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Hardware specification for profiles with U groove(16mm)





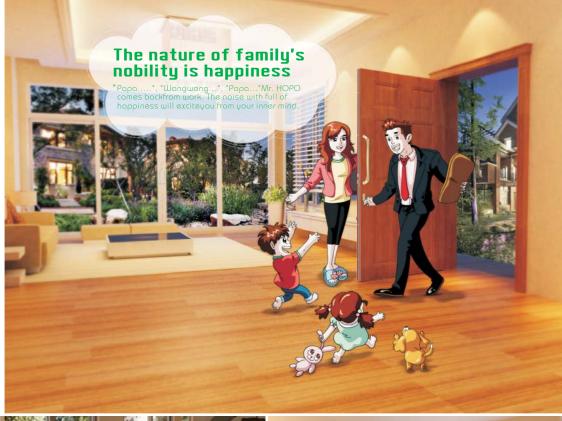


The nature of family's nobility is happiness

The greatness of love is honesty

The success of career comes from sharing

Dream can be realized only with insistence

















Starting from normal sliding windows and doors solutions, including roller carriages, locking systems and handles, our product range has been expanded to all kinds of window and patio door fitting systems, as well as electric ventilators and RWA system (smoke and heat extraction system with normal ventilation function). Our purpose is to provide systematic solutions for windows and doors fabricators, and curtain wall companies. Highest quality and perfect function to fit various requirements of modern buildings with modern architectural designs is always our target.

Our experience to cooperate with world-wide famous window and door fittings companies improved our quality control system. We are lunching products with special galvanizing technology, targeting at environment protection and high anti-rust levels. We even developed complete stainless stain steel (SS304) solutions for tilt-turn windows and transmission gears for wood and PVC windows and doors. Quality, humanization, environment protection are principles for technical research and development which forms the foundation of sustainable development of the company



HOPO in field of solutions for sliding windows and doors (including rollers, gears & handles, MA locks, butterfly locks) is the leading brand in Chinese market and some overseas market. Among the standard window fittings (tilt-turn, casement, top-hung, etc. for aluminum, wood and PVC profiles), HOPO tilt-turn and transmission gears made of stainless steel SS304 is the only one in the world at present, with highest anti-rust property, with ideas of environment protection and Recycling. The designs of HOPO lift-sliding and sliding-folding systems had completed from thorough study of all systems of top-brands in Europe, achieving the final optimized solutions with features of stable usage, easy adjustment and operation, maintenance-free. HOPO patent aluminum sliding folding system, SF65, is very attractive in the market. Ventilator and electric window opening systems have been supplied to the market with years' experience.

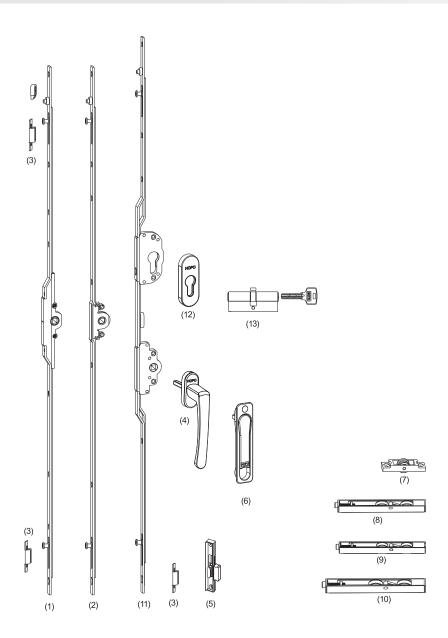
HOPO technical service for application including profile design, hardware specifications, drawings for installation and adjustment are key points to ensure perfect function of HOPO fittings. Thorough technical clarification is the basis of all HOPO business.

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Specification for Sliding Windows and Doors

| • | | 9 | | | | |
|-----------------|------------------|---------------------------------------|----------------|------|------|-------------------------------|
| | | Description | Article Number | Unit | Q'ty | Notes |
| | | | GV40.75.04C021 | рс | | |
| | | | GV40.75.06C021 | рс | 1 | 2 mushroom locking pir |
| | | | GV40.75.08C021 | рс | 1 | 2 mas iloom looking pii |
| | 7.5mm Backset | 1. Gear transmission | GV40.75.10C021 | рс | 1 | |
| | Dackset | | GV40.75.12C021 | рс | 1 | |
| | | | GV40.75.14C021 | рс | 1 | 3 mushroom locking pir |
| | | | GV40.75.16C021 | рс | 1 | |
| Active | | | GV40.15.04C021 | рс | | |
| leaf | | | GV40.15.06C021 | рс | 1 | |
| | | | GV40.15.08C021 | рс | 1 | 2 mushroom locking pir |
| | 15mm Backset | 2. Gear transmission | GV40.15.10C021 | рс | 1 | |
| | backset | | GV40.15.12C021 | рс | 1 | |
| | | | GV40.15.14C021 | рс | 1 | 3 mushroom locking pir |
| | | | GV40.15.16C021 | рс | 1 | |
| | | 3. Locking plate for sliding doors | PLP40.00.021 | рс | 2~3 | According to profile |
| | | 4. Standard handle | PH100.30.07 | рс | 1 | White |
| | Caluatan 1 | 5. Slide fastener | SBL40.00.07 | рс | 1 | |
| | Solution 1 | 3. Locking plate for sliding doors | PLP40.00.021 | рс | 1 | |
| Passive leaf | | 6. Concealed handle | PH400.20.07 | рс | 1 | According to profile |
| icui | Solution 2 | Gear transmission | | рс | 1 | |
| | | 3. Locking plate for sliding doors | PLP40.00.021 | рс | 2~3 | According to profiles |
| | | 7. Single roller carrige | R16.161100.021 | рс | 2 | WEKA/Shide/Conch |
| | | 8. Roller for sliding door | R01.122007.021 | рс | 2 | WEKA/Shide/Conch |
| Rollers | | Acc. | RPS10.00.07X | рс | 2 | Koemmerling |
| 101 PV | C profiles | 9. Double roller | R12.121805.021 | рс | 2 | WEKA/Shide/Conch |
| | | 10. Heavy duty roller | R02.162807.021 | рс | 2 | Roller mounted on reinforceme |
| Cylinder | solution: to | change fittings of Active leaf with t | he following: | | | |
| | | 11. Gear transmission with cylinder | GV41.15.16C021 | рс | 1 | 2 mushroom locking pir |
| | | 3. Locking plate for sliding doors | PLP40.00.021 | рс | 2 | According to profile |
| | | | PH100.00.07 | set | 1 | White |
| Active | a leaf | 4. Double-sides handle | PH101.00.07 | set | 1 | White |
| | ylinder | Square spindle (7x7) 102mm | SP7.102 | рс | 1 | According to profile |
| | | Screws | SC5.01.75 | рс | 2 | M5×75 |
| | | 12. Rosette | CC50.0707 | set | 1 | White |
| | | 13. Cylinder | C98.3030C029 | рс | 1 | According to profile |
| | | | | | | |





Roller Carriges

HOPO's rollers cover wide range of application. The following 4 rollers are used for standard PVC profiles. Options are bearing steel or stainless steel for bearings, galvanized steel or stainless steel for the carriges, height adjustable or unadjustable, single roller, double rollers or 4 rollers for the roller structures. Load of roller carriges are 40, 50, 80, 90, 120, 150, 200, 300kg. For detailed information about HOPO roller carriges, please check at web-site: www.hopo.us.









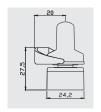
Crescent Lock

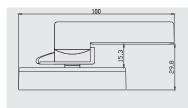
We believe that perfect solution comes from combination between mechanical technology and esthetical design. HOPO crescent lock is an example of such creature.

Material: Zinc alloy

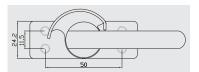
Technology: hand shank and rosette are dye-casting; painting finishes; high quality spring steel for the inside spring; stainless steel SS304 for the hook; concealed screw installation.

Color: White, black, or as request





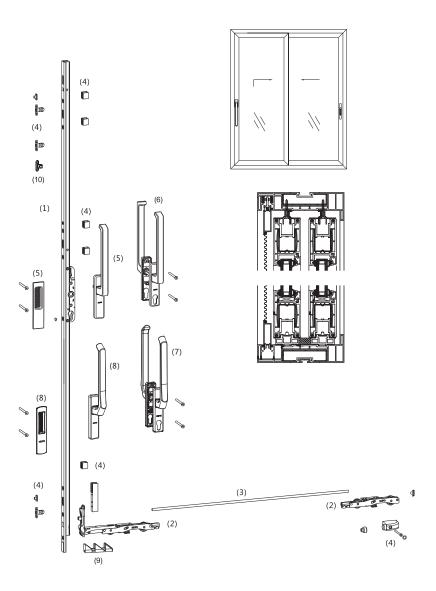




CL437.01.069R







Lift-sliding door fitting (150kg)

Max. weight of sash is 150kg. When turning down the handle, the door leaf drops down, gaskets on top and bottom can achieve perfect sealing effect. The fitting is maintenance free and have a very long life time.

| Items | Description | Article Number | Unit | Notes |
|-------|---------------------------------|----------------|------|-----------------------|
| 1 | Gear of lift-sliding | LSG715.00.011 | рс | |
| 2 | Bag of roller carriages | LSBR715.00.015 | set | |
| | Connecting rod | LSS70.11C38 | | |
| 3 | Connecting rod | LSS70.18C38 | рс | |
| | Connecting rod | LSS70.20C38 | | |
| 4 | Bag of accessories | LSAB70.00 | bag | |
| _ | Single-side handle + flush pull | SLSH70.00.011 | | without cylinder hole |
| 5 | Single-side handle + flush pull | SLSH70.01.011 | set | with cylinder hole |
| | Double-sides handle | SLSH71.00.011 | | without cylinder hole |
| 6 | Double-sides handle | SLSH71.01.011 | set | with cylinder hole |
| _ | Double-sides handle | LSHD702.00.011 | | without cylinder hole |
| 7 | Double-sides handle | LSHD702.01.011 | set | with cylinder hole |
| _ | Single-side handle + flush pull | LSHS702.00.011 | | without cylinder hole |
| 8 | Single-side handle + flush pull | LSHS702.01.011 | set | with cylinder hole |
| 9 | Opening restrictor | LTB70.00.021 | рс | |
| 10 | Locking plates | LSLP70.01.021 | рс | |

Note:

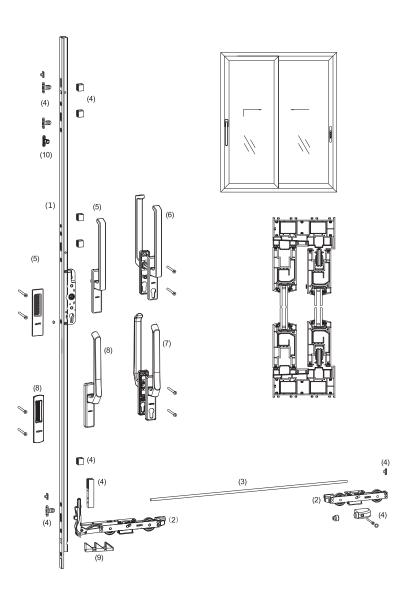
The spacers inside the bag of accessories can be ordered with different height dimensions, 25mm, 21mm, 16mm, 13mm.

| | Square spindle (10x10) 100mm | SP10.100 | 1pc |
|------|--|-----------------------|------------|
| | Screws SC6.01.60 | | 2pcs |
| tems | and 7 contents | | |
| | | | |
| | Square spindle (10x10) 100mm | SP10.150 | 1pc |
| | Square spindle (10x10) 100mm Screws | SP10.150 SC6.01.60 | 1pc 2pc |

| Plastic adaptor | 2pcs | M5*16Stainless steel screws | 1pc |
|---------------------|------|------------------------------|------|
| Plastic cover | 2pcs | M5*30Stainless steel screws | 1pc |
| Big spacer | 1pc | ST5*20Stainless steel screws | 4pcs |
| Small spacers | 5pcs | ST5*40Stainless steel screws | 4pcs |
| Anticollision block | 2pcs | ST5*50Stainless steel screws | 1pcs |
| Anti-lifting block | 2pcs | ST5*70Stainless steel screws | 6pcs |
| Locking plates | 2pcs | | Τ΄ |







Lift-sliding door fitting (250kg)

Max. weight of sash is 250kg. When turning down the handle, the door leaf drops down, gaskets on top and bottom can achieve perfect sealing effect. The fitting is maintenance free and have a very long life time.

| Items | Description | Article Number | Unit | Notes |
|-------|---------------------------------|----------------|------|-----------------------|
| 1 | Gear of lift-sliding | LSG725.00.011 | рс | |
| 2 | Bag of roller carriages | LSBR725.00.015 | set | |
| | Connecting rod | LSS70.11C38 | | |
| 3 | Connecting rod | LSS70.18C38 | рс | |
| | Connecting rod | LSS70.20C38 | | |
| 4 | Bag of accessories | LSAB70.00 | bag | |
| _ | Single-side handle + flush pull | SLSH70.00.011 | | without cylinder hole |
| 5 | Single-side handle + flush pull | SLSH70.01.011 | set | with cylinder hole |
| _ | Double-sides handle | SLSH71.00.011 | set | without cylinder hole |
| 6 | Double-sides handle | SLSH71.01.011 | set | with cylinder hole |
| _ | Double-sides handle | LSHD702.00.011 | set | without cylinder hole |
| 7 | Double-sides handle | LSHD702.01.011 | set | with cylinder hole |
| 0 | Single-side handle + flush pull | LSHS702.00.011 | | without cylinder hole |
| 8 | Single-side handle + flush pull | LSHS702.01.011 | set | with cylinder hole |
| 9 | Opening restrictor | LTB70.00.021 | рс | |
| 10 | Locking plates | LSLP70.01.021 | рс | |

Note:

The spacers inside the bag of accessories can be ordered with different height dimensions, 25mm, 21mm, 16mm, 13mm.

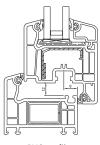
| | Square spindle (10x10) 100mm SP10.100 | | | | | |
|------------------------|--|----------|------|--|--|--|
| | Screws SC6.01.60 | | 2pcs | | | |
| Items 6 and 7 contents | | | | | | |
| tems | 6 and 7 contents | | | | | |
| tems | 6 and 7 contents Square spindle (10x10) 100mm | SP10.150 | 1pc | | | |

| Item 4 contents: | | | |
|---------------------|------|------------------------------|------|
| Plastic adaptor | 2pcs | M5*16Stainless steel screws | 1pc |
| Plastic cover | 2pcs | M5*30Stainless steel screws | 1pc |
| Big spacer | 1pc | ST5*20Stainless steel screws | 4pcs |
| Small spacers | 5pcs | ST5*40Stainless steel screws | 4pcs |
| Anticollision block | 2pcs | ST5*50Stainless steel screws | 1pcs |
| Anti-lifting block | 2pcs | ST5*70Stainless steel screws | 6pcs |
| Locking plates | 2pcs | | |

Article number for bag of accessories without locking plates: LSAB70.50.25



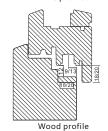






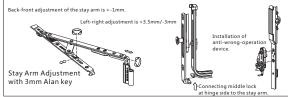


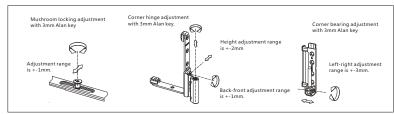




Alu-wood profile







Features of Tilt-turn Windows

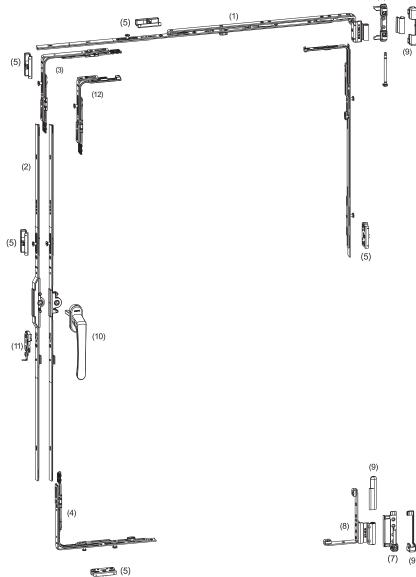
- Ventilation: Tilt position is ideal for ventilation because of ensuring safety of leaf and preventing direct blowing of strong wind.
- 2. Tilt position will not occupy big space of room.
- High security level can be achieved with mushroom locking pins well arranged along the window edges.
- 4. Turn position makes cleaning window very easy.
- 5. Locking system can achieve high level of sealing effect.
- 6. Application range: SRH (sash rebate height) = 480mm, SRW (sash rebate width) = 350 1600mm
- 7. Sash weight: Max. 130kg
- 8. Range of adjustment: vertical +-3mm, left to right +-3mm, back and front +-1mm
- 9. Surface treatment: galvanized, above 500hrs salt spray-test.
- 10. Anti-rust solution: all steel parts are made of stainless steel SS304. Note: the SS304 solution used only for profile with 13mm groove position.









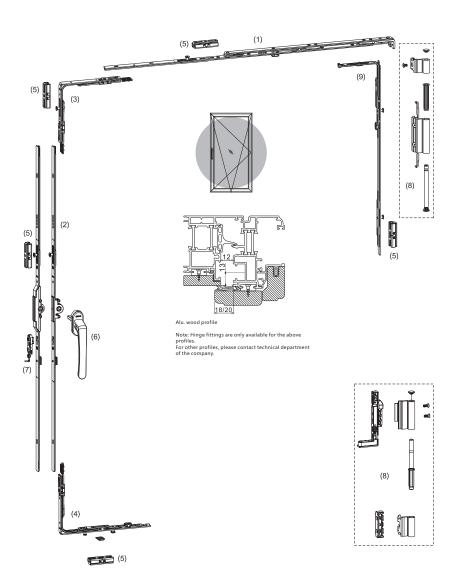


Specification of Tilt-turn Windows

| SRH | Description | Article Number | Unit | Q'ty | Number of locking pins | | Notes |
|------------------------|----------------------------------|------------------------|------|------|---------------------------|-----|------------------------------------|
| For profiles with | n 9mm groove posit | ion and 20mm sash reb | ate | | | | |
| | | PSA21.09.04C021L/R | рс | | 0 | S | 350~560mm |
| | 1. Stay arm | PSA21.09.06C021L/R | рс | 1 | 0 | R | 561~800mm |
| | | PSA21.09.08C021L/R | рс | | 1 | w | 801~1050mm |
| 550~700mm | | GK10.75.04C021 | рс | | 0 | | |
| 701~1200mm | 2. Gear transmission | GK10.75.09C021 | рс | 1 | 1 | 1 | |
| 1201~1700mm | 1 | GK10.75.14C021 | рс | | 1 | 1 | |
| | 3. Corner transmission | PCT11.00.021 | рс | 1 | 1 | | |
| | 4. Tilt corner transmission | PTCT11.00.021 | рс | 1 | 1 | | |
| | 5. Locking plate | PLP11.09.01C021 | рс | 2~4 | | De | pend on profile |
| | 6. Stay arm bearing | PSAB20.00.021 | рс | 1 | | | |
| | 7. Corner bearing | PCB20.00.021R/L | рс | 1 | | | |
| | 8. Corner hinge | PCH20.09.021R/L | рс | 1 | | | |
| | 9. Bag of covers | PCP20.00.07R/L | set | 1 | | Wh | iite |
| | 10. Handle | PH100.35.07 | рс | 1 | | Wh | iite |
| | 11. Anti-wrong -operation device | POW10.09.021 | рс | 1 | | | available for geansmission size 04 |
| For profiles with | n 13mm groove pos | ition and 20mm sash re | bate | | | | |
| | | PSA21.13.04C021R/L | рс | | 0 | S | 350~560mm |
| | 1. Stay arm | PSA21.13.06C021R/L | рс | 1 | 0 | R | 561~800mm |
| | | PSA21.13.08C021R/L | рс | | 1 | W | 801~1050mm |
| 550~700mm | | GK10.75.04C021 | рс | | 0 | | |
| 701~1200mm | 2. Gear transmission | GK10.75.09C021 | рс | 1 | 1 | | |
| 1201~1700mm | | GK10.75.14C021 | рс | | 1 | | |
| | 3. Corner transmission | PCT11.00.021 | рс | 1 | 1 | | |
| | 4. Tilt corner transmission | PTCT11.00.021 | рс | 1 | 1 | | |
| | 5. Locking plate | PLP11.13.01C021 | рс | 2~4 | | De | pend on profil |
| | 6. Stay arm bearing | PSAB20.00.021 | рс | 1 | | | |
| | 7. Corner bearing | PCB20.00.021R/L | рс | 1 | | | |
| | 8. Corner hinge | PCH20.13.021R/L | рс | 1 | | | |
| | 9. Bag of covers | PCP20.00.07R/L | set | 1 | | W | hite |
| | 10. Handle | PH100.35.07 | рс | 1 | | W | hite |
| | 11. Anti-wrong -operation device | POW10.09.021 | рс | 1 | | Op | otional |
| For smaller sash width | 12. Corner transmission | PCT11.20.021 | рс | 1 | 1 | | |
| | | PH100.35.011 | рс | 1 | | Ar | odized silver |
| | 1. Handle | PH100.35.04 | рс | 1 | | Ar | odized brass |
| Colors | | PH100.35.069 | рс | 1 | | Bla | ack |
| Colors | | PCP20.00.012R/L | set | 1 | | Sil | ver |
| | 9. Bag of covers | PCP20.00.043R/L | set | 1 | | Br | ass |
| | | PCP20.00.069R/L | set | 1 | | Bla | ack |



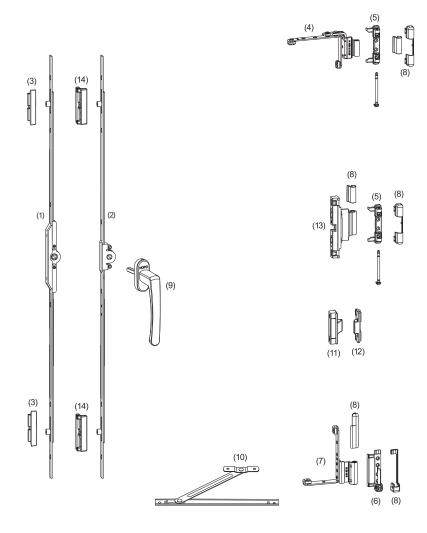




ATT90 - Specification of Tilt-turn Fittings for Alu. wood profile

| SRH Description | | Article Number | Unit | Q'ty | Number of locking pins | Notes | | | | | |
|------------------|------------------------------------|----------------------|-------|------|---------------------------|---------------------------|---------------|---|---|-----------|--|
| For profiles wit | h 9mm groove posit | ion and 18/20mm sash | rebat | :e | | | | | | | |
| | | PSA21.13.04C021L/R | рс | 1 | 0 | S | 460~560mm | | | | |
| | 1. Stay arm | PSA21.13.06C021L/R | рс | | 1 | 1 | 1 | 0 | R | 561~800mm | |
| | | PSA21.13.08C021L/R | рс | | 1 | W | 801~1050mm | | | | |
| 550~700mm | | GK10.15.04C021 | рс | | 0 | | | | | | |
| 701~1200mm | 2. Gear transmission | GK10.15.09C021 | рс | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 1201~1700mm | | GK10.15.14C021 | рс | | 1 | | | | | | |
| | 3. Corner transmission | PCT11.00.021 | рс | 1 | 1 | | | | | | |
| | 4. Tilt corner transmission | PTCT11.00.021 | рс | 1 | 1 | | | | | | |
| | 5. Locking plate | ALP11.13.01C021 | рс | 2~4 | | Depend on profil White | | | | | |
| | 6. Handle | PH100.35.07 | рс | 1 | | | | | | | |
| | 7. Anti-wrong -operation device | POW10.09.021 | рс | 1 | | Ор | tional | | | | |
| | 8. Hinge set | AHA90.00.07 | рс | 1 | | Wh | nite | | | | |
| Optional parts | | | | | | | | | | | |
| | 9. Middle lock at hinge side | PMLCT11.05.021 | рс | 1 | | | | | | | |
| | | PH100.35.011 | рс | 1 | | An | odized silver | | | | |
| | 1. Handle | PH100.35.04 | рс | 1 | | An | odized brass | | | | |
| Colors | | PH100.35.069 | рс | 1 | | Bla | ck | | | | |
| Colors | | AHA90.00.011 | set | 1 | | Silv | ver | | | | |
| | 8. Hinge set | AHA90.00.04 | set | 1 | | Bra | iss | | | | |
| | | AHA90.00.069 | set | 1 | | Bla | ck | | | | |





Specification for side-hung inward opening windows

| | Description | Article Number | Unit | Q'ty | No. of locking pins | | | | | | | | | |
|----------------------------|---|------------------------|----------|------|---------------------|----|----|----|----|----|----|----|---|----------------|
| For profiles w | vith 9mm groove position and 20m | m sash rebate | | | | | | | | | | | | |
| | | GV20.75.04C021 | | | | | | | | | | | | |
| | | GV20.75.06C021 | рс | 1 | 2 locking pins | | | | | | | | | |
| | | GV20.75.08C021 | ρc | | 2 locking pins | | | | | | | | | |
| 7.5mm | 1. Gear | GV20.75.10C021 | | | | | | | | | | | | |
| Backset | | GV20.75.12C021 | | | | | | | | | | | | |
| | | GV20.75.14C021 | рс | рс | рс | рс | рс | рс | рс | рс | рс | рс | 1 | 3 locking pins |
| | | GV20.75.16C021 | | | | | | | | | | | | |
| | | GV20.15.04C021 | | | | | | | | | | | | |
| | | GV20.15.06C021 | | | 2 laskina nins | | | | | | | | | |
| | | GV20.15.08C021 | рс | 1 | 2 locking pins | | | | | | | | | |
| 15mm | 2. Gear | GV20.15.10C021 | | | | | | | | | | | | |
| Backset | | GV20.15.12C021 | | | | | | | | | | | | |
| | | GV20.15.14C021 | рс | 1 | 3 locking pins | | | | | | | | | |
| | | GV20.15.16C021 | | | | | | | | | | | | |
| | 3. Locking plate | PLP10.09.021 | рс | 2~3 | | | | | | | | | | |
| | 4. Upper hinge | PTH20.09.021 | рс | 1 | | | | | | | | | | |
| | 5. Stay arm bearing | PSAB20.00.021 | рс | 1 | | | | | | | | | | |
| Hinge parts | 6. Corner bearing | PCB20.00.021R/L | рс | 1 | | | | | | | | | | |
| | 7. Corner hinge | PCH20.09.021R/L | рс | 1 | | | | | | | | | | |
| | 8. Bag of covers | PCP20.00.07R/L | bag | 1 | White | | | | | | | | | |
| | 9. Handle | PH100.35.07 | рс | 1 | White | | | | | | | | | |
| | 10. Opening restrictor | TR16.18.16.12C38 | рс | 1 | | | | | | | | | | |
| Optional midd | lle hinge can improve sealing effect wh | nen sash height is mor | e than 9 | 00mm | | | | | | | | | | |
| | 11. Concealed middle hinge, frame part | PCMHF10.09.021 | рс | 1 | | | | | | | | | | |
| | 12. Concealed middle hinge, sash part | PCMHS10.00.021 | рс | 1 | | | | | | | | | | |
| | 13. Middle hinge | PMH20.09.021 | рс | 1 | | | | | | | | | | |
| Middle hinge | 5. Stay arm bearing | PSAB20.00.021 | рс | 1 | | | | | | | | | | |
| | 8. Bag of covers | PCP20.00.07R/L | bag | 1 | | | | | | | | | | |
| For profiles w | rith 13mm groove position and 20m | ım sash rebate | | | | | | | | | | | | |
| | 4. Upper hinge | PTH20.13.021 | рс | 1 | | | | | | | | | | |
| | 5. Stay arm bearing | PSAB20.00.021 | рс | 1 | | | | | | | | | | |
| Replace hinge | 6. Corner bearing | PCB20.00.021R/L | рс | 1 | | | | | | | | | | |
| part with | 7. Corner hinge | PCH20.13.021R/L | рс | 1 | | | | | | | | | | |
| | 8. Bag of covers | PCP20.00.07R/L | bag | 1 | White | | | | | | | | | |
| Replace locking plate with | 14. Locking plate | PLP10.13.02C021 | рс | 2~3 | | | | | | | | | | |
| | 13. Middle hinge | PMH20.13.021 | рс | 1 | | | | | | | | | | |
| Replace middle | 5. Stay arm bearing | PSAB20.00.021 | рс | 1 | | | | | | | | | | |
| hinge with | 8. Bag of covers | PCP20.00.07R/L | bag | 1 | | | | | | | | | | |



(2-2) (2-1) (1-1) (1-2) Wood profile PVC profile (2-1) (2-2)

Casement window (groove position 9mm, sash rebate 20mm)

| | Description | Article Number | Unit | Q'ty | Notes |
|---------|---|-----------------|------|------|-------------------------|
| | | GV31.19.04C021 | рс | | |
| | | GV31.19.06C021 | рс | | 2 la diina alataa |
| | | GV31.19.08C021 | рс | | 2 locking plates |
| 19mm | 1-1. Gear transmission | GV31.19.10C021 | рс | 1 | |
| Backset | (Talisillission | GV31.19.12C021 | рс | | |
| | | GV31.19.14C021 | рс | | 3 locking plates |
| | | GV31.19.16C021 | рс | | |
| | | GV31.22.04C021 | рс | | |
| | 1-2. Gear transmission | GV31.22.06C021 | рс | 1 | 2 locking plates |
| | | GV31.22.08C021 | рс | | 2 locking plates |
| 22mm | | GV31.22.10C021 | рс | | |
| Backset | | GV31.22.12C021 | рс | | |
| | | GV31.22.14C021 | рс | | 3 locking plates |
| | | GV31.22.16C021 | рс | | |
| | 2-1. Locking plate | PLP10.09.021 | рс | 2~3 | According to profile |
| | 2-2. Locking plate | PLP10.13.02C021 | PC | 2 3 | According to profile |
| | 3. Handle for casement window | PH310.40.07 | рс | 1 | White |
| | | SFH18.13.12C38 | | | Opening angle 64 degree |
| | 4. Standard friction hinge Overlay height 13.5mm | SFH18.13.14C38 | pair | 1 | Opening angle 55 degree |
| | | SFH18.13.16C38 | | | Opening angle 55 degree |
| | | HFH22.16.12C38 | | | Opening angle 87 degree |
| | 5. Heavy duty friction hinge Overlay height 16.5mm | HFH22.16.14C38 | pair | 1 | Opening angle 88 degree |
| | | HFH22.16.16C38 | | | Opening angle 89 degree |

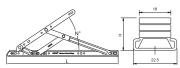
2 2 3 3 3 10 te turn window 4 4 10 te turn window 7 7 10 pandien shore 7 10 pandien shore 7 10 pandien shore 7 10 pandien shore 10 pandien sho



Friction hinge

3 kinds of friction hinges with overlay heights of 13.5mm, 16.5mm and 17mm can be chosen for different profiles and different load. HOPO friction hinges are made of stainless steel SS304.











Technical Specifications of Standard Friction hinges

| Length(in) | Open Angle | Overlay height | Max. Vent weight | Steel plate thickness | Article number |
|------------|------------|-------------------|---------------------|-----------------------|----------------|
| 08" | 87° | 13.5mm | 12kg | 2.0mm | SFH18.13.08C38 |
| 10" | 87° | 13.5mm | 16kg | 2.0mm | SFH18.13.10C38 |
| 12" | 64° | 13.5mm | 22kg | 2.0mm | SFH18.13.12C38 |
| 14" | 55° | 13.5mm | 22kg | 2.0mm | SFH18.13.14C38 |
| 16" | 55° | 13.5mm | 24kg | 2.0mm | SFH18.13.16C38 |
| 08" | 87° | 16.5mm | 16kg | 2.5mm | SFH18.16.08C38 |
| 10" | 87° | 16.5mm | 22kg | 2.5mm | SFH18.16.10C38 |
| 12" | 64° | 16.5mm | 25kg | 2.5mm | SFH18.16.12C38 |
| 14" | 55° | 16.5mm | 30kg | 2.5mm | SFH18.16.14C38 |
| 16" | 55° | 16.5mm | 32kg | 2.5mm | SFH18.16.16C38 |

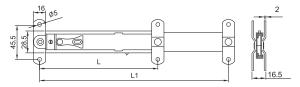
Technical Specifications of Enhanced Friction hinges

| Length(in) | Open Angle | Overlay height | Max. Vent weight | Steel plate thickness | Article number |
|------------|------------|-------------------|---------------------|-----------------------|----------------|
| 10" | 87° | 16.5mm | 25kg | 2.5mm | HFH22.16.10C38 |
| 12" | 87° | 16.5mm | 30kg | 2.5mm | HFH22.16.12C38 |
| 14" | 87° | 16.5mm | 32kg | 2.5mm | HFH22.16.14C38 |
| 16" | 87° | 16.5mm | 35kg | 2.5mm | HFH22.16.16C38 |
| 18" | 87° | 16.5mm | 38kg | 2.5mm | HFH22.16.18C38 |
| 20" | 87° | 16.5mm | 41kg | 2.5mm | HFH22.16.20C38 |
| 22" | 55° | 16.5mm | 48kg | 2.5mm | HFH22.16.22C38 |
| | | | | | |

Technical Specifications of Heavy Duty Friction hinges

| Length(in) | Open Angle | Overlay height | Max. Vent weight | Steel plate thickness | Article number |
|------------|------------|-------------------|---------------------|-----------------------|-----------------|
| 10" | 87° | 17mm | 30kg | 3.0mm | FH01.2216.10C38 |
| 12" | 87° | 17mm | 35kg | 3.0mm | FH01.2216.12C38 |
| 14" | 87° | 17mm | 38kg | 3.0mm | FH01.2216.14C38 |
| 16" | 87° | 17mm | 40kg | 3.0mm | FH01.2216.16C38 |
| 18" | 87° | 17mm | 43kg | 3.0mm | FH01.2216.18C38 |
| 20" | 87° | 17mm | 46kg | 3.0mm | FH01.2216.20C38 |
| 22" | 55° | 17mm | 53kg | 3.0mm | FH01.2216.22C38 |
| 22" | 55° | 17mm | 56kg | 3.0mm | FH01.2216.24C38 |

Opening restricter

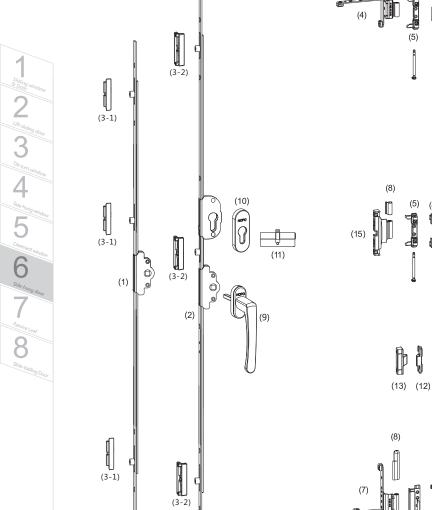




| Size | Closing Length | Extending length | Article Number |
|------|-------------------|------------------|-------------------|
| 06 | 158 | 208 | SS17.06C38 |
| 08 | 207 | 306 | SS17.08C38 |
| 10 | 258 | 408 | SS17.10C38 |
| 12 | 308 | 508 | SS17.12C38 |



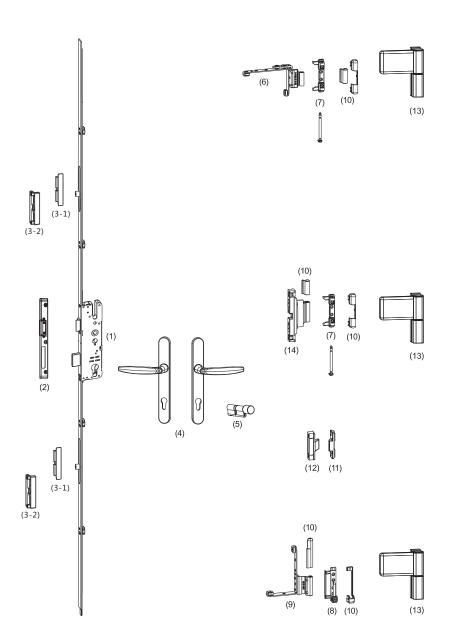




Specifications for Single-leaf Doors

| For profiles: | Description | Article Number | Unit | Q'ty | Notes |
|---|--|-----------------------------|----------|------|--------------------------|
| ror profiles wi | th 9mm groove position and 20mm sash | | | | |
| 25mm | | GV20.25.16C021 | | | |
| Backset | | GV20.25.18C021 | | | |
| | 1. Gear transmission, | GV20.25.20C021 | pc | | |
| 20 | center fixing | GV20.30.16C021 | | | |
| 30mm Backset | | GV20.30.18C021 | | | |
| | | GV20.30.20C021 | | 1 | 3 locking pins |
| | | GV21.25.16C021 | | 1 | 3 locking pins |
| 25mm Backset | | GV21.25.18C021 | | | |
| Dackset | 2. Gear transmission with | GV21.25.20C021 | рс | | |
| | cylinder, center fixing | GV21.30.16C021 | PC | | |
| 30mm Backset | Cylinder, center fixing | GV21.30.18C021 | 1 | | |
| Dackset | | GV21.30.20C021 | 1 | | |
| | 3-1. Locking plate | PLP10.09.021 | рс | 3 | |
| | 4. Top hinge | PTH20.09.021 | рс | 1 | |
| | 5. Stay arm bearing | PSAB20.00.021 | рс | 1 | |
| Hinge parts | 6. Corner bearing | PCB20.00.021R/L | рс | 1 | |
| ge parts | 7. Corner hinge | PCH20.09.021R/L | рс | 1 | |
| | 8. Bag of covers | PCP20.00.07R/L | bag | 1 | |
| Option for Gear transmission without cylinder | 9. Single side handle | PH100.35.07 | рс | 1 | |
| William Cymriaer | | PH100.00.07 | | Н | |
| | 9. Double sides handle set | PH100.00.07 | рс | 1 | |
| Option for Gear | Square spindle(7x7)102mm | SP7.102 | | 1 | Depends on profiles |
| transmission with cylinder | | | pc | - | |
| | 10. Rosettes for Cylinder | CC50.0707 | set | 1 | White, both sides |
| | 11. Cylinder | C98.4040C4T029 | рс | 1 | Depends on profiles |
| 1. Option for r | niddle hinge for sash height more than 9 | | | | |
| | 12. Concealed middle hinge, frame part | PCMHF10.09.021 | рс | 1 | |
| | 13. Concealed middle hinge, sash part | PCMHS10.00.021 | рс | 1 | |
| 2. 3D hinges ca | an replace the hinge parts | | | | |
| | | PTH51.00.07 | | | White |
| | 14 3D adjustable bings | PTH51.00.069 | | 2~3 | Black |
| | 14. 3D adjustable hinge | PTH51.00.043 | рс | 2 3 | Bronze |
| | | PTH51.00.012 | | | Silver |
| For profiles wi | th 13mm groove position and 20mm sasl | n rebate | | | |
| | 4. Top hinge | PTH20.13.021 | рс | 1 | |
| | 5. Stay arm bearing | PSAB20.00.021 | рс | 1 | |
| Hinge parts | 6. Corner bearing | PCB20.00.021R/L | рс | 1 | |
| | 7. Corner hinge | PCH20.13.021R/L | рс | 1 | |
| | 8. Bag of covers | PCP20.00.07R/L | bag | 1 | White |
| Locking plate | 3-2. locking plate | PLP10.13.02C021 | pc | 3 | **IIIC |
| g place | 15. Middle hinge | PMH20.13.021 | рс | 1 | |
| Middle hinge | 5. Stay arm bearing | PSAB20.00.021 | рс | 1 | |
| i i i i i i i i i i i i i i i i i i i | 8. Bag of covers | PCP20.00.07R/L | bag | 1 | |
| | o. bag of covers | | | 1 | Silver |
| | Q Pag of source | PCP20.00.012R/L | bag | - | |
| | 8. Bag of covers | PCP20.00.043R/L | bag | 1 | Bronze |
| Colors | | PCP20.00.069R/L | bag | 1 | Black |
| | | PH100.35.011 | рс | 1 | Anodized silver |
| | | | | | |
| | 9. Handle | PH100.35.04 PH100.35.069 | pc pc | 1 | Anodized bronze Black |





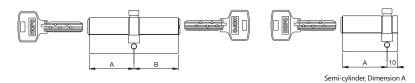
Specification of Handle-operated Multi-points Lock for Single Door

| Specifica | tion of Ha | ndle-operated Mult | i-points Lock fo | or S | ıngl | e Door |
|----------------|--|-----------------------------------|-------------------|------|------|-----------------------|
| | | Description | Article Number | Unit | Q'ty | Notes |
| For profiles v | with 9mm groov | e position and 20mm sash reba | te | | | |
| 35mm/92mm | 1. Handle-ope | erated Multi-points Lock | SDLH51.35.16C | рс | 1 | Length: 2180mm |
| | | GP 9mm, left | ALPD50.01.021L | | | |
| | | GP 9mm, right | ALPD50.01.021R | | | |
| | | GP 13mm, left | ALPD50.02.021L | | | |
| | | GP 13mm, right | ALPD50.02.021R | | | |
| | 2. Adjustable | Movable mullion, GP 9mm, left | ALPD50.03.021L | | ١. | According |
| | locking plate for door | Movable mullion, GP 9mm, right | ALPD50.03.021R | рс | 1 | to profiles |
| | IOI GOOI | Movable mullion, GP 13mm, left | ALPD50.04.021L | | | |
| | | Movable mullion, GP 13mm, right | ALPD50.04.021R | | | |
| | | Movable mullion, no groove, left | ALPD50.06.021L | | | |
| | | Movable mullion, no groove, right | ALPD50.06.021R | | | |
| | 3-1. Locking | | PLP10.09.021 | рс | 4 | |
| | | es door handle | HSD531.0707 | set | 1 | White |
| | | ndle (8x8) 110mm | SP8.110 | рс | 1 | According to profiles |
| | Screws | | SC5.01.75 | | 3 | J |
| | 5. Cylinder wi | th knob | C99.4040C4T029 | рс | 1 | According to profiles |
| | 6. Top hinge | arranes | PTH20.09.021 | рс | 1 | 7 toording to promot |
| | 7. Stay arm b | earing | PSAB20.00.021 | рс | 1 | |
| Hinge parts | 8. Corner bea | | PCB20.00.021R/L | рс | 1 | |
| i migo parto | 9. Corner hing | | PCH20.09.021R/L | рс | 1 | |
| | 10. Bag of cove | - | PCP20.00.07R/L | bag | 1 | |
| 1 Ontional n | | eash height more than 900mm | 1 61 20.00.0710/2 | bug | 1 - | |
| 1. Optional ii | | | PCMHF10.09.021 | рс | 1 | |
| | Concealed middle hinge, frame part Concealed middle hinge, sash part | | PCMHS10.00.021 | r- | 1 | |
| 2 2D hinana | can replace the | | PCMH310.00.021 | рс | 1 | |
| 2. 3D ninges | can replace the | ninge parts | T | | | |
| | | | PTH51.00.07 | | | White |
| | 13. 3D adjustal | ole hinge | PTH51.00.069 | рс | 2~3 | Black |
| | , | · · | PTH51.00.043 | ļ · | | Bronze |
| | | | PTH51.00.012 | | | Silver |
| For profiles v | vith 13mm groov | re position and 20mm sash rebate | 9 | | | |
| | 6. Top hinge | | PTH20.13.021 | рс | 1 | |
| | 7. Stay arm b | earing | PSAB20.00.021 | рс | 1 | |
| Hinge parts | 8. Corner bea | ring | PCB20.00.021R/L | рс | 1 | |
| | 9. Corner hing | је | PCH20.13.021R/L | рс | 1 | |
| | 10. Bag of cove | | PCP20.00.07R/L | bag | 1 | White |
| Locking plate | 3-2. locking p | olate | PLP10.13.02C021 | рс | 4 | Depends on profiles |
| | 14. Middle hing | e | PMH20.13.021 | рс | 1 | |
| Middle hinge | 7. Stay arm b | earing | PSAB20.00.021 | рс | 1 | |
| | 10. Bag of cove | ers | PCP20.00.07R/L | bag | 1 | |
| | | | PCP20.00.012R/L | bag | 1 | Silver |
| | 10. Bag of cove | ers | PCP20.00.043R/L | bag | 1 | Bronze |
| Colors | | | PCP20.00.069R/L | bag | 1 | Black |
| | | | HSD531.0707R/L | set | 1 | White |
| | 4 11 11 - | | HSD531.069069R/L | set | 1 | Black |
| | 4. Handle | | HSD531.0404R/L | set | 1 | Bronze |
| ı | | | HSD531.011011R/L | set | 1 | Silver |
| | Marrahl | ullian lankina alata | PMLP10.09.021 | рс | 1 | |
| | iviovable m | ullion locking plate | PMLP10.13.021 | рс | 1 | |
| | | | | | | |





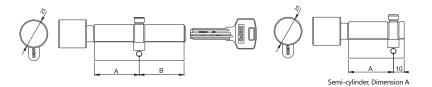
Cylinders



Double-sides Cylinder, Ariticle No. C98. A B C029. Available dimension of A and B:

| Dimension A | Dimension B | Notes | |
|-------------|-------------|---------------|---|
| | 00 | Semi-cylinder | |
| 25 | 25 | Normal | |
| 30 | 30 | Normal | |
| 35 | 35 | Normal | |
| 40 | 40 | Normal | |
| 45 | 45 | Normal | 2 |
| 50 | 50 | Normal | |
| 55 | 55 | Normal | |

Cylinders with the different A & B dimensions are available upon request. Example: C98.3045C029 means A=30mm, B=45mm



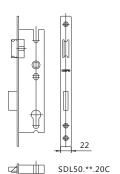
Cylinder with knob (inside), Article No. C99. A B C029. Available dimension of A and B:

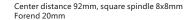
| Dimension A | Dimension B | Notes | |
|-------------|-------------|---------------|----|
| | 00 | Semi-cylinder | |
| 25 | 25 | Normal | D. |
| 30 | 30 | Normal | |
| 35 | 35 | Normal | |
| 40 | 40 | Normal | |
| 45 | 45 | Normal | |
| 50 | 50 | Normal | |
| 55 | 55 | Normal | |

Cylinders with the different A & B dimensions are available upon request. Example: C99.3045C029 means A=30mm, B=45mm

Mortise Lock



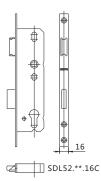




Article No.

Backset32mm SDL50.32.20C38 Backset26mm SDL50.26.20C38





Center distance 92mm, square spindle 8x8mm Forend 20mm

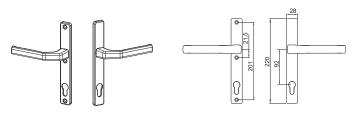
Article No. Backset28mm SDL52.28.16C38 Backset35mm SDL52.35.16C38



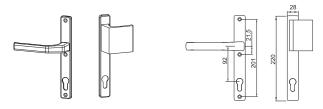


Double Sides Handle

The narrow front width (28mm) makes it suitable for PVC and aluminum profiles. For entrance doors, fixed outside handle solution should be chosen.

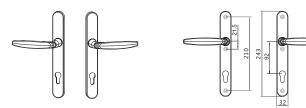


| Description | Article Number | Notes |
|------------------------|----------------|------------------|
| Double-sides Handle | HSD50.0707 | White |
| | HSD50.069069 | Black |
| | HSD50.043043 | Bronze (painted) |
| | HSD50.012012 | Silver (painted) |



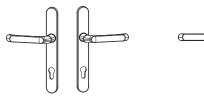
| Description | Article Number | Notes |
|--------------|----------------|------------------|
| | HSD51.0707 | White |
| Double-sides | HSD51.069069 | Black |
| Handle | HSD51.043043 | Bronze (painted) |
| | HSD51.012012 | Silver (painted) |

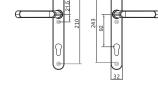
Screws have been hided by the front cover. Width of cover is 32mm.



| Description | Article Number | Notes |
|------------------------|------------------|------------------|
| Double-sides Handle | HSD531.0707R/L | White |
| | HSD531.069069R/L | Black |
| | HSD531.0404R/L | Bronze (painted) |
| | HSD531.011011R/L | Silver (painted) |

Double-sides Handle with no cylinder hole:HSD541.0707R/L Handles are fixed, used on passive leaf.





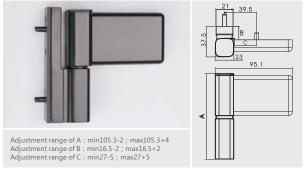
| Description | Article Number | Notes |
|--------------|------------------|------------------|
| | HSD533.0707R/L | White |
| Double-sides | HSD533.069069R/L | Black |
| Handle | HSD533.0404R/L | Bronze (painted) |
| | HSD533.011011R/L | Silver (painted) |

Double-sides Handle with no cylinder hole:HSD543.0707R/L Handles are fixed, used on passive leaf.

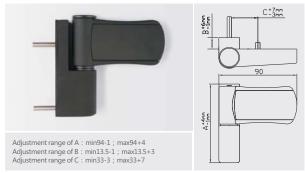




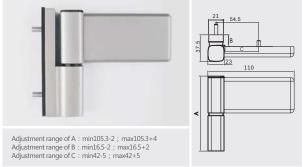
Hinges



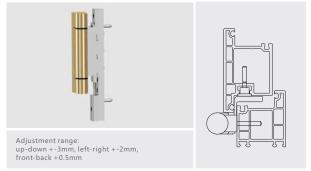
PTH51.00.069



PTH52.00.069



PTH51.10.012



PBH50.00.04



Solution I

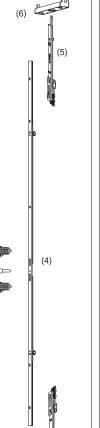


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(1)

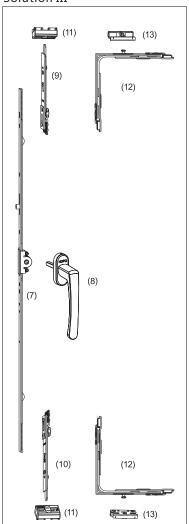
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(6)

Solution III



Specification for Passive Solutions

| | Description | Article Number | Unit | Q'ty | Notes |
|---|---|----------------------------|---------|------|----------------------|
| For profile | es with 9mm groove positi | on and 20mm sash rebate | e | | |
| Calutian | 1. Manual shoot bolt | PMSB20.02.021 | рс | 2 | |
| Solution I Solution II Solution III | Adjustable locking plate for shoot bolt | PSLP20.09.02C021 | рс | 2 | Depends on profiles |
| | Handle for shoot bolt transmission | PLG50.00.021 | рс | 1 | |
| | | PLG50.09.021 | | | 701-1220 |
| | 4. Shoot bolt transmission | PLG50.16.021 | рс | 1 | 1400-1920 |
| | | PLG50.21.021 | | | 1900-2400 |
| | 5. Shoot bolt | PTSB50.00.021 | рс | 2 | |
| | 6. Adjustable shoot bolt locking plate | PSLP20.09.02C021 | рс | 2 | Depends on profiles |
| | | GV10.25.09C021 | | 1 | |
| | 7. Gear transmission | GV10.25.16C021 | рс | | Backset 25mm, |
| | | GV10.25.21C021 | | | with teeth |
| | 8. Handle | PH100.35.07 | рс | 1 | |
| III | 9. Shoot bolt | PTSB50.00.021 | рс | 1 | |
| | 10. Reverse shoot bolt | PBSB50.00.021 | рс | 1 | |
| | 11. Adjustable locking plate for shoot bolt | PSLP20.09.02C021 | рс | 2 | Depends on profiles |
| Option fo | r Solution III: replacing sh | oot bolts with corner tran | smissic | n | |
| | 12. Corner transmission | PCT11.00.021 | рс | 2 | Mushroom locking pin |
| 12. Corner transmission 13. Locking plate | | PLP11.09.01C021 | рс | 2 | Depends on profiles |
| For profile | es with 13mm groove positi | on and 20mm sash rebate | | | |
| | 11. Adjustable shoot | PSLP20.13.02C021 | рс | 2 | Koemmerling |
| | bolt locking plate | PSLP20.13.01C021 | рс | 2 | Dimex |
| | 13. Locking plate | PLP11.13.01C021 | рс | 2 | Depends on profiles |

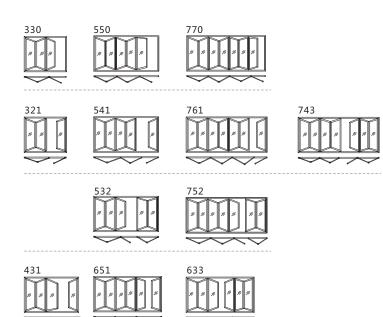




Schemes of Sliding Folding Doors

HOPO sliding folding system SF60 can be utilized on aluminum, PVC and wood profiles. Application range is as the following:

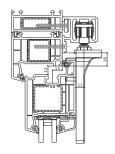
- Max. height: 2700mm (depends on strength of profiles)
- Max. width: 800mm
- Max. weight of single leaf: 80kg
- Max. number of leafs: 7

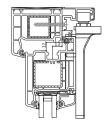


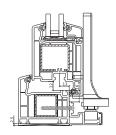
Specification of HOPO SF60 for PVC profiles

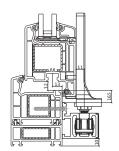
1. Bag of rollers

| Description | Article Number | Notes |
|----------------|----------------|------------------|
| | PBR60.043 | Bronze (painted) |
| Bag of rollers | PBR60.012 | Silver (painted) |
| bag of foliers | PBR60.069 | Black (painted) |
| | PBR60.07 | White (painted) |







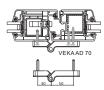


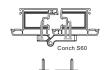
8

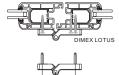


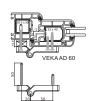
2. Box of hinges (for PVC profiles)

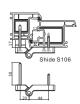
| Description | Article Number | Notes |
|---------------|----------------|----------------------|
| | PSH60.3050.XX | XX: |
| | PSH60.2050.XX | 043 Bronze (painted) |
| Box of hinges | PSH60.2044.XX | 012 Silver (painted) |
| J | PSH60.2044S.XX | 069 Black (painted) |
| | PSH60.3044.XX | 07 White (painted) |













| Description | | Article Number | Notes |
|-------------------------------|-------------------|----------------|-------------------|
| Addition profile | Additional bag of | PABP60.40.07 | White, length: 4M |
| | profiles SF60 | PABP60.40.06 | Black, length: 4M |
| Barrier free running track | | PABPW60.45.07 | Length: 4.5M |







| | Barrier free running track |
|--|----------------------------|
|--|----------------------------|

5. Sample specifications

HOPO SF60 for VEKA AD70

| Items | Description | Article number | e number Quantity Scheme | | Unit | Notes | |
|-------|---|------------------|--------------------------|---------|-------------|-------|----------------|
| | | | | | Scheme | | |
| | | | 321 | 541/532 | 761/752/743 | | |
| 1 | Box of rollers, white | PBR60.07 | 1 | 2 | 3 | set | |
| 2 | Hinge for side panel, 20-50mm, white | PSH60.2050.07 | 8 | 8 | 8 | рс | Basic |
| 3 | Hinge for folding panel, 30-50mm, white | PSH60.3050.07 | 4 | 12 | 20 | рс | parts |
| 4 | Additional bag of profiles | PABP60.40.07 | 1 | 1 | 1 | set | |
| 5 | Short neck handle, white | PH172.40.07 | 1 | 2 | 3 | рс | |
| 6 | Gear transmission with tooth, 2100mm | GV10.30.21C021 | 1 | _ | 2 | | |
| О | Gear transmission with tooth, 1600mm | GV10.30.16C021 | 1 | 2 | 3 | рс | Folding |
| 7 | Top shoot bolt | PTSB50.00.021 | 1 | 2 | 3 | рс | passive |
| 8 | Bottom shoot bolt | PBSB50.00.021 | 1 | 2 | 3 | рс | leafs |
| 9 | Shoot bolt locking plate | PSLP20.13.01C021 | 2 | 6 | 6 | рс | |
| 10 | Handle-operated multi-points handle | SDLH51.35.16C | 1 | 1 | 1 | рс | |
| 11 | Door locking plate (on movable mullion) | ALPD50.03L/R | 1 | 1 | 1 | рс | |
| 12 | Locking plate (on movable mullion) | PMLP10.09.021 | 4 | 4 | 4 | рс | Active leaf |
| 13 | Cylinder | C98.4550C4T029 | 1 | 1 | 1 | рс | |
| 14 | Double-sides door handle white | HSD533 0707R/I | 1 | 1 | 1 | set | |

$Items Description Article\ number Quantity Unit Notes\\ Scheme$

| Items | Description | Article number | Quantity | | | Unit | Notes | | |
|-------|---|------------------|----------|-----|-----|------|---------|-----|------------------|
| | | | Scheme | | | | | | |
| | | | 330 | 550 | 770 | 431 | 633/651 | | |
| 1 | Box of rollers, white | PBR60.07 | 1 | 2 | 3 | 1 | 2 | set | |
| 2 | Hinge for side panel, 20-50mm, white | PSH60.2050.07 | 4 | 4 | 24 | 8 | 8 | рс | Basic parts |
| 3 | Hinge for folding panel, 30-50mm, white | PSH60.3050.07 | 8 | 16 | 1 | 8 | 16 | рс | |
| 4 | Additional bag of profiles | PABP60.40.07 | 1 | 1 | 3 | 1 | 1 | set | |
| 5 | Short neck handle, white | PH172.40.07 | 1 | 2 | 3 | 2 | 3 | рс | |
| 6 | Gear transmission with tooth, 2100mm | GV10.30.21C021 | 1 | 2 | 3 | 2 | 3 | рс | Folding |
| ь | Gear transmission with tooth, 1600mm | GV10.30.16C021 | | | | | | | |
| 7 | Top shoot bolt | PTSB50.00.021 | 1 | 2 | 3 | 2 | 3 | рс | passive leafs |
| 8 | Bottom shoot bolt | PBSB50.00.021 | 1 | 2 | 3 | 2 | 3 | рс | |
| 9 | Shoot bolt locking plate | PSLP20.13.01C021 | 2 | 4 | 6 | 4 | 6 | рс | |
| 10 | Handle-operated multi-points handle | SDLH51.35.16C | 1 | 1 | 1 | 1 | 1 | рс | |
| 11 | Door locking plate (on movable mullion) | ALPD50.03.021L/R | 1 | 1 | 1 | 1 | 1 | рс | Active leaf |
| 12 | Locking plate (on movable mullion) | PMLP10.13.021 | 4 | 4 | 4 | 4 | 4 | рс | |
| 13 | Cylinder | C98.4550C4T029 | 1 | 1 | 1 | 1 | 1 | рс | |
| 14 | Double-sides door handle, white | HSD533.0707R/L | 1 | 1 | 1 | 1 | 1 | set | |



The most difficult thing for realizing your idea is often the first step you realize it.

To arm your dream with bravery,

you will achieve the final target after overcoming all difficulties.