



TECHNOLOGY IN MOTION

MACO EMOTION

WINDOW HANDLES



CATALOGUE

No

Item number



Spindle length



Grip Height



Rosette width



Profile depth



Spindle size



Surface



Packer thickness

W

Overall component width

L

Overall component length








Packing unit

PC

Profile cylinder

RC

Round cylinder

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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 comparison is necessary.

The current version is downloadable from our website (www.maco.eu).

Further technical documents are available in our Technical Online Catalogue TOM (extranet.maco.eu).

No liabilities are accepted for possible printing errors, mistakes or changes.

Please send comments or suggestions about our catalogues 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 intended use

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 levers, 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 opera-

tional 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 ae-

sthetical 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 Storage instructions fittings

Improper storage of fittings can affect the surface quality. To prevent this, the following points should be noted:

- Ensure that the room air is permanently dry.
- Large temperature fluctuations, which lead to condensation must be prevented. Condensation on fittings means that the galvanized surfaces are attacked (red rust formation).
- Aggressive vapors by cleaners or assembly aids such as silicone, and the like must - be avoided - even briefly. Vapors of such substances can cause very rapid corrosion of fittings.
- Salty air or polluted by industrial air causes galvanized surfaces to corrode and can leave deposits.

1.4 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 current 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.maco.eu. In addition our safety descriptions relating to dangerous substances (REACH Declaration) are available, covering all MACO products.

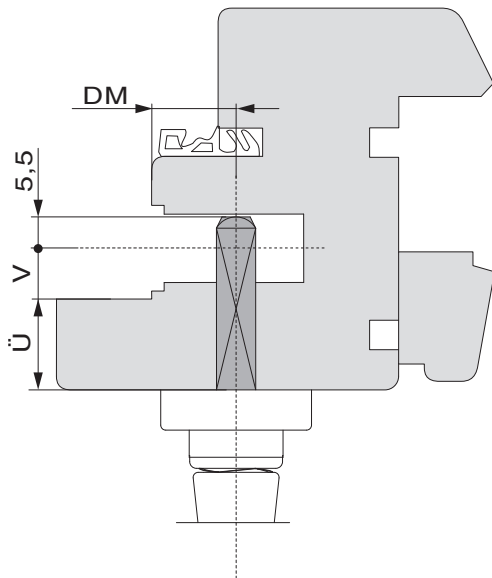
1.5 General terms and conditions (GTC)

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

1.6 Technical assembly instructions

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

Calculation of pin length



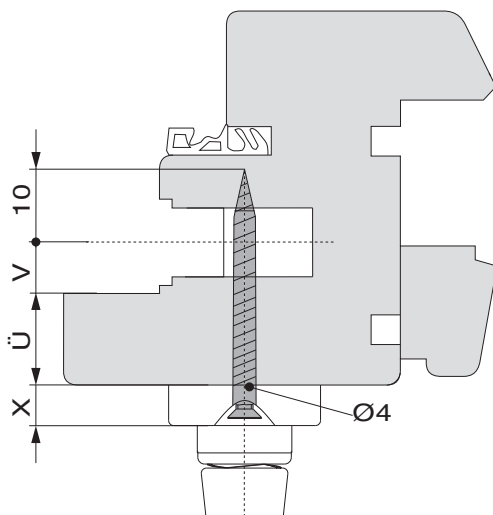
Ü = Overlap

V = Offset: 13 mm

DM = backset (BS)

Calculation of screw length

chipboard screws



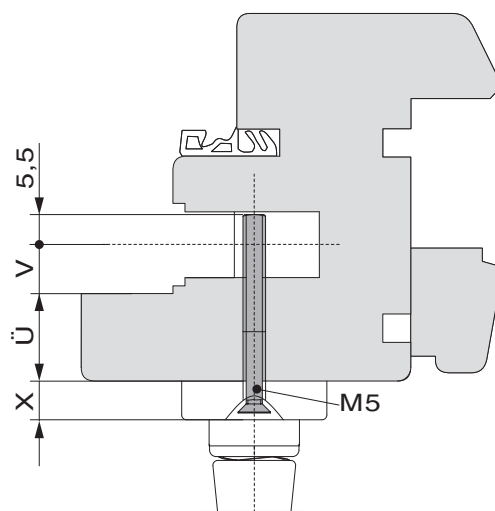
X = 8 mm: Harmony

X = 9.5 mm: Rhapsody

Ü = Overlap

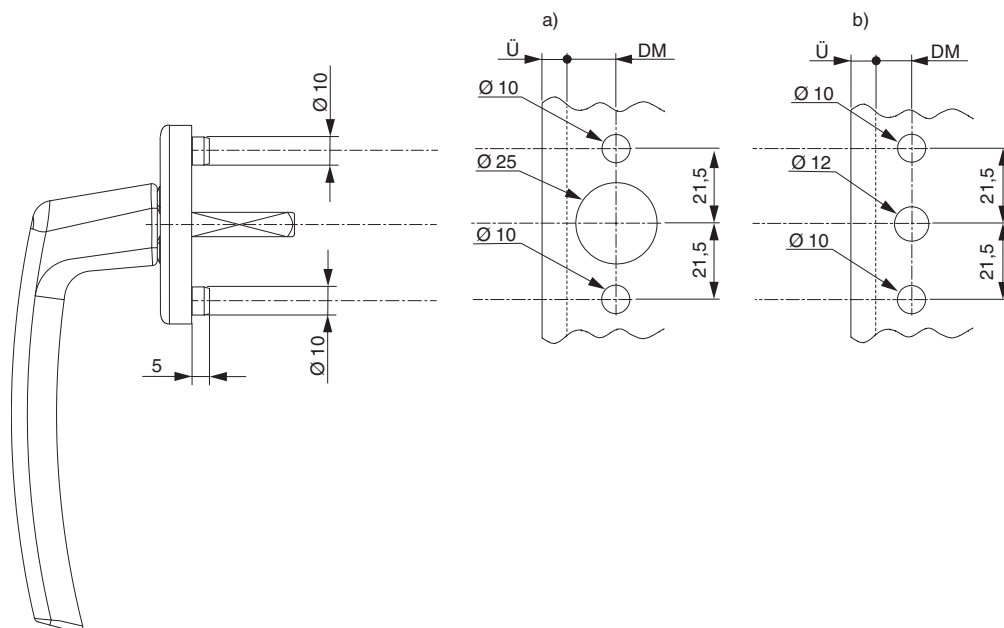
V = Offset: 13 mm

metric screws



Drilling hole patterns

Rosette with lugs $\varnothing 10$

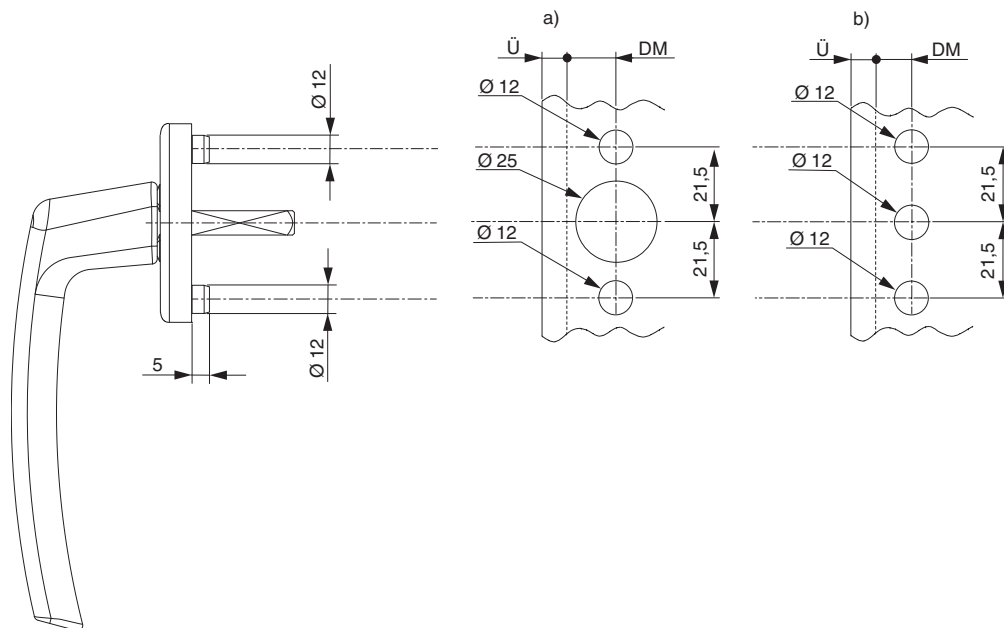


The pins are intended to provide greater stability to the handle.

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

Technical and general information

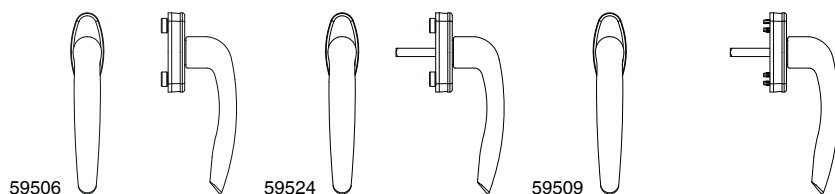


2 Rhapsody

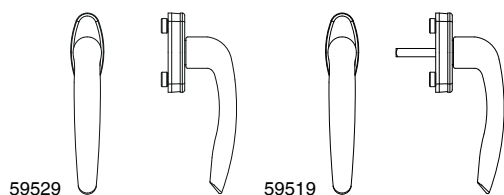
2.1	Window Handle	12
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2 RHAPSODY

2.1 Window Handle

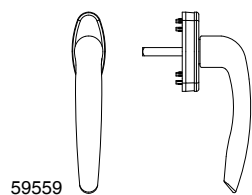


2.1.1 Lugs 10												No
bronze	F6	57	30	without spindle	7	anodised	20					59521
				pin	35	7	anodised	20	59506			
silver	F1	57	30	without spindle	7	anodised	20					59522
				pin	35	7	anodised	20	59507			
titanium	F7	57	30	without spindle	7	anodised	20					59520
				pin	35	7	anodised	20	59505			
traffic white	RAL 9016	57	30	without spindle	7	PVC coated	20					59524
				pin	35	7	PVC coated	20	59509			



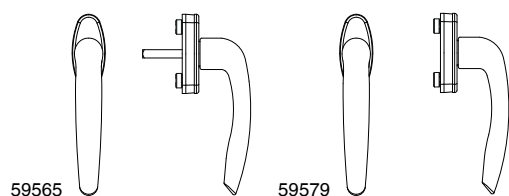
2.1.2 Lugs 10/12									No
bronze	F6	57	30	without spindle	7	anodised	20		59526
champagne	F2	57	30	pin	35	7	anodised	20	59518
jet black	RAL 9005	57	30	without spindle	7	powder coated	20		212027
silver	F1	57	30	without spindle	7	anodised	20		59527
				pin	32	7	anodised	20	59512
				pin	35	7	anodised	20	59517
titanium	F7	57	30	pin	35	7	anodised	20	59515
traffic white	RAL 9016	57	30	without spindle	7	PVC coated	20		59529
				pin	35	7	PVC coated	20	59519

2.2 Window Handle with 45°-Rest



59559

2.2.1 Lugs 10										No
bronze	F6	57	30	pin	35	7	anodised	20		59556
silver	F1	57	30	pin	35	7	anodised	20		59557
titanium	F7	57	30	pin	35	7	anodised	20		59555
traffic white	RAL 9016	57	30	pin	35	7	PVC coated	20		59559

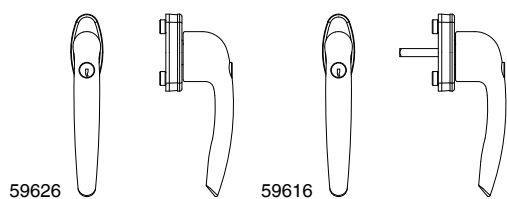


59565

59579

2.2.2 Lugs 10/12										No
bronze	F6	57	30	without spindle		7	anodised	20		59576
champagne	F2	57	30	pin	35	7	anodised	20		59568
silver	F1	57	30	without spindle		7	anodised	20		59577
titanium	F7	57	30	without spindle		7	anodised	20		59575
				pin	35	7	anodised	20	59565	
traffic white	RAL 9016	57	30	without spindle		7	PVC coated	20		59579

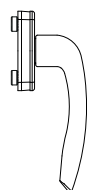
2.3 Window Handle with 45°-Rest and Key Locking



2.3.1 Lugs 10/12									No
silver	F1	57	30	without spindle	7	anodised	10	59624	
				pin	32	7	anodised	10	59604
					35	7	anodised	10	59614
titanium	F7	57	30	without spindle	7	anodised	10	59622	
				pin	35	7	anodised	10	59612
traffic white	RAL 9016	57	30	without spindle	7	powder coated	10	59626	
				pin	35	7	powder coated	10	59616

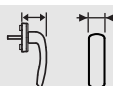
2.4 Handle and rosette sets

2.4.1 for Profile Cylinder



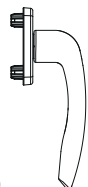
14607

2.4.1.1 Internal Handle, Lugs 12



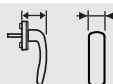
No

Material	Finish	PC	57	30	without spindle	7	anodised	10	No
bronze	F6	PC	57	30	without spindle	7	anodised	10	14604
silver	F1	PC	57	30	without spindle	7	anodised	10	14605
titanium	F7	PC	57	30	without spindle	7	anodised	10	14603
traffic white	RAL 9016	PC	57	30	without spindle	7	PVC coated	10	14607



105650

2.4.1.2 External Handle High, Lugs 12



No

Material	Finish	PC	52	28	without spindle	7	anodised	10	No
bronze	F6	PC	52	28	without spindle	7	anodised	10	105646
silver	F1	PC	52	28	without spindle	7	anodised	10	105648
titanium	F7	PC	52	28	without spindle	7	anodised	10	105649
traffic white	RAL 9016	PC	52	28	without spindle	7	powder coated	10	105650



105749

2.4.1.3 Spindle and screws for handle and rosette sets high



No

Spindle and screws for handle and rosette sets high and low	67,5-76	10	No
	76-86	10	105747
	86-96	10	105748
	96-106	10	105749



11156

2.4.1.4 Cylinder rosettes internal and external



№

cylinder rosette for RC external RHAPSODY silver lugs 12	20	11156
cylinder rosette for RC internal RHAPSODY silver lugs 12	20	11316

20

11156

20

11316

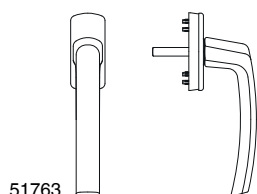


3 HARMONY

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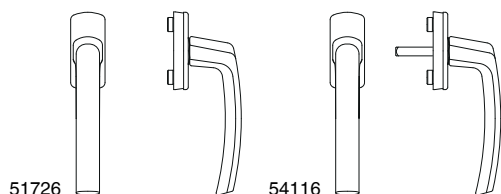
3 HARMONY

3.1 Window Handle



51763

3.1.1 Lugs 10									No
bronze	F6	55	28	pin	35	7	anodised	20	28856
grey brown	RAL 8019	55	28	pin	35	7	PVC coated	20	51856
silver	F1	55	28	pin	32	7	anodised	20	53972
					35	7	anodised	20	52116
titanium	F7	55	28	pin	32	7	anodised	20	28901
					35	7	anodised	20	28861
traffic white	RAL 9016	55	28	pin	32	7	PVC coated	20	51763
					35	7	PVC coated	20	51750

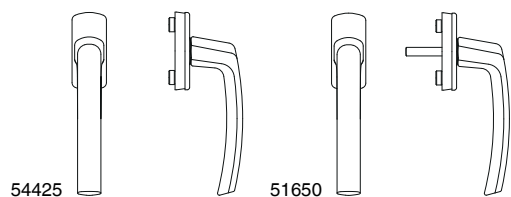


51726

54116

3.1.2 Lugs 10/12									No
bronze	F6	55	28	without spindle	7	anodised	20	28738	
				pin	32	7	anodised	20	54117
					35	7	anodised	20	28857
champagne	F2	55	28	without spindle	7	anodised	20	28719	
				pin	32	7	anodised	20	54115
grey brown	RAL 8019	55	28	without spindle	7	PVC coated	20	54133	
jet black	RAL 9005	55	28	without spindle	7	powder coated	20	229392	
silver	F1	55	28	without spindle	7	anodised	20	55821	
				pin	32	7	anodised	20	53979
					35	7	anodised	20	55508
titanium	F7	55	28	without spindle	7	anodised	20	20695	
				pin	32	7	anodised	20	28902
traffic white	RAL 9016	55	28	without spindle	7	PVC coated	20	51726	
				pin	32	7	PVC coated	20	54116
					35	7	PVC coated	20	54099

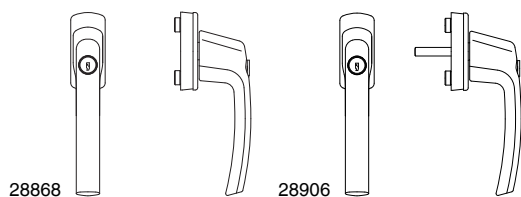
3.2 Window Handle with 45°-Rest



3.2.1 Lugs 10/12								No	
bronze	F6	55	28	without spindle	7	anodised	20	23213	
				pin	35	7	anodised	20	51822
champagne	F2	55	28	pin	35	7	anodised	20	54171
grey brown	RAL 8019	55	28	without spindle	7	PVC coated	20	220598	
				pin	35	7	PVC coated	20	220597
silver	F1	55	28	without spindle	7	anodised	20	205152	
				pin	32	7	anodised	20	55713
					35	7	anodised	20	220629
titanium	F7	55	28	without spindle	7	anodised	20	23177	
				pin	32	7	anodised	20	20415
					35	7	anodised	20	54532
traffic white	RAL 9016	55	28	without spindle	7	PVC coated	20	54425	
				pin	35	7	PVC coated	20	51650

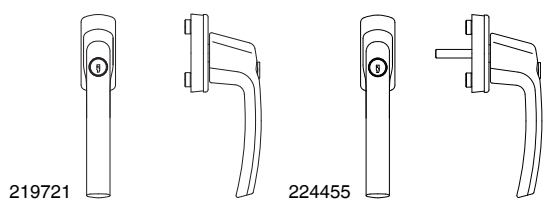


3.3 Window Handle with 45°-Rest and Key Locking



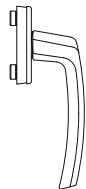
3.3.1 Lugs 10/12										N^o
bronze	F6	55	28	without spindle	7	anodised	10			28870
				pin	35	7	anodised	10	21385	
champagne	F2	55	28	without spindle	7	anodised	10			28869
				pin	35	7	anodised	10	21328	
grey brown	RAL 8019	55	28	without spindle	7	powder coated	10			54142
jet black	RAL 9005	55	28	without spindle	7	powder coated	10			227691
silver	F1	55	28	without spindle	7	anodised	10			55822
				pin	32	7	anodised	10	54440	
					35	7	anodised	10	220630	
titanium	F7	55	28	without spindle	7	anodised	10			28871
				pin	32	7	anodised	10	28903	
					35	7	anodised	10	21329	
traffic white	RAL 9016	55	28	without spindle	7	powder coated	10			28868
				pin	32	7	powder coated	10	28906	
					35	7	powder coated	10	21381	

3.5 Window handles with key locking for tilt first fittings



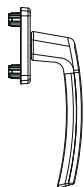
3.5.1 Lugs 10/12										No
silver	F1	55	28	without spindle	7	anodised	10			219716
				pin	35	7	anodised	10		219223
titanium	F7	55	28	without spindle	7	anodised	10			219720
traffic white	RAL 9016	55	28	without spindle	7	powder coated	10			219721
				pin	32	7	powder coated	10		224455
					35	7	powder coated	10		219568

3.6 Handle and rosette sets



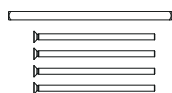
11072

3.6.1 Internal Handle, Lugs 12									№
bronze	F6	PC	55	28	without spindle	7	anodised	10	11073
grey brown	RAL 8019	PC	55	28	without spindle	7	PVC coated	10	101795
jet black	RAL 9005	PC	55	28	without spindle	7	powder coated	10	105905
silver	F1	PC	55	28	without spindle	7	anodised	10	11075
titanium	F7	PC	55	28	without spindle	7	anodised	10	11074
traffic white	RAL 9016	PC	55	28	without spindle	7	PVC coated	10	11072



105667

3.6.2 External Handle High, Lugs 12									№
bronze	F6	PC	51	26	without spindle	7	anodised	10	105661
grey brown	RAL 8019	PC	51	26	without spindle	7	powder coated	10	105663
jet black	RAL 9005	PC	51	26	without spindle	7	powder coated	10	105906
silver	F1	PC	51	26	without spindle	7	anodised	10	105665
titanium	F7	PC	51	26	without spindle	7	anodised	10	105666
traffic white	RAL 9016	PC	51	26	without spindle	7	powder coated	10	105667








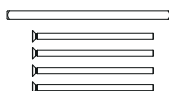
105749

3.6.3 Spindle and screws for handle and rosette sets high					№
Spindle and screws for handle and rosette sets high and low					
				67,5-76	10
				76-86	10
				86-96	10
				96-106	10





105674

3.6.4 External Handle Low, Lugs 12								No	
silver	F1	PC	32	26	without spindle	7	anodised	10	105672
titanium	F7	PC	32	26	without spindle	7	anodised	10	105673
traffic white	RAL 9016	PC	32	26	without spindle	7	powder coated	10	105674








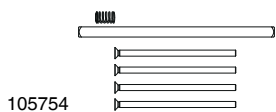
105749

3.6.5 Spindle and screws for handle and rosette sets low					No	
Spindle and screws for handle and rosette sets high and low						
				67,5-76	10	105746
				76-86	10	105747
				86-96	10	105748
				96-106	10	105749




105681

3.6.6 External Handle Flat, Lugs 12								No	
grey brown	RAL 8019	PC	19	26	without spindle	7	powder coated	10	105677
silver	F1	PC	19	26	without spindle	7	anodised	10	105679
titanium	F7	PC	19	26	without spindle	7	anodised	10	105680
traffic white	RAL 9016	PC	19	26	without spindle	7	powder coated	10	105681






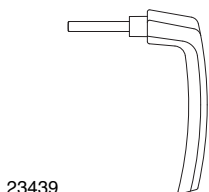
105754

3.6.7 Spindle and screws for handle and rosette sets flat				Nº
Spindle, screws and spring for handle and rosette sets low		64-72	10	105750
		72-82	10	105751
		82-92	10	105752
		92-102	10	105753
		102-112	10	105754







52202

3.7 Handle rosettes with cover plate, lugs 10/12					Nº
champagne		28	anodised	20	28657
silver		28	anodised	20	20506
titanium		28	anodised	20	28651
traffic white RAL 9016		28	powder coated	20	52202





23439

3.8 Detachable Handle						Nº		
champagne	F2	55	pin	43	7	anodised	20	27411
silver	F1	55	pin	43	7	anodised	20	54341
traffic white	RAL 9016	55	pin	43	7	powder coated	20	23439



220086

3.9 Packer for Handle Rosette Harmony			W		Nº
silver		3	28	100	220086

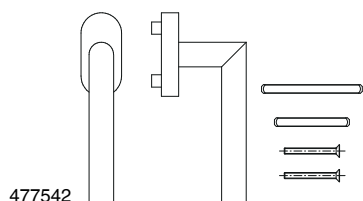


4 **UNITY**







4.1	Window Handles	28
4.2	Window Handle with Key Locking	29

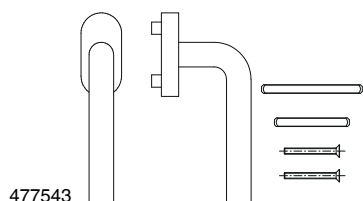
4 UNITY

4.1 Window Handles









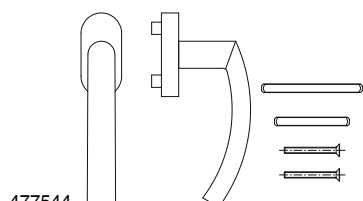
477542

4.1.1 Window Handle B02							No			
stainless steel	matt	M5 x 45	69	33	pin	24-32	36-42	7	1	477542









477543

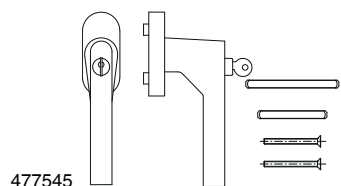
4.1.2 Window Handle B03							No			
stainless steel	matt	M5 x 45	73	33	pin	24-32	36-42	7	1	477543



477544

4.1.3 Window Handle B07							No			
stainless steel	matt	M5 x 45	72,5	33	pin	24-32	36-42	7	1	477544

4.2 Window Handle with Key Locking



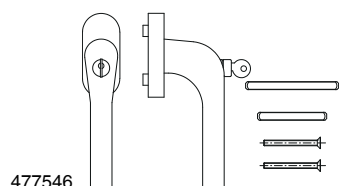
477545

4.2.1 Window Handle lockable B02



No

stainless steel matt M5 x 50 67 33 pin 24-31 36-42 7 1 **477545**



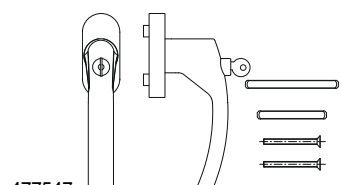
477546

4.2.2 Window Handle lockable B03



No

stainless steel matt M5 x 50 67 33 pin 24-31 36-42 7 1 **477546**



477547

4.2.3 Window Handle lockable B07



No

stainless steel matt M5 x 50 69,5 33 pin 24-31 36-42 7 1 **477547**



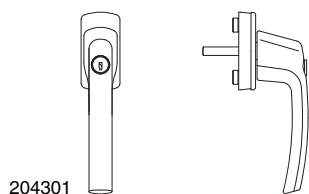


5 TRESOR

5.1	Window handles with key locking, for burglar resistant windows according to standard EN 1627	32
5.2	Window handles with locking button, for burglar resistant windows according to standard EN 1627	33

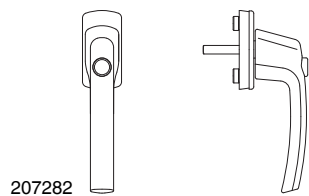
5 TRESOR

5.1 Window handles with key locking, for burglar resistant windows according to standard EN 1627



5.1.1 Lugs 10/12										No
bronze		58	32	pin	35	7	paint	10	55711	
					38	7	paint	10	208138	
silver		58	32	pin	32	7	paint	10	58934	
					35	7	paint	10	58876	
					38	7	paint	10	208136	
					40	7	paint	10	207286	
					43	7	paint	10	215362	
titanium		58	32	pin	32	7	paint	10	58988	
					35	7	paint	10	55712	
					38	7	paint	10	208143	
					40	7	paint	10	216187	
					43	7	paint	10	216833	
traffic white	RAL 9016	58	32	pin	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	

5.2 Window handles with locking button, for burglar resistant windows according to standard EN 1627



207282

5.2.1 Lugs 10/12									No
silver		58	32	pin	35	7	paint	10	58875
					38	7	paint	10	209357
					40	7	paint	10	207283
titanium		58	32	pin	35	7	paint	10	55708
					40	7	paint	10	215359
traffic white	RAL 9016	58	32	pin	35	7	powder coated	10	55270
					38	7	powder coated	10	209361
					40	7	powder coated	10	207282
					43	7	powder coated	10	224727





6 Finger Pull



6.1	Finger Pull Aluminium	36
6.2	Finger Pull PVC	37

6 Finger Pull

6.1 Finger Pull Aluminium





30719

6.1.1 BASE				No
black brown	F5	anodised	20	39589
bronze	F6	anodised	20	38162
champagne	F2	anodised	20	30290
silver	F1	anodised	20	36870
titanium	F7	anodised	20	38163
traffic white	RAL 9016	powder coated	20	30719





220536

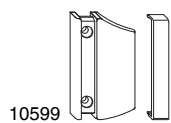
6.1.2 SOFT - L				No
black brown	F5	anodised	15	220743
bronze	F6	anodised	15	220739
champagne	F2	anodised	15	220740
silver	F1	anodised	15	97507
titanium	F7	anodised	15	97508
traffic white	RAL 9016	powder coated	20	220536





59150

6.1.3 SOFT				No
black brown	F5	anodised	20	220744
bronze	F6	anodised	20	59147
champagne	F2	anodised	20	59149
silver	F1	anodised	20	59148
titanium	F7	anodised	20	59146
traffic white	RAL 9016	powder coated	20	59150

6.2 Finger Pull PVC



6.2.1 LIGHT

				No
grey brown	RAL 8019	PVC	20	10600
traffic white	RAL 9016	PVC	20	10599

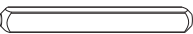


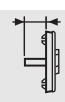




7 Accessories

7.1	Spindles Loose	40
7.2	Spacer ring for handle, Lugs 10/12	40
7.3	Key for handles with key locking	40


7 Accessories


39013 

7.1 Spindles Loose	L				No
spindle	52	26	7	200	39013
	56	30	7	200	39029
	58	32	7	200	372238
	61	35	7	200	30717
	64	38	7	20	94228
	66	40	7	200	372239
	69	43	7	200	39014
	76	50	7	200	30765


40017 

7.2 Spacer ring for handle, Lugs 10/12	 No
spacer ring for handle lugs D= 9.6 & 11.6 mm	500 40017

42600 

7.3 Key for handles with key locking	 No
key for locking handle silver	10 42600

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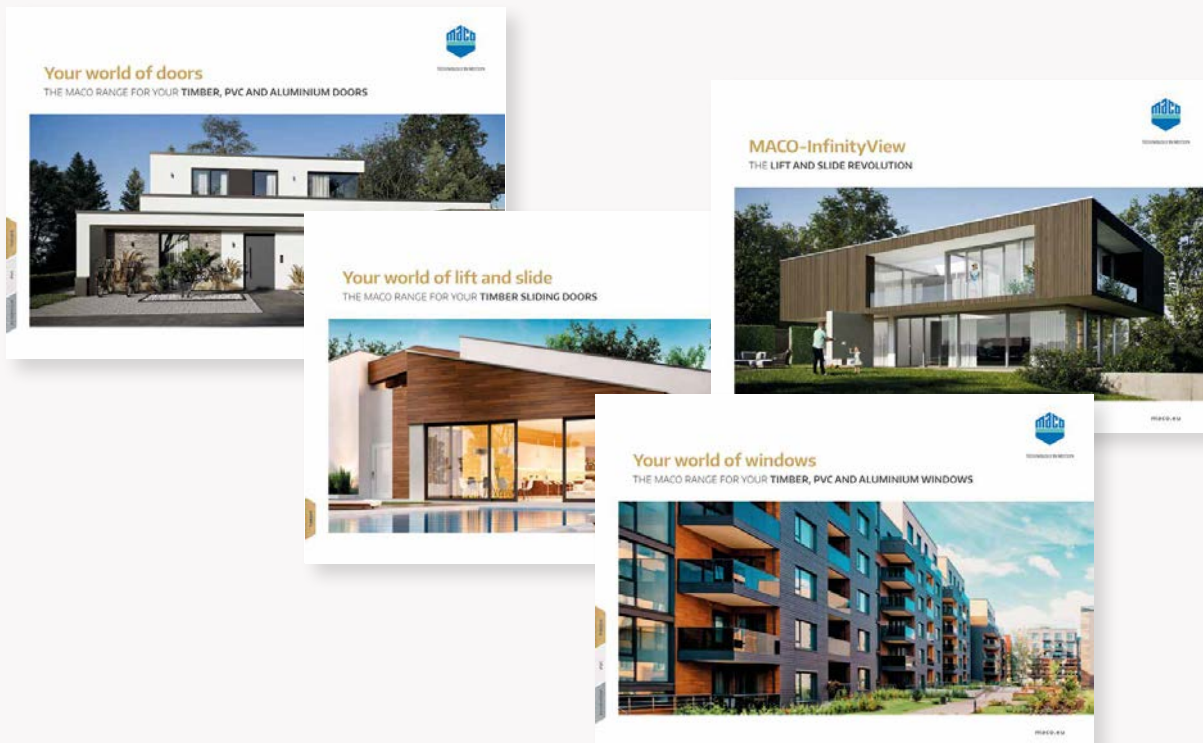
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