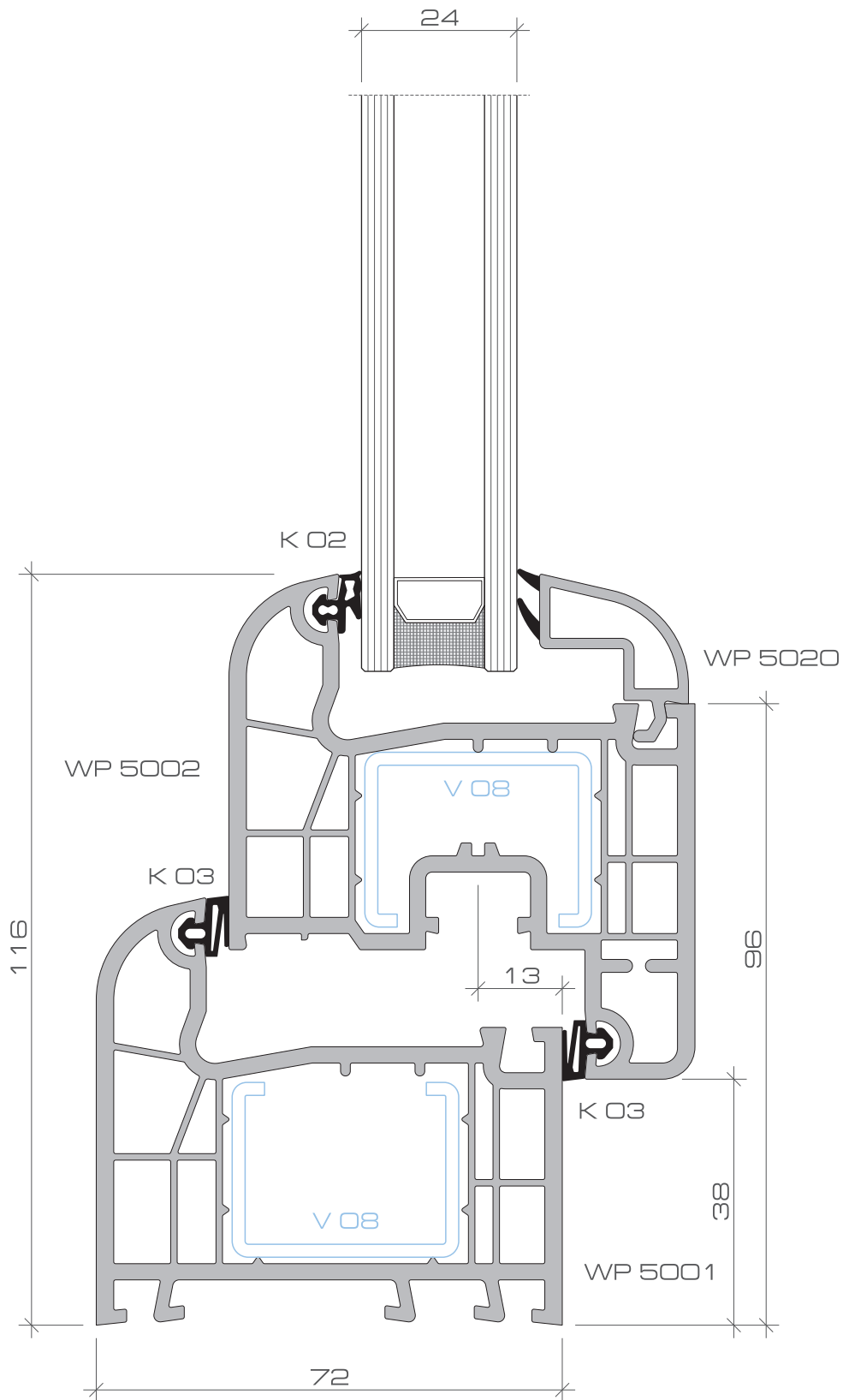
WP 4116

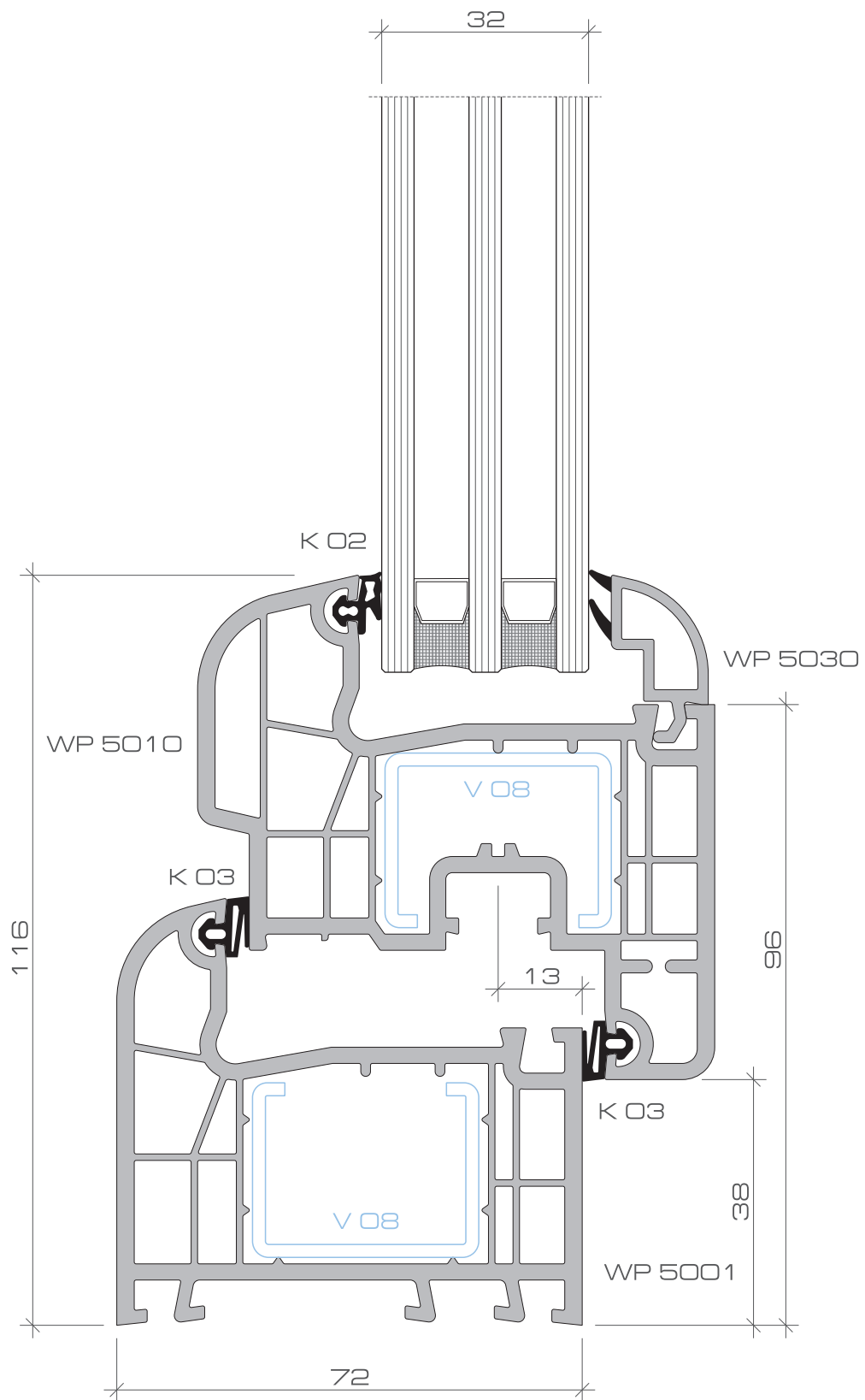


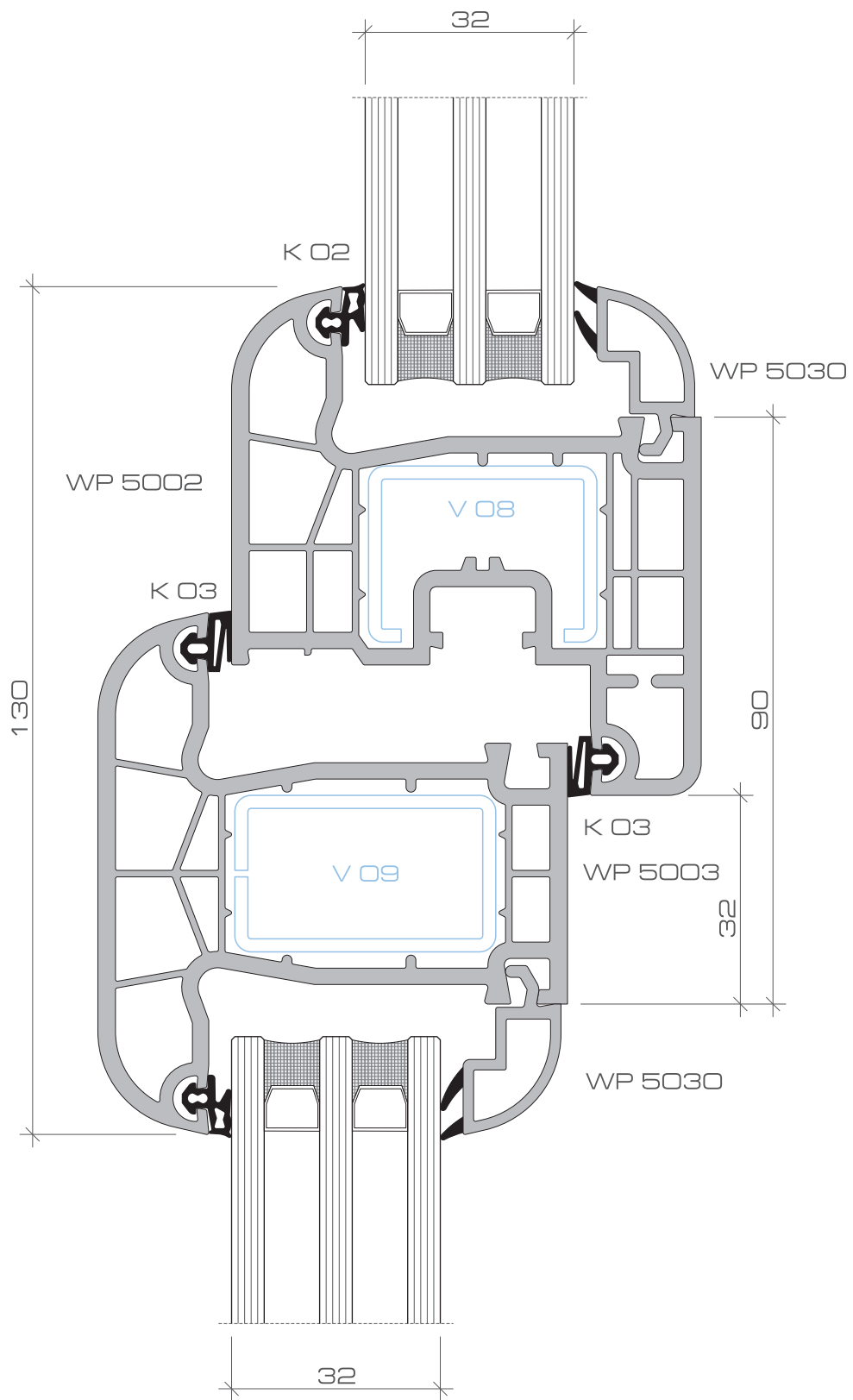
WP 4117

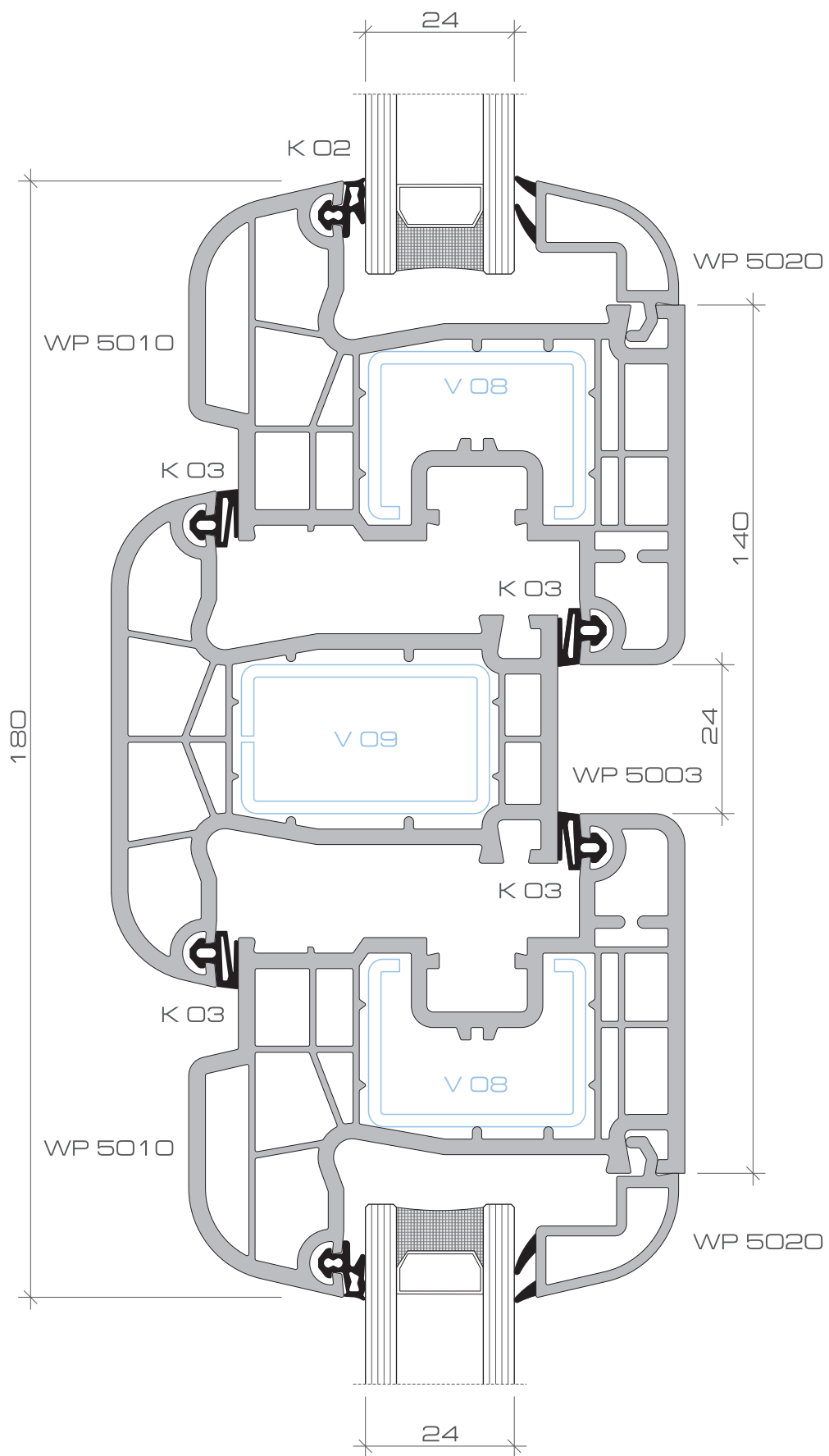


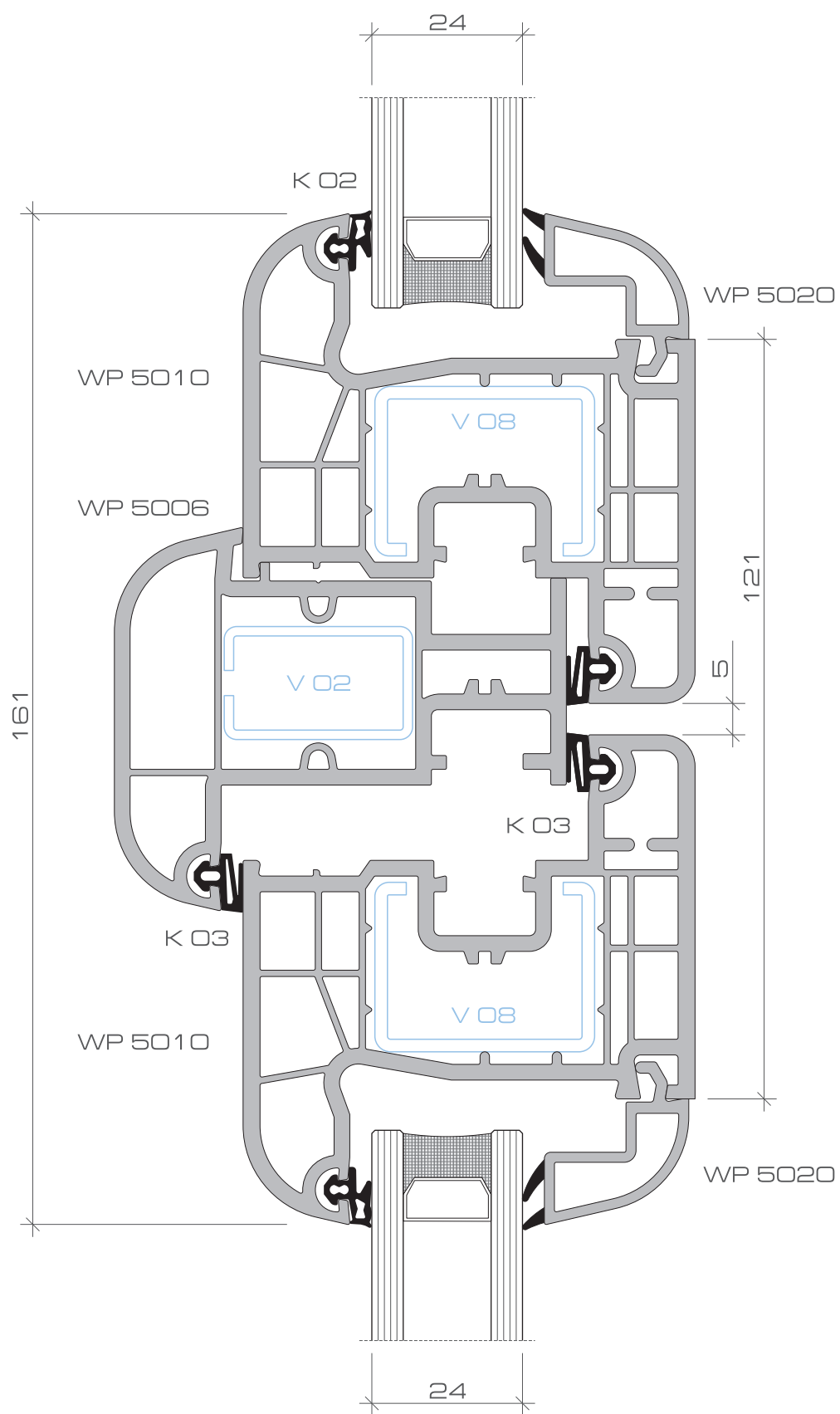
WP 4125

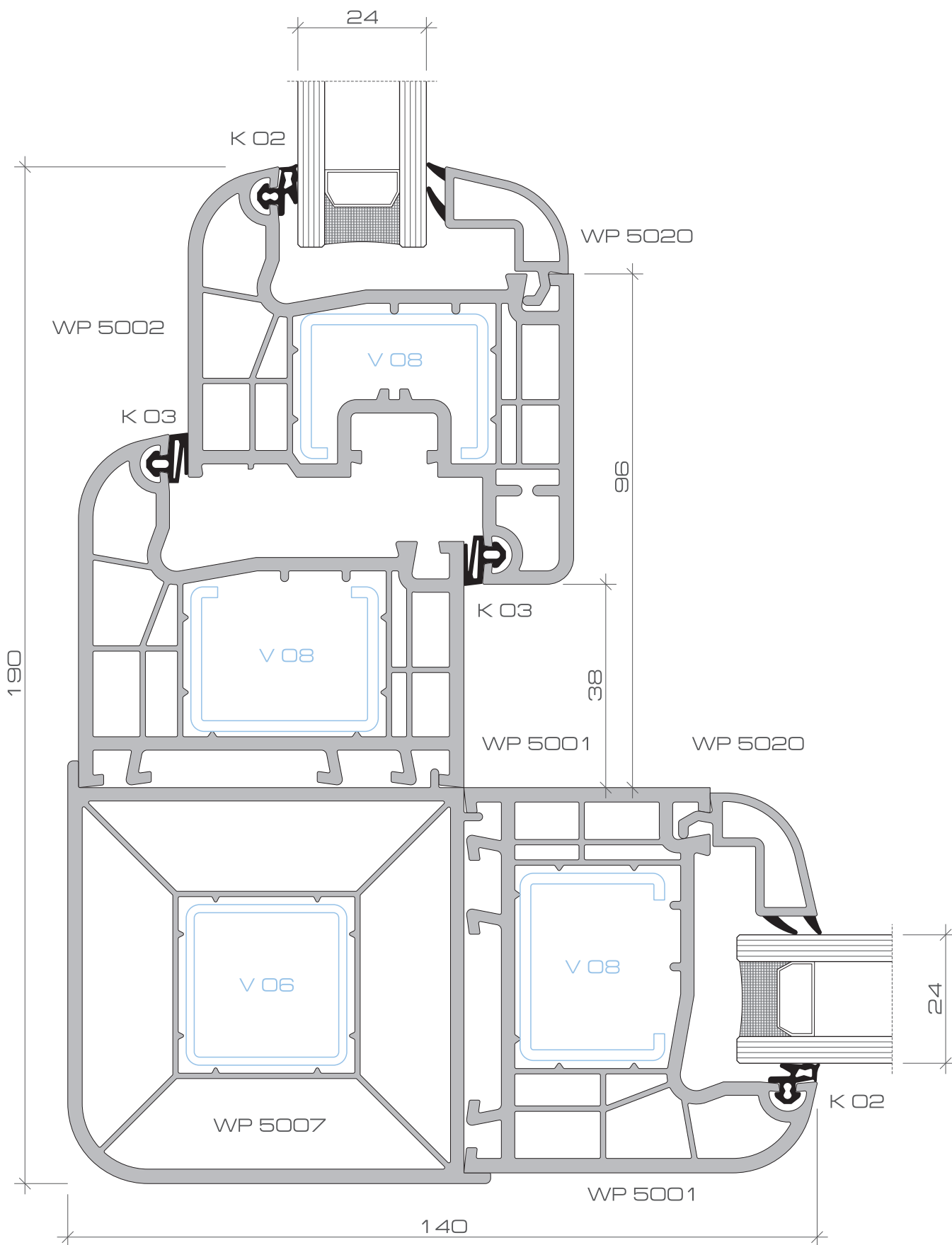




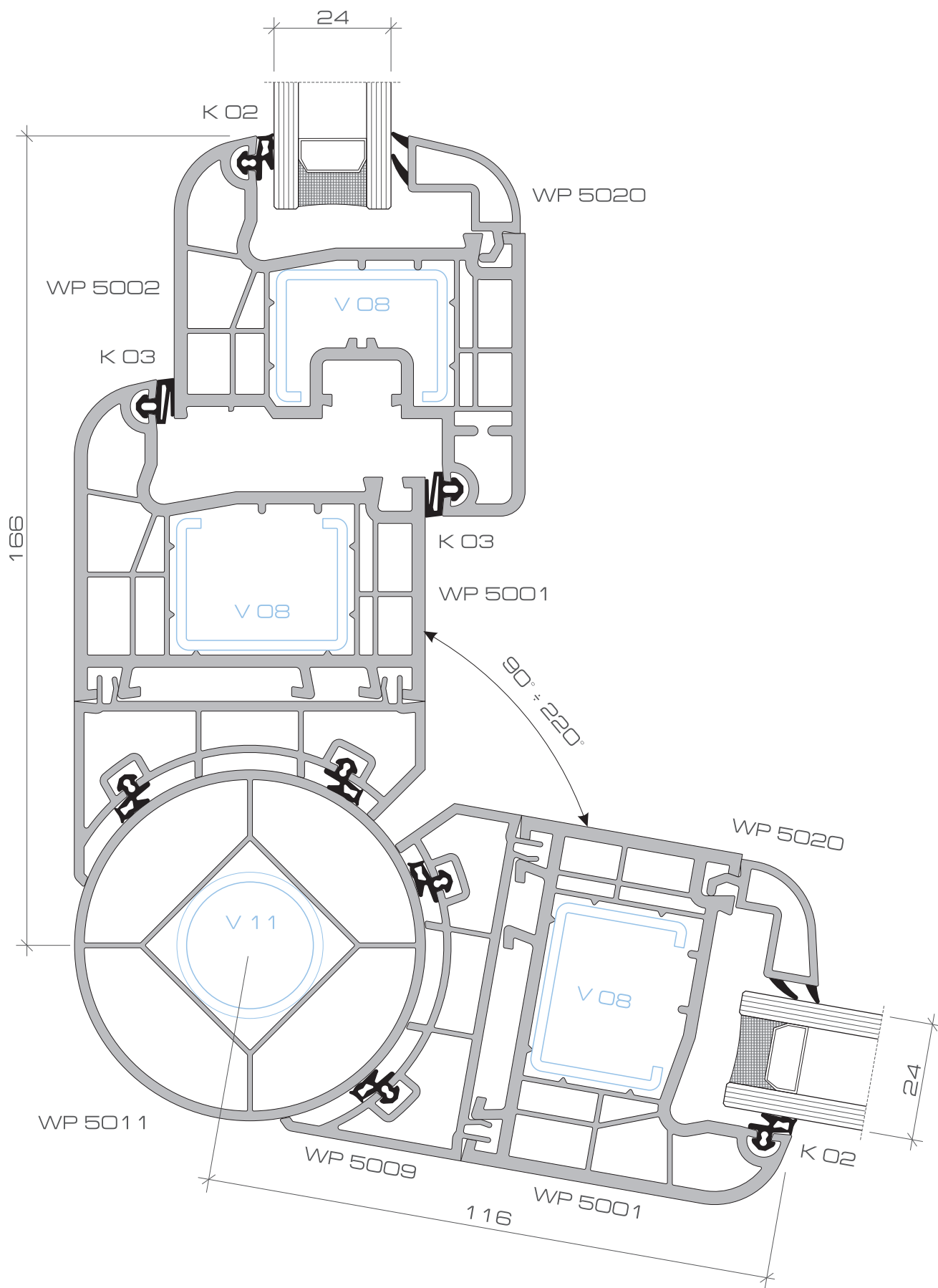


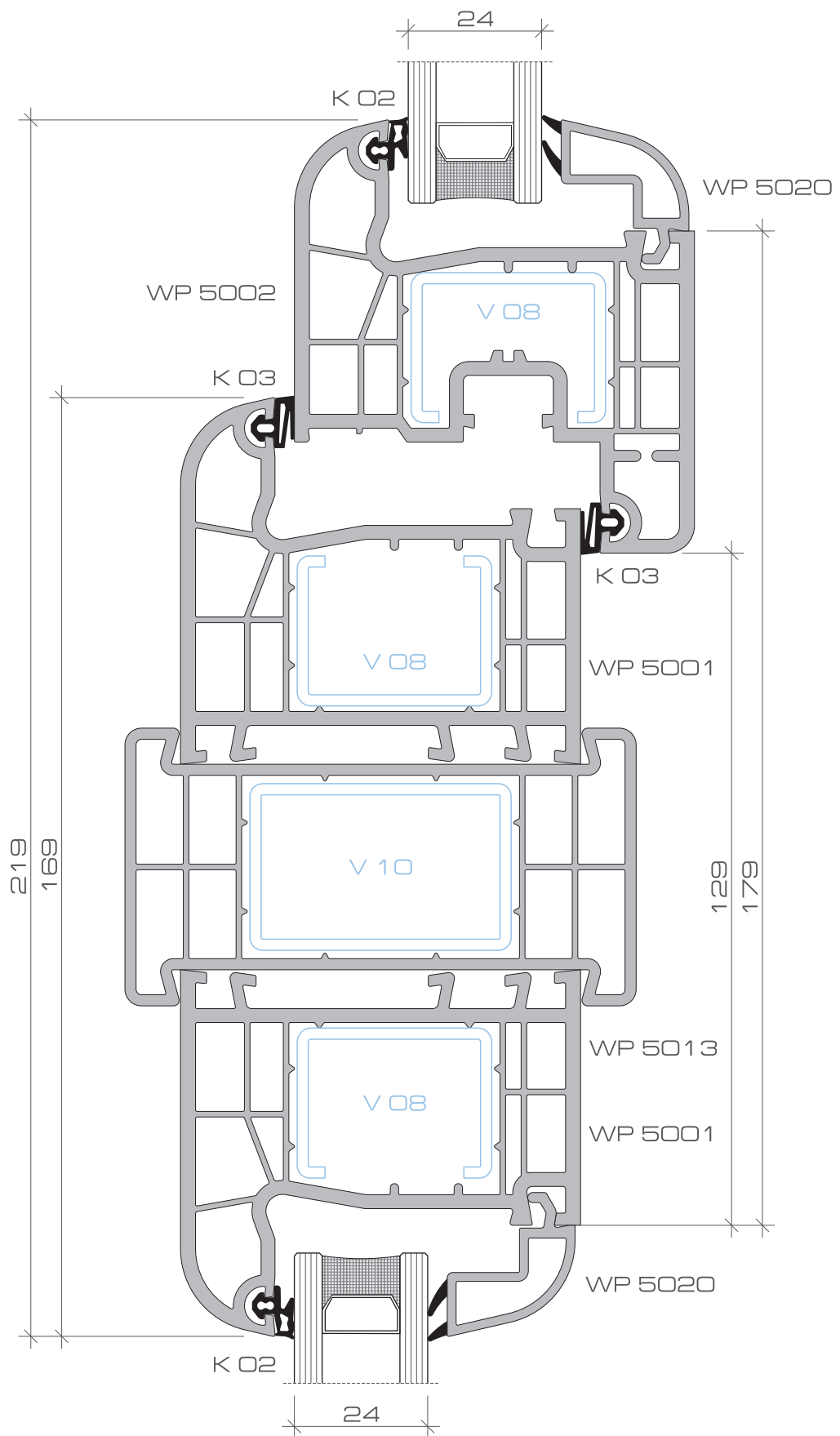


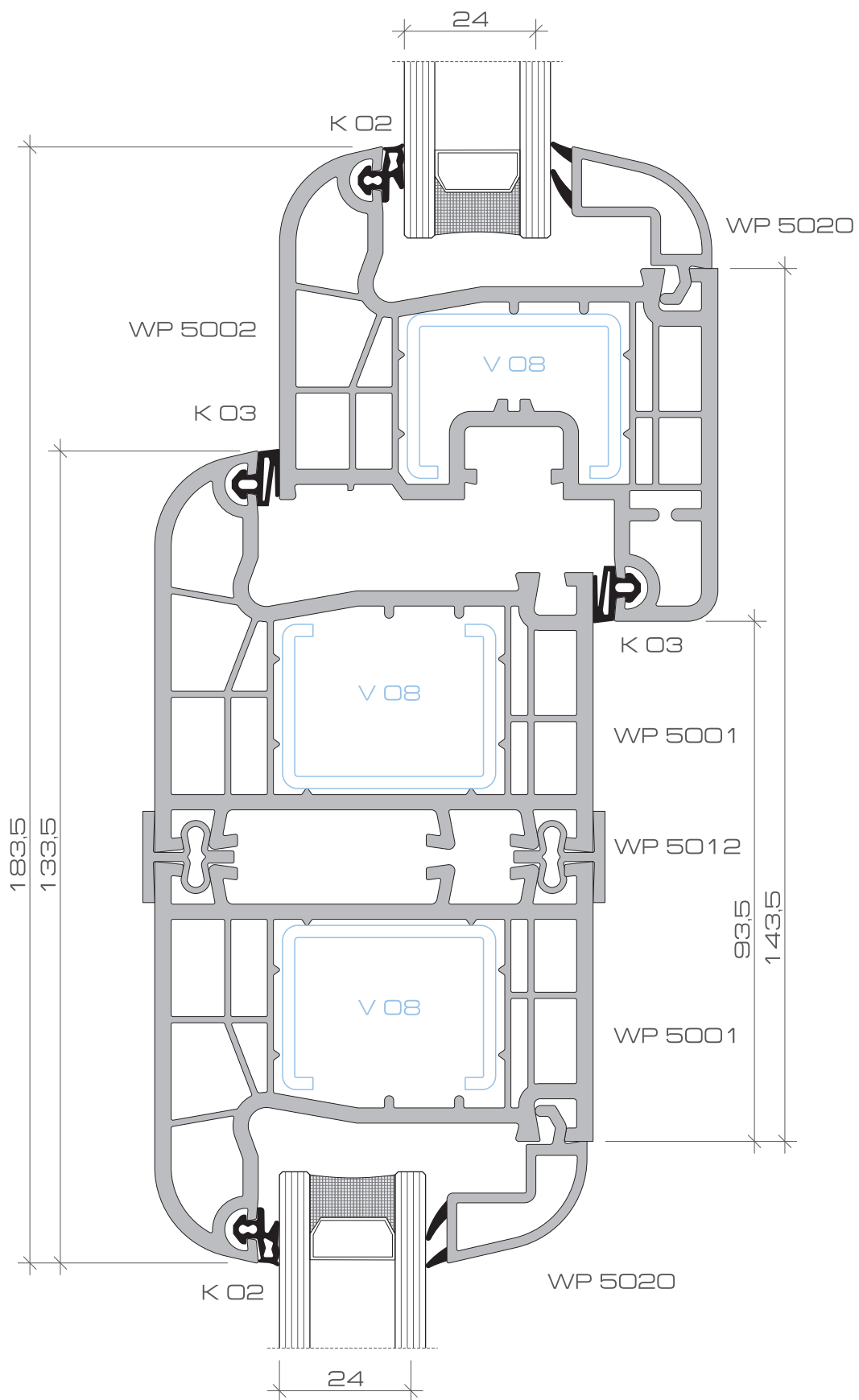


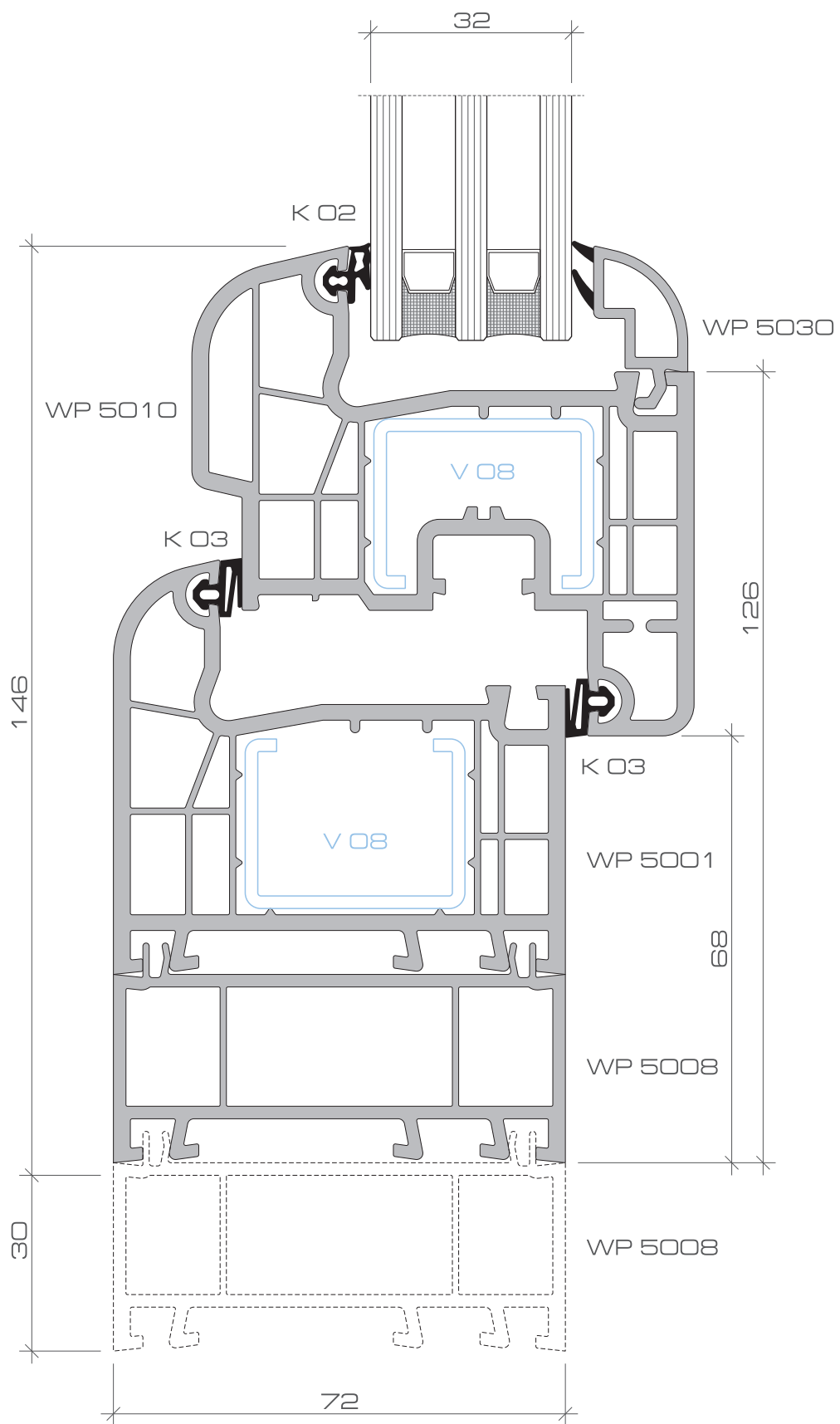


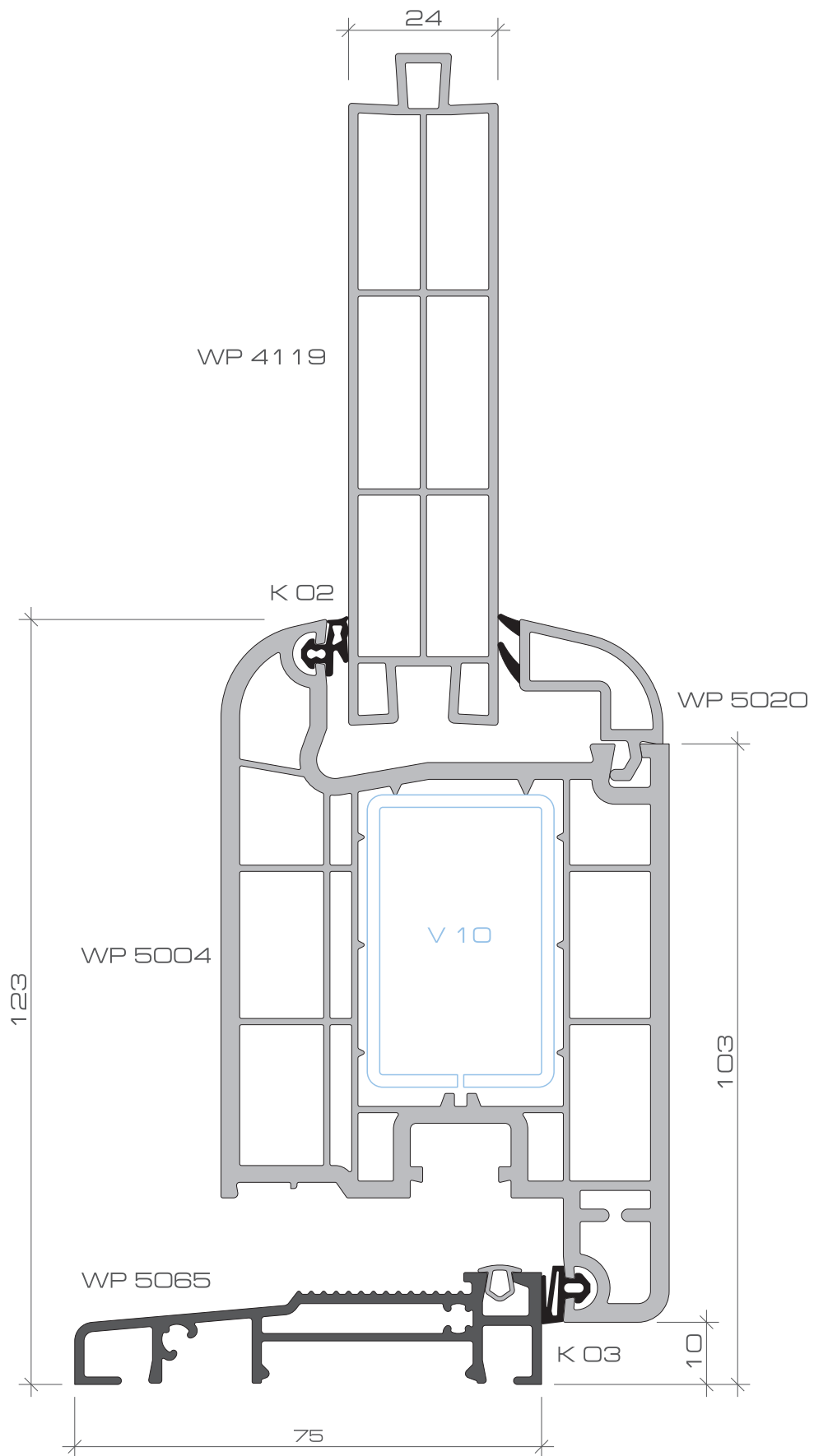


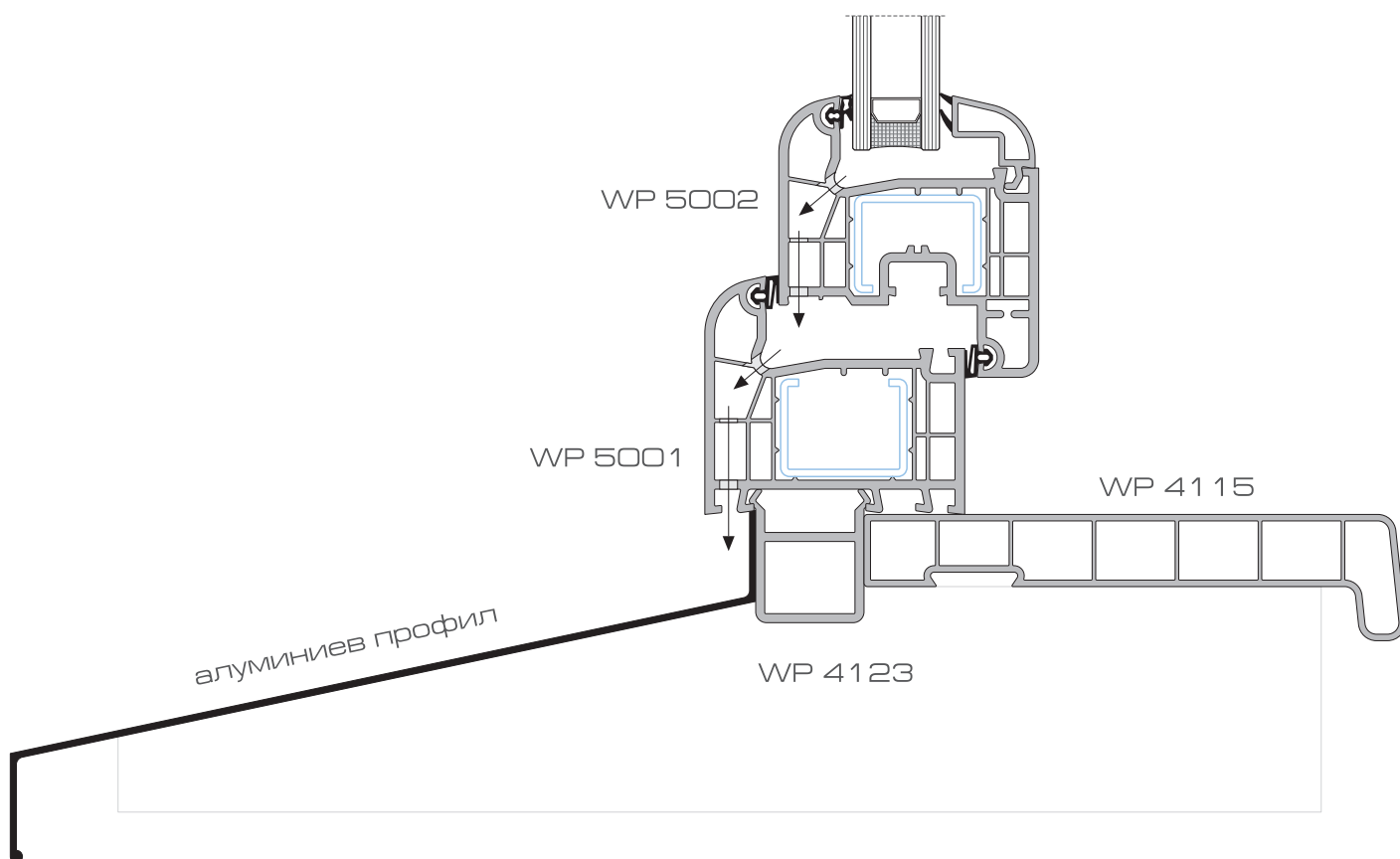
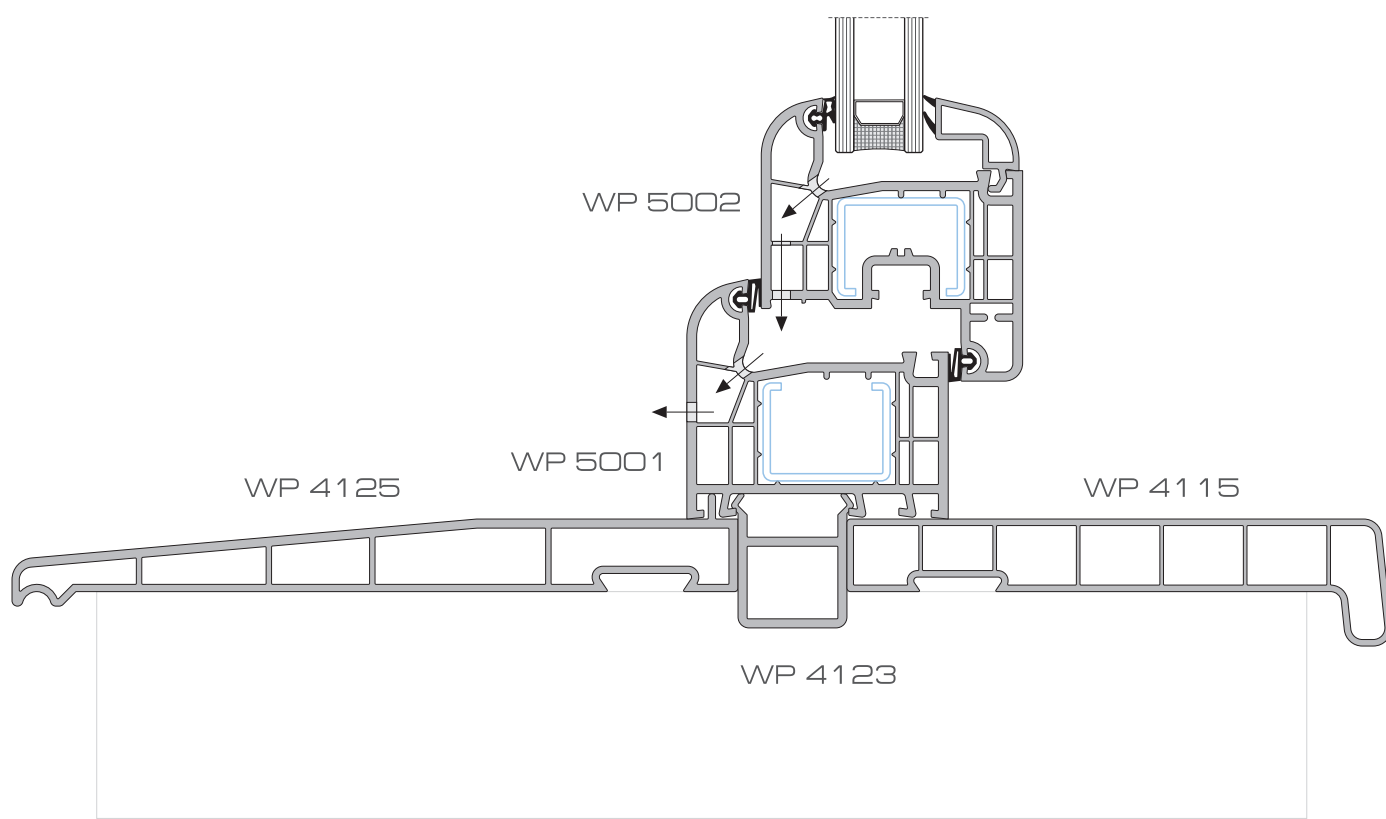






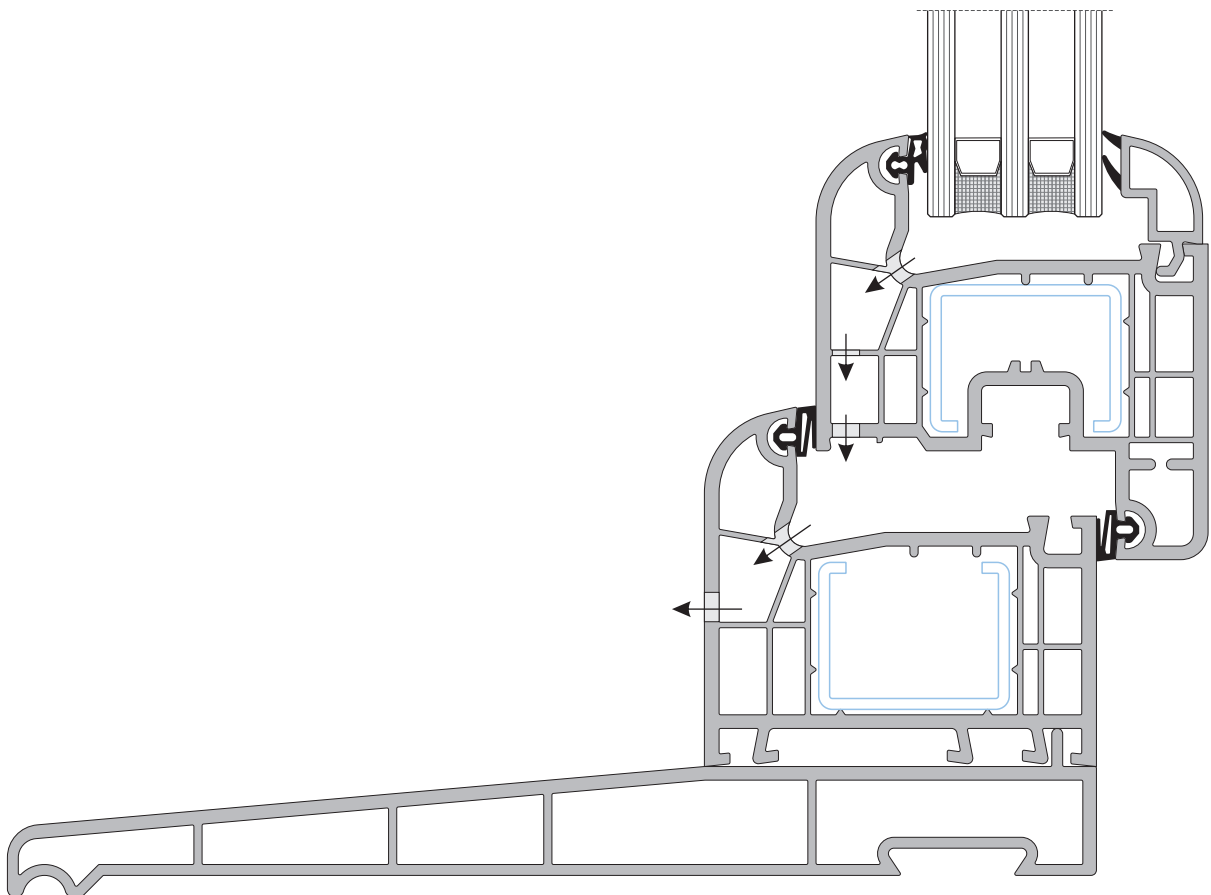
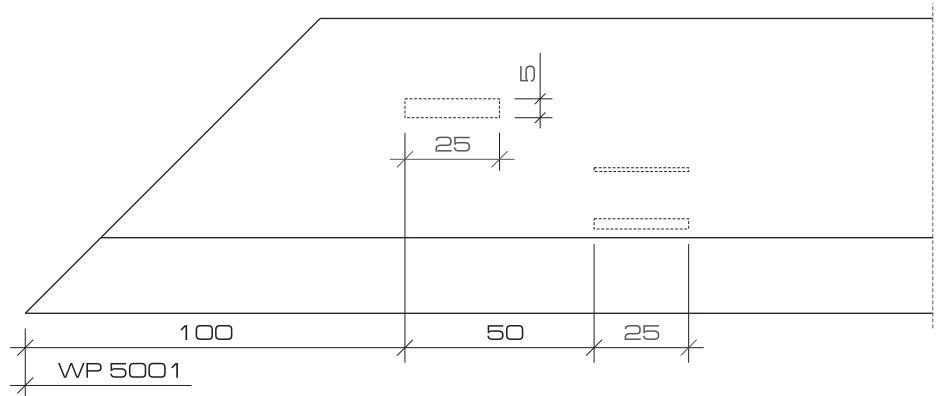
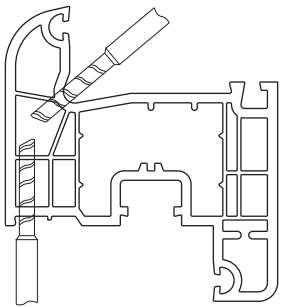
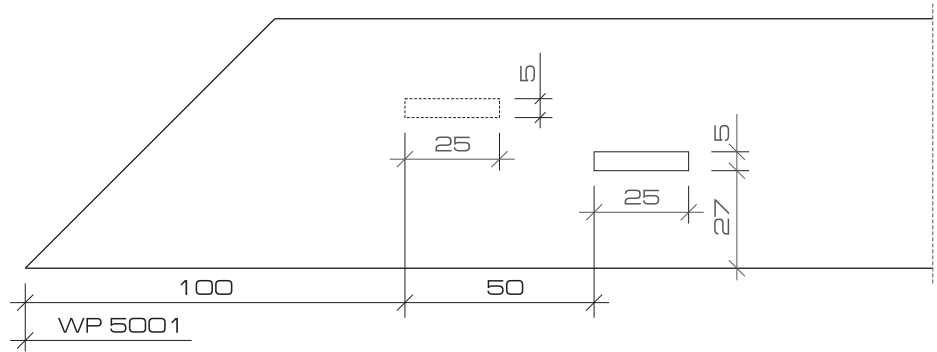
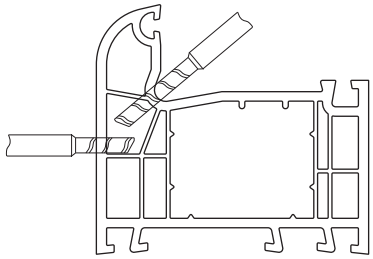






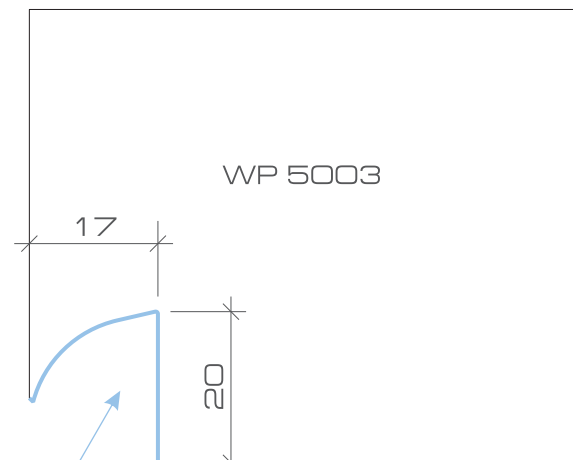
# СХЕМА ЗА ВОДООТЛИВАНЕ

Drainage diagram/ Abwasserungsschema / Schema pentru scurgere apa



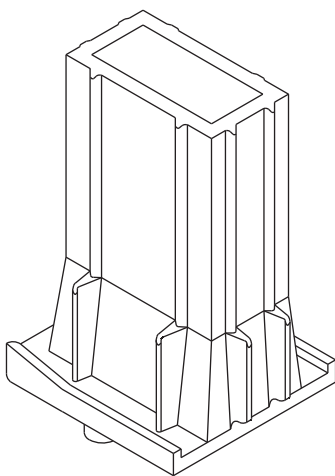
# СХЕМА ЗА ФРЕЗОВАНЕ НА ДЕЛИТЕЛ

Mullion milling / Kaempferfrasenschema / Schema pentru frezarea traversei

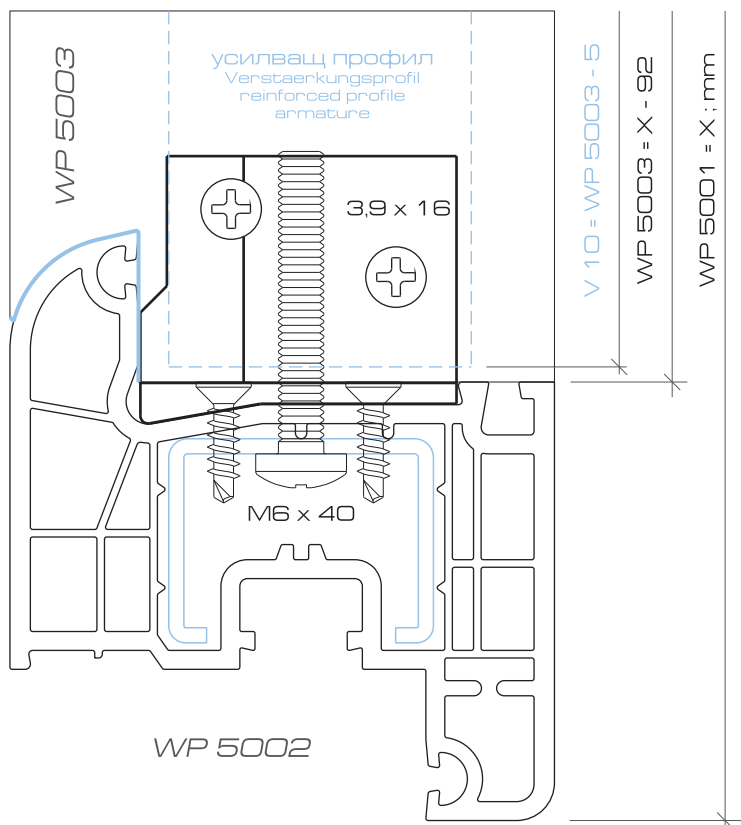
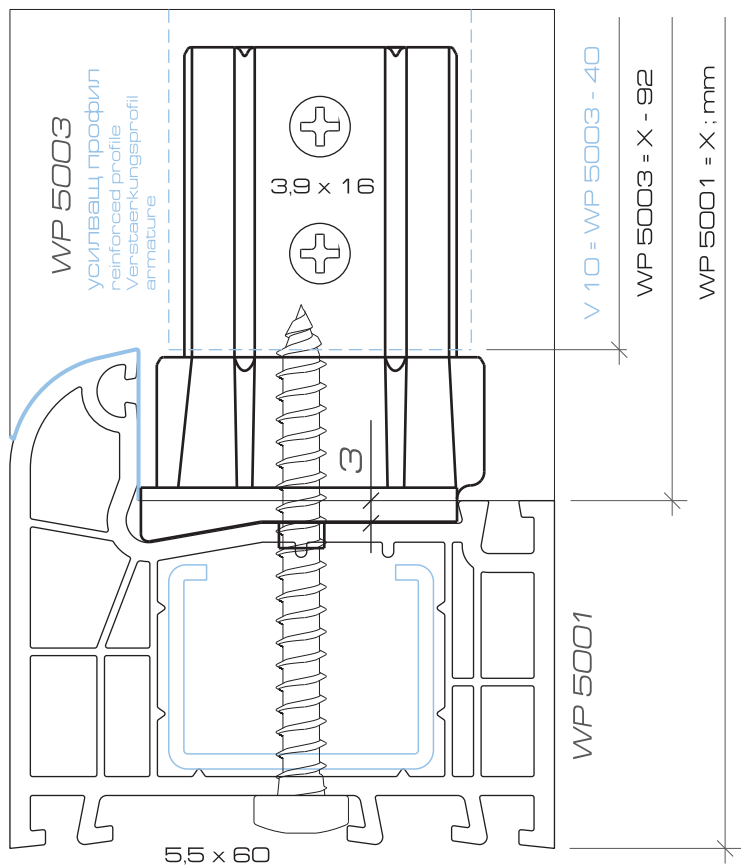
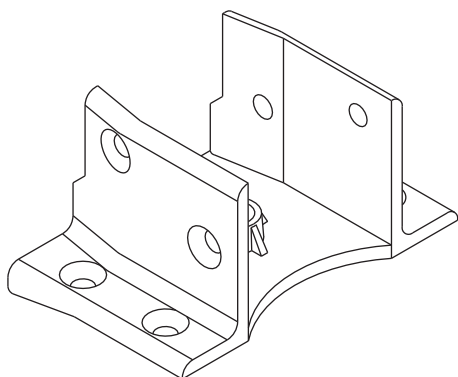


WP 5003  
17  
20  
КОНТУР НА ФРЕЗОВАНЕ  
line of milling  
Fräsekontur  
contur pentru frezare

ПЛАСТМАСОВА СГЛОБКА  
plastic joint  
Plastikzusammensetzung  
conector din plastic



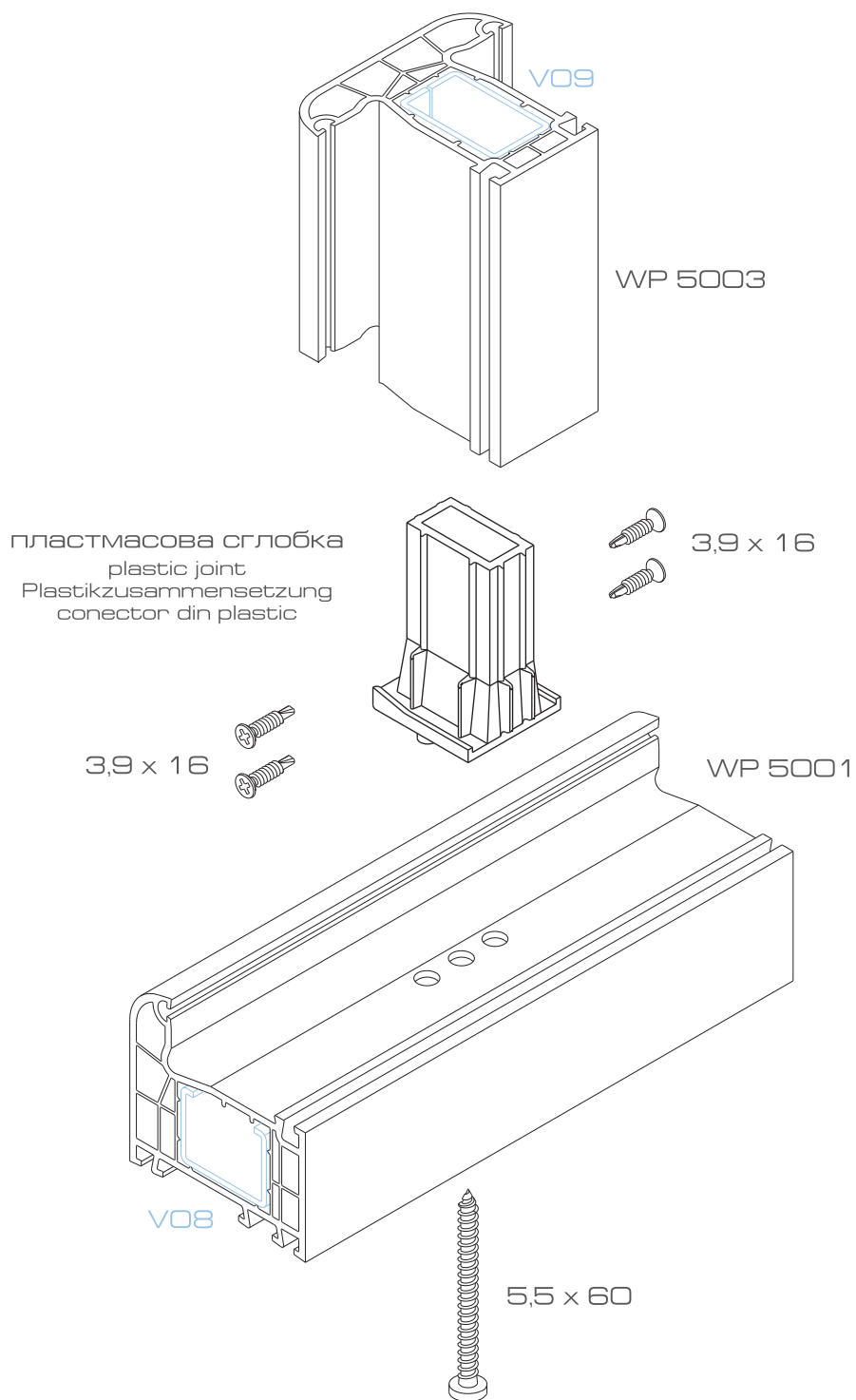
МЕТАЛНА СГЛОБКА  
metal joint  
Metallzusammensetzung  
conector metalic





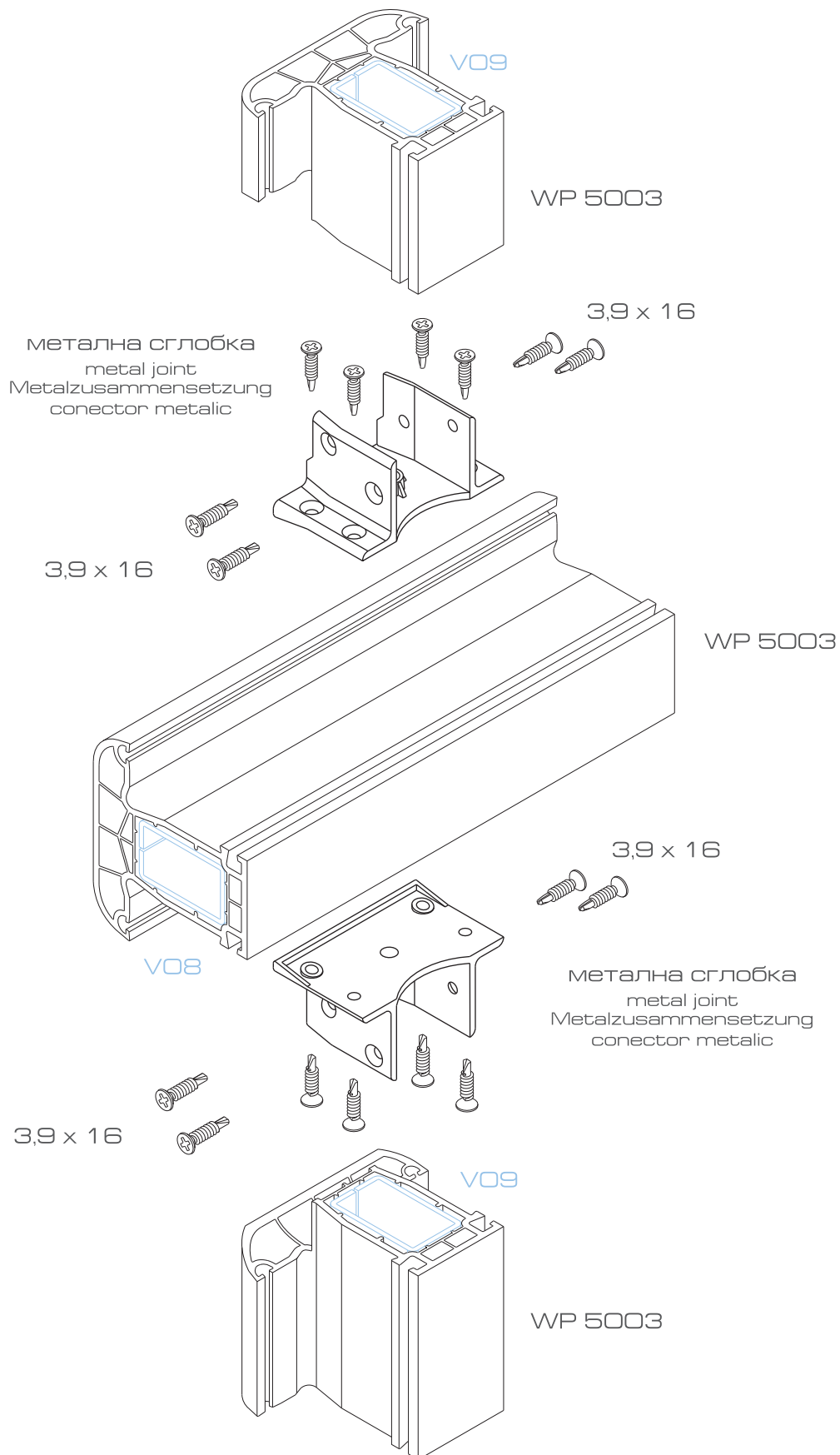
# СХЕМА ДЕЛИТЕЛ - КАСА

Schema Kaempfer - Rahmen/ Scheme mullion - frame/  
Schema de montaj traversa - toc



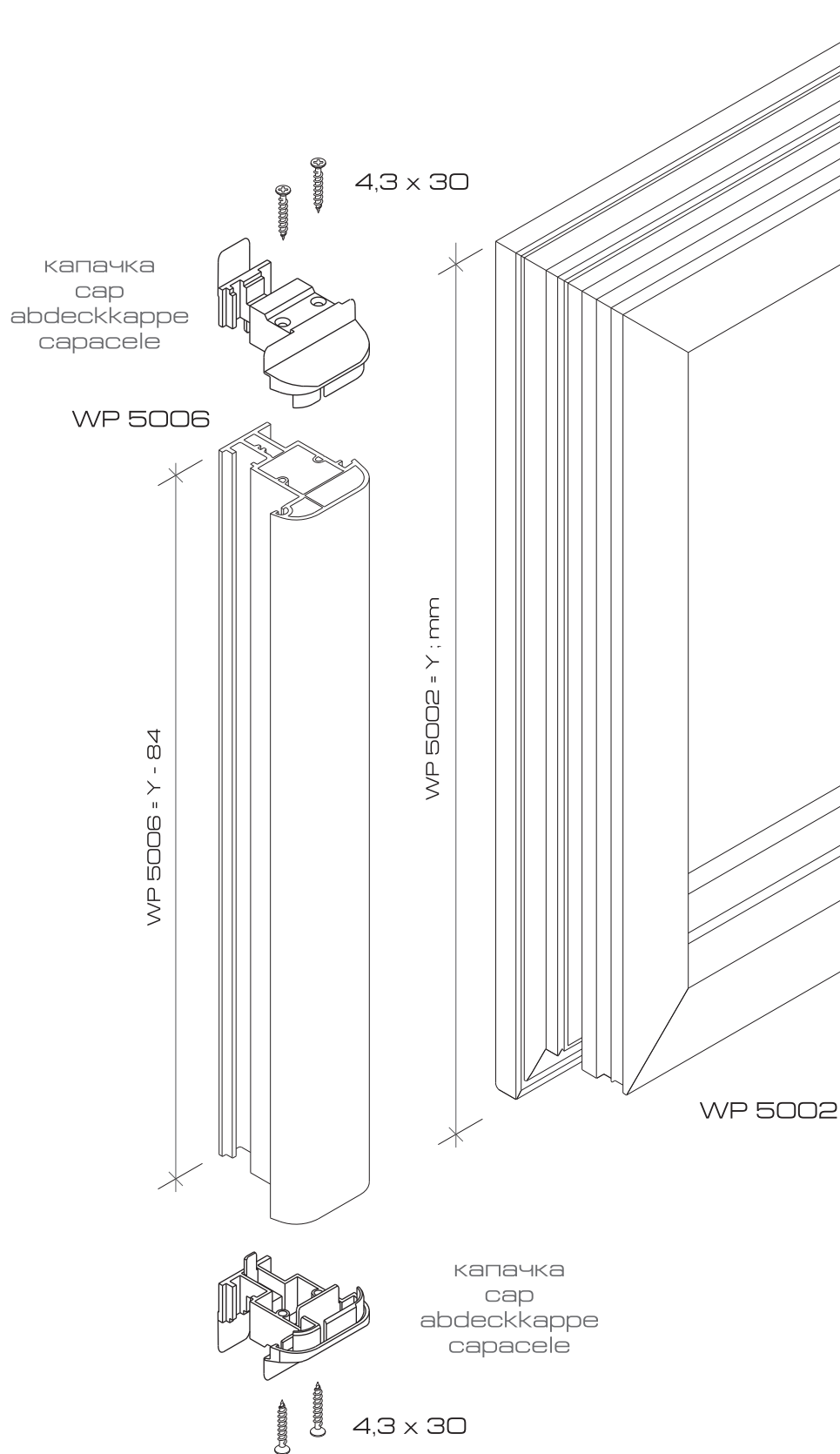
# СХЕМА ДЕЛИТЕЛ - ДЕЛИТЕЛ

Schema Kaempfer - Kaempfer / Scheme mullion - mullion  
Schema de montaj traversa - traversa




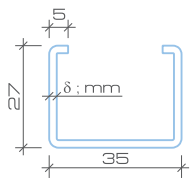
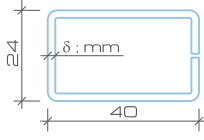
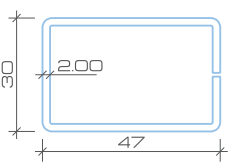
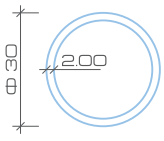
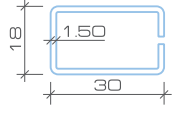
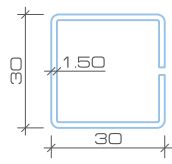
# СХЕМА ПОДВИЖЕН ДЕЛИТЕЛ

Schema Stulpkaempfer/ Scheme lap joint profile/ Schema de montaj inversor



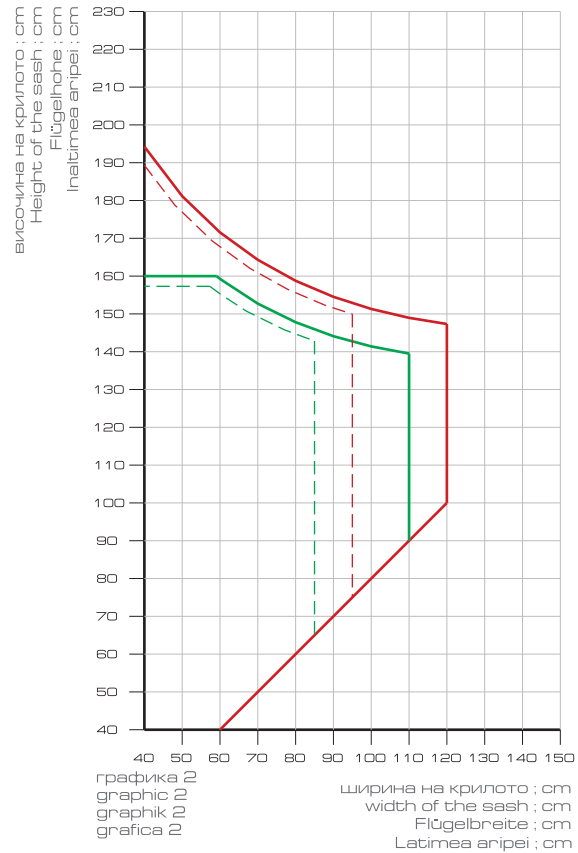
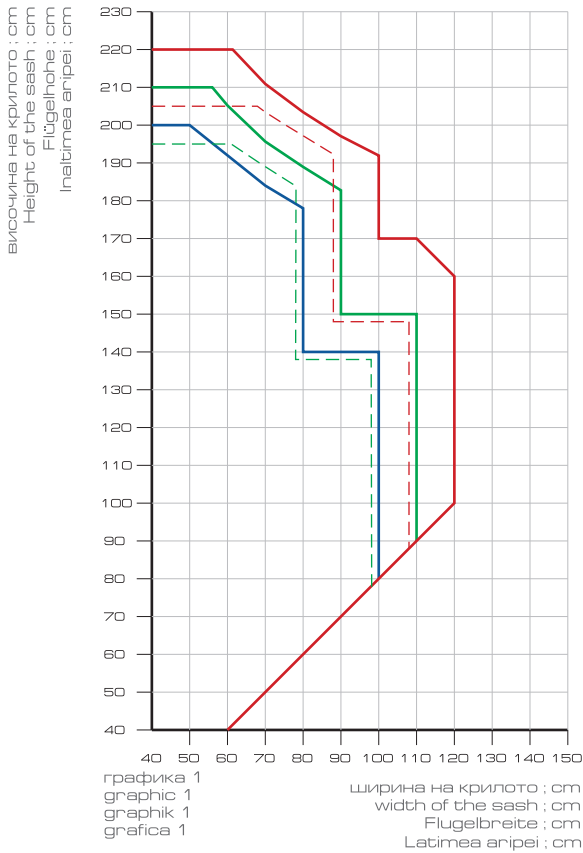
# УСИЛВАЩИ ПРОФИЛИ

Verstaerkungsprofile/ Reinforced profiles/ Armature

Код	PVC Профил PVC Profile PVC profil PVC profil	Усилващ профил Verstaerkungsprofile Reinforced profiles Armature	 Инерционен МОМЕНТ Inertia moment Trägheitsmoment momentului inert
V08	WP 5001 WP 5002 WP 5010		$\delta = 1,5$ $I_x = 1,22 \text{ cm}^4$ $I_y = 2,80 \text{ cm}^4$
			$\delta = 2$ $I_x = 1,51 \text{ cm}^4$ $I_y = 3,53 \text{ cm}^4$
V09	WP 5003		$\delta = 1,5$ $I_x = 1,71 \text{ cm}^4$ $I_y = 3,76 \text{ cm}^4$
			$\delta = 2$ $I_x = 2,14 \text{ cm}^4$ $I_y = 4,76 \text{ cm}^4$
V10	WP 5004 WP 5005 WP 5013		$I_x = 4,17 \text{ cm}^4$ $I_y = 8,35 \text{ cm}^4$
V11	WP 5011		$I_x = 1,73 \text{ cm}^4$ $I_y = 1,73 \text{ cm}^4$
V02	WP 5006		$I_x = 0,67 \text{ cm}^4$ $I_y = 1,46 \text{ cm}^4$
V06	WP 5007		$I_x = 2,19 \text{ cm}^4$ $I_y = 2,25 \text{ cm}^4$

# УСИЛВАЦИ ПРОФИЛИ

Графики за определяне максималните размери на крилата  
 Graphiken zur Bestimmung der maximalen Flügelgrösse  
 Grafice pentru definirea marimii maxime ale aripilor



- VO8 / 2,0 mm /  $I_x = 1,51 \text{ cm}^4$  ;  $I_y = 3,53 \text{ cm}^4$
- VO8 / 1,5 mm /  $I_x = 1,22 \text{ cm}^4$  ;  $I_y = 2,80 \text{ cm}^4$
- VO8 / 1,2 mm /  $I_x = 1,02 \text{ cm}^4$  ;  $I_y = 2,32 \text{ cm}^4$

Изчисляване на необходимият инерционен момент  
 Calculation of the moment of inertia  
 Trägheitsmomentenberechnungsformel  
 Calcularea momentului inert necesar

$$I_n = \frac{W \cdot L^4 \cdot B/2}{1920 \cdot E \cdot f} \left[ 25 - 40 \left( \frac{B}{L} \right)^2 + 16 \left( \frac{B}{L} \right)^4 \right] ; \text{cm}^4$$

W - ветрово натоварване/ wind pressure/ Winddruck/  
 intensitatea vantului ; N/mm<sup>2</sup>

графика 1/graphic1/ graphik1  
 височина на сградата/height of the building/Gebäudehöhe/Înălțimea clădirii  
 0 ÷ 8 m - W = 600 Pa W = 0,0006 N/mm<sup>2</sup>

графика 2/graphic2 /graphik2  
 височина на сградата/ height of the building / Gebäudehöhe/Înălțimea clădirii  
 8 ÷ 20 m - W = 960 Pa W = 0,0096 N/mm<sup>2</sup>

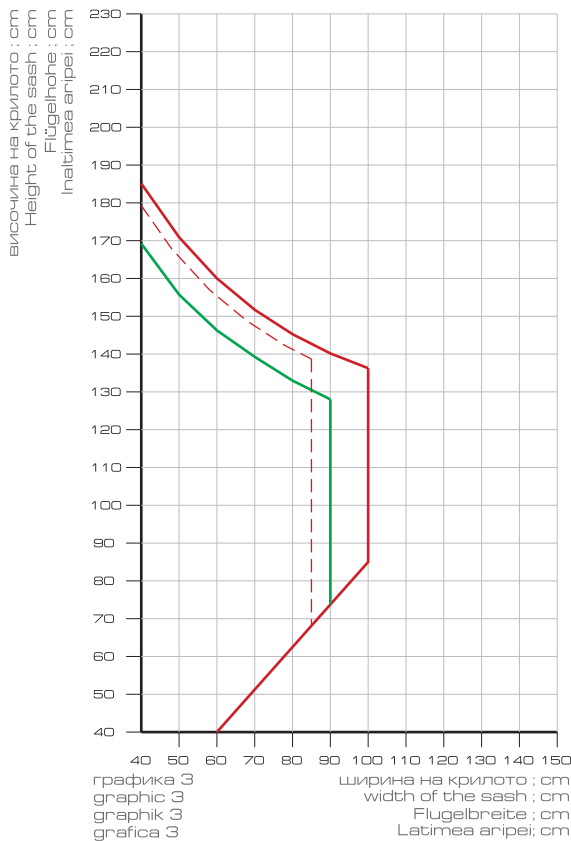
графика 3/graphic3/graphik3  
 височина на сградата/height of the building/ Gebäudehöhe/Înălțimea clădirii  
 20 ÷ 100 m - W = 1320 Pa W = 0,00132 N/mm<sup>2</sup>

L - височина/ height/ Höhe/înălțime ; cm

B - ширина/ width/ Breite/latime ; cm

E - модул на еластичност/ elasticity module/ Elastizitätsmodul/  
 modulul elasticității (  $E_{cr} = 210 \text{ 000 N / mm}^2$  )

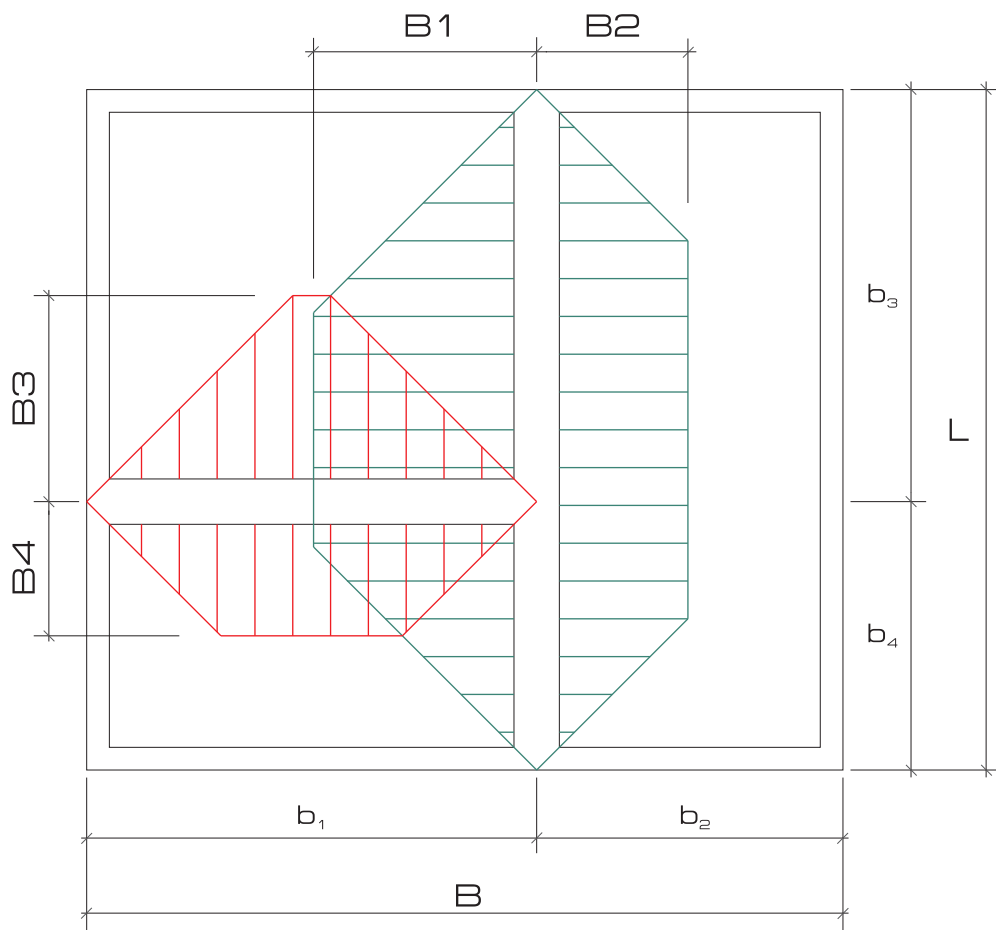
f - допустимо провисване/slack eligibility/zulässige Durchbiegung/  
 arcuinea admisa (  $f = L/300$  ;  $f \leq 0,8 \text{ cm}$  )



С прекъснатата линия са графициите за избор на усилен профил при ламиниран профил.  
 The graphics for choosing reinforced profiles for laminated profiles are with dotted line  
 Die gestrichene Linie kennzeichnet die benötigte Armierung bei laminiertem Profil.  
 Cu linia punctată sunt indicate graficele pentru alegerea armaturii pentru profilul laminat

# ОПРЕДЕЛЯНЕ НА НЕОБХОДИМИЯ ИНЕРЦИОНЕН МОМЕНТ

Calculation of the moment of inertia/ Traegheitsmomentberechnungsformel  
Calcularea momentului inert necesar



$$I_H = \frac{W \cdot L^4 \cdot B}{1920 \cdot E \cdot f} \left[ 25 - 40 \left( \frac{B}{L} \right)^2 + 16 \left( \frac{B}{L} \right)^4 \right] ; \text{cm}^4$$

W - ветрово натоварване/ wind pressure/Winddruck/intensitatea vantului ; N/mm<sup>2</sup>

височина на сградата/ height of the building/Gebaudehohe/ Inaltimea cladirii  
0 - 8 m - W = 600 Pa = 0,0006 N/mm<sup>2</sup>

височина на сградата/ height of the building/Gebaudehohe/ Inaltimea cladirii  
8 - 20 m - W = 960 Pa = 0,0096 N/mm<sup>2</sup>

височина на сградата/ height of the building/Gebaudehohe/ Inaltimea cladirii  
20 - 100 m - W = 1320 Pa = 0,00132 N/mm<sup>2</sup>

L - височина/ height/Hohe/ inaltime ; cm

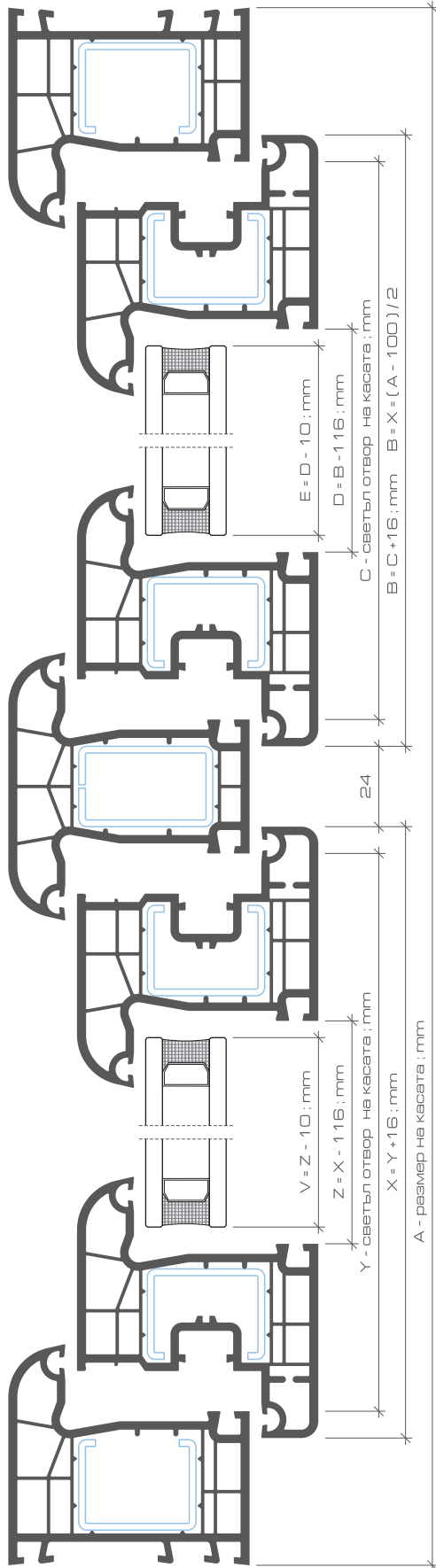
B - ширина/ width/Breite/ latime ; cm      $B = b_x / 2$  ;      $b_x$  - ширина на клетката ; cm

E - модул на еластичност/ elasticity module/ Elastizitatsmodul/ modulul elasticitatii  
( E <sub>стопанна</sub> - 210 000 N / mm<sup>2</sup> )

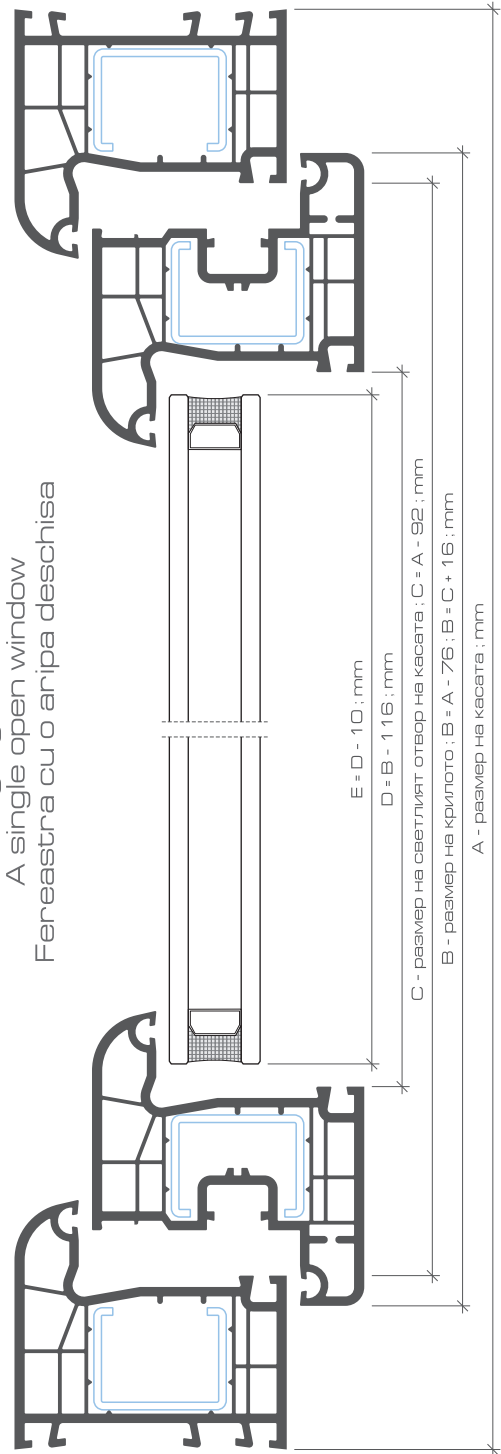
E - модул на еластичност/ elasticity module/ Elastizitatsmodul/ modulul elasticitatii  
( E <sub>алуминий</sub> - 70 000 N / mm<sup>2</sup> )

f - допустимо провисване/ slack eligibility/zulassige Durchbiegung/ arcuirea admisa  
(  $f = L/300$  ;  $f \leq 0,8$  cm )

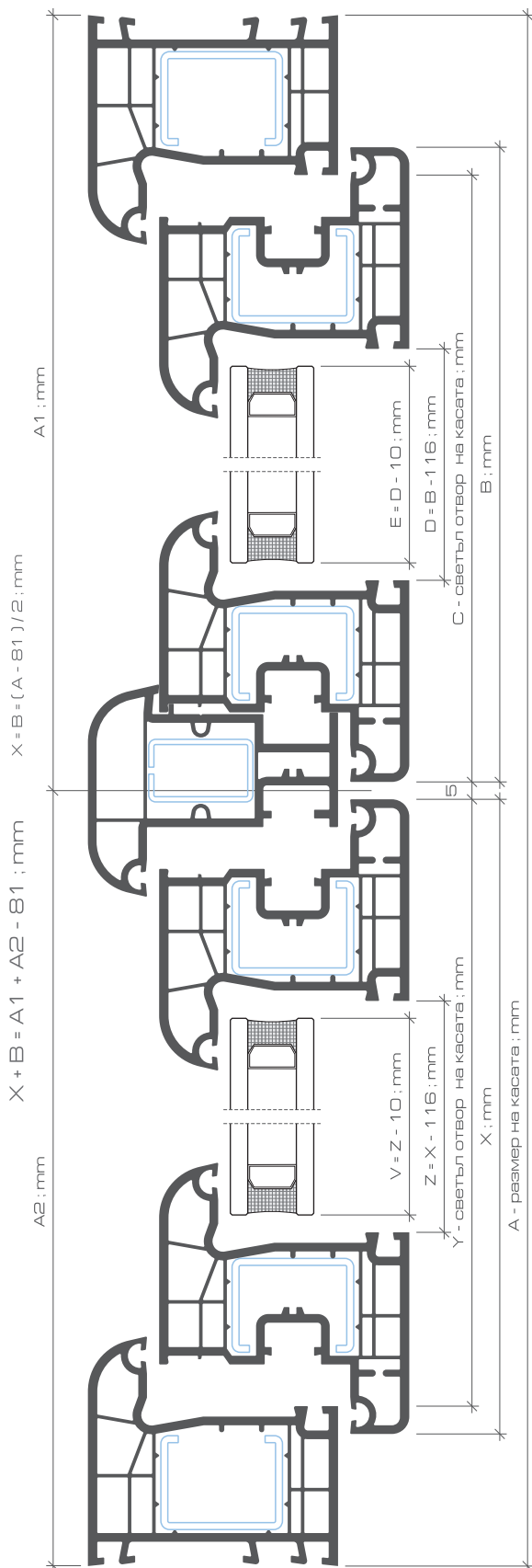
Прозорец с две крила с делител  
Zweiflügeliges Fenster mit Kaempfer  
Double open window with mullion  
Fereastra cu doua aripi cu traversa



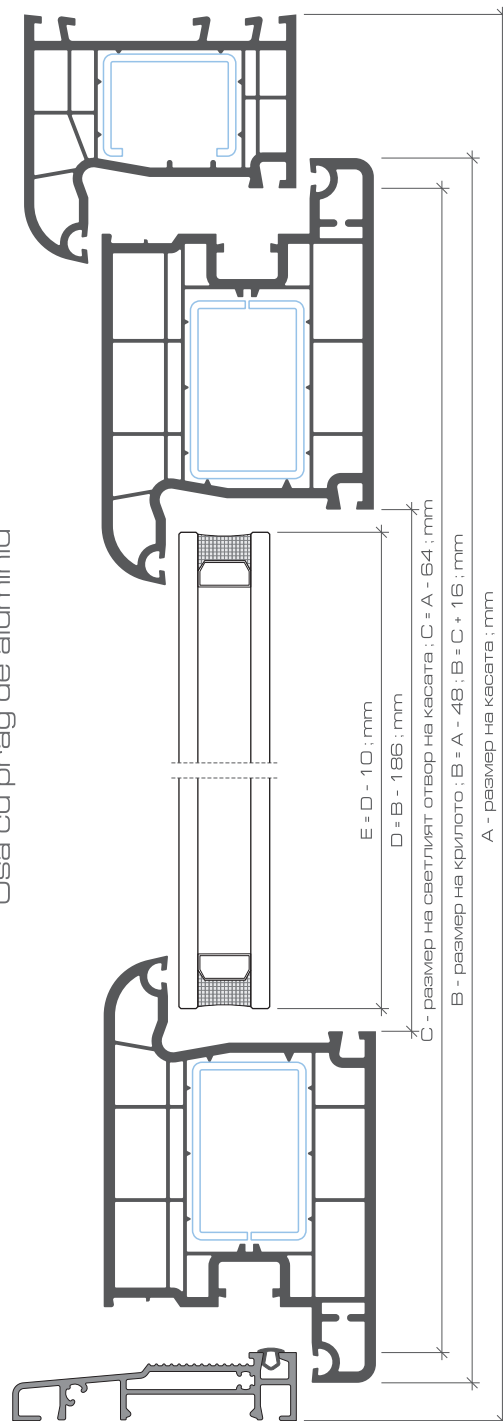
Прозорец с едно отваряемо крило  
Einflügeliges Fenster  
A single open window  
Fereastra cu o aripa deschisa



Прозорец с две крила с подвижен делител  
Zweiflügeliges Stulpfenster  
Double open window with a lap joint profile  
Fereastră cu două aripi cu inversor



Врата с алуминиев праг  
Tür mit aluminium tuerschwelle  
Door with aluminium door - sill  
Usa cu prag de aluminiu





# ПРОФИЛИ С ЛАМИНИРАНО ПОКРИТИЕ / АРКИ

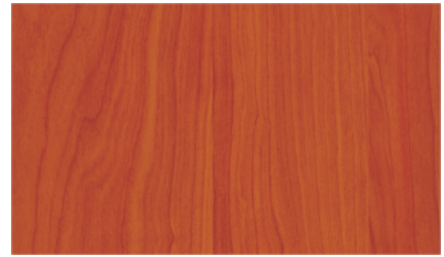
Bogen / Arches / Arcade Profile mit laminiertem Beschlag  
Profiles with polish cover  
Profile laminate



светъл орех  
nussbaum hell  
light walnut  
nuc deschis



тъмен орех  
nussbaum dunkel  
dark walnut  
nuc inchis



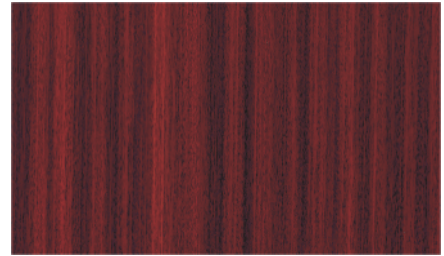
череша  
kirschbaum  
cherry  
cires



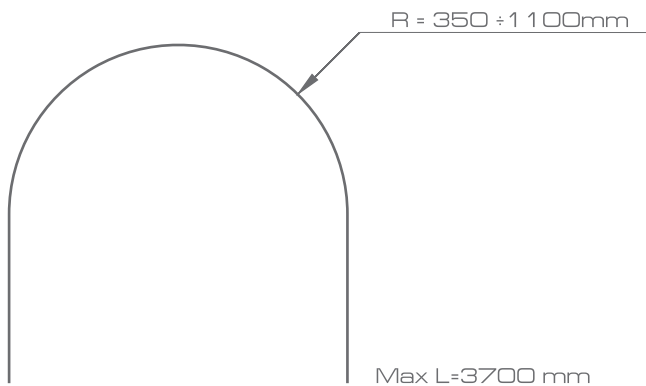
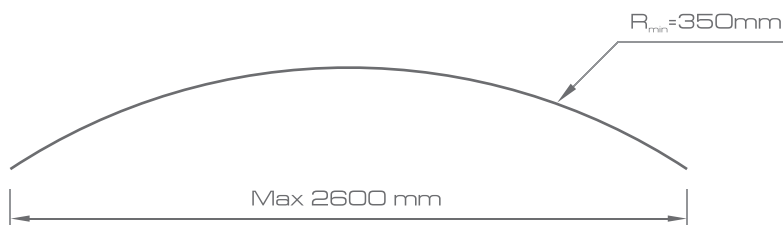
златен дъб  
goldeiche  
golden oak  
stejar auriu



тъмен дъб  
dunkeleiche  
dark oak  
stejar inchis



махагон  
mahagoni  
mahogany  
mahon



## Дъги:

Минимален радиус на дъгата: 350mm,  
максимален радиус: 2860mm.  
Максимална дължина на хордата: 2000mm.

## Bogen:

Min. Radius des Bogens: 350mm,  
max. Radius: 2860mm.  
Max. Länge der Sehne: 2000mm.

## Arcs:

Minimum radius of the arc: 350 mm,  
maximum radius: 2860mm.  
Maximum length of the chord: 2000mm.

## Arcade:

Raza minima a arcadei: 350mm,  
Raza maxima: 2860mm,  
Raza minima a arcadei: 2000mm

## Полукръжности:

Минимален радиус на полу-  
окръжността: 350mm,  
максимален радиус: 880mm.  
Максимална дължина на огъвката,  
заедно с двете вертикали: 3700mm.

## Halbkreise:

min. Radius des Halbkreises: 350mm,  
max. Radius: 880mm.  
Max. Länge der Biegung samt  
beiden Vertikalen: 3700 mm.

## Semicircles:

Minimum radius of the semicircle: 350mm,  
maximum radius: 880mm.  
Maximum length of the curve together  
with the two verticals: 3700mm.

## Semicircuri:

Raza minima a semicerculilor: 350mm,  
Raza maxima: 880mm,  
Lungimea maxima a arcadei impreuna  
cu cele doua verticale: 3700mm



A series of 25 horizontal dotted lines spanning the width of the page, intended for writing or drawing.



A series of horizontal dotted lines spanning the width of the page, intended for handwritten notes or text.

A series of horizontal dotted lines for writing, spanning most of the page width and arranged in a regular, repeating pattern.