

TECHNOLOGY IN MOTION



MACO EMOTION HANDLES



Catalogue 2016



Part number



Spindle length



Grip Height



Rosette width



Door leaf width



Handle centre (E)



Profile depth



Spindle size



Surface Finish



Packer thickness



Overall component width



Overall component length



Packing unit

PZ Profile cylinder (PC)

RZ Round cylinder (RC)








E = Handle centre (E)

SKB Handles for Sliding Systems

HS Handles for Lift and Slide

RC resistance class

Note: If not otherwise specified, all dimensions are stated in millimetres and packing units in items per box.

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1 Technical and general information

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1 Technical and general information

1.1 How to use the catalogue

If not otherwise specified, all dimensions are stated in millimetres and packing units in items per box.

Drawings and diagrams are not to scale.

The content of this document is constantly being updated, so regular calibration is necessary. The current ver-

sion is downloadable from the Extranet (extranet.maco.eu) or from our website (www.macouk.net).

Please send comments or suggestions about our instructions by email to feedback@maco.eu.

1.2 Product Liability

According to the defined manufacturer's liability described in the "product liability law" (§ 1), the following information regarding handles and lever handles for windows and balcony doors should be observed. Non-compliance exempts the manufacturer of his liability.

1.2.1 Product information and specified application

Handles and lever-handles for windows and balcony doors in the sense of this definition are operational elements for Turn-Only and Tilt&Turn hardware as well as door locks. These are used to move locking components, that is to say; to open, tilt and close windows and balcony doors. Differing applications do not correspond to its specified application. In special cases the fabricator must be sure that the product he has selected is suitable for the intended installation and that the functionality is warranted in the intended application.

MACO handles and lever-handles are supplied as follows:

- Window handles
- Lockable window handles
- Handle / escutcheon cover sets
- Long-plate lever-handle sets
- T-handles, service handles (removable) and Escutcheon cover for service handle
- Handles for Tilt&Slide systems
- Handles for Lift&Slide systems
- Finger pulls

1.2.2 Product installation

The installation of MACO handles and lever-handles is only to be carried out by qualified personnel. The lugs' drill holes are to be drilled in the specified size and position, spindles must have the necessary contact in the sprocket or lever-handle, handles and lever-handles must be mounted in a smooth running and distortion-free manner and screws with the correct length are to be used. Pay heed to the permanent and firm connection of escutcheon covers or long-plates to windows and balcony-doors.

At all costs avoid the use of force (e.g. a hammer) during installation.

1.2.3 Abnormal use and misuse

Misuse - therefore not the specified product utilisation - of handles and lever-handles for windows and balcony doors occurs in particular if:

- The force effects exceed normal operational forces by hand, e.g. blocking the operational or locking components.
- Additional loads are created or tools are used (external le-

vers, striking tools, etc.);

- Combinations are created with other components that are not suitable; e.g. handles, lever-handles and pins from other manufacturers;
- Mechanical damage has been caused to the surface-finish e.g. with sharp objects;
- The surface-finish has been damaged by corrosive or abrasive substances (acids, caustic solutions, scouring agents, aggressive household cleaning agents, etc.);
- Soiling for example through builder's dust, lime, plaster, cement and mortar.

1.2.4 Product maintenance

In order to warrant perfect operation of the MACO handles and lever-handles,

- the necessary information and instructions are to be handed over to the appropriate persons;
- the normative references and standards are to be observed;
- MACO handles and lever-handles are to be used in accordance with their stipulated specification of use;
- the manufacturers mandatory regulations regarding the combination of hardware components are to be adhered;
- the care and maintenance instructions are to be adhered;
- the correction of defects may only be carried out by specialised personnel.

1.2.5 Product performance

If the product performances have not been specifically determined in our catalogues and brochures, the requirements of the individual products must be individually agreed upon with us. The product performance information refers only to the use of original MACO parts. The performance capability of handles and lever-handles is dependent among other things on operational frequency, operational manner, environmental influences, maintenance and care.

1.2.6 Surface finishes and care

The surface-finish of MACO handles and lever-handles is carried out using the most modern procedures and ongoing quality assurance. Other materials (e.g. rings) can cause surface-finish damage when in daily use and with it lead to adverse aesthetic effects. Incorrect handling and inadequate care lead to surface-finish damages and with it corrosion. Handles and lever-handles are to be mounted only upon completion of building and painting work. Only warm water and soft cloths are to be used for cleaning; mild, pH-neutral cleaning agents may be used if badly soiled - on no account may corrosive or abrasive substances be used.



1.3 Certificates and guarantees

MACO ensures high quality, not only with ongoing continuous internal testing, but also through external auditing by renowned, independent institutes. Copies of all our independent test certificates, covering our quality, safety and environmental management systems, as well as our

product guarantees are available to download from our website www.macouk.net, customers can access them directly from our customer extranet portal (extranet.maco.eu). In addition our safety descriptions relating to dangerous substances (REACH Declaration) are available, covering all MACO products.



1.4 General terms and conditions (T&Cs)

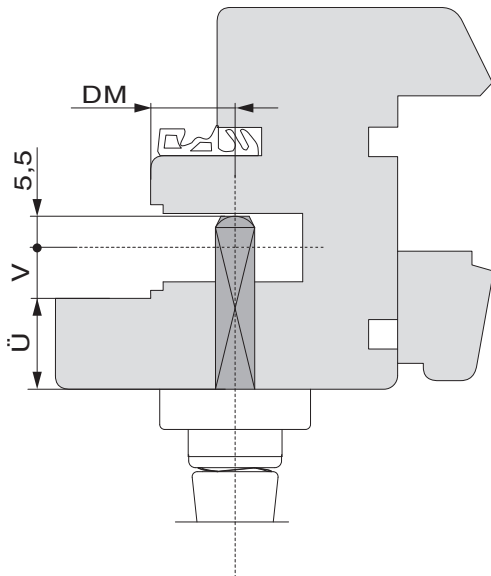
Our general terms and conditions are available for download from our website (www.maco.eu) or from our extranet (extranet.maco.eu).



1.5 Technische Informationen zur Montage

1.5.1 Tilt&turn, tilt-first, turn-only elements

Calculation of pin length



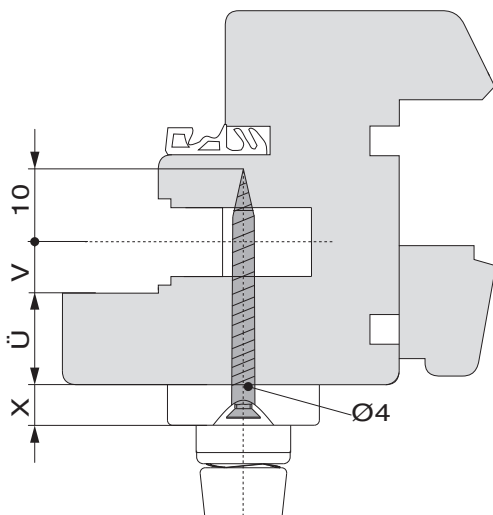
Ü = Overlap

V = Offset: 13 mm

DM = backset (BS)

Calculation of screw length

chipboard screws



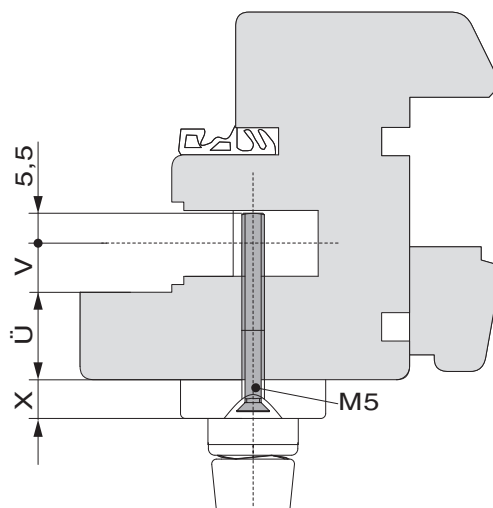
X = 8 mm: Harmony, Symphony

X = 9.5 mm: Rhapsody

Ü = Overlap

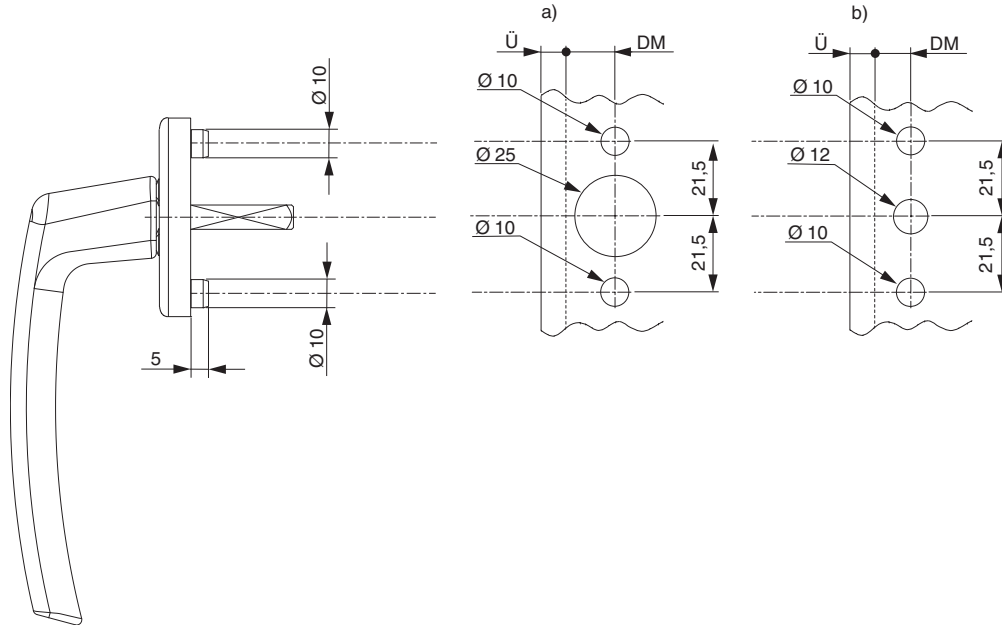
V = Offset: 13 mm

metric screws



Drilling hole patterns

Rosette with lugs $\varnothing 10$

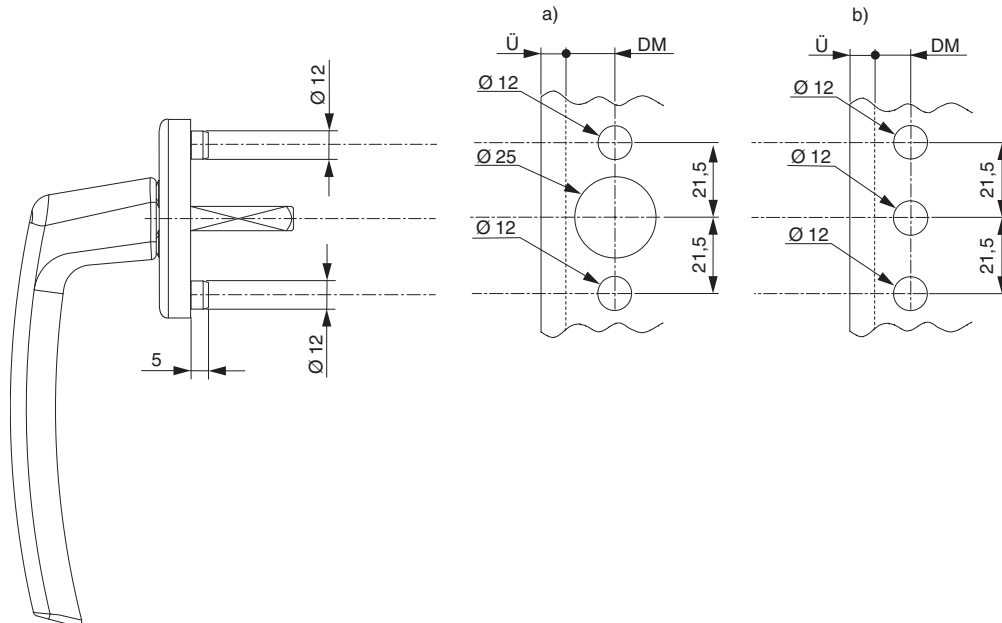


The pins are intended to provide greater stability to the handle.

a) timber profiles

b) PVC profiles

Rosette with lugs $\varnothing 12$



The pins are intended to provide greater stability to the handle.

a) timber profiles

b) PVC profiles

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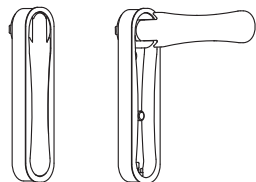
Technical and general information



2 **TENTAZIONE**

2.1	Countersunk handle	14
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


2 TENTAZIONE



461769

T

2.1 Countersunk handle

							No
brush-finished chrome	4,5	30	37	7	chrome-plated	1	461770
brush-finished nickel	4,5	30	37	7	nickel-plated	1	461773
gold look	4,5	30	37	7	gold plated	1	461769
polished chrome	4,5	30	37	7	chrome-plated	1	461771
traffic white RAL 9016	4,5	30	37	7	powder coated	1	461772

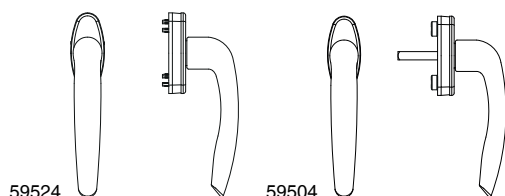








3 Rhapsody

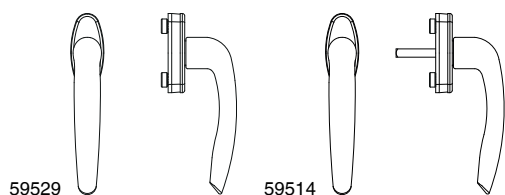
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


3 RHAPSODY

3.1 Window Handle

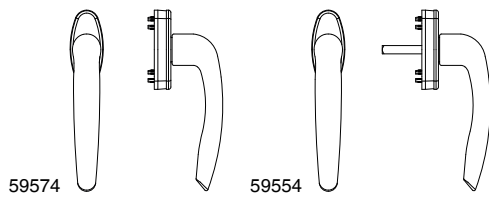


3.1.1 Lugs 10							No
bronze	57	30	0	7	anodised	20	59521
			32	7	anodised	20	59501
			35	7	anodised	20	59506
champagne	57	30	0	7	anodised	20	59523
			32	7	anodised	20	59503
			35	7	anodised	20	59508
silver	57	30	0	7	anodised	20	59522
			32	7	anodised	20	59502
			35	7	anodised	20	59507
titanium	57	30	0	7	anodised	20	59520
			32	7	anodised	20	59500
			35	7	anodised	20	59505
traffic white RAL 9016	57	30	0	7	PVC coated	20	59524
			32	7	PVC coated	20	59504
			35	7	PVC coated	20	59509

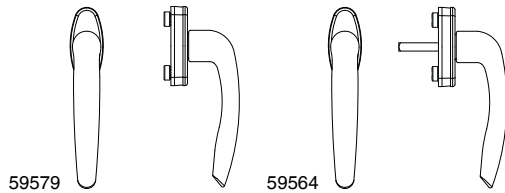


3.1.2 Lugs 10/12							No
bronze	57	30	0	7	anodised	20	59526
			32	7	anodised	20	59511
			35	7	anodised	20	59516
champagne	57	30	0	7	anodised	20	59528
			32	7	anodised	20	59513
			35	7	anodised	20	59518
silver	57	30	0	7	anodised	20	59527
			32	7	anodised	20	59512
			35	7	anodised	20	59517
titanium	57	30	0	7	anodised	20	59525
			32	7	anodised	20	59510
			35	7	anodised	20	59515
traffic white RAL 9016	57	30	0	7	PVC coated	20	59529
			32	7	PVC coated	20	59514
			35	7	PVC coated	20	59519

3.2 Window Handle with 45°-Rest

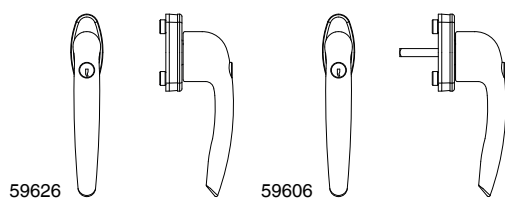








3.2.1 Lugs 10								No
bronze	57	30	0	7	anodised	20	59571	
			32	7	anodised	20	59551	
			35	7	anodised	20	59556	
champagne	57	30	0	7	anodised	20	59573	
			32	7	anodised	20	59553	
			35	7	anodised	20	59558	
silver	57	30	0	7	anodised	20	59572	
			32	7	anodised	20	59552	
			35	7	anodised	20	59557	
titanium	57	30	0	7	anodised	20	59570	
			32	7	anodised	20	59550	
			35	7	anodised	20	59555	
traffic white RAL 9016	57	30	0	7	PVC coated	20	59574	
			32	7	PVC coated	20	59554	
			35	7	PVC coated	20	59559	



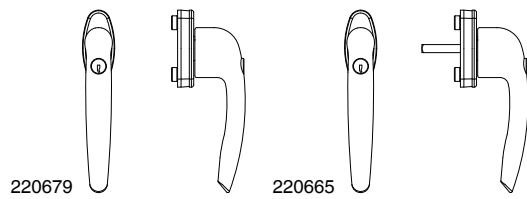
3.2.2 Lugs 10/12								No
bronze	57	30	0	7	anodised	20	59576	
			32	7	anodised	20	59561	
			35	7	anodised	20	59566	
champagne	57	30	0	7	anodised	20	59578	
			32	7	anodised	20	59563	
			35	7	anodised	20	59568	
silver	57	30	0	7	anodised	20	59577	
			32	7	anodised	20	59562	
			35	7	anodised	20	59567	
titanium	57	30	0	7	anodised	20	59575	
			32	7	anodised	20	59560	
			35	7	anodised	20	59565	
traffic white RAL 9016	57	30	0	7	PVC coated	20	59579	
			32	7	PVC coated	20	59564	
			35	7	PVC coated	20	59569	







3.3 Window Handle with Key Locking



3.3.1 Lugs 10/12								No
bronze	57	30	0	7	anodised	10	59623	
			32	7	anodised	10	59603	
			35	7	anodised	10	59613	
champagne	57	30	0	7	anodised	10	59625	
			32	7	anodised	10	59605	
			35	7	anodised	10	59615	
silver	57	30	0	7	anodised	10	59624	
			32	7	anodised	10	59604	
			35	7	anodised	10	59614	
titanium	57	30	0	7	anodised	10	59622	
			32	7	anodised	10	59602	
			35	7	anodised	10	59612	
traffic white RAL 9016	57	30	0	7	powder coated	10	59626	
			32	7	powder coated	10	59606	
			35	7	powder coated	10	59616	

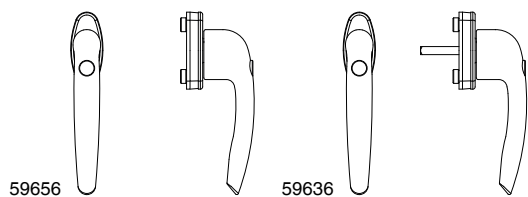
3.4 Window Handle with 45°-Rest and Key Locking












3.4.1 Lugs 10/12							No
bronze	57	30	0	7	anodised	10	220676
			32	7	anodised	10	220662
			35	7	anodised	10	220669
champagne	57	30	0	7	anodised	10	220678
			32	7	anodised	10	220664
			35	7	anodised	10	220671
silver	57	30	0	7	anodised	10	220677
			32	7	anodised	10	220663
			35	7	anodised	10	220670
titanium	57	30	0	7	anodised	10	220675
			32	7	anodised	10	220661
			35	7	anodised	10	220668
traffic white RAL 9016	57	30	0	7	powder coated	10	220679
			32	7	powder coated	10	220665
			35	7	powder coated	10	220672

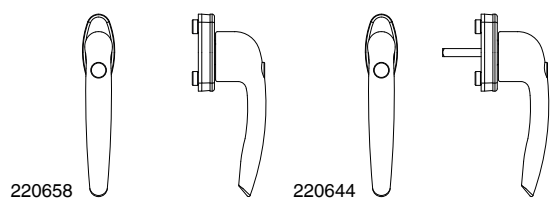


3.5 Window Handle with Locking Button









3.5.1 Lugs 10/12										No
bronze	57	30	0	7	anodised	10				59653
			32	7	anodised	10				59633
			35	7	anodised	10				59643
champagne	57	30	0	7	anodised	10				59655
			32	7	anodised	10				59635
			35	7	anodised	10				59645
silver	57	30	0	7	anodised	10				59654
			32	7	anodised	10				59634
			35	7	anodised	10				59644
titanium	57	30	0	7	anodised	10				59652
			32	7	anodised	10				59632
			35	7	anodised	10				59642
traffic white RAL 9016	57	30	0	7	powder coated	10				59656
			32	7	powder coated	10				59636
			35	7	powder coated	10				59646

3.6 Window Handle with 45°-Rest and Locking Button

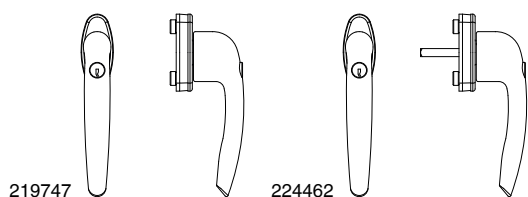








3.6.1 Lugs 10/12

							No
bronze	57	30	0	7	anodised	10	220655
			32	7	anodised	10	220641
			35	7	anodised	10	220648
champagne	57	30	0	7	anodised	10	220657
			32	7	anodised	10	220643
			35	7	anodised	10	220650
silver	57	30	0	7	anodised	10	220656
			32	7	anodised	10	220642
			35	7	anodised	10	220649
titanium	57	30	0	7	anodised	10	220654
			32	7	anodised	10	220640
			35	7	anodised	10	220647
traffic white RAL 9016	57	30	0	7	powder coated	10	220658
			32	7	powder coated	10	220644
			35	7	powder coated	10	220651



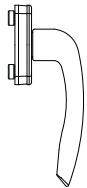
3.7 Window handles with key locking for tilt first fittings



3.7.1 Lugs 10/12								No
bronze	57	28	0	7	anodised	10	219745	
			32	7	anodised	10	224464	
			35	7	anodised	10	219738	
			38	7	anodised	10	224071	
			40	7	anodised	10	224079	
			43	7	anodised	10	224450	
champagne	57	28	0	7	anodised	10	219743	
			32	7	anodised	10	224465	
			35	7	anodised	10	219736	
			38	7	anodised	10	224069	
			40	7	anodised	10	224076	
			43	7	anodised	10	224451	
gold-F3	57	28	0	7	anodised	10	219744	
			32	7	anodised	10	224468	
			35	7	anodised	10	219737	
			38	7	anodised	10	224070	
			40	7	anodised	10	224078	
			43	7	anodised	10	224454	
grey brown RAL 8019	57	28	0	7	powder coated	10	219748	
			32	7	powder coated	10	224463	
			35	7	powder coated	10	219741	
			38	7	powder coated	10	224074	
			40	7	powder coated	10	224082	
			43	7	powder coated	10	224449	
silver	57	28	0	7	anodised	10	219742	
			32	7	anodised	10	224466	
			35	7	anodised	10	219222	
			38	7	anodised	10	224068	
			40	7	anodised	10	224075	
			43	7	anodised	10	224452	
titanium	57	28	0	7	anodised	10	219746	
			32	7	anodised	10	224467	
			35	7	anodised	10	219739	
			38	7	anodised	10	224072	
			40	7	anodised	10	224080	
			43	7	anodised	10	224453	
traffic white RAL 9016	57	28	0	7	powder coated	10	219747	
			32	7	powder coated	10	224462	
			35	7	powder coated	10	219740	
			38	7	powder coated	10	224073	
			40	7	powder coated	10	224081	
			43	7	powder coated	10	224448	

3.8 Handle and rosette sets

3.8.1 for Profile Cylinder



14607

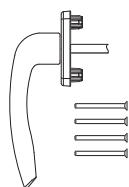
3.8.1.1 Internal Handle, Lugs 12









No

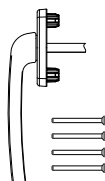
		57	30	7			
bronze	PC	57	30	7	anodised	10	14604
champagne	PC	57	30	7	anodised	10	14606
silver	PC	57	30	7	anodised	10	14605
titanium	PC	57	30	7	anodised	10	14603
traffic white RAL 9016	PC	57	30	7	PVC coated	10	14607





14610

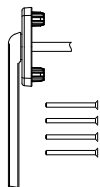
3.8.1.2 External Handle High, Lugs 12								Nº
bronze	PC	56-63	55	28	7	anodised	10	14608
		64-73	55	28	7	anodised	10	14611
		74-83	55	28	7	anodised	10	14614
		max. 90	55	28	7	anodised	10	101093
		max. 108	55	28	7	anodised	10	217740
champagne	PC	56-63	55	28	7	anodised	10	11589
		64-73	55	28	7	anodised	10	11591
		74-83	55	28	7	anodised	10	11605
		max. 90	55	28	7	anodised	10	101092
		max. 108	55	28	7	anodised	10	217741
silver	PC	56-63	55	28	7	anodised	10	14609
		64-73	55	28	7	anodised	10	14612
		74-83	55	28	7	anodised	10	14615
		max. 90	55	28	7	anodised	10	101091
		max. 108	55	28	7	anodised	10	217742
titanium	PC	56-63	55	28	7	anodised	10	11587
		64-73	55	28	7	anodised	10	11590
		74-83	55	28	7	anodised	10	11592
		max. 90	55	28	7	anodised	10	101094
		max. 108	55	28	7	anodised	10	217743
traffic white RAL 9016	PC	56-63	55	28	7	powder coated	10	14610
		64-73	55	28	7	powder coated	10	14613
		74-83	55	28	7	powder coated	10	14616
		max. 90	51	28	7	powder coated	10	101095
		max. 108	55	28	7	powder coated	10	217744



14619

3.8.1.3 External Handle Low, Lugs 12								
bronze	PC	56-63	32	28	7	anodised	10	14617
		64-73	32	28	7	anodised	10	14620
		74-83	32	28	7	anodised	10	14623
		max. 90	32	28	7	anodised	10	101100
		max. 108	32	28	7	anodised	10	217745
champagne	PC	56-63	32	28	7	anodised	10	11629
		64-73	32	28	7	anodised	10	11633
		74-83	32	28	7	anodised	10	11635
		max. 90	32	28	7	anodised	10	101099
		max. 108	32	28	7	anodised	10	217746
silver	PC	56-63	32	28	7	anodised	10	14618
		64-73	32	28	7	anodised	10	14621
		74-83	32	28	7	anodised	10	14624
		max. 90	32	28	7	anodised	10	101098
		max. 108	32	28	7	anodised	10	217747
titanium	PC	56-63	32	28	7	anodised	10	11606
		64-73	32	28	7	anodised	10	11631
		74-83	32	28	7	anodised	10	11634
		max. 90	32	28	7	anodised	10	101101
		max. 108	32	28	7	anodised	10	217748
traffic white RAL 9016	PC	56-63	32	28	7	powder coated	10	14619
		64-73	32	28	7	powder coated	10	14622
		74-83	32	28	7	powder coated	10	14625
		max. 90	32	28	7	powder coated	10	101102
		max. 108	32	28	7	powder coated	10	217749





14628

3.8.1.4 External Handle Flat, Lugs 12									No
bronze	PC	56-63	21	28	7	anodised	10	14626	
		64-73	21	28	7	anodised	10	14629	
		74-83	21	28	7	anodised	10	14632	
		max. 90	21	28	7	anodised	10	101107	
		max. 108	21	28	7	anodised	10	217750	
champagne	PC	56-63	21	28	7	anodised	10	11637	
		64-73	21	28	7	anodised	10	11639	
		74-83	21	28	7	anodised	10	11641	
		max. 90	21	28	7	anodised	10	101106	
		max. 108	21	28	7	anodised	10	217751	
silver	PC	56-63	21	28	7	anodised	10	14627	
		64-73	21	28	7	anodised	10	14630	
		74-83	21	28	7	anodised	10	14633	
		max. 90	21	28	7	anodised	10	101105	
		max. 108	21	28	7	anodised	10	217752	
titanium	PC	56-63	21	28	7	anodised	10	11636	
		64-73	21	28	7	anodised	10	11638	
		74-83	21	28	7	anodised	10	11640	
		max. 90	21	28	7	anodised	10	101108	
		max. 108	21	28	7	anodised	10	217753	
traffic white RAL 9016	PC	56-63	21	28	7	powder coated	10	14628	
		64-73	21	28	7	powder coated	10	14631	
		74-83	21	28	7	powder coated	10	14634	
		max. 90	21	28	7	powder coated	10	101109	
		max. 108	21	28	7	powder coated	10	217754	



3.8.2 for Round Cylinder



105235

3.8.2.1 Cylinder rosettes internal and external



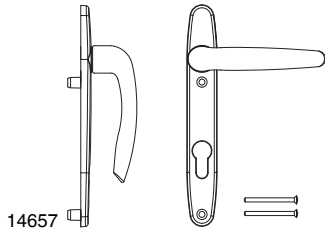
No

bronze	RC	20	105236
champagne	RC	20	105237
silver	RC	20	105238
titanium	RC	20	105239
traffic white RAL 9016	RC	20	105235










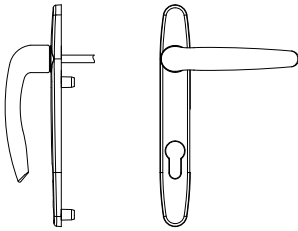
3.9 Door Handle

3.9.1 for Profile Cylinder E92, Screw Position 21.5 mm below Handle Spindle Centre (DIN 18255)













14657

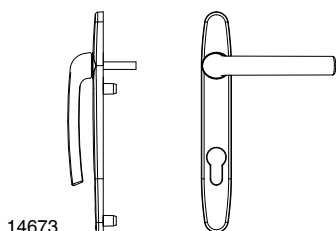
3.9.1.1 Internal Handle, Lugs 10									No
bronze	PC	64-73	55	92	28	8	anodised	10	14654
		max. 90	55	92	28	8	anodised	10	101139
		max. 108	55	92	28	8	anodised	10	217822
champagne	PC	64-73	55	92	28	8	anodised	10	14656
		max. 90	55	92	28	8	anodised	10	101138
		max. 108	55	92	28	8	anodised	10	217823
silver	PC	64-73	55	92	28	8	anodised	10	14655
		max. 90	55	92	28	8	anodised	10	101137
		max. 108	55	92	28	8	anodised	10	217824
titanium	PC	64-73	55	92	28	8	anodised	10	14653
		max. 90	55	92	28	8	anodised	10	101140
		max. 108	55	92	28	8	anodised	10	217825
traffic white RAL 9016	PC	64-73	55	92	28	8	powder coated	10	14657
		max. 90	55	92	28	8	powder coated	10	101141
		max. 108	55	92	28	8	powder coated	10	217792











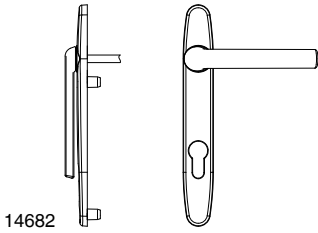
14664










3.9.1.2 External Handle High, Lugs 10												№
bronze	PC	56-63	55	92	28	8				anodised	10	14658
		64-73	55	92	28	8				anodised	10	14659
		max. 90	55	92	28	8				anodised	10	203081
		max. 108	55	92	28	8				anodised	10	217793
champagne	PC	56-63	55	92	28	8				anodised	10	11656
		64-73	55	92	28	8				anodised	10	11660
		max. 90	55	92	28	8				anodised	10	203080
		max. 108	55	92	28	8				anodised	10	217794
silver	PC	56-63	55	92	28	8				anodised	10	14661
		64-73	55	92	28	8				anodised	10	14662
		max. 90	55	92	28	8				anodised	10	203079
		max. 108	55	92	28	8				anodised	10	217795
titanium	PC	56-63	55	92	28	8				anodised	10	11653
		64-73	55	92	28	8				anodised	10	11659
		max. 90	55	92	28	8				anodised	10	203082
		max. 108	55	92	28	8				anodised	10	217796
traffic white RAL 9016	PC	56-63	55	92	28	8				powder coated	10	14664
		64-73	55	92	28	8				powder coated	10	14665
		max. 90	55	92	28	8				powder coated	10	203083
		max. 108	55	92	28	8				powder coated	10	217797





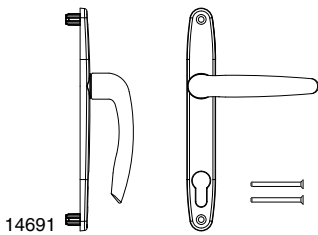
3.9.1.3 External Handle Low, Lugs 10										No
bronze	PC	56-63	32	92	28	8	anodised	10	14667	
		64-73	32	92	28	8	anodised	10	14668	
		max. 90	32	92	28	8	anodised	10	203088	
		max. 108	32	92	28	8	anodised	10	217798	
champagne	PC	56-63	32	92	28	8	anodised	10	11662	
		64-73	32	92	28	8	anodised	10	11664	
		max. 90	32	92	28	8	anodised	10	203087	
		max. 108	32	92	28	8	anodised	10	217799	
silver	PC	56-63	32	92	28	8	anodised	10	14670	
		64-73	32	92	28	8	anodised	10	14671	
		max. 90	32	92	28	8	anodised	10	203086	
		max. 108	32	92	28	8	anodised	10	217800	
titanium	PC	56-63	32	92	28	8	anodised	10	11661	
		64-73	32	92	28	8	anodised	10	11663	
		max. 90	32	92	28	8	anodised	10	203089	
		max. 108	32	92	28	8	anodised	10	217801	
traffic white RAL 9016	PC	56-63	32	92	28	8	powder coated	10	14673	
		64-73	32	92	28	8	powder coated	10	14674	
		max. 90	32	92	28	8	powder coated	10	203090	
		max. 108	32	92	28	8	powder coated	10	217802	



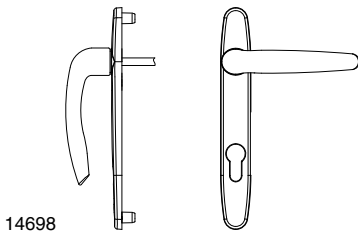
3.9.1.4 External Handle Flat, Lugs 10										
bronze	PC	56-63	21	92	28	8	anodised	10	14676	
		64-73	21	92	28	8	anodised	10	14677	
		max. 90	21	92	28	8	anodised	10	203095	
		max. 108	21	92	28	8	anodised	10	217803	
champagne	PC	56-63	21	92	28	8	anodised	10	11670	
		64-73	21	92	28	8	anodised	10	11683	
		max. 90	21	92	28	8	anodised	10	203094	
		max. 108	21	92	28	8	anodised	10	217804	
silver	PC	56-63	21	92	28	8	anodised	10	14679	
		64-73	21	92	28	8	anodised	10	14680	
		max. 90	21	92	28	8	anodised	10	203093	
		max. 108	21	92	28	8	anodised	10	217805	
titanium	PC	56-63	21	92	28	8	anodised	10	11665	
		64-73	21	92	28	8	anodised	10	11679	
		max. 90	21	92	28	8	anodised	10	203096	
		max. 108	21	92	28	8	anodised	10	217806	
traffic white RAL 9016	PC	56-63	21	92	28	8	powder coated	10	14682	
		64-73	21	92	28	8	powder coated	10	14683	
		max. 90	21	92	28	8	powder coated	10	203097	
		max. 108	21	92	28	8	powder coated	10	217826	



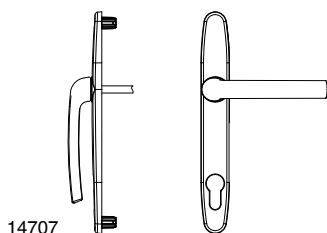
3.9.2 for Profile Cylinder E92, Screw Position 65 mm above Handle Spindle Centre










3.9.2.1 Internal Handle, Lugs 12									No
bronze	PC	64-73	55	92	28	8	anodised	10	14688
		max. 90	55	92	28	8	anodised	10	101146
champagne	PC	64-73	55	92	28	8	anodised	10	14690
		max. 90	55	92	28	8	anodised	10	101145
silver	PC	64-73	55	92	28	8	anodised	10	14689
		max. 90	55	92	28	8	anodised	10	101144
titanium	PC	64-73	55	92	28	8	anodised	10	14687
		max. 90	55	92	28	8	anodised	10	101147
traffic white RAL 9016	PC	64-73	55	92	28	8	powder coated	10	14691
		max. 90	55	92	28	8	powder coated	10	101148

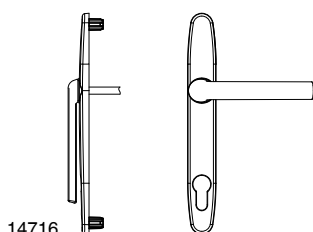


3.9.2.2 External Handle High, Lugs 12									No
bronze	PC	56-63	55	92	28	8	anodised	10	14692
		64-73	55	92	28	8	anodised	10	14693
		max. 90	55	92	28	8	anodised	10	203108
champagne	PC	56-63	55	92	28	8	anodised	10	11686
		64-73	55	92	28	8	anodised	10	11688
		max. 90	55	92	28	8	anodised	10	203107
silver	PC	56-63	55	92	28	8	anodised	10	14695
		64-73	55	92	28	8	anodised	10	14696
		max. 90	55	92	28	8	anodised	10	203106
titanium	PC	56-63	55	92	28	8	anodised	10	11685
		64-73	55	92	28	8	anodised	10	11687
		max. 90	55	92	28	8	anodised	10	203109
traffic white RAL 9016	PC	56-63	55	92	28	8	powder coated	10	14698
		64-73	55	92	28	8	powder coated	10	14699
		max. 90	55	92	28	8	powder coated	10	203110










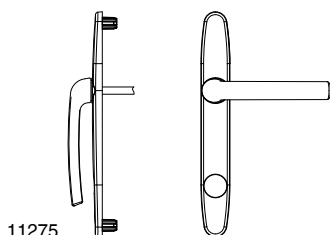
14707

3.9.2.3 External Handle Low, Lugs 12									No
bronze	PC	56-63	32	92	28	8	anodised	10	14701
		64-73	32	92	28	8	anodised	10	14702
		max. 90	32	92	28	8	anodised	10	203115
champagne	PC	56-63	32	92	28	8	anodised	10	11693
		64-73	32	92	28	8	anodised	10	11698
		max. 90	32	92	28	8	anodised	10	203114
silver	PC	56-63	32	92	28	8	anodised	10	14704
		64-73	32	92	28	8	anodised	10	14705
		max. 90	32	92	28	8	anodised	10	203113
titanium	PC	56-63	32	92	28	8	anodised	10	11689
		64-73	32	92	28	8	anodised	10	11694
		max. 90	32	92	28	8	anodised	10	203116
traffic white RAL 9016	PC	56-63	32	92	28	8	powder coated	10	14707
		64-73	32	92	28	8	powder coated	10	14708
		max. 90	32	92	28	8	powder coated	10	203117



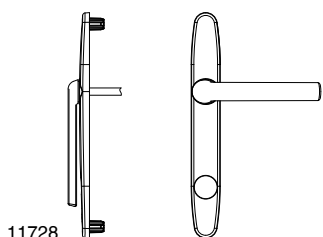
14716

3.9.2.4 External Handle Flat, Lugs 12									No
bronze	PC	56-63	21	92	28	8	anodised	10	14710
		64-73	21	92	28	8	anodised	10	14711
		max. 90	21	92	28	8	anodised	10	203123
champagne	PC	56-63	21	92	28	8	anodised	10	11700
		64-73	21	92	28	8	anodised	10	11716
		max. 90	21	92	28	8	anodised	10	203122
silver	PC	56-63	21	92	28	8	anodised	10	14713
		64-73	21	92	28	8	anodised	10	14714
		max. 90	21	92	28	8	anodised	10	203121
titanium	PC	56-63	21	92	28	8	anodised	10	11699
		64-73	21	92	28	8	anodised	10	11714
		max. 90	21	92	28	8	anodised	10	203124
traffic white RAL 9016	PC	56-63	21	92	28	8	powder coated	10	14716
		64-73	21	92	28	8	powder coated	10	14717
		max. 90	21	92	28	8	powder coated	10	203125



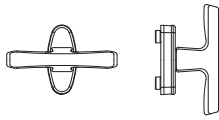
11275

3.9.3.3 External Handle Low, Lugs 12									No
bronze	RC	64-73	32	94	28	8	anodised	10	11273
		max. 90	32	94	28	8	anodised	10	203179
		max. 108	32	94	28	8	anodised	10	217835
champagne	RC	64-73	32	94	28	8	anodised	10	11272
		max. 90	32	94	28	8	anodised	10	203178
		max. 108	32	94	28	8	anodised	10	217836
silver	RC	64-73	32	94	28	8	anodised	10	11274
		max. 90	32	94	28	8	anodised	10	203177
		max. 108	32	94	28	8	anodised	10	216651
titanium	RC	64-73	32	94	28	8	anodised	10	11274
		max. 90	32	94	28	8	anodised	10	203180
		max. 108	32	94	28	8	anodised	10	217837
traffic white RAL 9016	RC	64-73	32	94	28	8	powder coated	10	11275
		max. 90	32	94	28	8	powder coated	10	203181
		max. 108	32	94	28	8	powder coated	10	217838







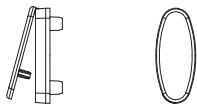
11278

3.9.3.4 External Handle Flat, Lugs 12									No
bronze	RC	64-73	21	94	28	8	anodised	10	11276
		max. 90	21	94	28	8	anodised	10	203186
		max. 108	32	94	28	8	anodised	10	217839
champagne	RC	64-73	21	94	28	8	anodised	10	11730
		max. 90	21	94	28	8	anodised	10	203185
		max. 108	21	94	28	8	anodised	10	217840
silver	RC	64-73	21	94	28	8	anodised	10	11277
		max. 90	21	94	28	8	anodised	10	203184
		max. 108	21	94	28	8	anodised	10	216652
titanium	RC	64-73	21	94	28	8	anodised	10	11278
		max. 90	21	94	28	8	anodised	10	203187
		max. 108	21	94	28	8	anodised	10	217841
traffic white RAL 9016	RC	64-73	21	94	28	8	powder coated	10	11278
		max. 90	21	94	28	8	powder coated	10	203188
		max. 108	21	94	28	8	powder coated	10	216685






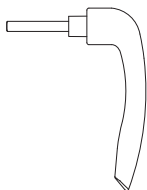
59774

3.10 T - Bar Handle, Lugs 10/12					No
bronze	30	7	anodised	20	59772
champagne	30	7	anodised	20	59771
silver	30	7	anodised	20	59770
titanium	30	7	anodised	20	59773
traffic white RAL 9016	30	7	powder coated	20	59774



59790

3.11 Handle rosettes with cover plate, Lugs 10/12				No	
bronze	30	30	30	20	59794
champagne	30	30	30	20	59792
silver	30	30	30	20	59791
titanium	30	30	30	20	59793
traffic white RAL 9016	30	30	Solid PVC	20	59790




59780

3.12 Detachable Handle					No
silver	43	7	anodised	20	59780



368392

3.13 Accessories for Rhapsody		No
titanium	100	368614
traffic white RAL 9016	100	368392

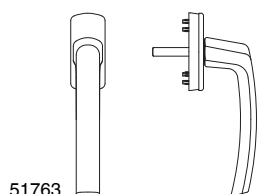


4 HARMONY

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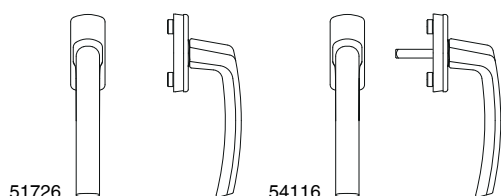
4 HARMONY

4.1 Window Handle



51763

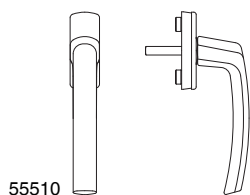
4.1.1 Lugs 10							No
bronze	55	28	32	7	anodised	20	53839
			35	7	anodised	20	28856
champagne	55	28	32	7	anodised	20	28898
			35	7	anodised	20	28854
grey brown RAL 8019	55	28	32	7	PVC coated	20	53840
			35	7	PVC coated	20	51856
silver	55	28	32	7	anodised	20	53972
			35	7	anodised	20	52116
silver (white rosette)	55	28	32	7	anodised	20	54114
			35	7	anodised	20	54124
titanium	55	28	32	7	anodised	20	28901
			35	7	anodised	20	28861
traffic white RAL 9016	55	28	32	7	PVC coated	20	51763
			35	7	PVC coated	20	51750









51726

54116

4.1.2 Lugs 10/12							No
bronze	55	28	0	7	anodised	20	28738
			32	7	anodised	20	54117
			35	7	anodised	20	28857
champagne	55	28	0	7	anodised	20	28719
			32	7	anodised	20	54115
			35	7	anodised	20	28855
grey brown RAL 8019	55	28	0	7	PVC coated	20	54133
			32	7	PVC coated	20	58976
			35	7	PVC coated	20	51974
silver	55	28	0	7	anodised	20	55821
			32	7	anodised	20	53979
			35	7	anodised	20	55508
silver (white rosette)	55	28	0	7	anodised	20	54132
			32	7	anodised	20	54119
			35	7	anodised	20	54129
titanium	55	28	0	7	anodised	20	20695
			32	7	anodised	20	28902
			35	7	anodised	20	28862
traffic white RAL 9016	55	28	0	7	PVC coated	20	51726
			32	7	PVC coated	20	54116
			35	7	PVC coated	20	51987

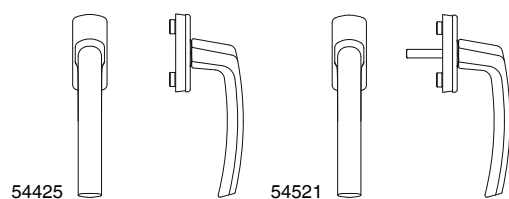








55510

4.1.3 Lugs 10/12, with narrow Rosette							No
champagne	55	24	32	7	anodised	20	55512
titanium	55	24	32	7	anodised	20	55511
traffic white RAL 9016	55	24	35	7	anodised	20	55517
			32	7	PVC coated	20	55510
			35	7	PVC coated	20	55516

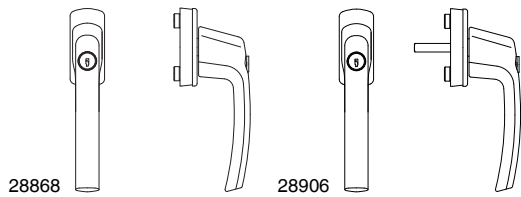








4.2 Window Handle with 45°-Rest



4.2.1 Lugs 10/12							No
bronze	55	28	0	7	anodised	20	23213
			32	7	anodised	20	21214
			35	7	anodised	20	51822
champagne	55	28	0	7	anodised	20	23223
			32	7	anodised	20	23273
			35	7	anodised	20	54171
grey brown RAL 8019	55	28	0	7	PVC coated	20	220598
			32	7	PVC coated	20	220596
			35	7	PVC coated	20	220597
silver	55	28	0	7	anodised	20	205152
			32	7	anodised	20	55713
			35	7	anodised	20	220629
silver (white rosette)	55	28	0	7	anodised	20	220602
			32	7	anodised	20	51762
			35	7	anodised	20	53805
titanium	55	28	0	7	anodised	20	23177
			32	7	anodised	20	20415
			35	7	anodised	20	54532
traffic white RAL 9016	55	28	0	7	PVC coated	20	54425
			32	7	PVC coated	20	54521
			35	7	PVC coated	20	51650

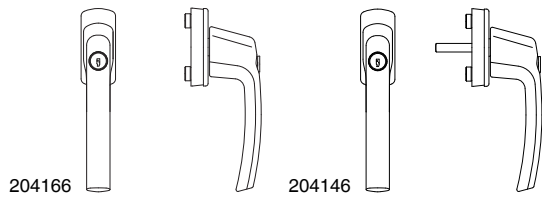
4.3 Window Handle with Key Locking









4.3.1 Lugs 10/12							No
bronze	55	28	0	7	anodised	10	28870
			32	7	anodised	10	23322
			35	7	anodised	10	21385
champagne	55	28	0	7	anodised	10	28869
			32	7	anodised	10	28900
			35	7	anodised	10	21328
grey brown RAL 8019	55	28	0	7	powder coated	10	54142
			32	7	powder coated	10	55662
			35	7	powder coated	10	53802
silver	55	28	0	7	anodised	10	55822
			32	7	anodised	10	54440
			35	7	anodised	10	220630
silver (white rosette)	55	28	0	7	anodised	10	54141
			32	7	anodised	10	22421
			35	7	anodised	10	54139
titanium	55	28	0	7	anodised	10	28871
			32	7	anodised	10	28903
			35	7	anodised	10	21329
traffic white RAL 9016	55	28	0	7	powder coated	10	28868
			32	7	powder coated	10	28906
			35	7	powder coated	10	21381

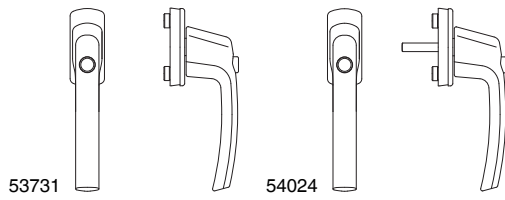


4.4 Window Handle with 45°-Rest and Key Locking



4.4.1 Lugs 10/12							No
bronze	55	28	0	7	anodised	10	204172
			32	7	anodised	10	204152
			35	7	anodised	10	204162
champagne	55	28	0	7	anodised	10	204171
			32	7	anodised	10	204151
			35	7	anodised	10	204161
grey brown RAL 8019	55	28	0	7	powder coated	10	204167
			32	7	powder coated	10	204147
			35	7	powder coated	10	204157
silver	55	28	0	7	anodised	10	204174
			32	7	anodised	10	204154
			35	7	anodised	10	204164
silver (white rosette)	55	28	0	7	anodised	10	204175
			32	7	anodised	10	204155
			35	7	anodised	10	204165
titanium	55	28	0	7	anodised	10	204173
			32	7	anodised	10	204153
			35	7	anodised	10	204163
traffic white RAL 9016	55	28	0	7	powder coated	10	204166
			32	7	powder coated	10	204146
			35	7	powder coated	10	204156

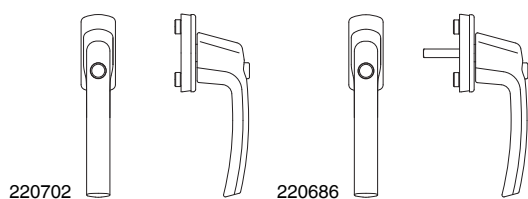
4.5 Window Handle with Locking Button









4.5.1 Lugs 10/12								No.
bronze	55	28	0	7	anodised		10	53732
			32	7	anodised		10	54417
			35	7	anodised		10	54061
champagne	55	28	0	7	anodised		10	53730
			32	7	anodised		10	54023
			35	7	anodised		10	54060
grey brown RAL 8019	55	28	0	7	powder coated		10	220595
			32	7	powder coated		10	55663
silver	55	28	0	7	anodised		10	54027
			32	7	anodised		10	55647
			35	7	anodised		10	55513
silver (white rosette)	55	28	0	7	anodised		10	54026
			32	7	anodised		10	54022
			35	7	anodised		10	54059
titanium	55	28	0	7	anodised		10	53733
			32	7	anodised		10	54025
			35	7	anodised		10	54064
traffic white RAL 9016	55	28	0	7	powder coated		10	53731
			32	7	powder coated		10	54024
			35	7	powder coated		10	54063

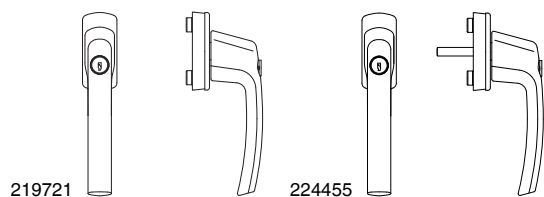








4.6 Window Handle with 45°-Rest and Locking Button



4.6.1 Lugs 10/12								No
bronze	55	28	0	7	anodised	10	220698	
			32	7	anodised	10	220682	
			35	7	anodised	10	220690	
champagne	55	28	0	7	anodised	10	220701	
			32	7	anodised	10	220685	
			35	7	anodised	10	220693	
grey brown RAL 8019	55	28	0	7	powder coated	10	220703	
			32	7	powder coated	10	220687	
			35	7	powder coated	10	220695	
silver	55	28	0	7	anodised	10	220699	
			32	7	anodised	10	220683	
			35	7	anodised	10	220691	
silver (white rosette)	55	28	0	7	anodised	10	220700	
			32	7	anodised	10	220684	
			35	7	anodised	10	220692	
titanium	55	28	0	7	anodised	10	220697	
			32	7	anodised	10	220681	
			35	7	anodised	10	220689	
traffic white RAL 9016	55	28	0	7	powder coated	10	220702	
			32	7	powder coated	10	220686	
			35	7	powder coated	10	220694	

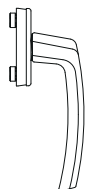
4.7 Window handles with key locking for tilt first fittings



4.7.1 Lugs 10/12							No
bronze	55	28	0	7	anodised	10	219719
			32	7	anodised	10	224457
			35	7	anodised	10	219713
			38	7	anodised	10	224420
			40	7	anodised	10	224425
			43	7	anodised	10	224433
champagne	55	28	0	7	anodised	10	219717
			32	7	anodised	10	224458
			35	7	anodised	10	219711
			38	7	anodised	10	224412
			40	7	anodised	10	224426
			43	7	anodised	10	224435
gold-F3	55	28	0	7	anodised	10	219718
			32	7	anodised	10	224461
			35	7	anodised	10	219712
			38	7	anodised	10	224422
			40	7	anodised	10	224429
			43	7	anodised	10	224447
grey brown RAL 8019	55	28	0	7	powder coated	10	219722
			32	7	powder coated	10	224456
			35	7	powder coated	10	219715
			38	7	powder coated	10	224419
			40	7	powder coated	10	224424
			43	7	powder coated	10	224431
silver	55	28	0	7	anodised	10	219716
			32	7	anodised	10	224459
			35	7	anodised	10	219223
			38	7	anodised	10	224411
			40	7	anodised	10	224427
			43	7	anodised	10	224437
titanium	55	28	0	7	anodised	10	219720
			32	7	anodised	10	224460
			35	7	anodised	10	219714
			38	7	anodised	10	224421
			40	7	anodised	10	224428
			43	7	anodised	10	224446
traffic white RAL 9016	55	28	0	7	powder coated	10	219721
			32	7	powder coated	10	224455
			35	7	powder coated	10	219568
			38	7	powder coated	10	224414
			40	7	powder coated	10	224423
			43	7	powder coated	10	224430



4.8 Handle and rosette sets



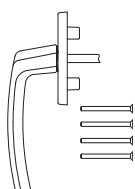
11072

4.8.1 Internal Handle, Lugs 12



No

Color	Material	55	28	7	Coating	10	No
black brown RAL 8022	PC	55	28	7	anodised	10	100540
bronze	PC	55	28	7	anodised	10	11073
champagne	PC	55	28	7	anodised	10	11071
silver	PC	55	28	7	anodised	10	11075
silver (white rosette)	PC	55	28	7	anodised	10	100585
titanium	PC	55	28	7	anodised	10	11074
traffic white RAL 9016	PC	55	28	7	PVC coated	10	11072



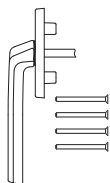
11078

4.8.2 External Handle High, Lugs 12









No

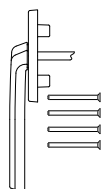
Color	Material	64-73	51	26	7	Coating	10	No
black brown RAL 8022	PC	64-73	51	26	7	anodised	10	10981
		max. 90	51	26	7	anodised	10	101200
		max. 108	51	26	7	anodised	10	103324
bronze	PC	64-73	51	26	7	anodised	10	11079
		max. 90	51	26	7	anodised	10	101197
		max. 108	51	26	7	anodised	10	103300
champagne	PC	64-73	51	26	7	anodised	10	11077
		max. 90	51	26	7	anodised	10	101196
		max. 108	51	26	7	anodised	10	103323
silver	PC	64-73	51	26	7	anodised	10	11081
		max. 90	51	26	7	anodised	10	101195
		max. 108	51	26	7	anodised	10	103228
titanium	PC	64-73	51	26	7	anodised	10	11080
		max. 90	51	26	7	anodised	10	101198
		max. 108	51	26	7	anodised	10	103301
traffic white RAL 9016	PC	64-73	51	26	7	powder coated	10	11078
		max. 90	51	26	7	powder coated	10	101199
		max. 108	51	26	7	powder coated	10	103231









11084

4.8.3 External Handle Low, Lugs 12								No
black brown RAL 8022	PC	64-73	32	26	7	anodised	10	10982
		max. 90	32	26	7	anodised	10	101207
		max. 108	32	26	7	anodised	10	103328
bronze	PC	64-73	32	26	7	anodised	10	11085
		max. 90	32	26	7	anodised	10	101204
		max. 108	32	26	7	anodised	10	103326
champagne	PC	64-73	32	26	7	anodised	10	11083
		max. 90	32	26	7	anodised	10	101203
		max. 108	32	26	7	anodised	10	103325
silver	PC	64-73	32	26	7	anodised	10	11088
		max. 90	32	26	7	anodised	10	101202
		max. 108	32	26	7	anodised	10	103229
titanium	PC	64-73	32	26	7	anodised	10	11086
		max. 90	32	26	7	anodised	10	101205
		max. 108	32	26	7	anodised	10	103327
traffic white RAL 9016	PC	64-73	32	26	7	powder coated	10	11084
		max. 90	32	26	7	powder coated	10	101206
		max. 108	32	26	7	powder coated	10	103232



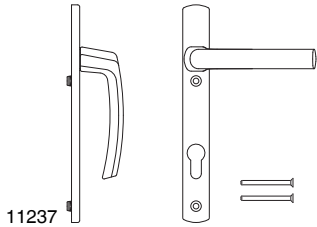


54459










4.8.4 External Handle Flat, Lugs 12								No
black brown RAL 8022	PC	64-73	21	26	7	anodised	10	100541
		max. 90	21	26	7	anodised	10	101228
		max. 108	21	26	7	anodised	10	103332
bronze	PC	64-73	21	26	7	anodised	10	54463
		max. 90	21	26	7	anodised	10	101225
		max. 108	21	26	7	anodised	10	103330
champagne	PC	64-73	21	26	7	anodised	10	54460
		max. 90	21	26	7	anodised	10	101224
		max. 108	21	26	7	anodised	10	103329
silver	PC	64-73	21	26	7	anodised	10	54461
		max. 90	21	26	7	anodised	10	101223
		max. 108	21	26	7	anodised	10	103230
titanium	PC	64-73	21	26	7	anodised	10	54462
		max. 90	21	26	7	anodised	10	101226
		max. 108	21	26	7	anodised	10	103331
traffic white RAL 9016	PC	64-73	21	26	7	powder coated	10	54459
		max. 90	21	26	7	powder coated	10	101227
		max. 108	21	26	7	powder coated	10	103233

4.9 Door Handle

4.9.1 for Profile Cylinder E92, Screw Position 21.5 mm below Handle Spindle Centre (DIN 18255)

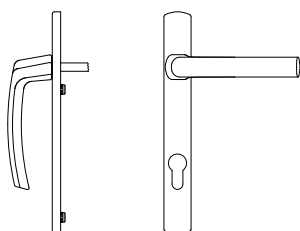


11237

4.9.1.1 Internal Handle, Lugs 10										
black brown RAL 8022	PC	64-73	51	92	26	8	anodised	10	11242	
		max. 90	51	92	26	8	anodised	10	101185	
		max. 108	51	92	26	8	anodised	10	217732	
bronze	PC	64-73	51	92	26	8	anodised	10	11238	
		max. 90	51	92	26	8	anodised	10	101182	
		max. 108	55	92	28	8	anodised	10	217245	
champagne	PC	64-73	51	92	26	8	anodised	10	11236	
		max. 90	51	92	26	8	anodised	10	101181	
		max. 108	51	92	26	8	anodised	10	217731	
silver	PC	64-73	51	92	26	8	anodised	10	11241	
		max. 90	51	92	26	8	anodised	10	101180	
		max. 108	51	92	26	8	anodised	10	217733	
titanium	PC	64-73	51	92	26	8	anodised	10	11239	
		max. 90	51	92	26	8	anodised	10	101183	
		max. 108	55	92	28	8	anodised	10	217246	
traffic white RAL 9016	PC	64-73	51	92	26	8	powder coated	10	11237	
		max. 90	51	92	26	8	powder coated	10	101184	
		max. 108	55	92	28	8	powder coated	10	217244	

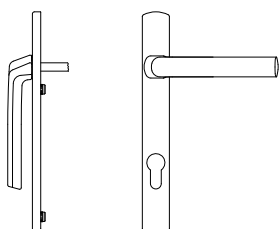


11411

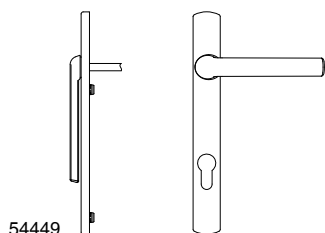


4.9.1.2 External Handle High, Lugs 10										No
black brown RAL 8022	PC	64-73	51	92	26	8	anodised	10	11416	
		max. 90	51	92	26	8	anodised	10	203218	
		max. 108	51	92	26	8	anodised	10	217735	
bronze	PC	64-73	51	92	26	8	anodised	10	11412	
		max. 90	51	92	26	8	anodised	10	203215	
		max. 108	55	92	28	8	anodised	10	217247	
champagne	PC	64-73	51	92	26	8	anodised	10	11410	
		max. 90	51	92	26	8	anodised	10	203214	
		max. 108	51	92	26	8	anodised	10	217734	
silver	PC	64-73	51	92	26	8	anodised	10	11415	
		max. 90	51	92	26	8	anodised	10	203213	
		max. 108	55	92	28	8	anodised	10	216647	
titanium	PC	64-73	51	92	26	8	anodised	10	11413	
		max. 90	51	92	26	8	anodised	10	203216	
		max. 108	55	92	28	8	anodised	10	217248	
traffic white RAL 9016	PC	64-73	51	92	26	8	powder coated	10	11411	
		max. 90	51	92	26	8	powder coated	10	203217	
		max. 108	55	92	28	8	powder coated	10	216682	

11505



4.9.1.3 External Handle Low, Lugs 10										No
black brown RAL 8022	PC	64-73	32	92	26	8	anodised	10	11421	
		max. 90	32	92	26	8	anodised	10	203225	
		max. 108	32	92	26	8	anodised	10	217737	
bronze	PC	64-73	32	92	26	8	anodised	10	11418	
		max. 90	32	92	26	8	anodised	10	203222	
		max. 108	32	92	28	8	anodised	10	217250	
champagne	PC	64-73	32	92	26	8	anodised	10	11417	
		max. 90	32	92	26	8	anodised	10	203221	
		max. 108	32	92	26	8	anodised	10	217736	
silver	PC	64-73	32	92	26	8	anodised	10	11420	
		max. 90	32	92	26	8	anodised	10	203220	
		max. 108	32	92	28	8	anodised	10	216648	
titanium	PC	64-73	32	92	26	8	anodised	10	11419	
		max. 90	32	92	26	8	anodised	10	203223	
		max. 108	32	92	28	8	anodised	10	217251	
traffic white RAL 9016	PC	64-73	32	92	26	8	powder coated	10	11505	
		max. 90	32	92	26	8	powder coated	10	203224	
		max. 108	32	92	28	8	powder coated	10	217249	

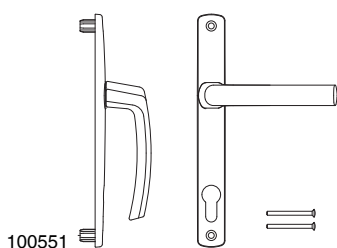


54449

4.9.1.4 External Handle Flat, Lugs 10										No
black brown RAL 8022	PC	64-73	21	92	26	8		anodised	10	100544
		max. 90	21	92	26	8		anodised	10	203232
		max. 108	21	92	26	8		anodised	10	217739
bronze	PC	64-73	21	92	26	8		anodised	10	54453
		max. 90	21	92	26	8		anodised	10	203229
		max. 108	21	92	28	8		anodised	10	217252
champagne	PC	64-73	21	92	26	8		anodised	10	54450
		max. 90	21	92	26	8		anodised	10	203228
		max. 108	21	92	26	8		anodised	10	217738
silver	PC	64-73	21	92	26	8		anodised	10	54451
		max. 90	21	92	26	8		anodised	10	203227
		max. 108	21	92	28	8		anodised	10	216649
titanium	PC	64-73	21	92	26	8		anodised	10	54452
		max. 90	21	92	26	8		anodised	10	203230
		max. 108	21	92	28	8		anodised	10	217253
traffic white RAL 9016	PC	64-73	21	92	26	8		powder coated	10	54449
		max. 90	21	92	26	8		powder coated	10	203231
		max. 108	21	92	28	8		powder coated	10	216683

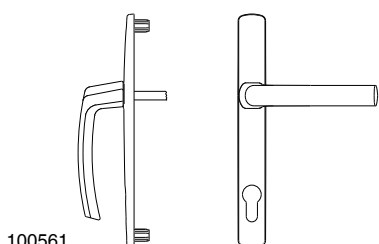


4.9.2 for Profile Cylinder E92, Screw Position 65 mm above Handle Spindle Centre



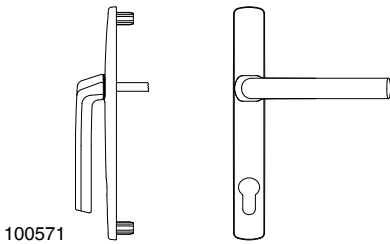
100551

4.9.2.1 Internal Handle, Lugs 12										No
black brown RAL 8022	PC	64-73	51	92	26	8	anodised	10	100549	
		max. 90	51	92	26	8	anodised	10	101178	
bronze	PC	64-73	51	92	26	8	anodised	10	100548	
		max. 90	51	92	26	8	anodised	10	101175	
champagne	PC	64-73	51	92	26	8	anodised	10	100546	
		max. 90	51	92	26	8	anodised	10	101174	
silver	PC	64-73	51	92	26	8	anodised	10	100545	
		max. 90	51	92	26	8	anodised	10	101173	
titanium	PC	64-73	51	92	26	8	anodised	10	100547	
		max. 90	51	92	26	8	anodised	10	101176	
traffic white RAL 9016	PC	64-73	51	92	26	8	powder coated	10	100551	
		max. 90	51	92	26	8	powder coated	10	101177	



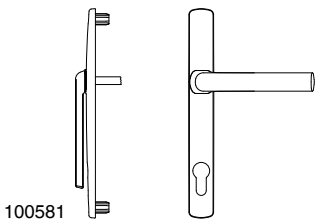
100561

4.9.2.2 External Handle High, Lugs 12										No
black brown RAL 8022	PC	64-73	51	92	26	8	anodised	10	100559	
		max. 90	51	92	26	8	anodised	10	203197	
bronze	PC	64-73	51	92	26	8	anodised	10	100558	
		max. 90	51	92	26	8	anodised	10	203194	
champagne	PC	64-73	51	92	26	8	anodised	10	100556	
		max. 90	51	92	26	8	anodised	10	203193	
silver	PC	64-73	51	92	26	8	anodised	10	100555	
		max. 90	51	92	26	8	anodised	10	203192	
titanium	PC	64-73	51	92	26	8	anodised	10	100557	
		max. 90	51	92	26	8	anodised	10	203195	
traffic white RAL 9016	PC	64-73	51	92	26	8	powder coated	10	100561	
		max. 90	51	92	26	8	powder coated	10	203196	



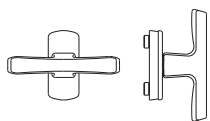
100571

4.9.2.3 External Handle Low, Lugs 12										No
black brown RAL 8022	PC	64-73	32	92	26	8		anodised	10	100569
		max. 90	32	92	26	8		anodised	10	203204
bronze	PC	64-73	32	92	26	8		anodised	10	100568
		max. 90	32	92	26	8		anodised	10	203201
champagne	PC	64-73	32	92	26	8		anodised	10	100566
		max. 90	32	92	26	8		anodised	10	203200
silver	PC	64-73	32	92	26	8		anodised	10	100565
		max. 90	32	92	26	8		anodised	10	203199
titanium	PC	64-73	32	92	26	8		anodised	10	100567
		max. 90	32	92	26	8		anodised	10	203202
traffic white RAL 9016	PC	64-73	32	92	26	8		powder coated	10	100571
		max. 90	32	92	26	8		powder coated	10	203203







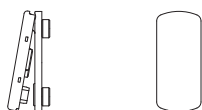
100581

4.9.2.4 External Handle Flat, Lugs 12										No
black brown RAL 8022	PC	64-73	21	92	26	8		anodised	10	100579
		max. 90	21	92	26	8		anodised	10	203211
bronze	PC	64-73	21	92	26	8		anodised	10	100578
		max. 90	21	92	26	8		anodised	10	203208
champagne	PC	64-73	21	92	26	8		anodised	10	100576
		max. 90	21	92	26	8		anodised	10	203207
silver	PC	64-73	21	92	26	8		anodised	10	100575
		max. 90	21	92	26	8		anodised	10	203206
titanium	PC	64-73	21	92	26	8		anodised	10	100577
		max. 90	21	92	26	8		anodised	10	203209
traffic white RAL 9016	PC	64-73	21	92	26	8		powder coated	10	100581
		max. 90	21	92	26	8		powder coated	10	203210






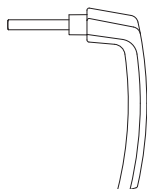
29008

4.10 T Bar Handle, Lugs 10/12					No
black brown RAL 8022	28	7	anodised	20	220636
bronze	28	7	anodised	20	220635
champagne	28	7	anodised	20	29010
silver	28	7	anodised	20	55746
silver (white rosette)	28	7	anodised	20	29011
titanium	28	7	anodised	20	29009
traffic white RAL 9016	28	7	powder coated	20	29008







52202

4.11 Handle rosettes with cover plate, lugs 10/12				No
black brown RAL 8022	28	anodised	20	28653
bronze	28	anodised	20	28656
champagne	28	anodised	20	28657
silver	28	anodised	20	20506
silver (white rosette)	28	anodised	20	54161
titanium	28	anodised	20	28651
white	28	powder coated	20	52202



23439

4.12 Detachable Handle					No
champagne	43	7	anodised	20	27411
silver	43	7	anodised	20	54341
traffic white RAL 9016	43	7	powder coated	20	23439

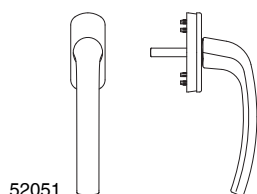








5 SYMPHONY

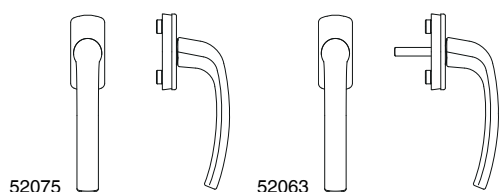
5.1	Window Handle	56
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5 SYMPHONY

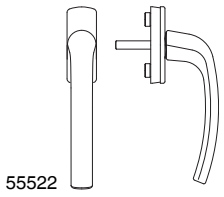
5.1 Window Handle









5.1.1 Lugs 10							No
bronze	57	28	32	7	anodised	20	52053
			35	7	anodised	20	52056
champagne	57	28	32	7	anodised	20	52050
			35	7	anodised	20	52054
grey brown RAL 8019	57	28	32	7	PVC coated	20	54036
			35	7	PVC coated	20	54038
silver	57	28	32	7	anodised	20	54030
			35	7	anodised	20	54031
silver (white rosette)	57	28	32	7	anodised	20	53930
			35	7	anodised	20	53931
titanium	57	28	32	7	anodised	20	52052
			35	7	anodised	20	52057
traffic white RAL 9016	57	28	32	7	PVC coated	20	52051
			35	7	PVC coated	20	52055



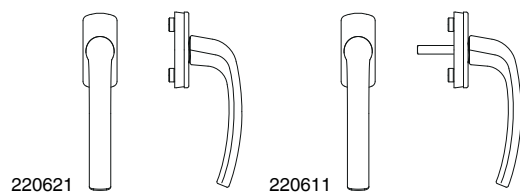
5.1.2 Lugs 10/12							No
bronze	57	28	0	7	anodised	20	52076
			32	7	anodised	20	52064
			35	7	anodised	20	52068
champagne	57	28	0	7	anodised	20	52074
			32	7	anodised	20	52062
			35	7	anodised	20	52066
grey brown RAL 8019	57	28	0	7	PVC coated	20	220603
			32	7	PVC coated	20	54037
			35	7	PVC coated	20	54039
silver	57	28	0	7	anodised	20	220564
			32	7	anodised	20	54032
			35	7	anodised	20	54033
silver (white rosette)	57	28	0	7	anodised	20	54168
			32	7	anodised	20	53932
			35	7	anodised	20	53933
titanium	57	28	0	7	anodised	20	52108
			32	7	anodised	20	52065
			35	7	anodised	20	52069
traffic white RAL 9016	57	28	0	7	PVC coated	20	52075
			32	7	PVC coated	20	52063
			35	7	PVC coated	20	52067










5.1.3 Lugs 10/12, with narrow Rosette							No
champagne	57	24	32	7	anodised	20	55524
			35	7	anodised	20	55530
titanium	57	24	32	7	anodised	20	55523
			35	7	anodised	20	55529
traffic white RAL 9016	57	24	32	7	PVC coated	20	55522
			35	7	PVC coated	20	55528

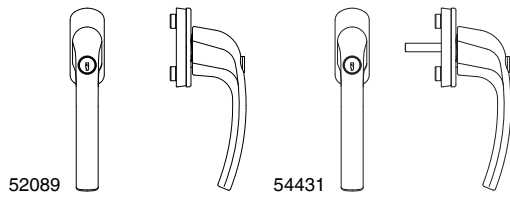








5.2 Window Handle with 45°-Rest



5.2.1 Lugs 10/12								No
bronze	57	28	0	7	anodised	20	220624	
			32	7	anodised	20	59095	
			35	7	anodised	20	220617	
champagne	57	28	0	7	anodised	20	220623	
			32	7	anodised	20	54179	
			35	7	anodised	20	220616	
grey brown RAL 8019	57	28	0	7	PVC coated	20	220622	
			32	7	PVC coated	20	220612	
			35	7	PVC coated	20	220615	
silver	57	28	0	7	anodised	20	220628	
			32	7	anodised	20	59094	
			35	7	anodised	20	59192	
silver (white rosette)	57	28	0	7	anodised	20	220627	
			32	7	anodised	20	220613	
			35	7	anodised	20	220620	
titanium	57	28	0	7	anodised	20	220625	
			32	7	anodised	20	59096	
			35	7	anodised	20	220618	
traffic white RAL 9016	57	28	0	7	PVC coated	20	220621	
			32	7	PVC coated	20	220611	
			35	7	PVC coated	20	220614	

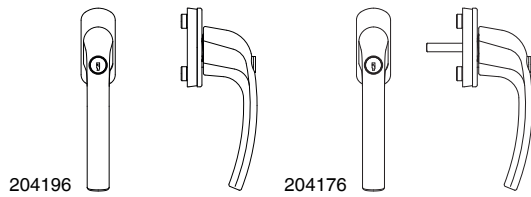
5.3 Window Handle with Key Locking









5.3.1 Lugs 10/12							No
bronze	57	28	0	7	anodised	10	52090
			32	7	anodised	10	54437
			35	7	anodised	10	54042
champagne	57	28	0	7	anodised	10	52088
			32	7	anodised	10	54434
			35	7	anodised	10	54040
grey brown RAL 8019	57	28	0	7	powder coated	10	54029
			32	7	powder coated	10	54432
			35	7	powder coated	10	54411
silver	57	28	0	7	anodised	10	54034
			32	7	anodised	10	54433
			35	7	anodised	10	54410
silver (white rosette)	57	28	0	7	anodised	10	53634
			32	7	anodised	10	220631
			35	7	anodised	10	54175
titanium	57	28	0	7	anodised	10	52091
			32	7	anodised	10	54435
			35	7	anodised	10	54043
traffic white RAL 9016	57	28	0	7	powder coated	10	52089
			32	7	powder coated	10	54431
			35	7	powder coated	10	54041

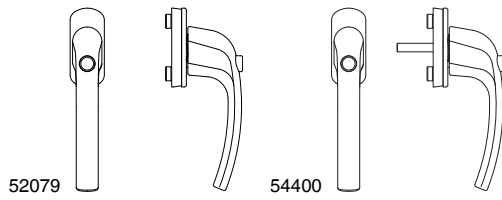








5.4 Window Handle with 45°-Rest with Key Locking



5.4.1 Lugs 10/12								No
bronze	57	28	0	7	anodised	10	204202	
			32	7	anodised	10	204182	
			35	7	anodised	10	204192	
champagne	57	28	0	7	anodised	10	204201	
			32	7	anodised	10	204181	
			35	7	anodised	10	204191	
grey brown RAL 8019	57	28	0	7	powder coated	10	204197	
			32	7	powder coated	10	204177	
			35	7	powder coated	10	204187	
silver	57	28	0	7	anodised	10	204204	
			32	7	anodised	10	204184	
			35	7	anodised	10	204194	
silver (white rosette)	57	28	0	7	anodised	10	204205	
			32	7	anodised	10	204185	
			35	7	anodised	10	204195	
titanium	57	28	0	7	anodised	10	204203	
			32	7	anodised	10	204183	
			35	7	anodised	10	204193	
traffic white RAL 9016	57	28	0	7	powder coated	10	204196	
			32	7	powder coated	10	204176	
			35	7	powder coated	10	204186	

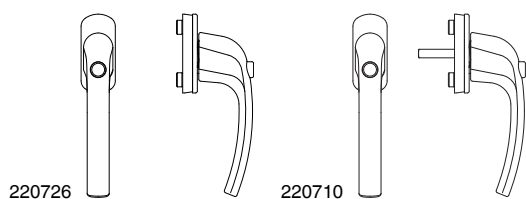
5.5 Window Handle with Locking Button









5.5.1 Lugs 10/12							No
bronze	57	28	0	7	anodised	10	52080
			32	7	anodised	10	55646
			35	7	anodised	10	54067
champagne	57	28	0	7	anodised	10	52078
			32	7	anodised	10	54403
			35	7	anodised	10	54066
grey brown RAL 8019	57	28	0	7	powder coated	10	54028
			32	7	powder coated	10	54401
			35	7	powder coated	10	54068
silver	57	28	0	7	anodised	10	54035
			32	7	anodised	10	54402
			35	7	anodised	10	54065
silver (white rosette)	57	28	0	7	anodised	10	54176
			32	7	anodised	10	55648
			35	7	anodised	10	54182
titanium	57	28	0	7	anodised	10	52081
			32	7	anodised	10	54404
			35	7	anodised	10	54070
traffic white RAL 9016	57	28	0	7	powder coated	10	52079
			32	7	powder coated	10	54400
			35	7	powder coated	10	54069

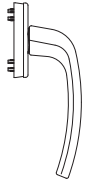


5.6 Window Handle with 45°-Rest with Locking Button



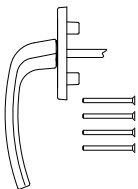
5.6.1 Lugs 10/12								No
bronze	57	28	0	7	anodised	10	220722	
			32	7	anodised	10	220706	
			35	7	anodised	10	220714	
champagne	57	28	0	7	anodised	10	220725	
			32	7	anodised	10	220709	
			35	7	anodised	10	220717	
grey brown RAL 8019	57	28	0	7	powder coated	10	220727	
			32	7	powder coated	10	220711	
			35	7	powder coated	10	220719	
silver	57	28	0	7	anodised	10	220723	
			32	7	anodised	10	220707	
			35	7	anodised	10	220715	
silver (white rosette)	57	28	0	7	anodised	10	220724	
			32	7	anodised	10	220708	
			35	7	anodised	10	220716	
titanium	57	28	0	7	anodised	10	220721	
			32	7	anodised	10	220705	
			35	7	anodised	10	220713	
traffic white RAL 9016	57	28	0	7	powder coated	10	220726	
			32	7	powder coated	10	220710	
			35	7	powder coated	10	220718	

5.7 Handle and rosette sets



11063

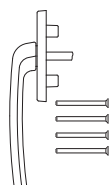
5.7.1 Internal Handle, Lugs 12										No
bronze	PC	57	28	7	anodised	10	11064			
champagne	PC	57	28	7	anodised	10	11062			
grey brown RAL 8019	PC	57	28	7	PVC coated	10	11068			
silver	PC	57	28	7	anodised	10	11067			
silver (white rosette)	PC	57	28	7	anodised	10	100586			
titanium	PC	57	28	7	anodised	10	11065			
traffic white RAL 9016	PC	57	28	7	PVC coated	10	11063			









14485

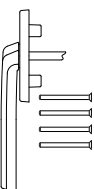
5.7.2 External Handle High, Lugs 12										No
black brown RAL 8022	PC	max. 90	53	26	7	anodised	10	101214		
		max. 108	53	26	7	anodised	10	217781		
bronze	PC	64-73	53	26	7	anodised	10	14488		
		max. 90	53	26	7	anodised	10	101211		
		max. 108	53	26	7	anodised	10	217778		
champagne	PC	64-73	53	26	7	anodised	10	14486		
		max. 90	53	26	7	anodised	10	101210		
		max. 108	53	26	7	anodised	10	217780		
grey brown RAL 8019	PC	64-73	53	26	7	powder coated	10	11069		
		max. 108	53	26	7	powder coated	10	217773		
		64-73	53	26	7	anodised	10	14484		
silver	PC	max. 90	53	26	7	anodised	10	101209		
		max. 108	53	26	7	anodised	10	217782		
		64-73	53	26	7	anodised	10	14487		
titanium	PC	max. 90	53	26	7	anodised	10	101212		
		max. 108	53	26	7	anodised	10	217783		
		64-73	53	26	7	powder coated	10	14485		
traffic white RAL 9016	PC	max. 90	53	26	7	powder coated	10	101213		
		max. 108	53	26	7	powder coated	10	217784		
		64-73	53	26	7	powder coated	10	14485		





14491

5.7.3 External Handle Low, Lugs 12								No
black brown RAL 8022	PC	max. 90	32	26	7	anodised	10	101221
		max. 108	32	26	7	anodised	10	217788
bronze	PC	64-73	32	26	7	anodised	10	14494
		max. 90	32	26	7	anodised	10	101218
champagne	PC	max. 108	32	26	7	anodised	10	217786
		64-73	32	26	7	anodised	10	14492
grey brown RAL 8019	PC	max. 90	32	26	7	anodised	10	101217
		max. 108	32	26	7	anodised	10	217787
silver	PC	64-73	32	26	7	powder coated	10	11070
		max. 90	32	26	7	powder coated	10	217785
titanium	PC	max. 108	32	26	7	anodised	10	14490
		64-73	32	26	7	anodised	10	217789
traffic white RAL 9016	PC	max. 90	32	26	7	anodised	10	14493
		max. 108	32	26	7	anodised	10	101219
		64-73	32	26	7	powder coated	10	217790
		max. 90	32	26	7	powder coated	10	14491
		max. 108	32	26	7	powder coated	10	101220
								217791






54459

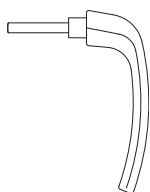
5.7.4 External Handle Flat, Lugs 12									No
black brown RAL 8022	PC	64-73	21	26	7	anodised	10	100541	
		max. 90	21	26	7	anodised	10	101228	
		max. 108	21	26	7	anodised	10	103332	
bronze	PC	64-73	21	26	7	anodised	10	54463	
		max. 90	21	26	7	anodised	10	101225	
		max. 108	21	26	7	anodised	10	103330	
champagne	PC	64-73	21	26	7	anodised	10	54460	
		max. 90	21	26	7	anodised	10	101224	
		max. 108	21	26	7	anodised	10	103329	
silver	PC	64-73	21	26	7	anodised	10	54461	
		max. 90	21	26	7	anodised	10	101223	
		max. 108	21	26	7	anodised	10	103230	
titanium	PC	64-73	21	26	7	anodised	10	54462	
		max. 90	21	26	7	anodised	10	101226	
		max. 108	21	26	7	anodised	10	103331	
traffic white RAL 9016	PC	64-73	21	26	7	powder coated	10	54459	
		max. 90	21	26	7	powder coated	10	101227	
		max. 108	21	26	7	powder coated	10	103233	









52202

5.8 Handle rosettes with cover plate, lugs 10/13				Nº
black brown RAL 8022	28	anodised	20	28653
bronze	28	anodised	20	28656
champagne	28	anodised	20	28657
silver	28	anodised	20	20506
silver (white rosette)	28	anodised	20	54161
titanium	28	anodised	20	28651
white	28	powder coated	20	52202



54014

5.9 Detachable Handle					Nº
champagne	43	7	anodised	20	54013
traffic white RAL 9016	43	7	powder coated	20	54014

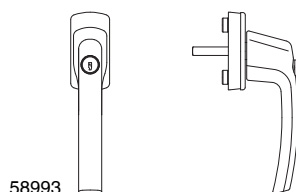








6 TRESOR

- 6.1 Window handles with key locking, for burglar resistant windows according to standard EN 1627 – 1630 RC 1 – RC 3 _____ 68
- 6.2 Window handles with key locking and 45° stop, for windows with basic burglar resistance 69
- 6.3 Window handles with locking button, for burglar resistant windows according to standard EN 1627 – 1630 RC 1 – RC 3 _____ 70

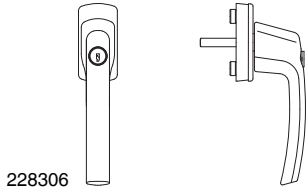
6 TRESOR

6.1 Window handles with key locking, for burglar resistant windows according to standard EN 1627 – 1630 RC 1 – RC 3



6.1.1 Lugs 10/12							No
bronze	58	32	32	7	painted	10	58980
			35	7	painted	10	55711
			38	7	painted	10	208138
			40	7	painted	10	207287
			43	7	painted	10	216832
champagne	58	32	32	7	painted	10	58981
			35	7	painted	10	55710
			38	7	painted	10	208137
			40	7	painted	10	216764
			43	7	painted	10	216831
grey brown RAL 8019	58	32	32	7	powder coated	10	58935
			35	7	powder coated	10	58932
			38	7	powder coated	10	216849
			40	7	powder coated	10	215360
			43	7	powder coated	10	216850
silver	58	32	32	7	painted	10	58934
			35	7	painted	10	58876
			38	7	painted	10	208136
			40	7	painted	10	207286
			43	7	painted	10	215362
silver (white rosette)	58	32	32	7	painted	10	58993
			35	7	painted	10	55709
titanium	58	32	32	7	painted	10	58988
			35	7	painted	10	55712
			38	7	painted	10	208143
			40	7	painted	10	216187
			43	7	painted	10	216833
traffic white RAL 9016	58	32	32	7	powder coated	10	58933
			35	7	powder coated	10	55280
			38	7	powder coated	10	204301
			40	7	powder coated	10	207285
			43	7	powder coated	10	216834

6.2 Window handles with key locking and 45° stop, for windows with basic burglar resistance



228306

6.2.1 Lugs 10/12



NO

traffic white RAL 9016

58

32

35

7

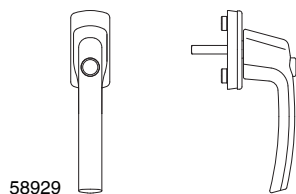
powder coated







10

228306



6.3 Window handles with locking button, for burglar resistant windows according to standard EN 1627 – 1630 RC 1 – RC 3



6.3.1 Lugs 10/12							No
bronze	58	32	32	7	7	10	58984
			35	7	7	10	55707
			38	7	7	10	209359
			40	7	7	10	207284
			43	7	7	10	224731
champagne	58	32	32	7	7	10	58985
			35	7	7	10	55706
			38	7	7	10	209358
			40	7	7	10	215355
			43	7	7	10	224730
grey brown RAL 8019	58	32	32	7	7	10	58931
			35	7	7	10	58928
			38	7	7	10	216843
			40	7	7	10	215361
			43	7	7	10	216844
silver	58	32	32	7	7	10	58930
			35	7	7	10	58875
			38	7	7	10	209357
			40	7	7	10	207283
			43	7	7	10	224729
silver (white rosette)	58	32	32	7	7	10	58994
			35	7	7	10	55705
titanium	58	32	32	7	7	10	58989
			35	7	7	10	55708
			38	7	7	10	209360
			40	7	7	10	215359
			43	7	7	10	224728
traffic white RAL 9016	58	32	32	7	7	10	58929
			35	7	7	10	55270
			38	7	7	10	209361
			40	7	7	10	207282
			43	7	7	10	224727

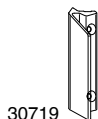




7 Handles for Lift and Slide

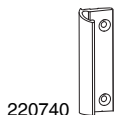
7.1	Finger Pull Aluminium	72
7.2	Finger Pull PVC	72



7 Handles for Lift and Slide

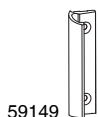
7.1 Finger Pull Aluminium





7.1.1 Finger Pull Aluminium BASE			No
black brown RAL 8022	anodised	20	39589
bronze	anodised	20	38162
champagne	anodised	20	30290
silver	anodised	20	36870
titanium	anodised	20	38163
traffic white RAL 9016	powder coated	20	30719

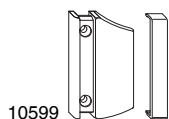




7.1.2 Finger Pull Aluminium BASE - L			No
black brown RAL 8022	anodised	15	220743
bronze	anodised	15	220739
champagne	anodised	15	220740
silver	anodised	15	97507
titanium	anodised	14	97508
traffic white RAL 9016	powder coated	20	220536



7.1.3 Finger Pull Aluminium SOFT			No
black brown RAL 8022	anodised	20	220744
bronze	anodised	20	59147
champagne	anodised	20	59149
silver	anodised	20	59148
titanium	anodised	20	59146
traffic white RAL 9016	powder coated	20	59150

7.2 Finger Pull PVC



7.2.1 Finger Pull PVC LIGHT			No
grey brown RAL 8019	Solid PVC	20	10600
traffic white RAL 9016	Solid PVC	20	10599



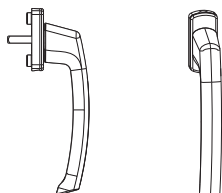
8 Handles for sliding systems

8.1	SKB-handles and accessories for systems S and SE	74
8.2	HS-handles and accessories	77







8 Handles for sliding systems

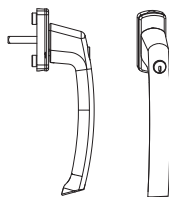
8.1 SKB-handles and accessories for systems S and SE

8.1.1 HARMONY design



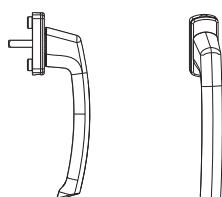
55720

8.1.1.1 Lugs 10/12							No
black brown RAL 8022	58		28	7	anodised	10	24658
		pin 32	28	7	anodised	10	21269
		pin 35	28	7	anodised	10	203310
bronze	58		28	7	anodised	10	24432
		pin 32	28	7	anodised	10	21470
		pin 35	28	7	anodised	10	203305
bronze SKB	58		28	7	anodised	10	203890
		pin 32	28	7	anodised	10	203888
		pin 35	28	7	anodised	10	203889
champagne	58		28	7	anodised	10	24433
		pin 32	28	7	anodised	10	21465
		pin 35	28	7	anodised	10	203304
silver	58		28	7	anodised	10	59045
		pin 32	28	7	anodised	10	55720
		pin 35	28	7	anodised	10	203307
		pin 38	28	7	anodised	10	227029
silver (white rosette)	58		28	7	anodised	10	220632
		pin 32	28	7	anodised	10	22248
		pin 35	28	7	anodised	10	203308
titanium	58		28	7	anodised	10	24434
		pin 32	28	7	anodised	10	21466
		pin 35	28	7	anodised	10	203306
traffic white RAL 9016	58		28	7	powder coated	10	24435
		pin 32	28	7	powder coated	10	21471
		pin 35	28	7	powder coated	10	203309
		pin 38	28	7	powder coated	10	227030



55781

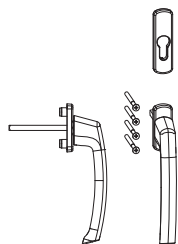
8.1.1.2 Lugs 10/12 with locking cylinder								No
black brown RAL 8022	58		28	7	anodised	10	220634	
		pin 32	28	7	anodised	10	21270	
		pin 35	28	7	anodised	10	203322	
bronze	58		28	7	anodised	10	59049	
		pin 32	28	7	anodised	10	21476	
		pin 35	28	7	anodised	10	203317	
bronze SKB	58		28	7	anodised	10	203893	
		pin 32	28	7	anodised	10	203891	
		pin 35	28	7	anodised	10	203892	
champagne	58		28	7	anodised	10	59051	
		pin 32	28	7	anodised	10	21473	
		pin 35	28	7	anodised	10	203316	
silver	58		28	7	anodised	10	59048	
		pin 32	28	7	anodised	10	55781	
		pin 35	28	7	anodised	10	203319	
		pin 38	28	7	anodised	10	227031	
silver (white rosette)	58		28	7	anodised	10	220633	
		pin 32	28	7	anodised	10	22288	
		pin 35	28	7	anodised	10	203320	
titanium	58		28	7	anodised	10	59050	
		pin 32	28	7	anodised	10	21474	
		pin 35	28	7	anodised	10	203318	
traffic white RAL 9016	58		28	7	powder coated	10	59046	
		pin 32	28	7	powder coated	10	21484	
		pin 35	28	7	powder coated	10	203321	
		pin 38	28	7	powder coated	10	227032	









203895

8.1.1.3 Interior handles lugs 12								No
black brown RAL 8022	PC	58	28	7	anodised	10	203904	
bronze	PC	58	28	7	anodised	10	203900	
bronze SKB	PC	58	28	7	anodised	10	203901	
champagne	PC	54	28	7	anodised	10	203897	
silver	PC	54	28	7	anodised	10	203896	
silver (white rosette)	PC	54	28	7	anodised	10	203895	
titanium	PC	58	28	7	anodised	10	203902	
traffic white RAL 9016	PC	58	28	7	powder coated	10	203903	

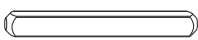








203894

8.1.1.4 High exterior handles lugs 12								No
black brown RAL 8022	PC	64-73	54	26	7	anodised	10	202626
		max. 90	54	26	7	anodised	10	213336
bronze	PC	64-73	54	26	7	anodised	10	202625
		max. 90	54	26	7	anodised	10	213335
bronze SKB	PC	64-73	54	26	7	anodised	10	203894
		max. 90	54	26	7	anodised	10	213340
champagne	PC	64-73	54	26	7	anodised	10	202627
		max. 90	54	26	7	anodised	10	213337
silver	PC	64-73	54	26	7	anodised	10	202624
		max. 90	54	26	7	anodised	10	213334
titanium	PC	64-73	54	26	7	anodised	10	202628
		max. 90	54	26	7	anodised	10	213338
traffic white RAL 9016	PC	64-73	54	26	7	powder coated	10	202630
		max. 90	54	26	7	powder coated	10	213339

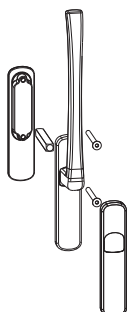
39013








8.1.2 Spindles	L					No
spindle	52	26	7	20		39013
	56	30	7	100		39029
	61	35	7	20		30717
	64	38	7	20		94228
	69	43	7	200		39014
	76	50	7	20		30765

8.2 HS-handles and accessories

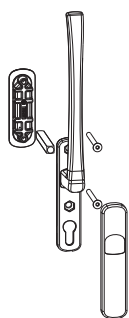
8.2.1 HS handle sets








13341

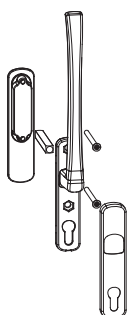
8.2.1.1 with cover plate and long finger pull						No
black brown RAL 8022	71	56 68	10	anodised anodised	1 1	13340 13342
bronze	71	56 68	10	anodised anodised	1 1	13281 10141
champagne	71	56 68	10	anodised anodised	1 1	13337 13345
silver	71	56 68	10	anodised anodised	1 1	13339 13341
titanium	71	56 68	10	anodised anodised	1 1	11761 10210
traffic white RAL 9016	71	56 68	10	powder coated powder coated	1 1	13338 13352










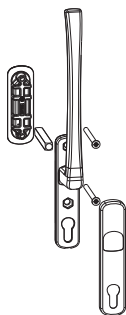
101841

8.2.1.2 with cover plate and short finger pull						No
black brown RAL 8022	71	56	10	anodised	1	101863
		68	10	anodised	1	101864
		max. 110	10	anodised	1	101963
bronze	71	56	10	anodised	1	101834
		68	10	anodised	1	101835
		max. 110	10	anodised	1	101961
champagne	71	56	10	anodised	1	101837
		68	10	anodised	1	101838
		max. 110	10	anodised	1	101962
silver	71	56	10	anodised	1	101840
		68	10	anodised	1	101841
		max. 110	10	anodised	1	101964
titanium	71	56	10	anodised	1	101842
		68	10	anodised	1	101843
		max. 110	10	anodised	1	101965
traffic white RAL 9016	71	56	10	powder coated	1	101844
		68	10	powder coated	1	101845
		max. 110	10	powder coated	1	101966



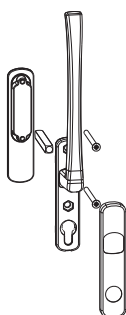
10549

8.2.1.3 with cover plate PC and long finger pull						No
black brown RAL 8022	71	56	10	anodised	1	11766
		68	10	anodised	1	10594
bronze	71	56	10	anodised	1	10623
		68	10	anodised	1	10592
champagne	71	56	10	anodised	1	10547
		68	10	anodised	1	11763
silver	71	56	10	anodised	1	10548
		68	10	anodised	1	10549
titanium	71	56	10	anodised	1	11768
		68	10	anodised	1	11764
traffic white RAL 9016	71	56	10	powder coated	1	11765
		68	10	powder coated	1	11762



101851

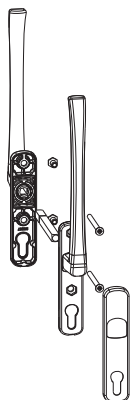
8.2.1.4 with cover plate PC and short finger pull						No
black brown RAL 8022	71	56	10	anodised	1	101865
		68	10	anodised	1	101866
		max. 110	10	anodised	1	101969
bronze	71	56	10	anodised	1	101846
		68	10	anodised	1	101847
		max. 110	10	anodised	1	101967
champagne	71	56	10	anodised	1	101848
		68	10	anodised	1	101849
		max. 110	10	anodised	1	101968
silver	71	56	10	anodised	1	101850
		68	10	anodised	1	101851
		max. 110	10	anodised	1	101970
titanium	71	56	10	anodised	1	101852
		68	10	anodised	1	101853
		max. 110	10	anodised	1	101971
traffic white RAL 9016	71	56	10	powder coated	1	101854
		68	10	powder coated	1	101855
		max. 110	10	powder coated	1	101972








101736

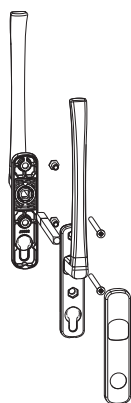
8.2.1.5 with cover plate RC and long finger pull						No
black brown RAL 8022	71	56	10	anodised	1	101740
		68	10	anodised	1	101741
bronze	71	56	10	anodised	1	101736
		68	10	anodised	1	101737
champagne	71	56	10	anodised	1	101738
		68	10	anodised	1	101739
silver	71	56	10	anodised	1	101742
		68	10	anodised	1	101692
titanium	71	56	10	anodised	1	101743
		68	10	anodised	1	101744
traffic white RAL 9016	71	56	10	powder coated	1	101745
		68	10	powder coated	1	101746










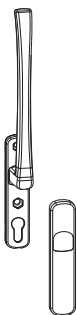
13343

8.2.1.6 with interior and exterior cover plate PC						No
black brown RAL 8022	71	68	10	anodised	1	13344
		max. 110	10	anodised	1	101975
bronze	71	68	10	anodised	1	10142
		max. 110	10	anodised	1	101973
champagne	71	68	10	anodised	1	13346
		max. 110	10	anodised	1	101974
silver	71	68	10	anodised	1	13343
		max. 110	10	anodised	1	101976
titanium	71	68	10	anodised	1	10647
		max. 110	10	anodised	1	101977
traffic white RAL 9016	71	68	10	powder coated	1	10353
		max. 110	10	powder coated	1	101978







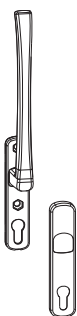
101731

8.2.1.7 with interior and exterior cover plate RC						No
black brown RAL 8022	71	68	10	anodised	1	101732
bronze	71	68	10	anodised	1	101727
champagne	71	68	10	anodised	1	101731
silver	71	68	10	anodised	1	101693
titanium	71	68	10	anodised	1	101733
traffic white RAL 9016	71	68	10	powder coated	1	101734







28576

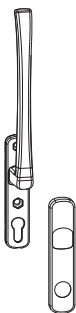
8.2.1.8 with cover plate					No
black brown RAL 8022	71	10	anodised	1	28580
bronze	71	10	anodised	1	21422
champagne	71	10	anodised	1	28578
silver	71	10	anodised	1	28576
titanium	71	10	anodised	1	28043
traffic white RAL 9016	71	10	powder coated	1	28972







28577

8.2.1.9 with cover plate PC					No
black brown RAL 8022	71	10	anodised	1	28581
bronze	71	10	anodised	1	20190
champagne	71	10	anodised	1	28579
silver	71	10	anodised	1	28577
titanium	71	10	anodised	1	28044
traffic white RAL 9016	71	10	powder coated	1	28973







208320

8.2.1.10 with cover plate RC					No
black brown RAL 8022	71	10	anodised	1	208424
bronze	71	10	anodised	1	208422
champagne	71	10	anodised	1	208423
silver	71	10	anodised	1	208320
titanium	71	10	anodised	1	208425
traffic white RAL 9016	71	10	powder coated	1	208426





36416

8.2.1.11 Cover plates without holes			No
black brown RAL 8022	anodised	10	36425
bronze	anodised	10	37853
champagne	anodised	10	36418
silver	anodised	10	36416
titanium	anodised	10	39828
traffic white RAL 9016	powder coated	10	36834





36415

8.2.1.12 Cover plates for PC			No
black brown RAL 8022	anodised	10	36420
bronze	anodised	10	37555
champagne	anodised	10	36417
silver	anodised	10	36415
titanium	anodised	10	39827
traffic white RAL 9016	powder coated	10	36835



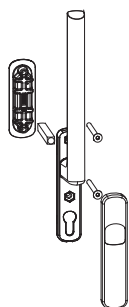
358180

8.2.1.13 Cover plates for RC






			No
black brown RAL 8022	anodised	10	358358
bronze	anodised	10	358356
champagne	anodised	10	358357
silver	anodised	10	358180
titanium	anodised	10	358359
traffic white RAL 9016	powder coated	10	358360

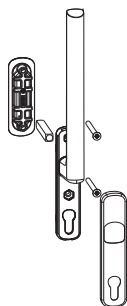


8.2.2 HS handle 12








103632

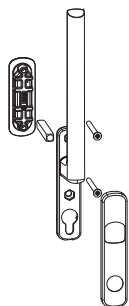
8.2.2.1 HS handle 12 with cover plate and short finger pull						No
black brown RAL 8022	72	68	10	anodised	1	103631
		78	10	anodised	1	103637
		max. 86	10	anodised	1	104246
		max. 110	10	anodised	1	103813
bronze	72	68	10	anodised	1	103629
		78	10	anodised	1	103635
		max. 86	10	anodised	1	104244
		max. 110	10	anodised	1	103811
champagne	72	68	10	anodised	1	103630
		78	10	anodised	1	103636
		max. 86	10	anodised	1	104245
		max. 110	10	anodised	1	103812
silver	72	68	10	anodised	1	103632
		78	10	anodised	1	103638
		max. 86	10	anodised	1	104247
		max. 110	10	anodised	1	103814
titanium	72	68	10	anodised	1	103633
		78	10	anodised	1	103639
		max. 86	10	anodised	1	104248
		max. 110	10	anodised	1	103815
traffic white RAL 9016	72	68	10	powder coated	1	103634
		78	10	powder coated	1	103640
		max. 86	10	powder coated	1	104249
		max. 110	10	powder coated	1	103816








103650

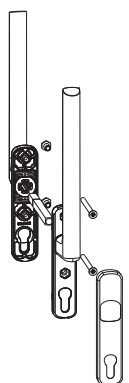
8.2.2.2 HS handle 12 with cover plate PC and short finger pull						No
black brown RAL 8022	72	68	10	anodised	1	103649
		78	10	anodised	1	103643
		max. 86	10	painted	1	104252
		max. 110	10	painted	1	103819
bronze	72	68	10	anodised	1	103647
		78	10	anodised	1	103641
		max. 86	10	anodised	1	104250
		max. 110	10	anodised	1	103817
champagne	72	68	10	anodised	1	103648
		78	10	anodised	1	103642
		max. 86	10	anodised	1	104251
		max. 110	10	anodised	1	103818
silver	72	68	10	anodised	1	103650
		78	10	anodised	1	103644
		max. 86	10	anodised	1	104253
		max. 110	10	anodised	1	103820
titanium	72	68	10	anodised	1	103651
		78	10	anodised	1	103645
		max. 110	10	anodised	1	103821
		68	10	powder coated	1	103652
traffic white RAL 9016	72	78	10	powder coated	1	103646
		max. 86	10	powder coated	1	104255
		max. 110	10	powder coated	1	103822










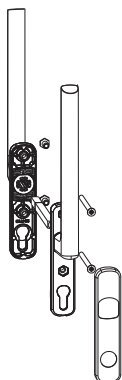
103662

8.2.2.3 HS handle 12 with cover plate RC and short finger pull						No
black brown RAL 8022	72	68	10	anodised	1	103661
		78	10	anodised	1	103655
bronze	72	68	10	anodised	1	103659
		78	10	anodised	1	103653
champagne	72	68	10	anodised	1	103660
		78	10	anodised	1	103654
silver	72	68	10	anodised	1	103662
		78	10	anodised	1	103656
titanium	72	68	10	anodised	1	103663
		78	10	anodised	1	103657
traffic white RAL 9016	72	68	10	powder coated	1	103664
		78	10	powder coated	1	103658



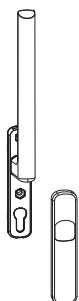
103668

8.2.2.4 HS handle 12 with interior and exterior cover plate PC						No
black brown RAL 8022	72	68	10	anodised	1	103667
		78	10	anodised	1	103673
		max. 110	10	anodised	1	103825
bronze	72	68	10	anodised	1	103665
		78	10	anodised	1	103671
		max. 110	10	anodised	1	103823
champagne	72	68	10	anodised	1	103666
		78	10	anodised	1	103672
		max. 110	10	anodised	1	103824
silver	72	68	10	anodised	1	103668
		78	10	anodised	1	103674
		max. 110	10	anodised	1	103826
titanium	72	68	10	anodised	1	103669
		78	10	anodised	1	103675
		max. 110	10	anodised	1	103827
traffic white RAL 9016	72	68	10	powder coated	1	103670
		78	10	powder coated	1	103676
		max. 110	10	powder coated	1	103828



103680

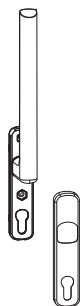
8.2.2.5 HS handle 12 with interior and exterior cover plate RC						No
black brown RAL 8022	72	68	10	anodised	1	103679
		78	10	anodised	1	103685
bronze	72	68	10	anodised	1	103677
		78	10	anodised	1	103683
champagne	72	68	10	anodised	1	103678
		78	10	anodised	1	103684
silver	72	68	10	anodised	1	103680
		78	10	anodised	1	103686
titanium	72	68	10	anodised	1	103681
		78	10	anodised	1	103687
traffic white RAL 9016	72	68	10	powder coated	1	103682
		78	10	powder coated	1	103688



218397

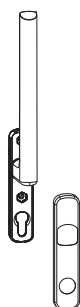
8.2.2.6 HS handle 12 with cover plate					No
black brown RAL 8022	72	10	powder coated	1	218396
bronze	72	10	anodised	1	218394
champagne	72	10	anodised	1	218395
silver	72	10	anodised	1	218397
titanium	72	10	anodised	1	218398
traffic white RAL 9016	72	10	powder coated	1	218399





218403

8.2.2.7 HS handle 12 with cover plate PC					No
black brown RAL 8022	72	10	anodised	1	218402
bronze	72	10	anodised	1	218400
champagne	72	10	anodised	1	218401
silver	72	10	anodised	1	218403
titanium	72	10	anodised	1	218404
traffic white RAL 9016	72	10	powder coated	1	218405



218409

8.2.2.8 HS handle 12 with cover plate RC					No
black brown RAL 8022	72	10	anodised	1	218408
bronze	72	10	anodised	1	218406
champagne	72	10	anodised	1	218407
silver	72	10	anodised	1	218409
titanium	72	10	anodised	1	218410
traffic white RAL 9016	72	10	powder coated	1	218411





365924

8.2.2.9 HS handle 12 cover plates without holes			No
black brown RAL 8022	anodised	10	365923
bronze	anodised	10	365921
champagne	anodised	10	365922
silver	anodised	10	365924
titanium	anodised	10	365925
traffic white RAL 9016	powder coated	10	365926



365912



8.2.2.10 HS handle 12 cover plates PC

			No
black brown RAL 8022	powder coated	10	365911
bronze	anodised	10	365909
champagne	anodised	10	365910
silver	anodised	10	365912
titanium	anodised	10	365913
traffic white RAL 9016	powder coated	10	365914



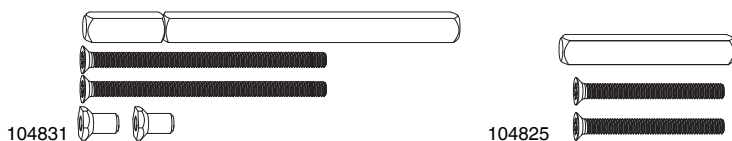
365918

8.2.2.11 HS handle 12 cover plates PC




			No
black brown RAL 8022	anodised	10	365917
bronze	anodised	10	365915
champagne	anodised	10	365916
silver	anodised	10	365918
titanium	anodised	10	365919
traffic white RAL 9016	powder coated	10	365920

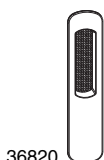


8.2.3 Accessories and individual components for handles





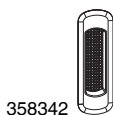
8.2.3.1 Set of screws and spindle — HS handle 12

		L			No
for HS handle inside and outside	58-92	100	10	10	104831
	88-112	115	10	10	104832
for HS handle with finger pull	56-62	60	10	10	104825
	68-72	70	10	10	104826
	78-82	80	10	10	104827
	88-92	90	10	10	104828
	98-102	100	10	10	104829
	108-112	115	10	10	104830





8.2.3.2 Long finger pulls

			No
black brown RAL 8022	anodised	10	36822
bronze	anodised	10	37566
champagne	anodised	10	36821
silver	anodised	10	36820
titanium	anodised	10	39829
traffic white RAL 9016	powder coated	10	36823



8.2.3.3 Short finger pulls

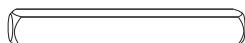
			No
black brown RAL 8022	powder coated	10	358340
bronze	painting	10	358343
champagne	painting	10	358342
silver	painting	10	358341
titanium	painting	10	358344
traffic white RAL 9016	powder coated	10	358339



369773

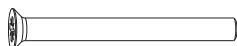
8.2.3.4 Short finger pulls 9 mm routing depth						No
RAL 9001 cream white				powder coated	10	369777
black brown RAL 8022				powder coated	10	369772
blank					10	369778
bronze				painting	10	369763
champagne				painting	10	369774
silver				painting	10	369773
titanium				painting	10	369775
traffic white RAL 9016				powder coated	10	369776

30000



8.2.3.5 Spindles			L		No
spindle for lever handle set inside + outside	58-92	152	10	10	369820
	68	132	10	10	365627
		138	10	10	30016
	78	142	10	10	365706
	88-112	172	10	10	369821
		max. 110	194	10	10
spindle for lever handle set with HS finger pull	56	78	10	10	30000
	68	84	10	10	30014
	78-82	81	10	10	369819

368713



8.2.3.6 Screws				Ø	L		No
silver	countersunk screw	DIN 965	cross recess	M6	60	100	369882
					70	500	369883
					80	100	368713
					90	100	365979
					100	10	455291
					110	100	363957

37884



8.2.3.7 Tap hexagonal nuts and cams					No
M6 SW12		allen-key nut		100	37884
Ø 8 mm		allen-key pin		50	357004

455274



101652



8.2.3.8 Counter nuts for drive gear fastening				Ø	L		No
silver	counter nut			M5	100	455274	
	screw set			M5	80	101652	



MACO
EMOTION



Handles for sliding systems






9 Accessories

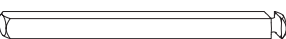
9.1	Spindles _____	94
9.2	Spindles with groove for handle and rosette sets _____	94
9.3	Spindles with groove for door handle sets _____	94
9.4	Wrought Iron Handle _____	94
9.5	Spacer ring for handle, Lugs 10/12 _____	94
9.6	Routing jig _____	94
9.7	Packer for Handle Rosette Harmony _____	95
9.8	Key for handles with key locking _____	95



9 Accessories

39013 

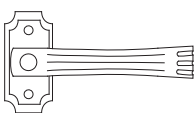
9.1 Spindles	L				N ^o
spindle	52	26	7	20	39013
	56	30	7	100	39029
	61	35	7	20	30717
	64	38	7	20	94228
	69	43	7	200	39014
	76	50	7	20	30765

363639 

9.2 Spindles with groove for handle and rosette sets	L			N ^o
spindle	162	7	50	363639

363640 

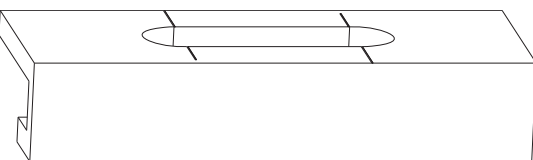
9.3 Spindles with groove for door handle sets	L			N ^o
spindle	162	8	50	363640


10517 

9.4 Wrought Iron Handle						N ^o
with spindle 30 mm	57	33	30	7	10	10517

40017 

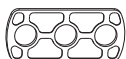
9.5 Spacer ring for handle, Lugs 10/12		N ^o
spacer ring for handle lugs BS 9.6 & 11.6 mm	500	40017

461889 

9.6 Routing jig		N ^o
routing template for Tentazione window handle timber	1	461889



42071



9.7 Packer for Handle Rosette Harmony



W



Nº

bronze	3	28	100	42072
champagne	3	28	100	42074
silver	3	28	100	220086
titanium	3	28	100	42073
white	3	28	100	42071

42600



9.8 Key for handles with key locking



Nº

key for locking handle silver			10	42600
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100544	10	51	101218	10	64	103331	10	48,65
100545	10	52	101219	10	64	103332	10	48,65
100546	10	52	101220	10	64	10353	1	80
100547	10	52	101221	10	64	103629	1	84
100548	10	52	101222	10	48,65	103630	1	84
100549	10	52	101224	10	48,65	103631	1	84
100551	10	52	101225	10	48,65	103632	1	84
100555	10	52	101226	10	48,65	103633	1	84
100556	10	52	101227	10	48,65	103634	1	84
100557	10	52	101228	10	48,65	103635	1	84
100558	10	52	10141	1	77	103636	1	84
100559	10	52	10142	1	80	103637	1	84
100561	10	52	101652	10	91	103638	1	84
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11412	10	50	14611	10	24	203093	10	31
11413	10	50	14612	10	24	203094	10	31
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MAYER & CO BESCHLÄGE GMBH

ALPENSTRASSE 173
A-5020 SALZBURG
TEL +43 662 6196-0
FAX +43 662 6196-1449
maco@maco.at
www.maco.at