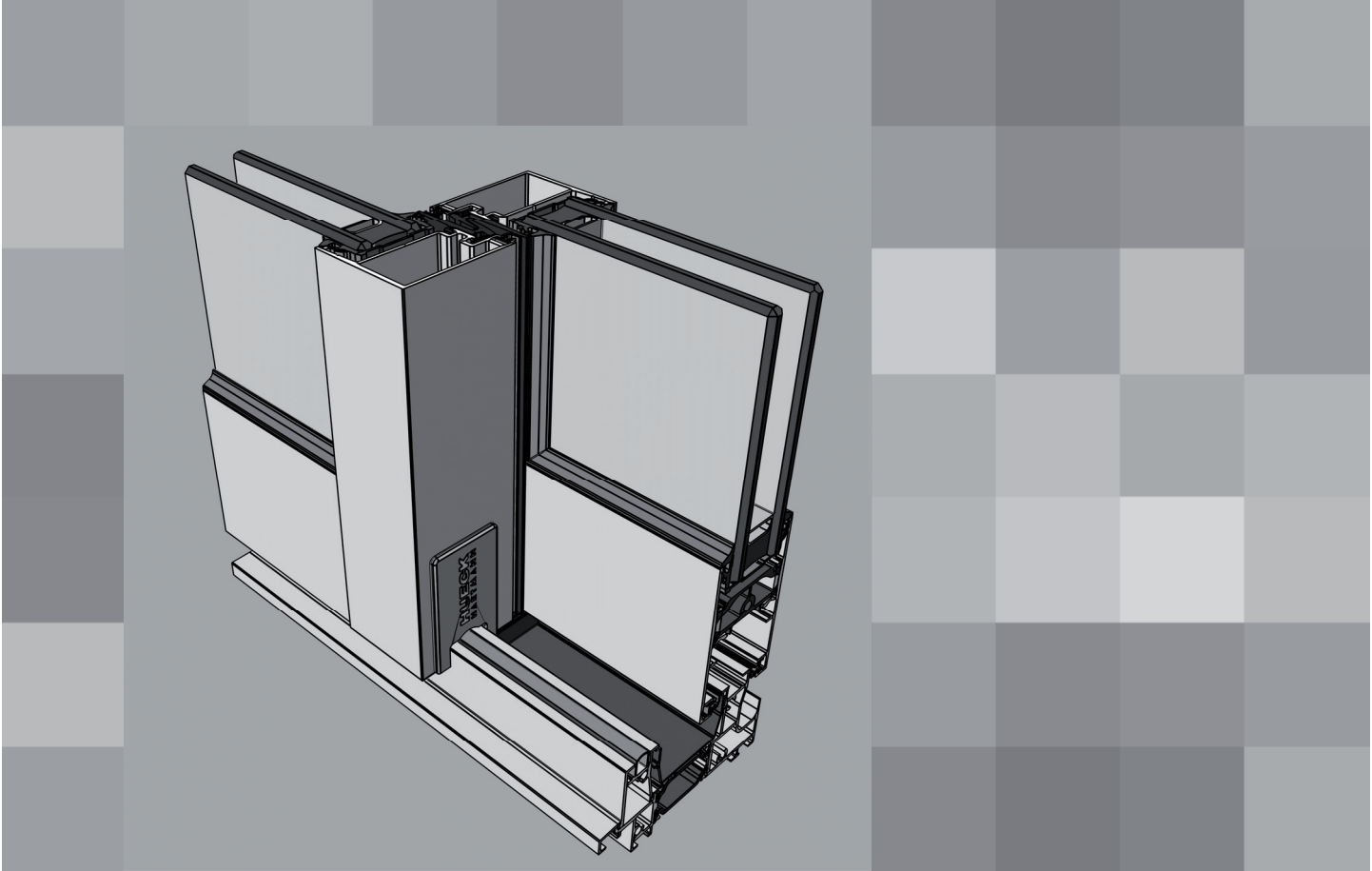


HUECK



Volato S

**Schiebekonstruktion aus
wärmegeämmten Profilen**

Sliding construction made of
thermally insulated profiles

Volato S - Schiebekonstruktion Volato S - Sliding construction

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Serieninformation*
Series information*

<p>Konstruktionsmerkmale Design features</p>	<ul style="list-style-type: none"> • Vielfältige Gestaltungsmöglichkeiten für Schiebefenster/-türen • Flügelanordnung: zwei- bis sechsflügelige Anlagen, ein bis sechs schiebbare Flügel, zwei oder dreispurige Anlagen, Schemata gemäß separater Aufstellung • Flügelgewicht max. 200 kg • Max. Flügelhöhe 2200 mm bei max. Flügelbreite 2000 mm • Blendrahmen: Dreikammerprofile • Verstärkte Labyrinthprofile • Werkseitiger Isolierverbund, nachträglich beschichtbar • Zahlreiche montagefreundliche Wandanschlussvarianten, Kopplung an Lambda-Systembaukasten sowie an Hueck/Hartmann-Fassadenserien mit entsprechenden Adapterprofilen • Abgestimmte Beschläge, Zubehörartikel, Zusatzprofile, Hilfsmittel und Werkzeuge 	<ul style="list-style-type: none"> • Variety of design possibilities for sliding windows and sliding doors • Arrangement of the sashes: from double-sash up to sixfold-sash, two track or three track constructions, schematic in accordance to the separate chart • Sash weight max. 200kg • Sash height max. 2200mm by max. sash width 2000mm • Fixed frames: Three-chamber profiles • Reinforced labyrinth-profiles • Factory-mounted insulating composite, can be coated at a later time • Numerous easy to mount wall connection variants, coupling to the Lambda modular system and to the Hueck/Hartmann façade series with corresponding adaptor-profiles • Complementary Fittings, Accessories, supplementary profiles, tools and auxiliary accessories
<p>Oberflächen Surfaces</p>	<ul style="list-style-type: none"> • Anodisation nach DIN 17611 • Kunststoffbeschichtung (Nasslack, Pulverlack) nach DIN 50939 	<ul style="list-style-type: none"> • Anodisation in accordance with DIN 17611 • Plastic coating (wet paint, powder coating lacquer) in accordance with DIN 50939
<p>Verbindungstechnik Connecting technology</p>	<ul style="list-style-type: none"> • Leichte Verarbeitung durch gerade Stöße in Blend- und Flügelrahmen • Geschraubte Profilverbindung mit EPDM-Formteilen 	<ul style="list-style-type: none"> • Simple processing because of linear joints in fixed and sash frames • Drilled profile joints with EPDM shaped-pieces
<p>Ansichtsbreite Elevation width</p>	<ul style="list-style-type: none"> • Blendrahmen: seitlich 28,5 mm, oben/unten 45 mm • Flügelrahmen: seitlich 51 mm, unten/oben 67 mm • Labyrinth: 40 mm • Flügelstoß Schema B, C, E und F: 134 mm 	<ul style="list-style-type: none"> • Fixed frame: lateral 28,5 mm, at the top/lower 45 mm • sash frame: lateral 51 mm, at the top/lower 67 mm • Labyrinth: 40 mm • Sash joint scheme B, C, E and F: 134 mm
<p>Profilbautiefe Profile depth</p>	<ul style="list-style-type: none"> • Blendrahmen: 92 mm • Flügelrahmen: horizontal 42 mm, vertikal 39 mm 	<ul style="list-style-type: none"> • Fixed frame: 92 mm • Sash frame: horizontal 42 mm, vertikal 39 mm
<p>Isolierzone Insulation zone</p>	<ul style="list-style-type: none"> • Werkseitig eingebrachte, glasfaserverstärkte Polyamidstege • Als Werksverbund, nachträglich beschichtbar 	<ul style="list-style-type: none"> • Factory-mounted, glass fibre-reinforced polyamide strips • Assembled in works, can be coated at a later time
<p>Verglasung Glazing</p>	<ul style="list-style-type: none"> • Glasstärken von 24 mm bis 30 mm 	<ul style="list-style-type: none"> • Glass thickness between 24 mm and 30 mm
<p>Dichtungen Gaskets</p>	<ul style="list-style-type: none"> • Kunststoff-Gleitdichtung • EPDM-Dichtung mit Mittelsteg im Labyrinthbereich • Verglasungsdichtung: U-förmige Dichtprofile, wahlweise umlaufend einziehbar oder auf Gehrung gestoßen 	<ul style="list-style-type: none"> • Plastic sliding gasket • EPDM gasket with middle bridge in the labyrinth-area • Glazing gaskets: U-shaped gasket profiles, optionally can be drawn in continuously or drawn in mitre joint

003000300

Serieninformation* Series information*

Laufwagen Tandem roller	<ul style="list-style-type: none"> • Höhenverstellbar oder feststehend • Kombination aus einer Einzel- und einer Tandemrolle für 150 kg Flügelgewicht bzw. zwei Tandemrollen für 200 kg Flügelgewicht 	<ul style="list-style-type: none"> • Adjustable in height or fixed • Combination of one single-roll and one tandem-roll for a sash weight of 150kg respectively two tandem-rolls for a sash weight of 200kg
Verarbeitung Processing	<ul style="list-style-type: none"> • Einsatzstanzen und Bohrlehren erhältlich 	<ul style="list-style-type: none"> • Punching tools and drilling jigs are available

Bauphysik* Building physics*

Wärmeschutz Thermal insulation	Volato S	EN ISO 10077-1	U_w 1.8 W/m²K - bei zweiflügeliger Ausführung mit Isolierglas U_g 1.1 W/m²K U_w 1.8 W/m²K - at double-leaf version with insulating glass U_g 1.1 W/m²K
Schlagregendichtheit Water tightness	EN 12208		Klasse 7A Class 7A
Luftdurchlässigkeit Air permability	EN 12207		Klasse 4 Class 4
Widerstandsfähigkeit gegen Windlast Resistance to wind load	EN 12210		Klasse B1 Class B1

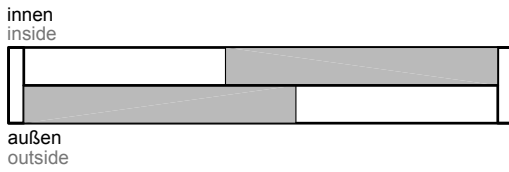
* Bei den angegebenen Normen gilt der zur Drucklegung aktuelle Stand.

Gültige Prüfzeugnisse sowie technische Informationen finden Sie im Download-Bereich unter www.eduard-hueck.de

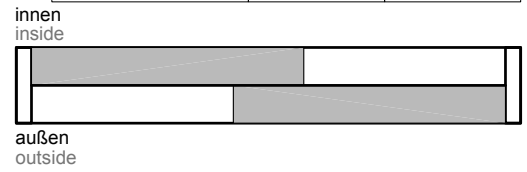
* All standards referred to herein, were valid at time of printing.

Valid test reports as well as technical information can be found in the download area of the site www.hueck-hartmann.com

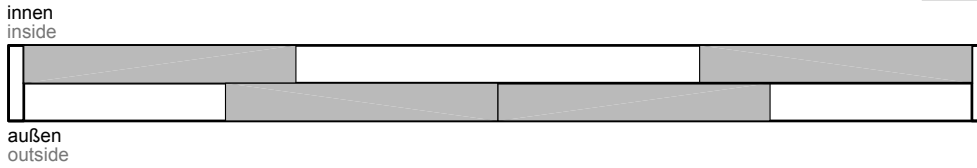
Schema A - zweispurige Ausführung Scheme A - two track construction



	Farbe: weiß Colour: white	Farbe: schwarz Colour: black
Art. Nr. Zubehörsatz Art. no. accessory set	Z 996106	Z 996107

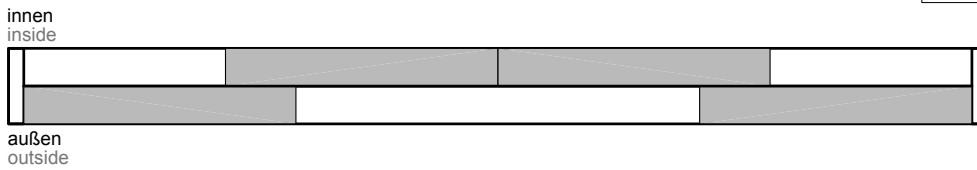


Schema B - zweispurige Ausführung Scheme B - two track construction



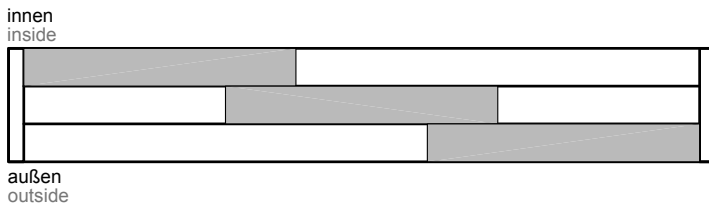
	Farbe: weiß Colour: white	Farbe: schwarz Colour: black
Art. Nr. Zubehörsatz Art. no. accessory set	Z 996108	Z 996109

Schema C - zweispurige Ausführung Scheme C - two track construction



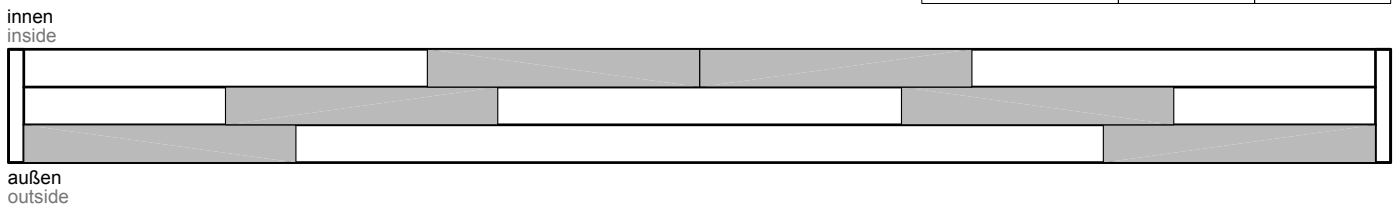
	Farbe: weiß Colour: white	Farbe: schwarz Colour: black
Art. Nr. Zubehörsatz Art. no. accessory set	Z 996110	Z 996111

Schema D - dreispurige Ausführung Scheme D - three track construction



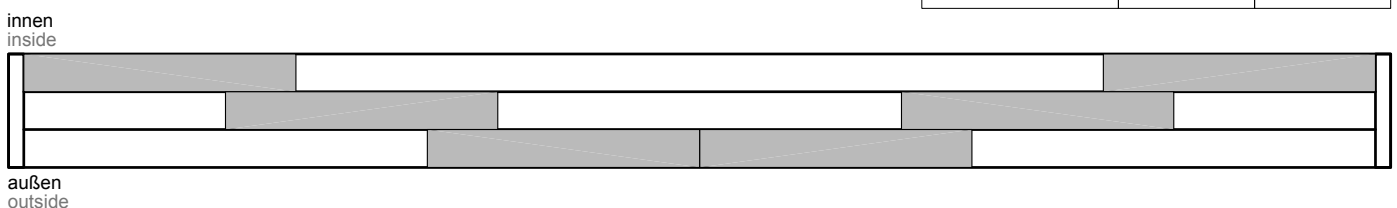
	Farbe: weiß Colour: white	Farbe: schwarz Colour: black
Art. Nr. Zubehörsatz Art. no. accessory set	Z 996112	Z 996113

Schema E - dreispurige Ausführung Scheme E - three track construction



	Farbe: weiß Colour: white	Farbe: schwarz Colour: black
Art. Nr. Zubehörsatz Art. no. accessory set	Z 996114	Z 996115

Schema F - dreispurige Ausführung Scheme F - three track construction



	Farbe: weiß Colour: white	Farbe: schwarz Colour: black
Art. Nr. Zubehörsatz Art. no. accessory set	Z 996116	Z 996117

005000500

Windlast 0,5 kN/m²
Wind load 0,5 kN/m²

Flügelhöhe Sash height	2050	X							
	1880		X						
	1785			X					
	1717				X				
	1685					X			
	1670						X	X	X
		600	800	1000	1200	1400	1600	1800	2000
		Flügelbreite Sash width							

Profilkombination 2x **P 812600**
Combination of profiles 2x **P 812600**
Ixid = 14 cm⁴

Flügelhöhe Sash height									
	2305				X				
	2250					X			
	2215						X		
	2195							X	X
		600	800	1000	1200	1400	1600	1800	2000
		Flügelbreite Sash width							

Profilkombination **P 812600 + P 812610**
Combination of profiles **P 812600 + P 812610**
Ixid = 41,6 cm⁴

Windlast 0,8 kN/m²
Wind load 0,8 kN/m²

Flügelhöhe Sash height	1760	X							
	1625		X						
	1545			X					
	1505				X				
	1485					X	X	X	X
		600	800	1000	1200	1400	1600	1800	2000
		Flügelbreite Sash width							

Profilkombination 2x **P 812600**
Combination of profiles 2x **P 812600**
Ixid = 14 cm⁴

Flügelhöhe Sash height	2160		X						
	2065			X					
	2010				X				
	1970					X			
	1951						X		
	1948							X	X
		600	800	1000	1200	1400	1600	1800	2000
		Flügelbreite Sash width							

Profilkombination **P 812600 + P 812610**
Combination of profiles **P 812600 + P 812610**
Ixid = 41,6 cm⁴

Windlast 1,1 kN/m²
Wind load 1,1 kN/m²

Flügelhöhe Sash height	1585	X							
	1470		X						
	1410			X					
	1380				X				
	1370					X	X	X	X
		600	800	1000	1200	1400	1600	1800	2000
		Flügelbreite Sash width							

2x **P 812600**
Ixid = 14 cm⁴

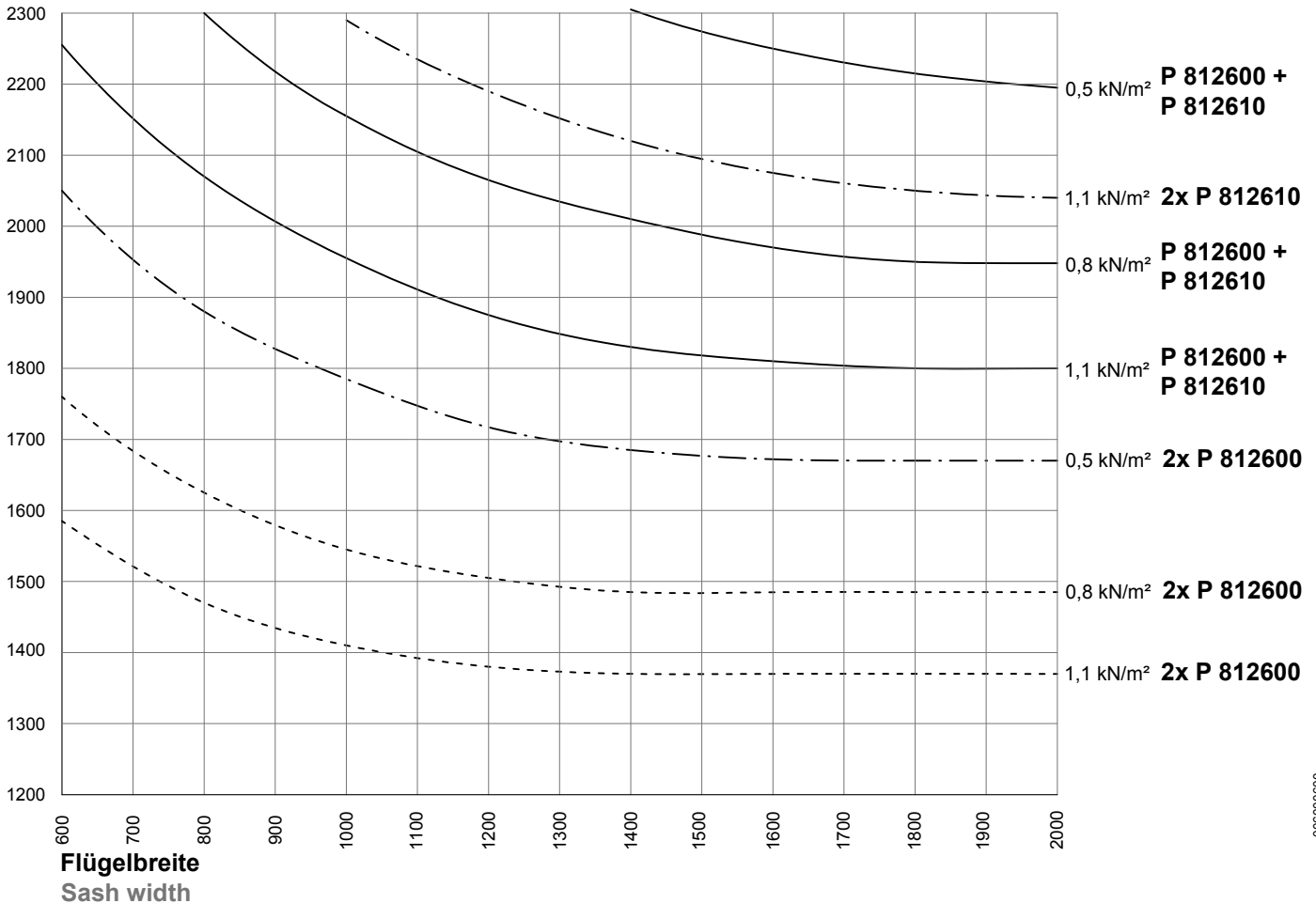
Flügelhöhe Sash height	2255	X							
	2070		X						
	1955			X					
	1875				X				
	1830					X			
	1810						X		
	1800							X	X
		600	800	1000	1200	1400	1600	1800	2000
		Flügelbreite Sash width							

P 812600 + P 812610
Ixid = 41,6 cm⁴

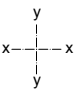
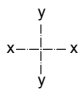
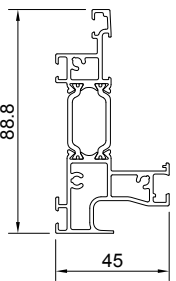
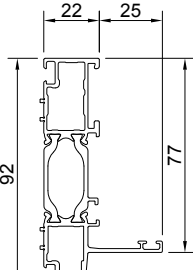
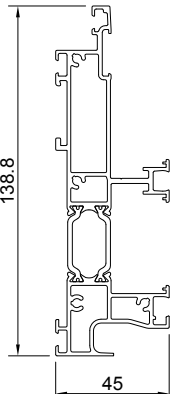
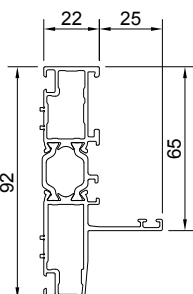
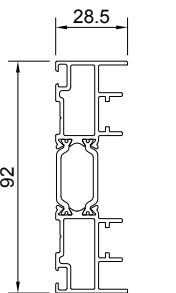
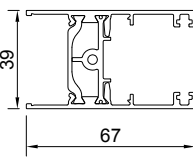
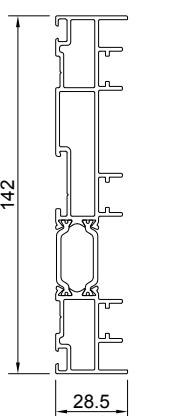
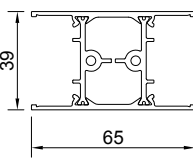
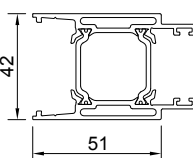
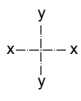
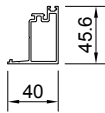
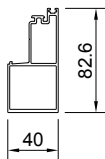
Flügelhöhe Sash height	2290		X						
	2190			X					
	2120				X				
	2075					X			
	2050						X		
	2040							X	X
		600	800	1000	1200	1400	1600	1800	2000
		Flügelbreite Sash width							

2x **P 812610**
Ixid = 69,2 cm⁴

Flügelhöhe
Sash height

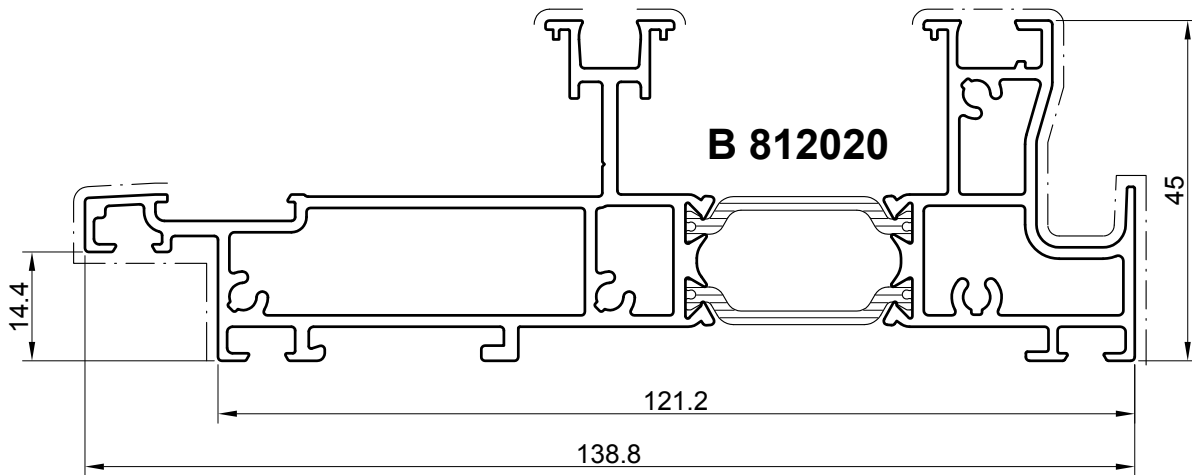
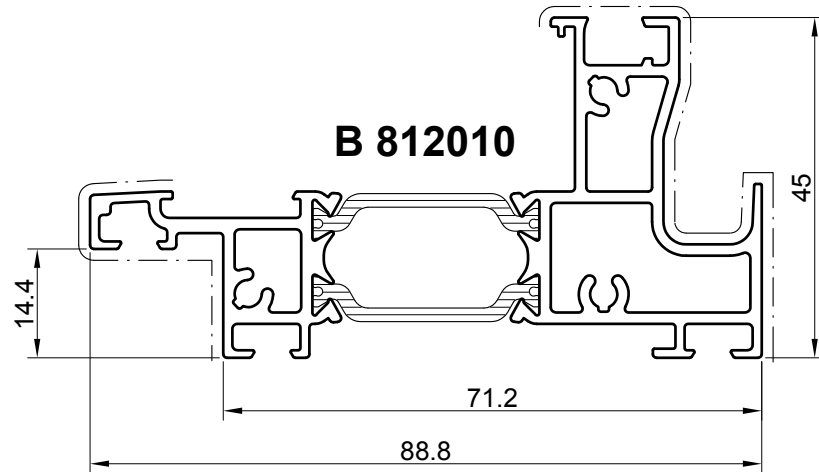






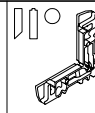



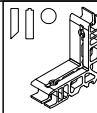




Min. Flügelbreite 400 mm Verhältnis B/H des Flügels sollte 1/2.5 nicht unterschreiten
Min. sash width 400mm Aspect ratio w/h of the sash should not fall short of 1/2.5

	Profil-Nr. Profile number	I_{xid} (cm ⁴)					Abw. außen External perimeter	Seite Page		Profil-Nr. Profile number	I_{xid} (cm ⁴)					Abw. außen External perimeter	Seite Page					
		L (cm)	Stützweite L (cm) nach IBT-Richtlinie Distance between supports L (cm) in compliance with the guideline issued by the Institute of Building Technology								L (cm)	ab from	ab from	ab from	ab from			L (cm)	ab from	ab from	ab from	ab from
			< 200	≥200	>250	> 300																
	B 812010	23	26	28	29	31	357	8		B 812070	22	27	31	33	36	345	10					
	B 812020	82	94	103	108	114	576	8		B 812080	23	27	30	31	33	369	10					
	B 812040	31	35	38	39	41	357	9		B 812200	-	-	-	-	-	366	11					
	B 812050	99	112	121	126	132	518	9		B 812300	5	6	7	8	8	238	11					
										B 812210	5	6	7	7	8	299	11					
I_{xid} = ideelles Trägheitsmoment I_{xid} = effective moment of inertia																						
										Profil-Nr. Profile number	Horizontalachse Horizontal axis J_x [cm ⁴]	Horizontalachse Horizontal axis W_x [cm ³]	Verticalachse Vertical axis J_y [cm ⁴]	Verticalachse Vertical axis W_y [cm ³]	Abw. gesamt Total Perimeter mm	Seite Page						
										B 812600	7	2.7	3.1	1.2	198	11						
										B 812610	34.6	7.6	8.8	3.7	272	11						

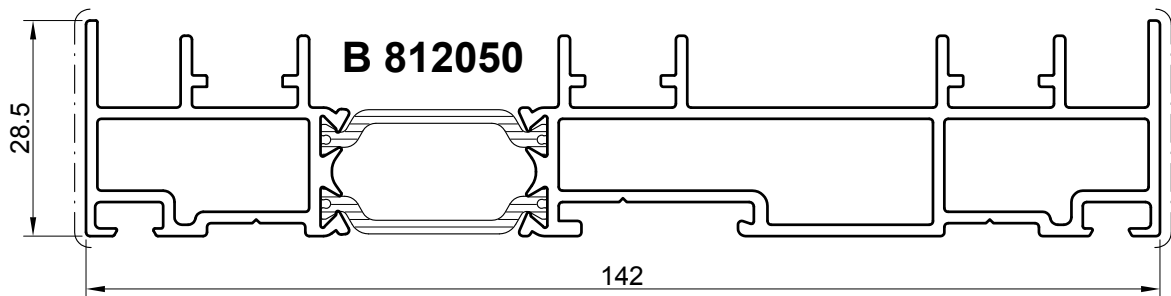
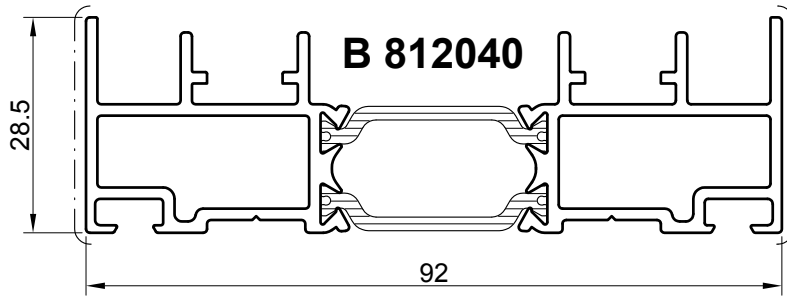
007000100

I_{xid} = ideelles Trägheitsmoment
 I_{xid} = effective moment of inertia





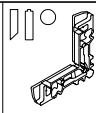



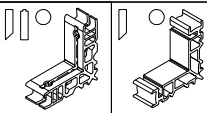





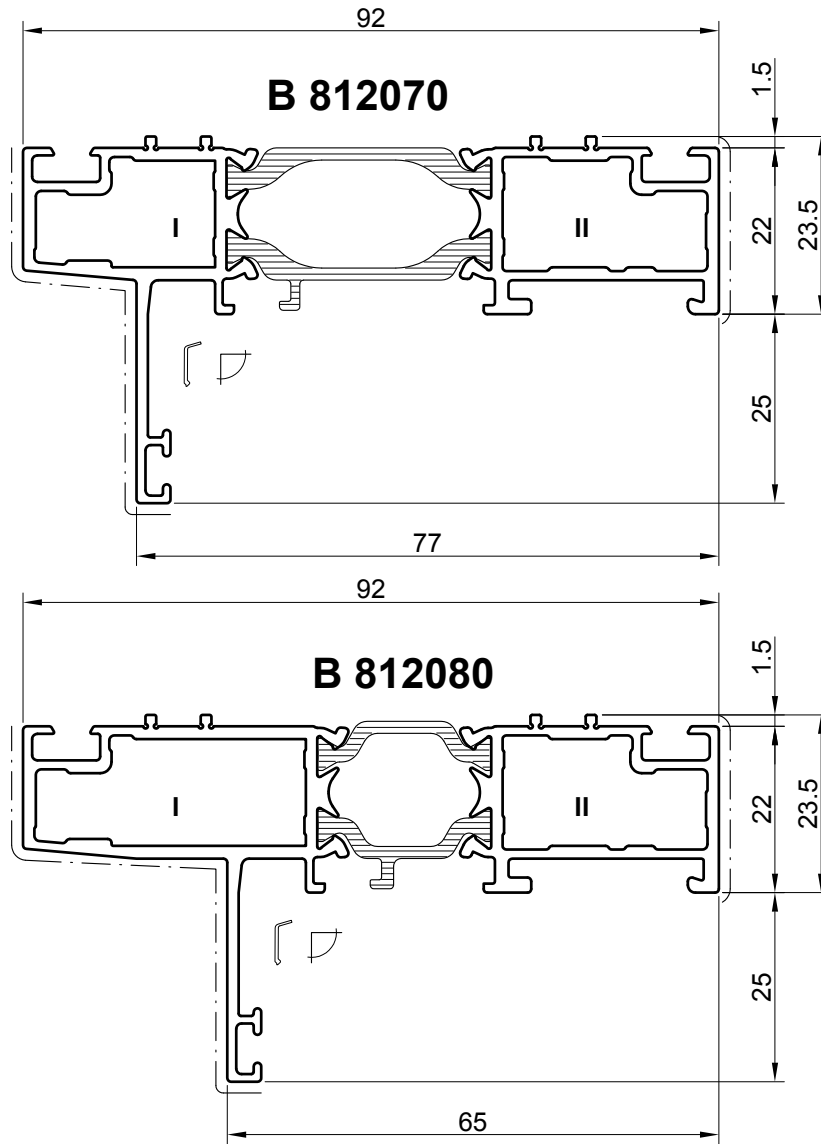
	Außenkammer External profile chamber					Innenkammer Internal profile chamber					
	I					II					
<ul style="list-style-type: none">  verpressbar crimpable  verstiftbar nailable  nachträglich verklebbar retro gluing after assembly 											
B 812010	-	-	-	-	-	-	-	-	-	-	Z 996118
B 812020	-	-	-	-	-	-	-	-	-	-	Z 996119

006000200



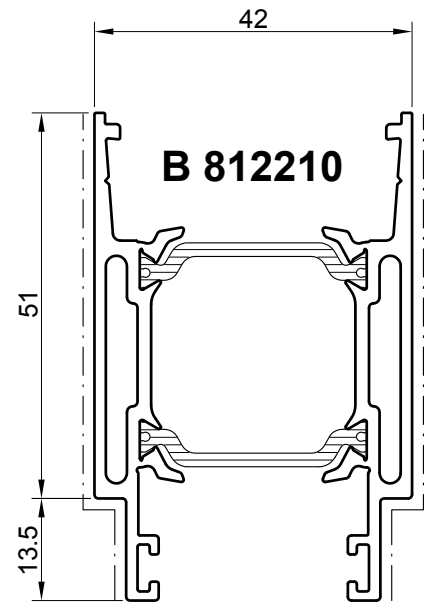
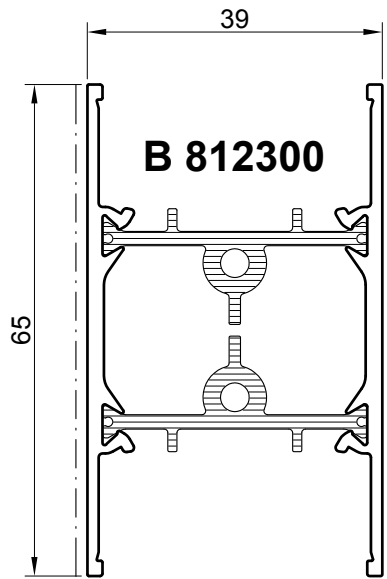
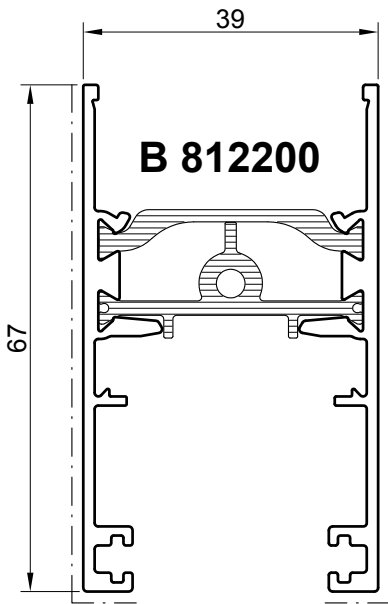
005000300

	Außenkammer External profile chamber					Innenkammer Internal profile chamber					
	I					II					
<ul style="list-style-type: none">  verpressbar crimpable  verstiftbar nailable  nachträglich verklebbar retro gluing after assembly 					-						
B 812040	-	-	-	-	-	-	-	-	-	-	Z 996118
B 812050	-	-	-	-	-	-	-	-	-	-	Z 996119

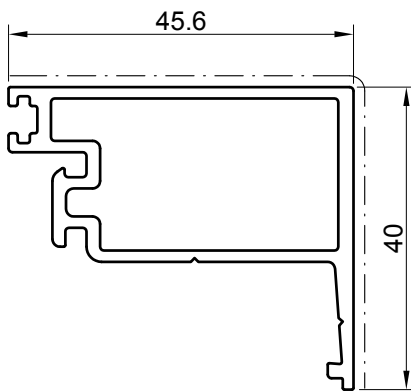


	Außenkammer External profile chamber				Innenkammer Internal profile chamber					
		I				II				
<ul style="list-style-type: none"> verpressbar crimpable verstiftbar nailable nachträglich verklebbar retro gluing after assembly 										
B 812070	Z 914240	Z 914818 Z 914817	2 x Z 911049	Z 911187	-	Z 917050	Z 914816	2 x Z 900023	Z 911187	Z 914710
B 812080	Z 914240	Z 914818 Z 917043	2 x Z 911049	Z 911187	-	Z 917050	Z 914816	2 x Z 900023	Z 911187	Z 914709

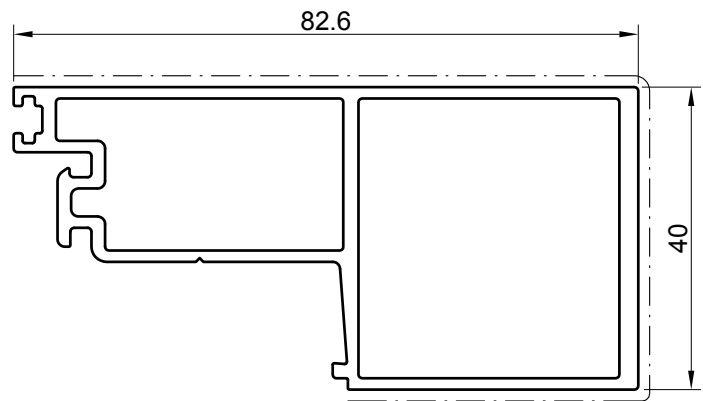
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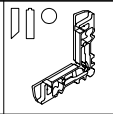



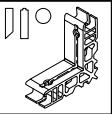
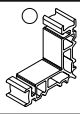





P 812600



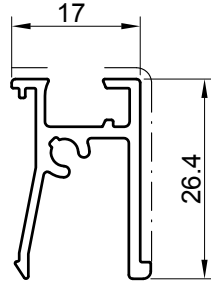
P 812610



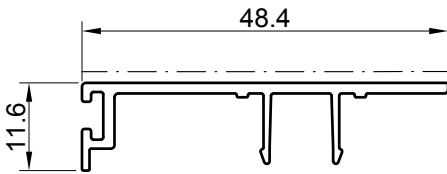
	Außenkammer External profile chamber					Innenkammer Internal profile chamber					
	I					II					
<ul style="list-style-type: none">  verpressbar crimpable  verstiftbar nailable  nachträglich verklebbar retro gluing after assembly 											
B 812200	-	-	-	-	-	-	-	-	-	-	-
B 812210	-	-	-	-	-	-	-	-	-	-	Z 996120
B 812300	-	-	-	-	-	-	-	-	-	-	-
P 812600	-	-	-	-	-	-	-	-	-	-	-
P 812610	-	-	-	-	-	-	-	-	-	-	Z 996120

011000500

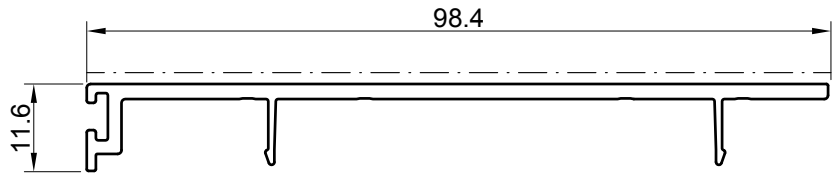
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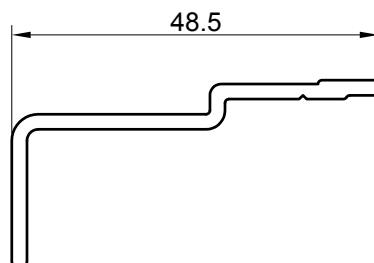
P 812630



P 812640



P 812650



M 1:1
Scale 1:1

012000600

Verglasungsdichtung Glazing gasket	Glasstärke in mm Glass thickness in mm	Profilvarianten Variants of profiles		
Z 914836	24			
Z 914837	26			
Z 914838	28			
Z 914839	30			

013000100

Die angegebenen Füllungsdicken sind Nennmaße. Bei der Auswahl der Innendichtung sind die Glas- und Profiltoleranzen zu berücksichtigen. Eventuell ist die nächst kleinere / größere Innendichtung einzuplanen.

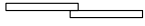
The specified panel thicknesses are nominal dimensions. When selecting the inner gasket, glass- and profile tolerances must be regarded. Possibly the next smaller or bigger inner gasket should be included.

Alle Schemata
all Scheme

Glashöhe = $RH - 188 \text{ mm}$
Glass height = $RH - 188 \text{ mm}$

Schema **A**
Scheme **A**

Glasbreite = $RB / 2 - 80 \text{ mm}$
Glass width = $RB / 2 - 80 \text{ mm}$



Schema **B + C**
Scheme **B + C**

Glasbreite = $RB / 4 - 71 \text{ mm}$
Glass width = $RB / 4 - 71 \text{ mm}$



Schema **D**
Scheme **D**

Glasbreite = $RB / 3 - 58 \text{ mm}$
Glass width = $RB / 3 - 58 \text{ mm}$



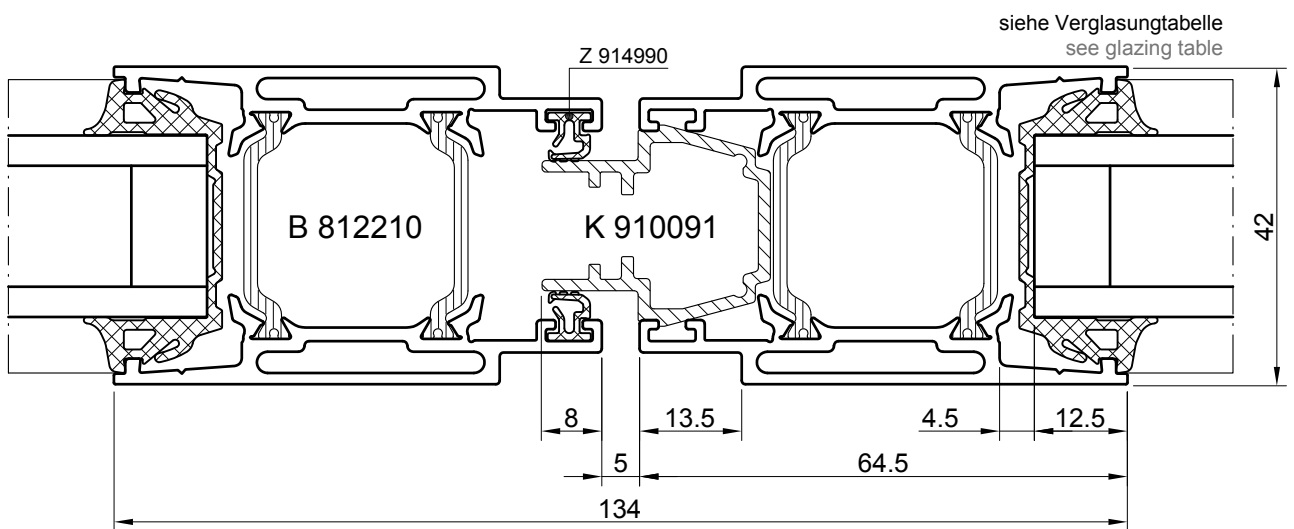
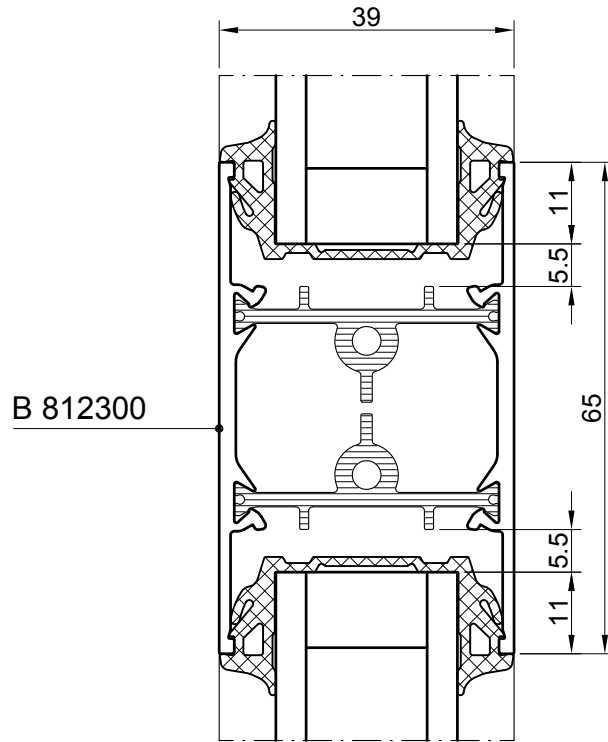
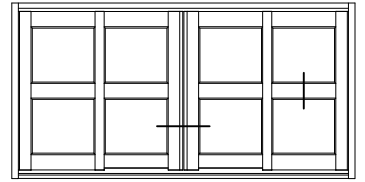
Schema **E + F**
Scheme **E + F**

Glasbreite = $RB / 6 - 52 \text{ mm}$
Glass width = $RB / 6 - 52 \text{ mm}$

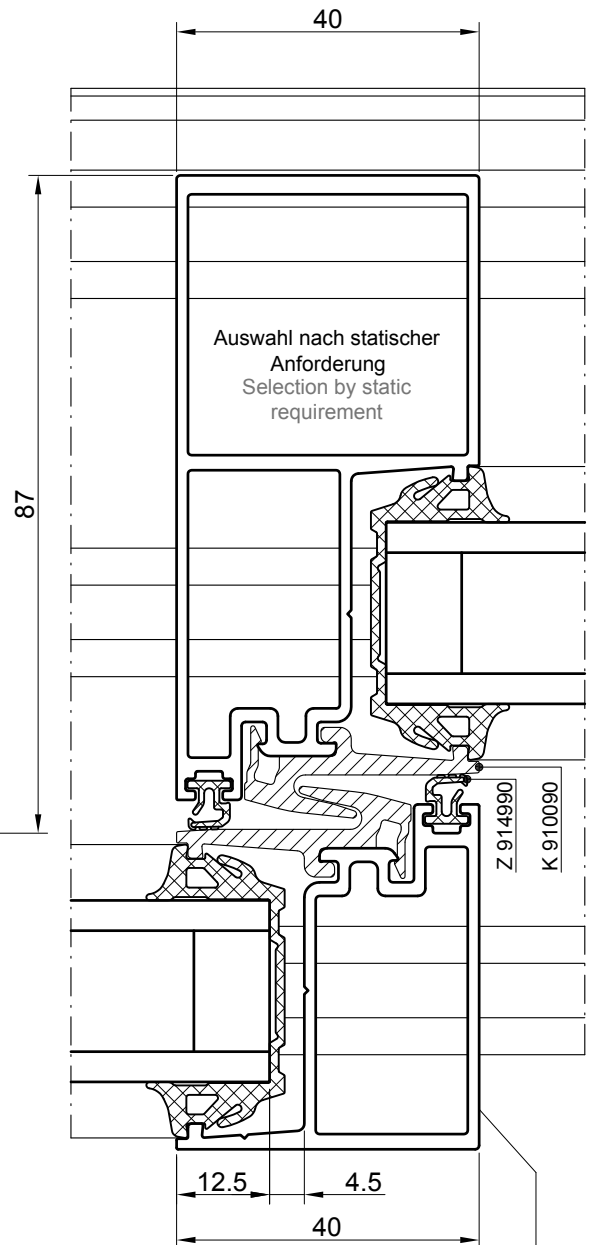
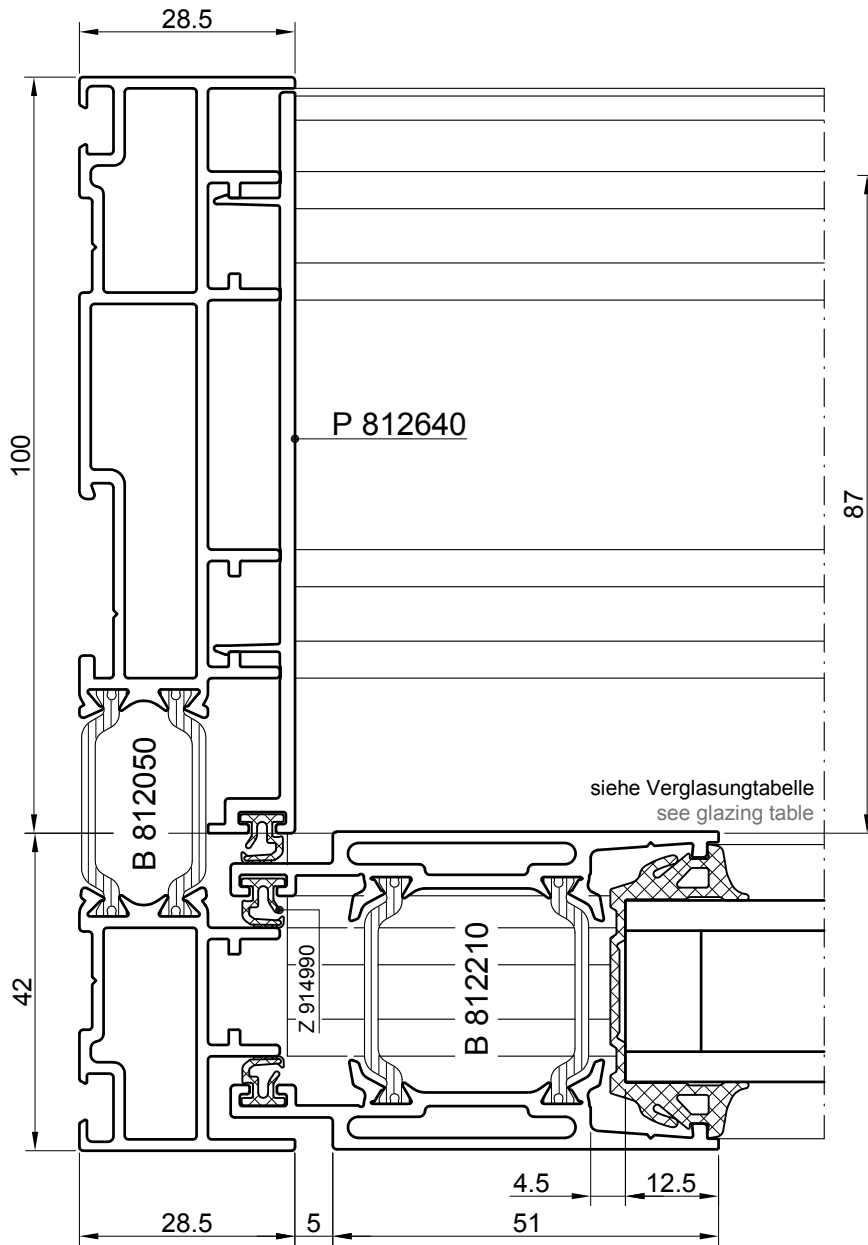
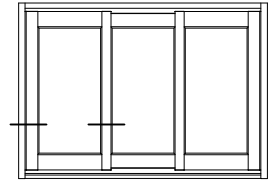


RH = Rahmenhöhe
RB = frame height

RB = Rahmenbreite
RB = frame width



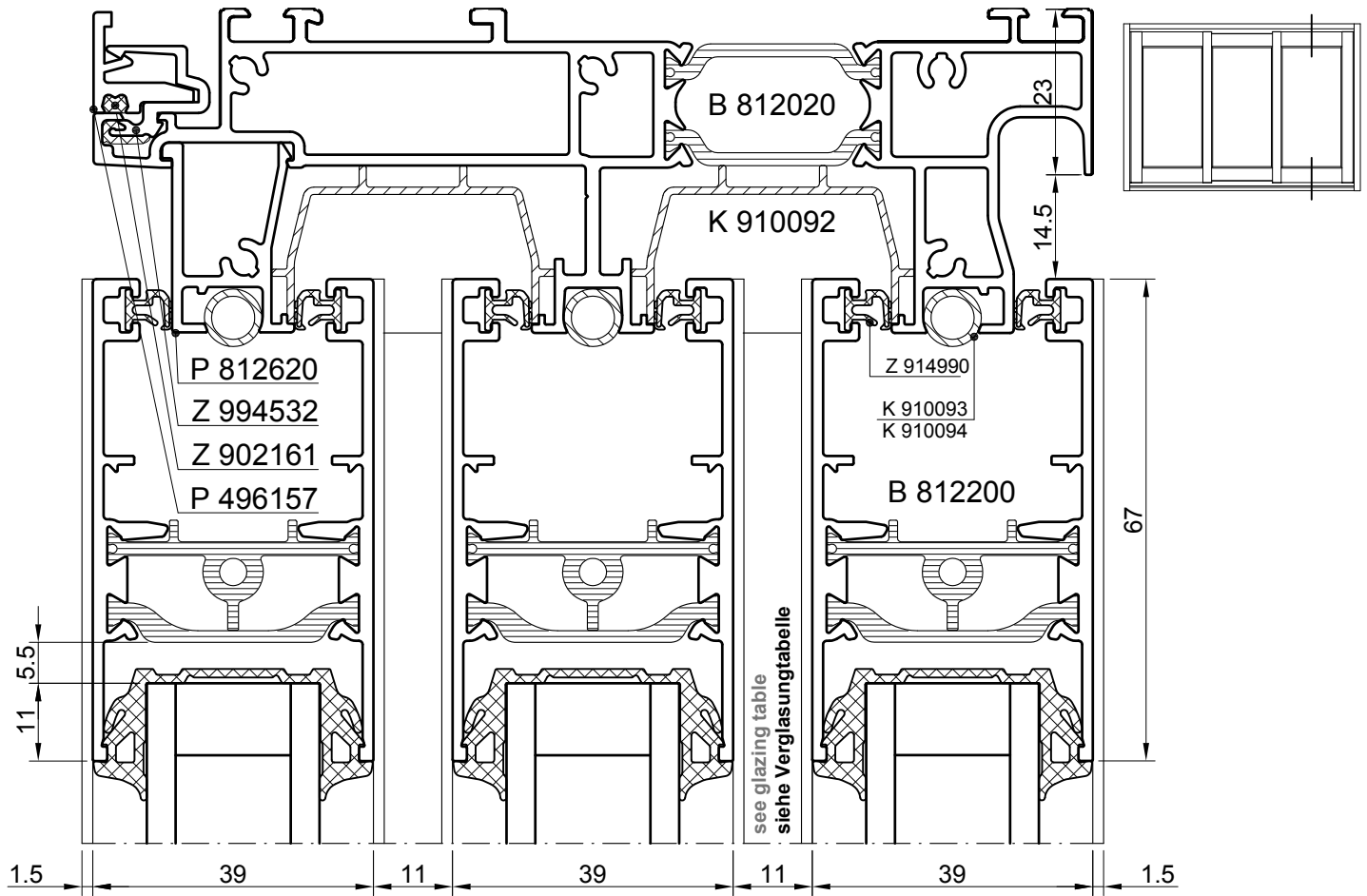
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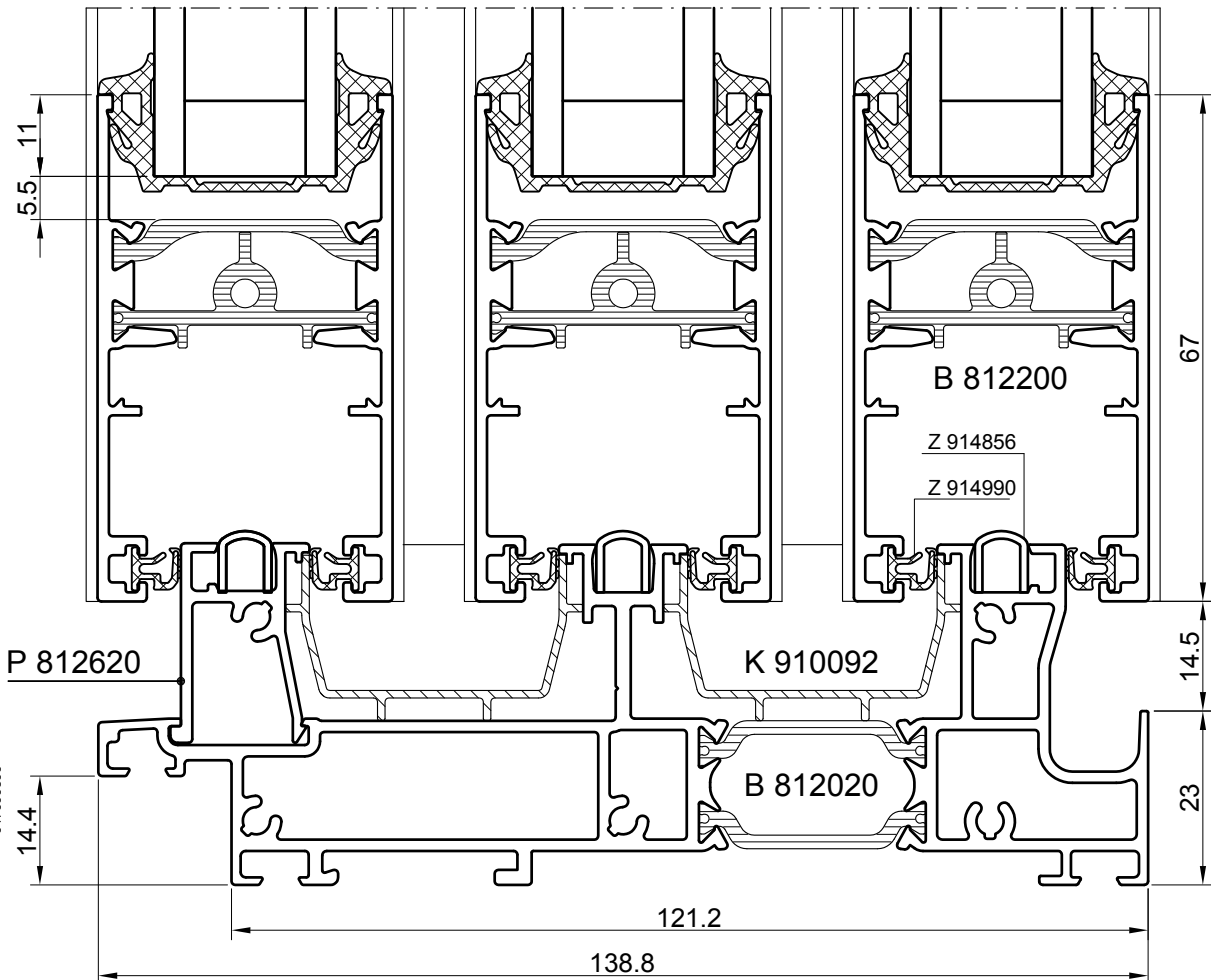
Berechnung der Glasabmessungen
siehe Tab. Verglasung, Seite 14

Calculation of glass dimensions
see tab glazing, page 14

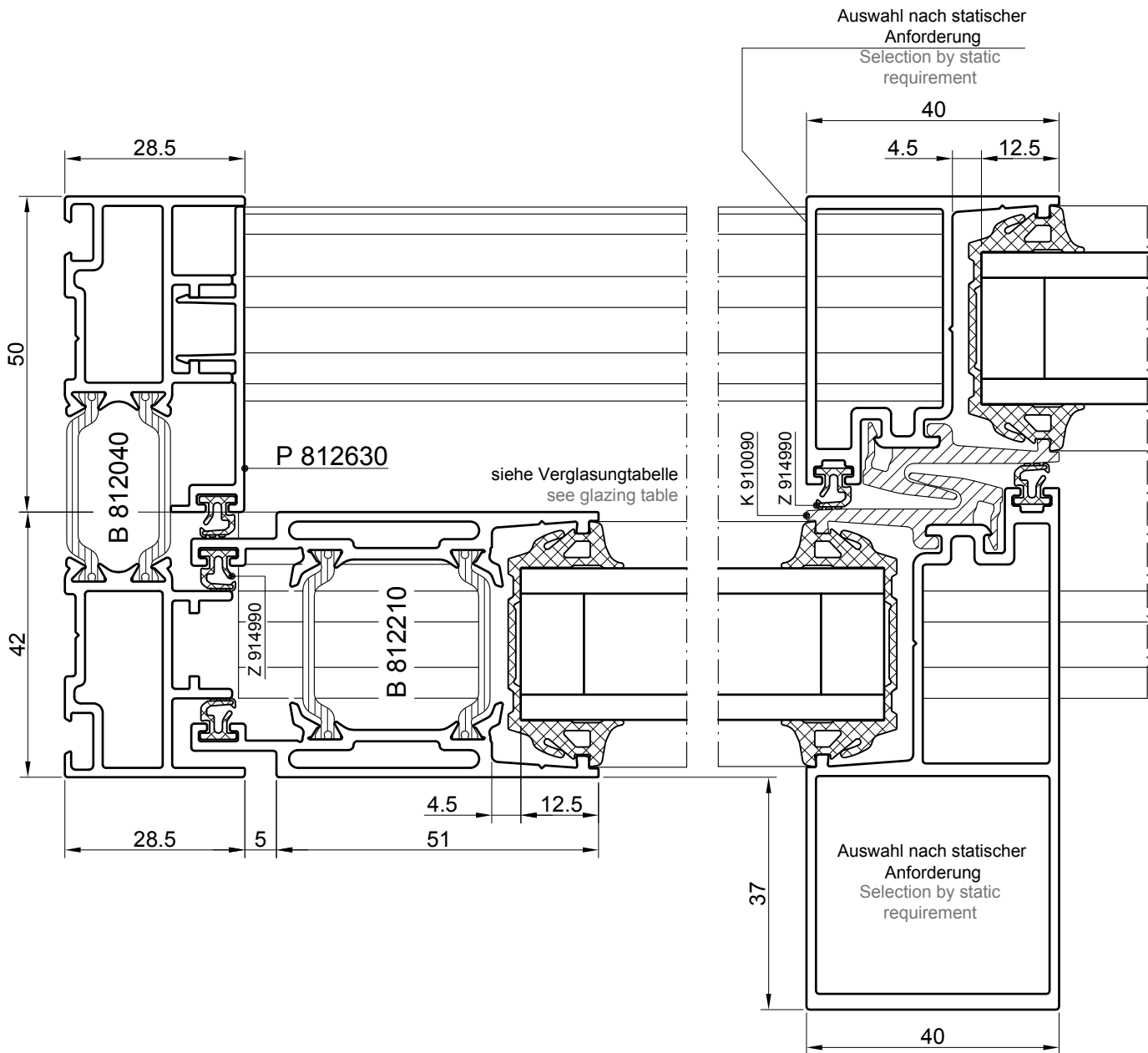
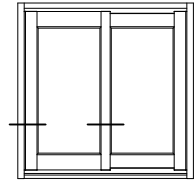
Auswahl nach statischer
Anforderung
Selection by static
requirement



see glazing table
siehe Verglasungstabelle

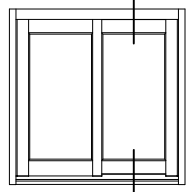


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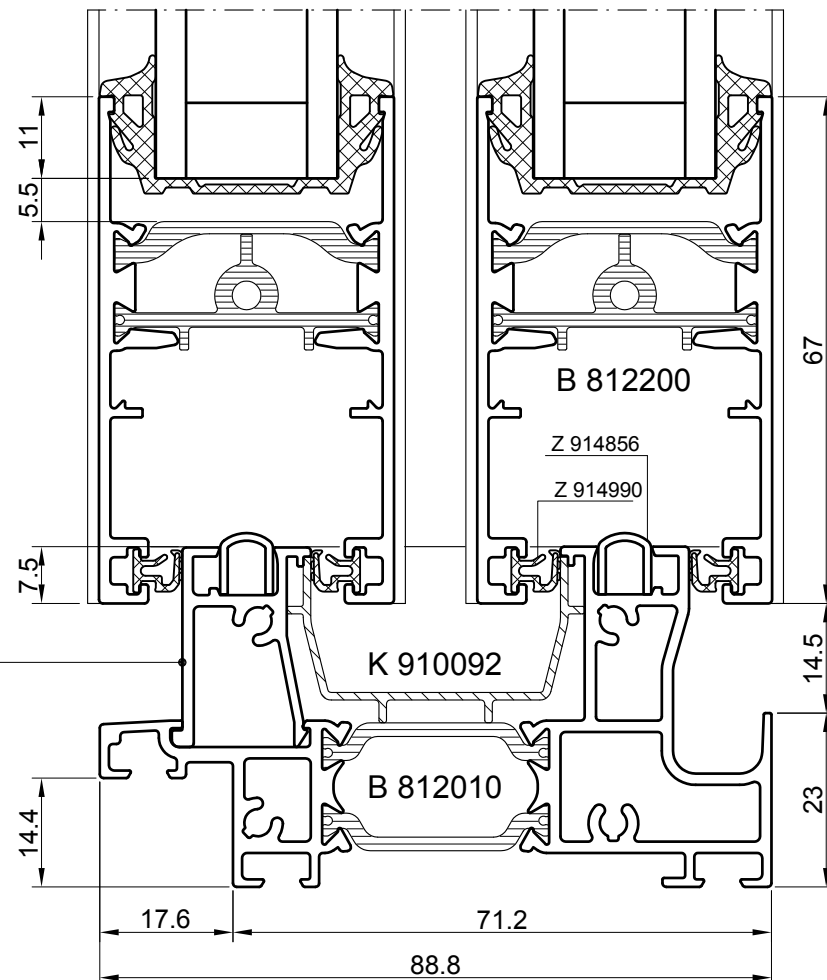
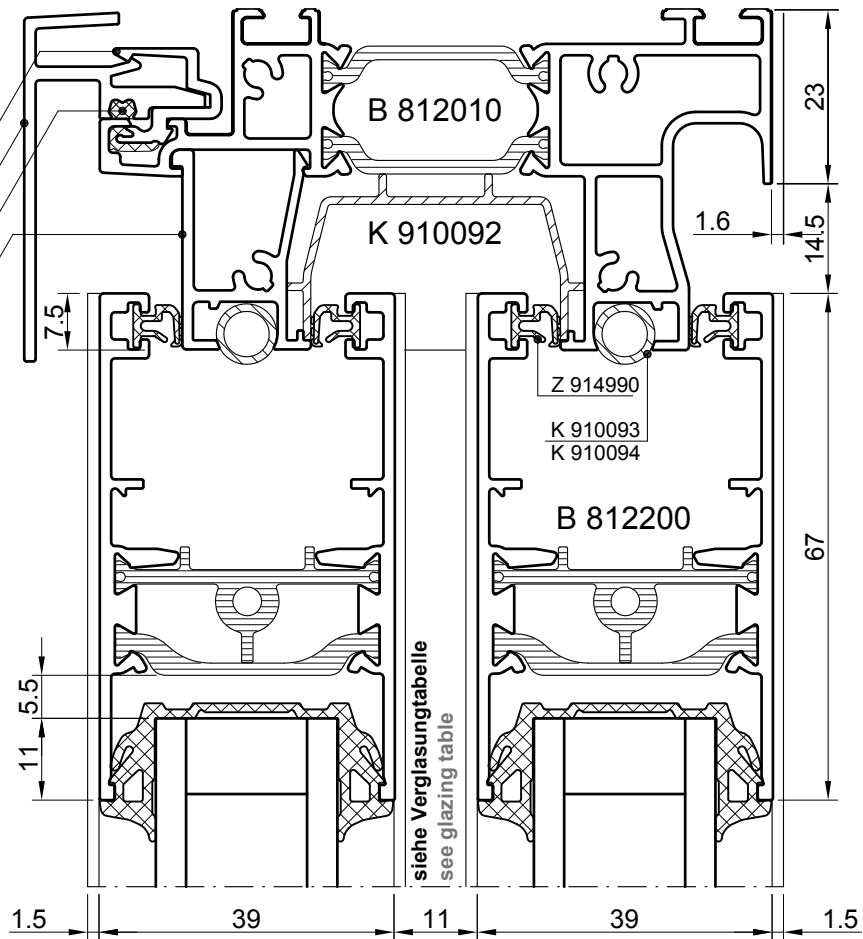


Berechnung der Glasabmessungen
siehe Tab. Verglasung, Seite 14

Calculation of glass dimensions
see tab glazing, page 14



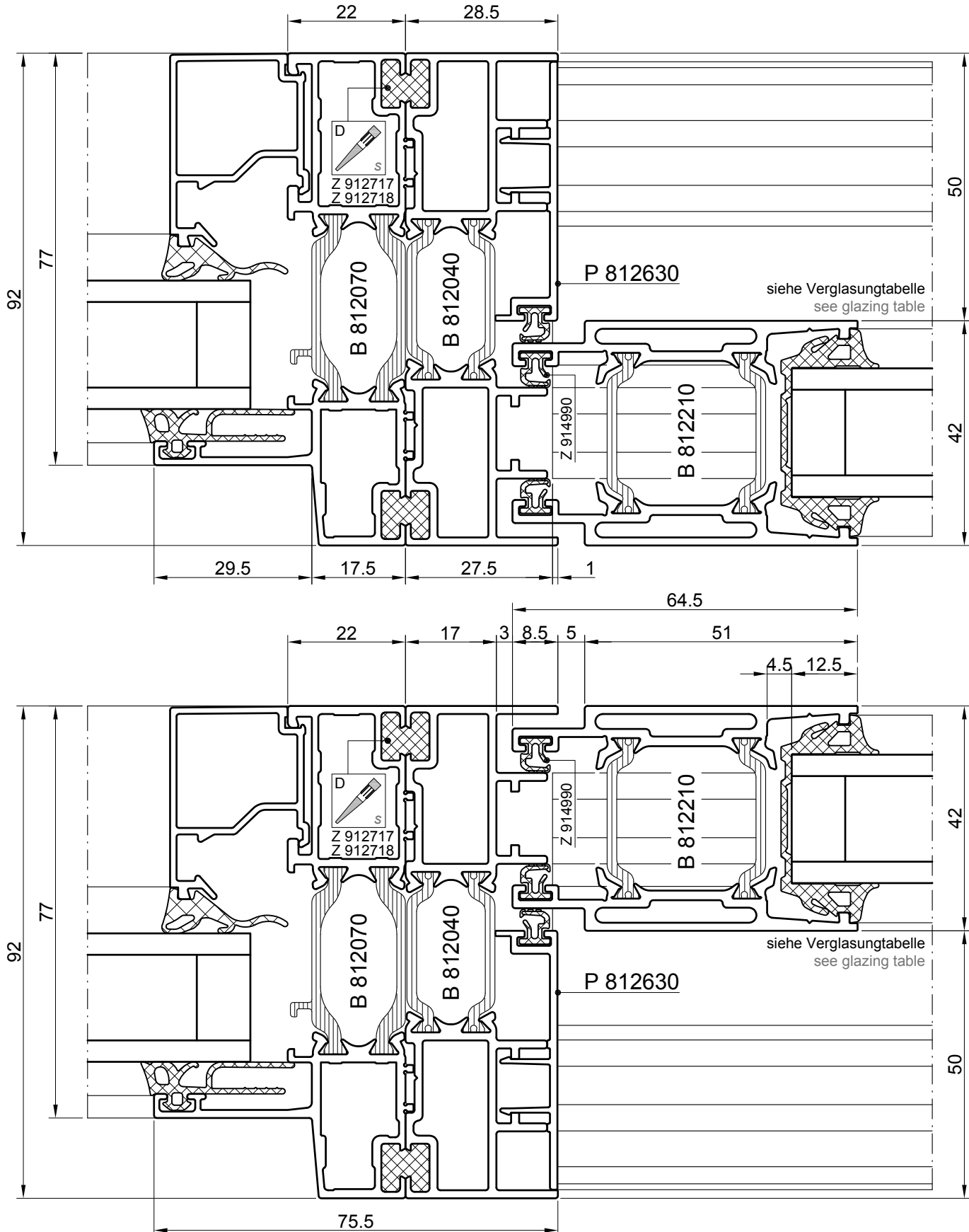
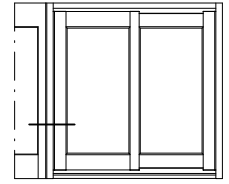
- Z 994532
- P 496158
- Z 902161
- P 812620



P 812620

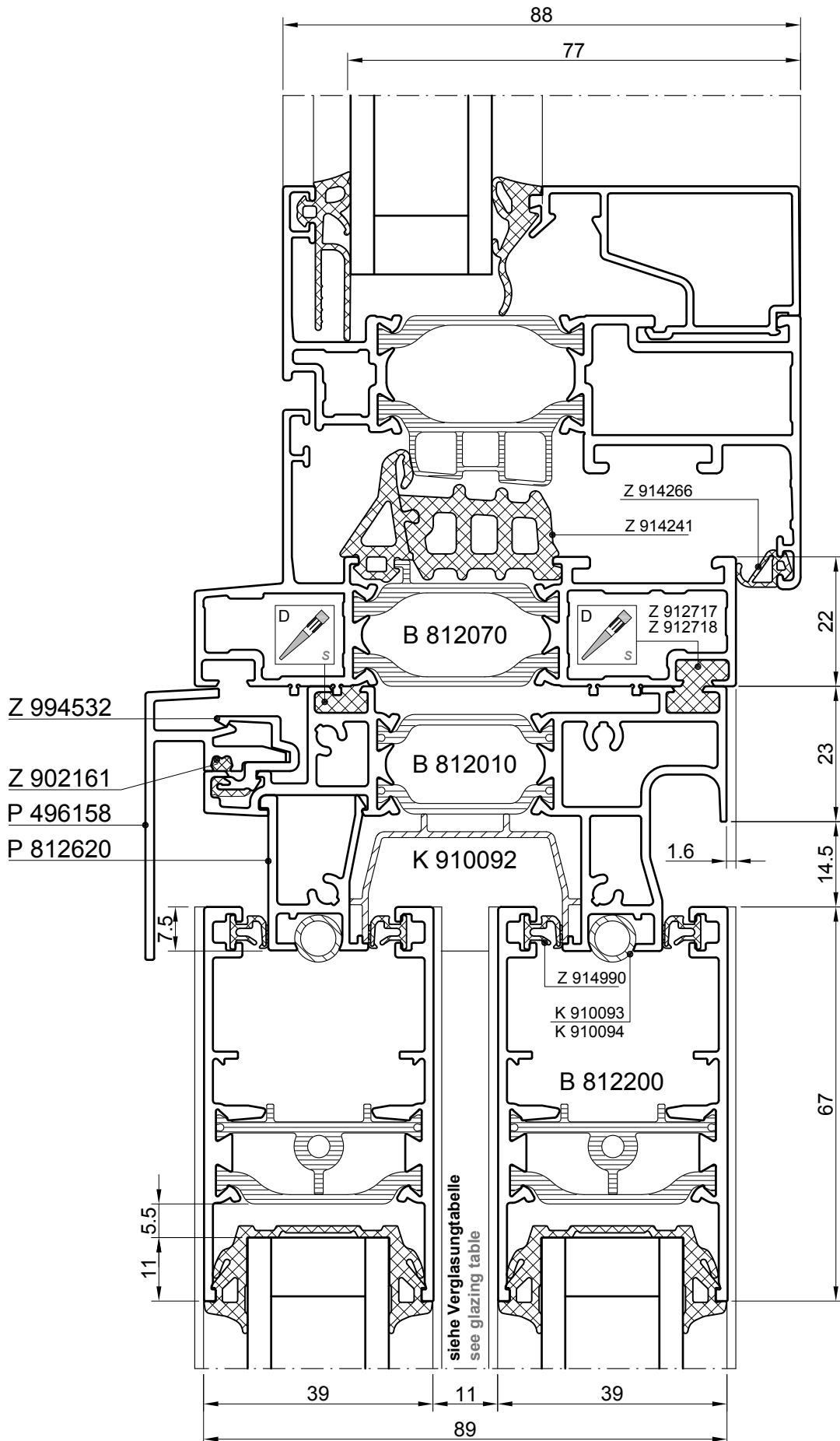
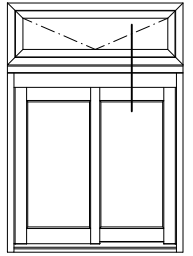
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Koppelung mit Lambda 77L
Coupling with Lambda 77L

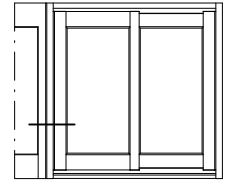


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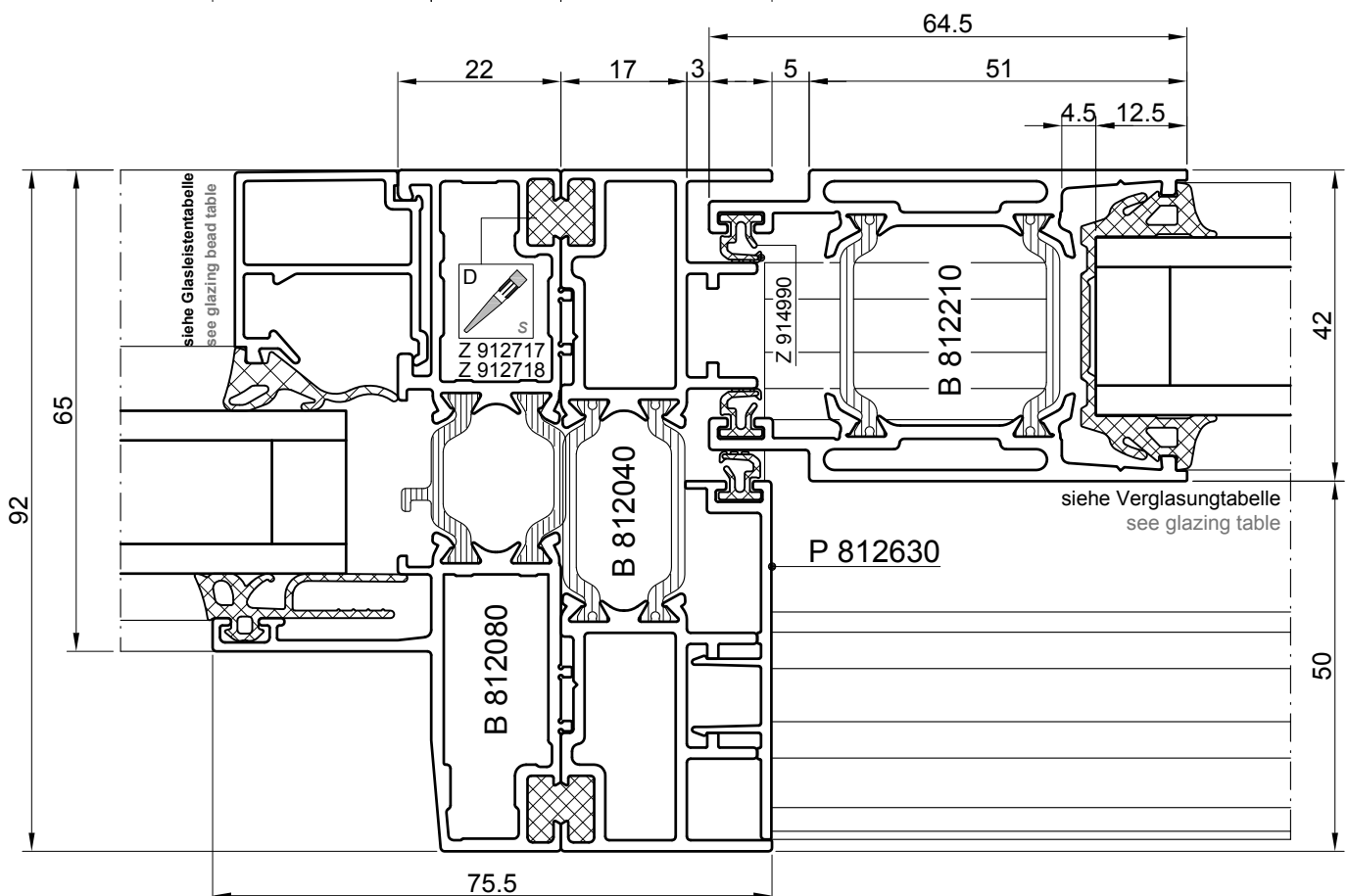
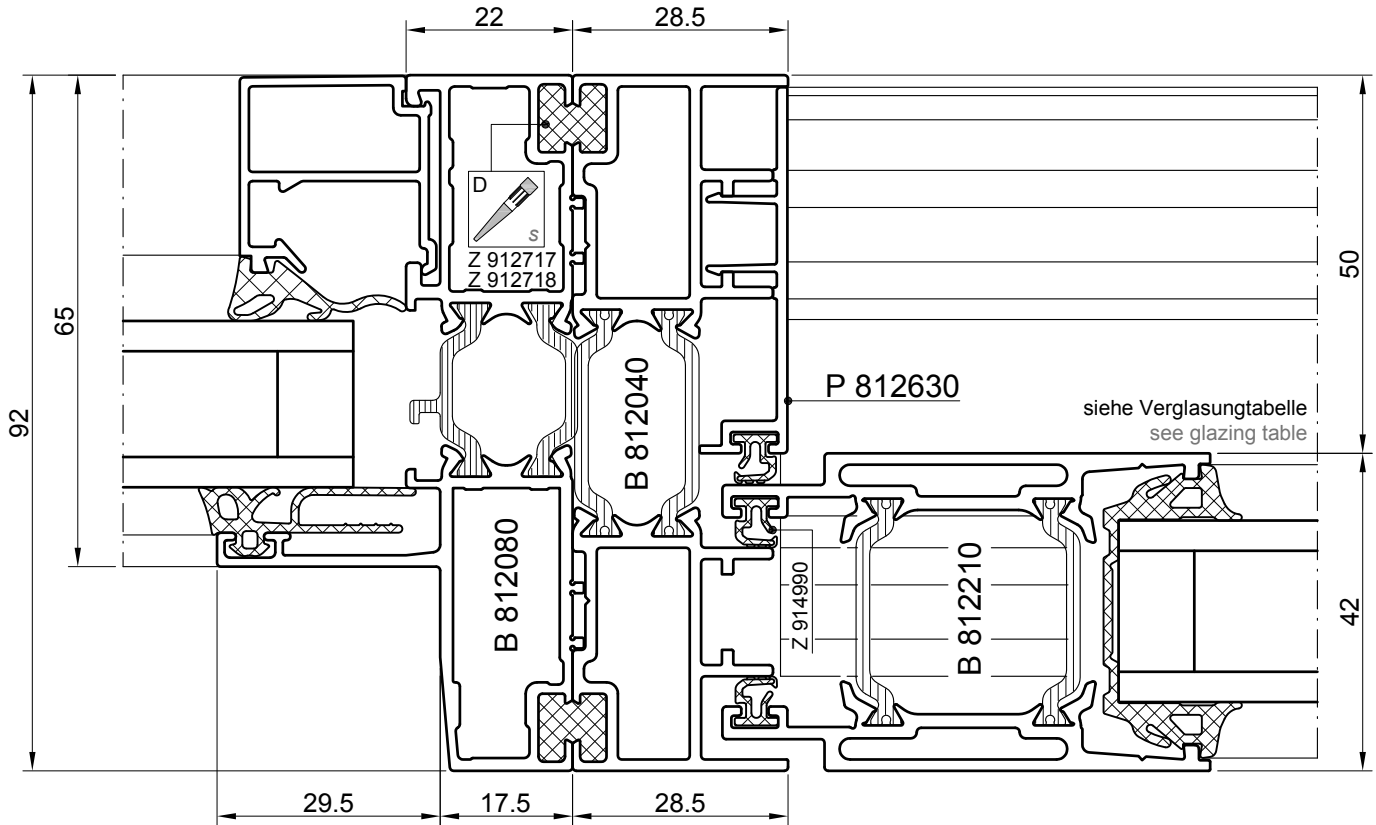
Koppelung mit Lambda 77L
Coupling with Lambda 77L



021000500

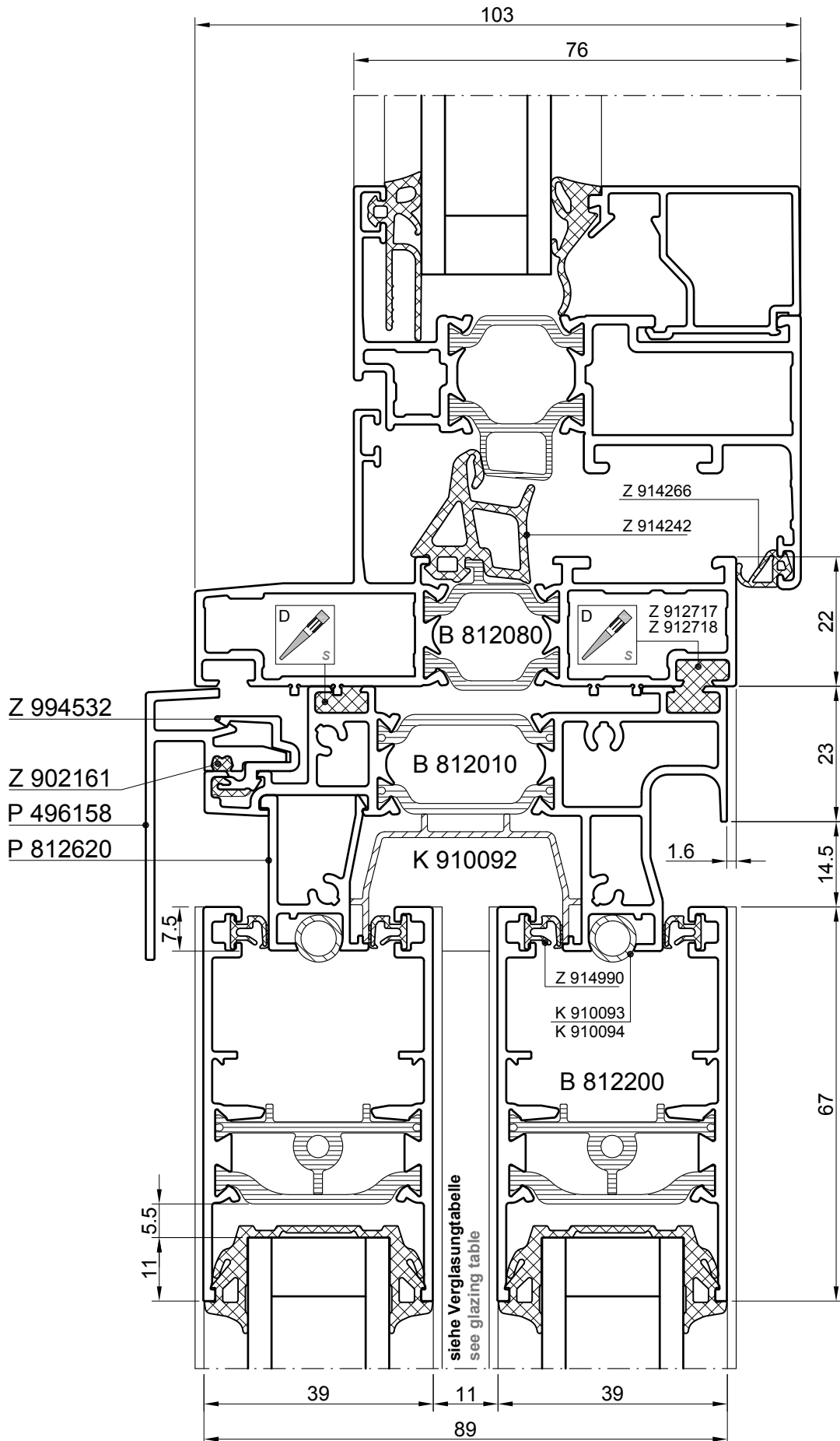
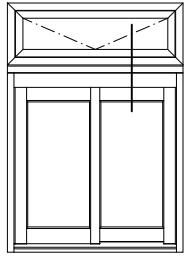


Koppelung mit Lambda 65M
Coupling with Lambda 65M



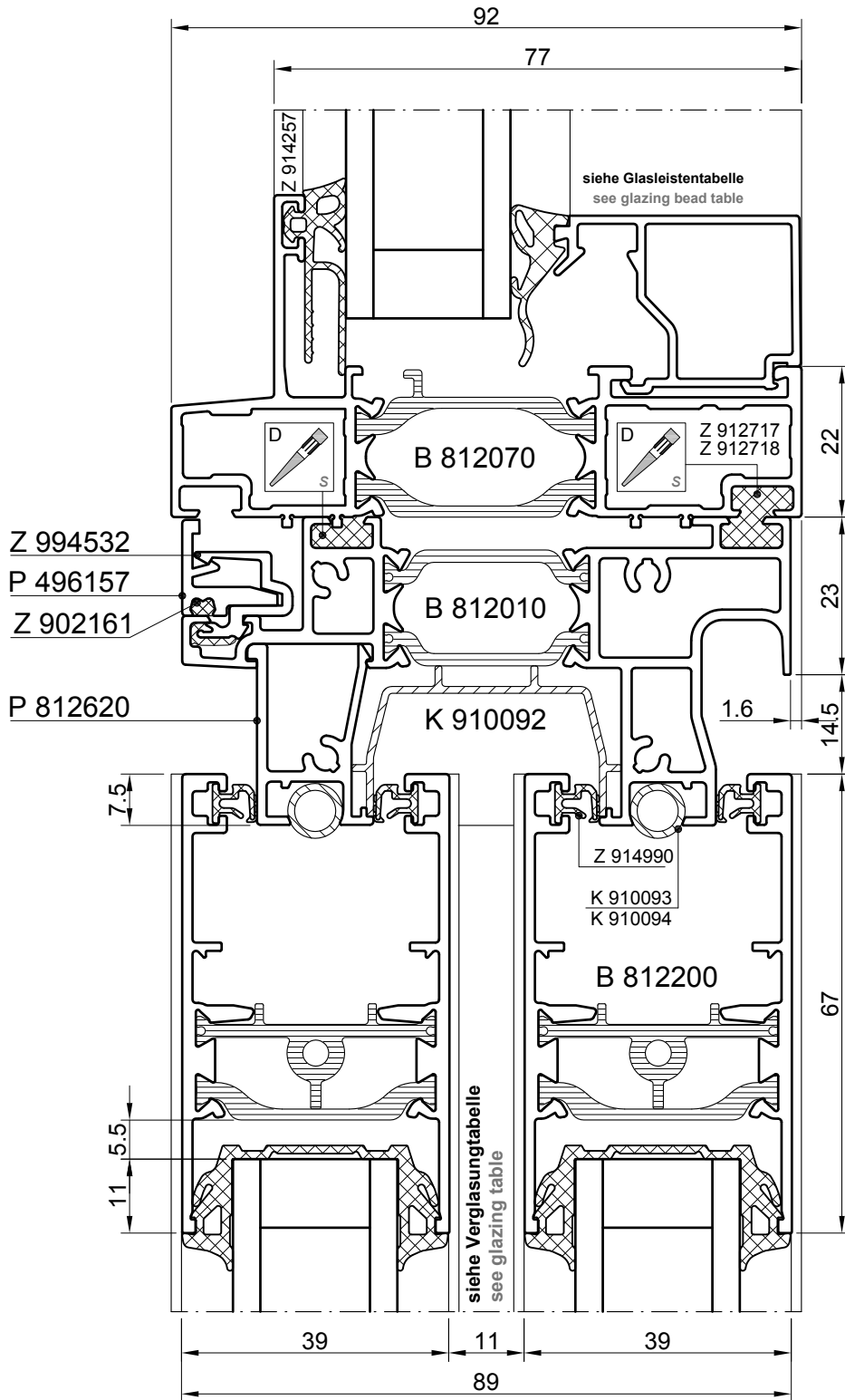
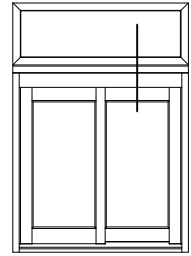
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Koppelung mit Lambda 65M
Coupling with Lambda 65M



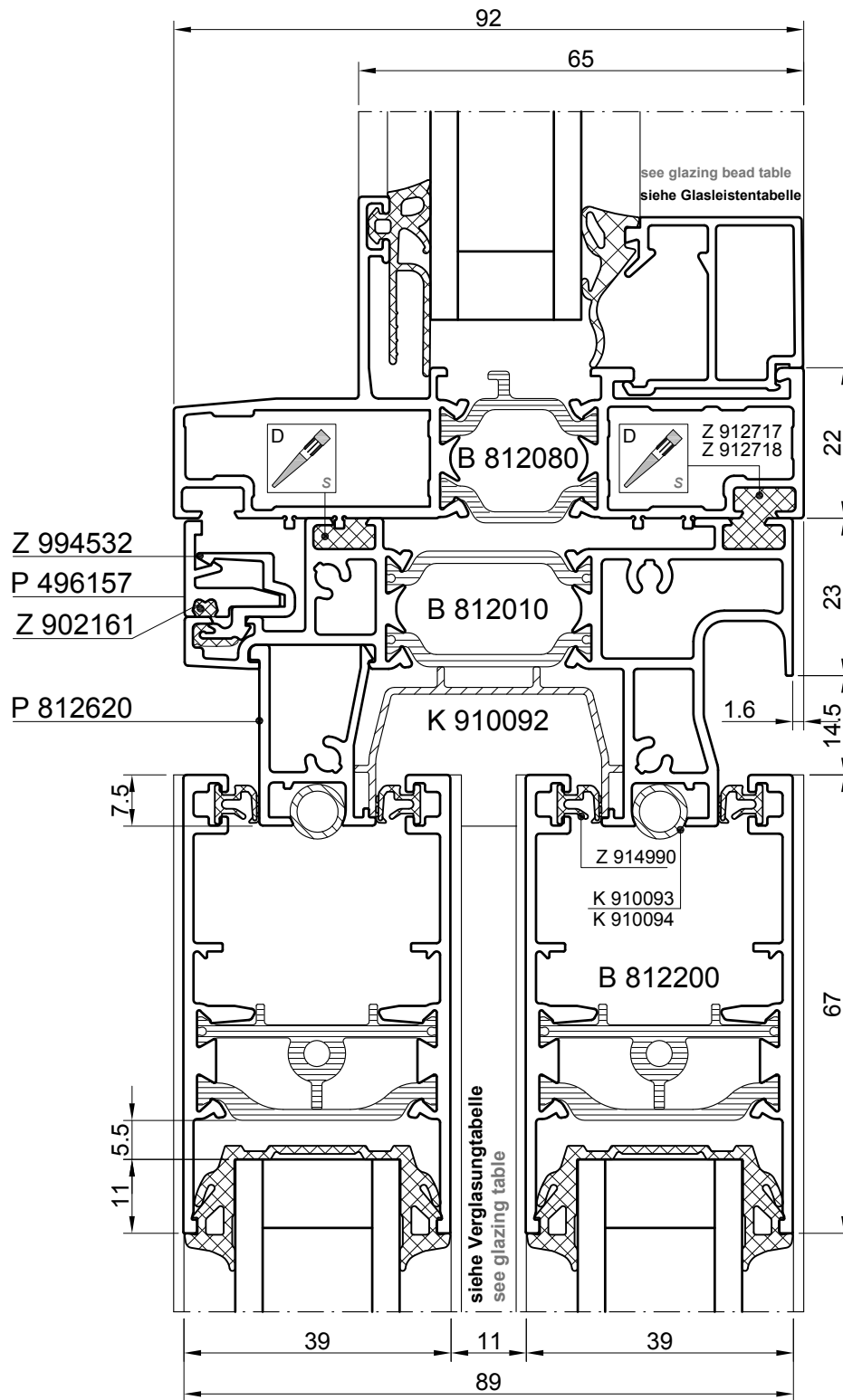
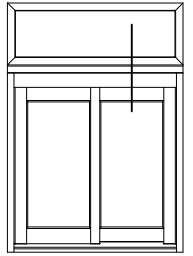
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Koppelung mit Lambda 77L
Coupling with Lambda 77L

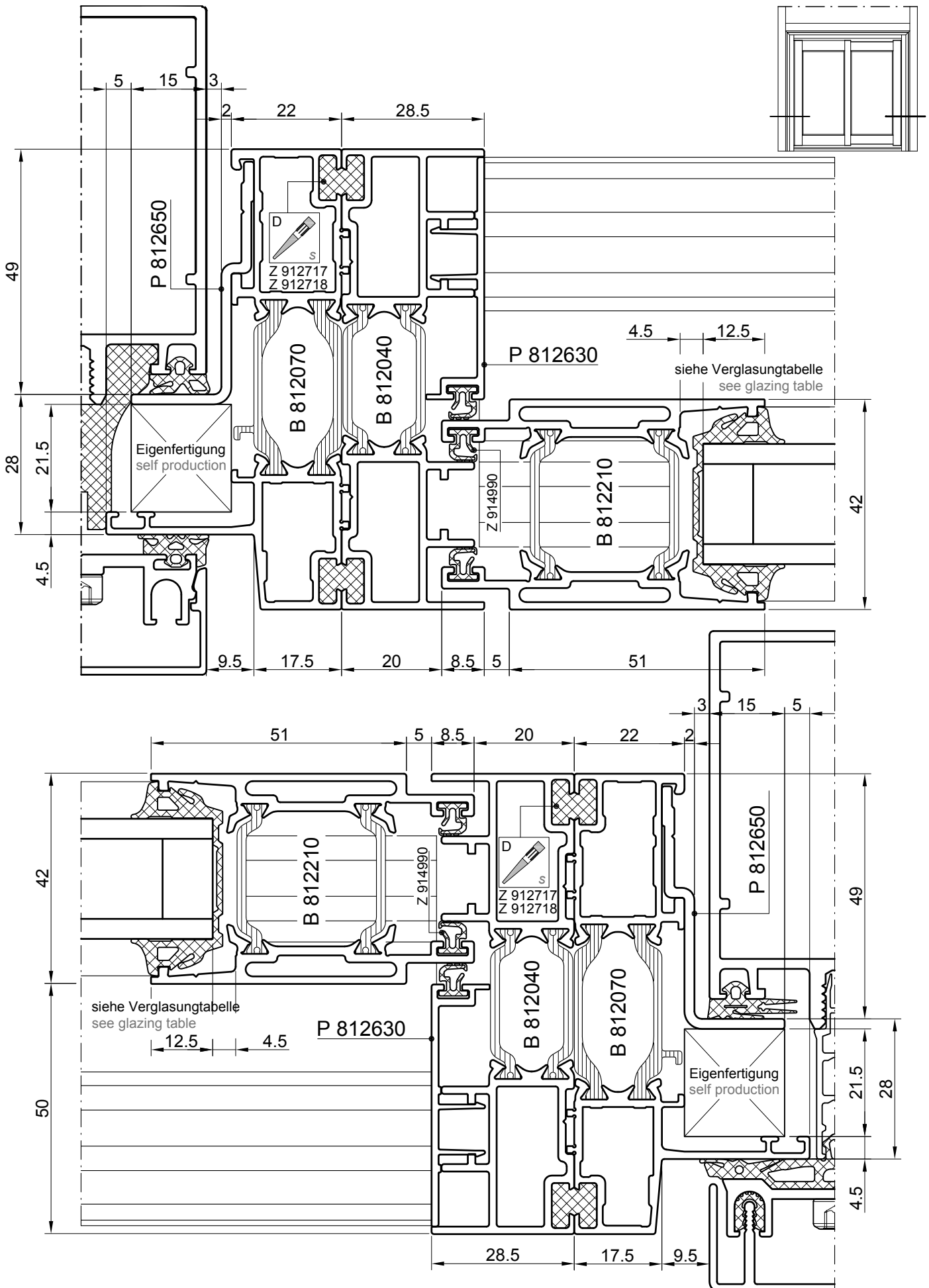


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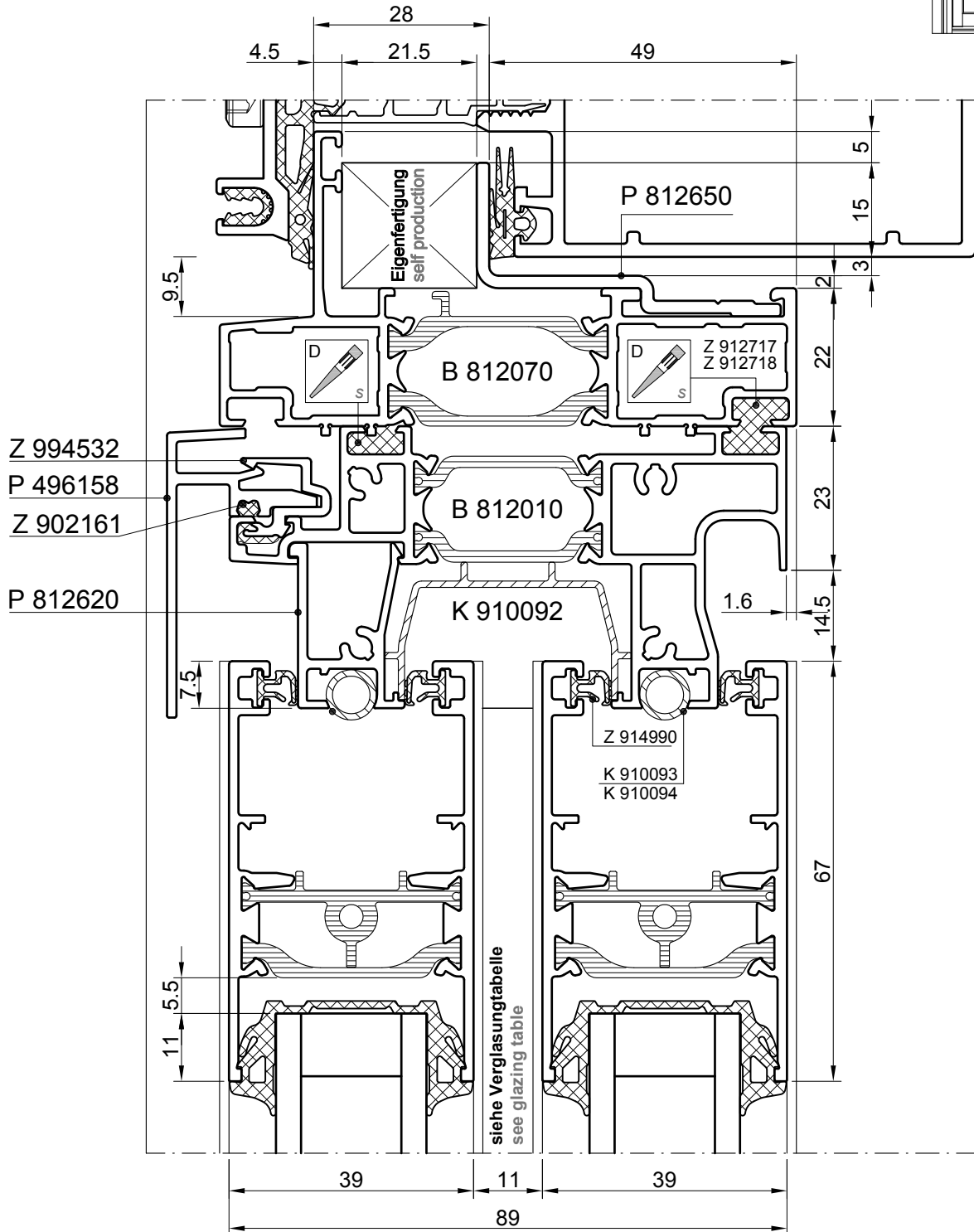
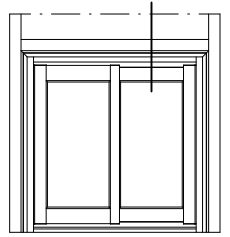
Koppelung mit Lambda 65M Coupling with Lambda 65M



025000500



026000500



027000500

