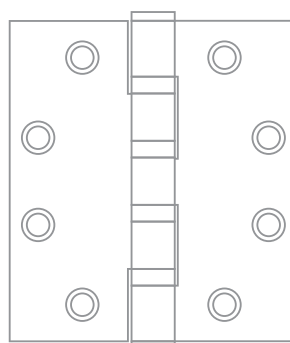
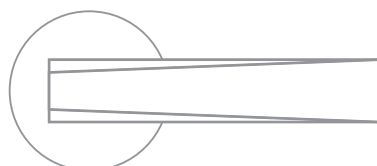
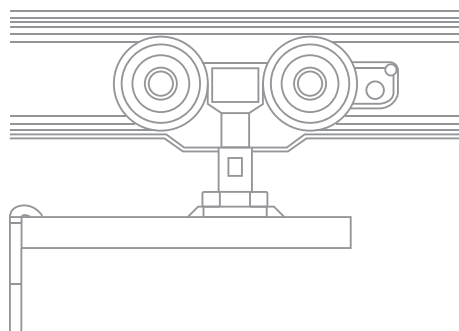


WE  
R  
A  
W  
D  
R  
A  
H



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LEVER HANDLE p.2-5

HINGE p.6-11

HANGING SYSTEM p.12-14

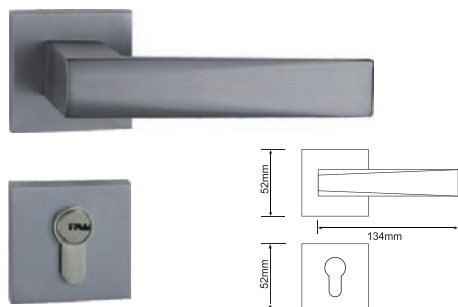
Lever Handle

Hinge

Hanging System

## LEVER HANDLE

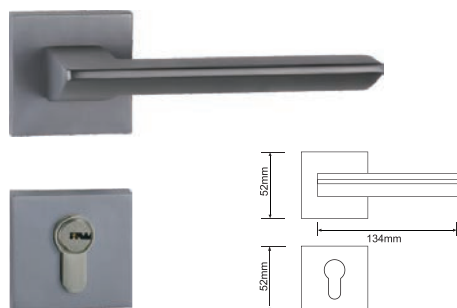
**RL-L001S-RY**



**RL-L001R-RY**



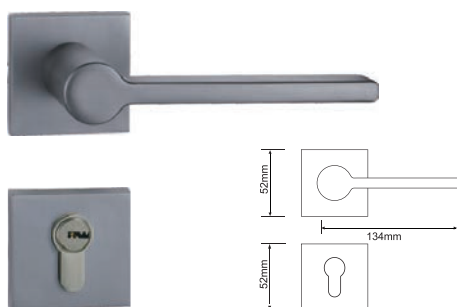
**RL-L002S-RY**



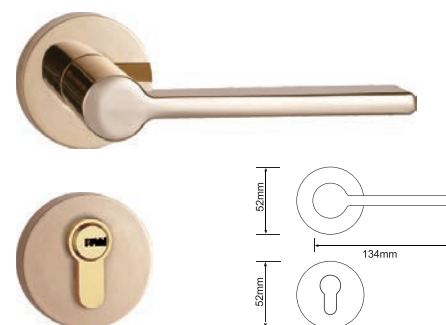
**RL-L002R-RY**



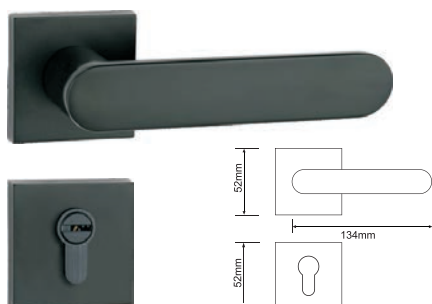
**RL-L003S-RY**



**RL-L003R-RY**



**RL-L004S-RY**

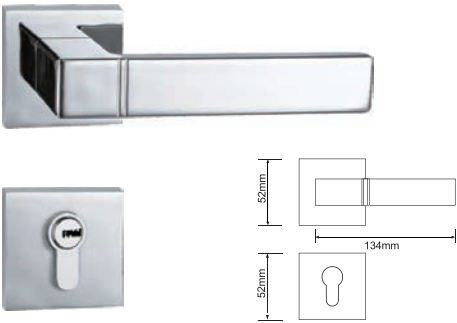


**RL-L004R-RY**

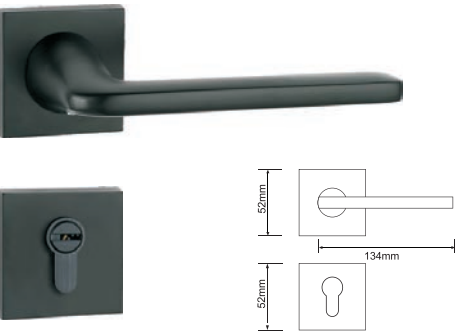


# LEVER HANDLE

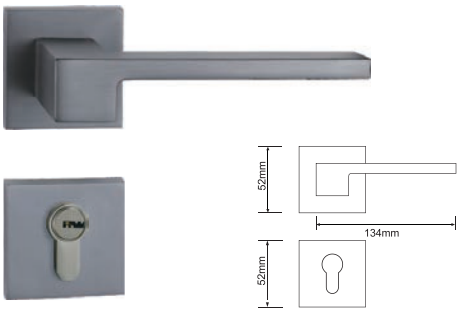
**RL-L005S-RY**



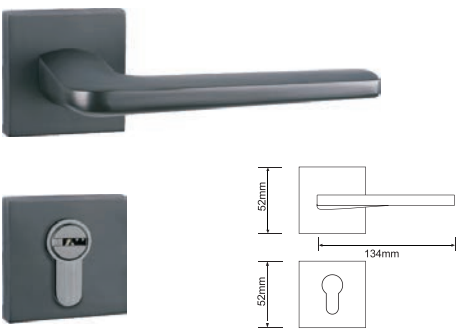
**RL-L006S-RY**



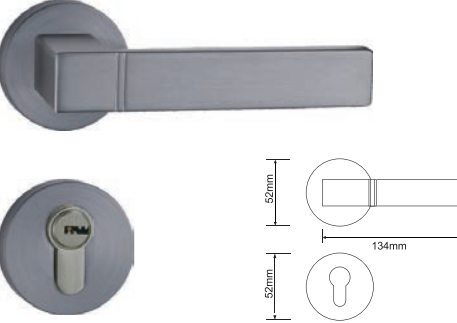
**RL-L007S-RY**



**RL-L008S-RY**



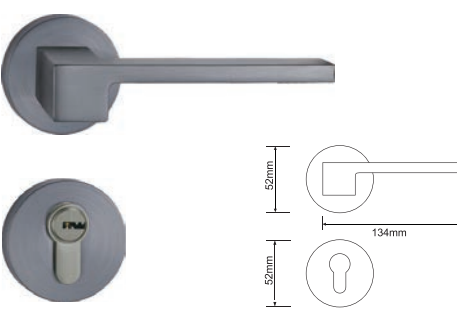
**RL-L005R-RY**



**RL-L006R-RY**



**RL-L007R-RY**



**RL-L008R-RY**

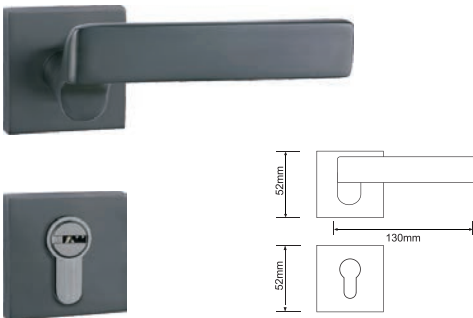


# LEVER HANDLE

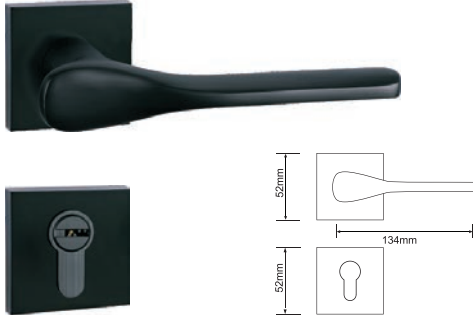
RL-L009S-RY



RL-L010S-RY



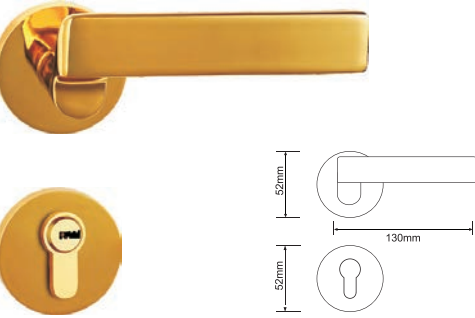
RL-L011S-RY



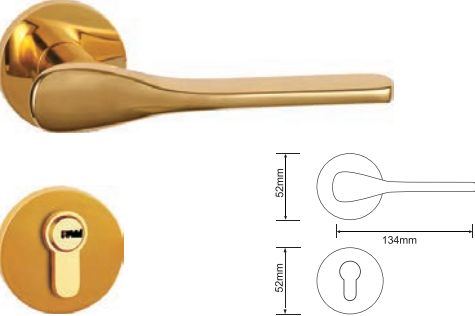
RL-L009R-RY



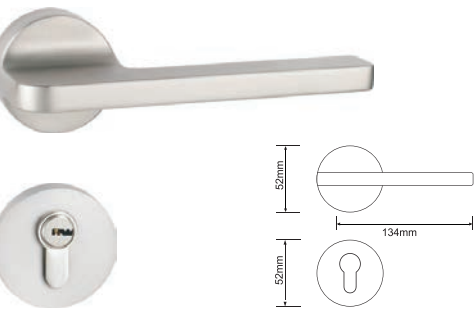
RL-L010R-RY



RL-L011R-RY



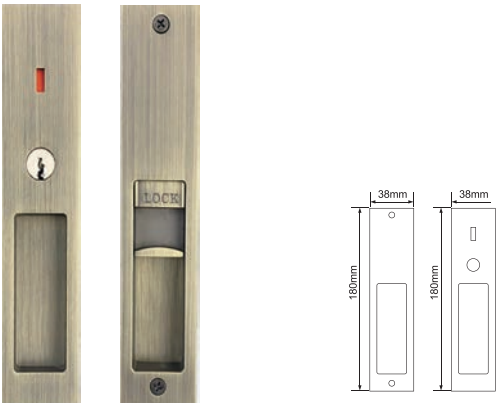
RL-L012R-RY



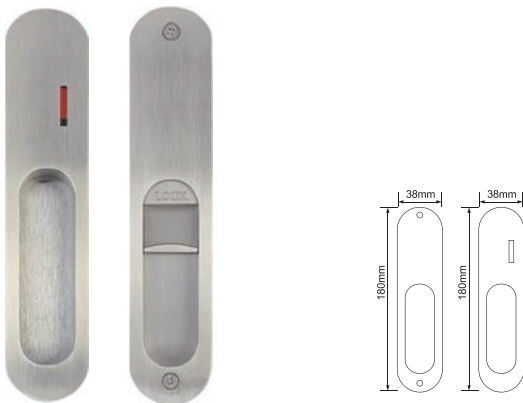
# LEVER HANDLE



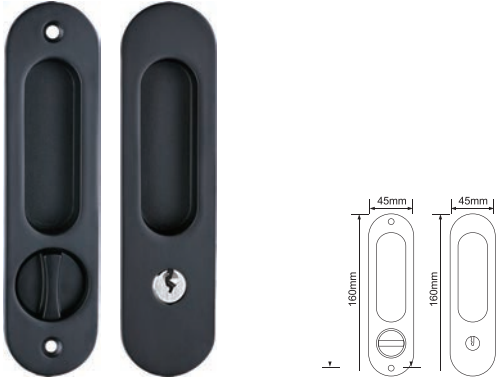
SL-001C



SL-003E



SL-002C

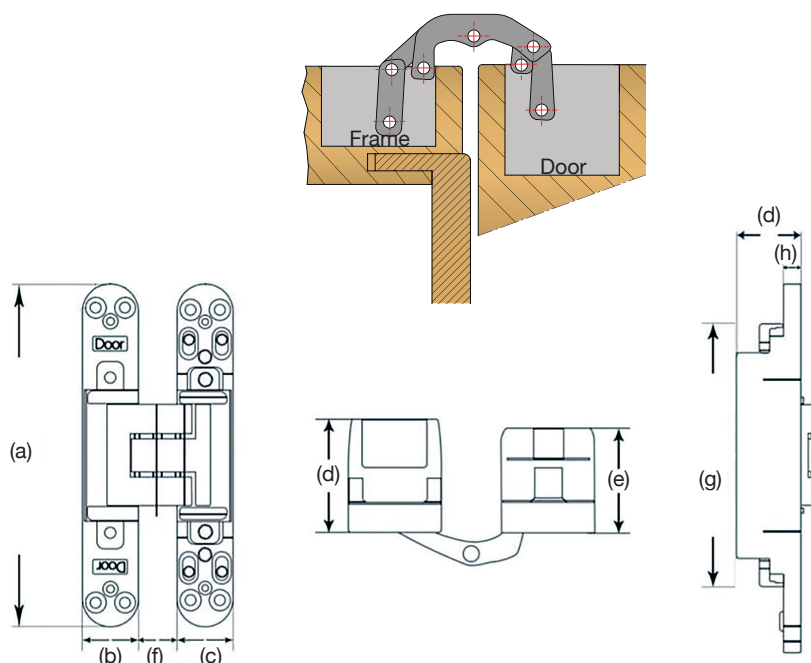


SL-004C



Lever Handle

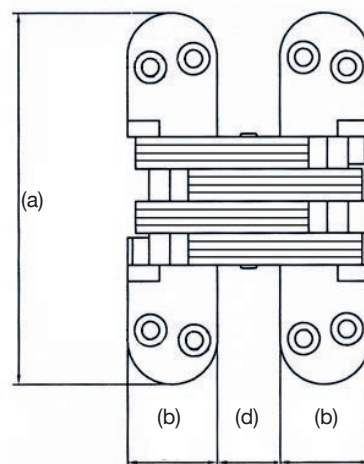
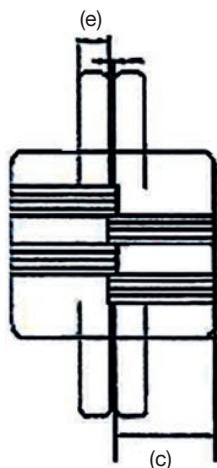
## 3D Stainless Steel (SUS 304) adjustable invisible hinge



| Material                   | TL401SS-3D              | TL402SS-3D |
|----------------------------|-------------------------|------------|
|                            | SUS 304 Stainless Steel |            |
| Loading for 3 pieces       | 120 kg                  | 150 kg     |
| Hinge height (a)           | 160 mm                  | 234 mm     |
| Width door side (b)        | 29 mm                   | 35 mm      |
| Width frame side (c)       | 29 mm                   | 35 mm      |
| Depth door side (d)        | 33 mm                   | 42 mm      |
| Depth frame side (e)       | 31mm                    | 42 mm      |
| Door opening               | 180°                    | 180°       |
| Width opening (f)          | 19 mm                   | 23 mm      |
| Hinge base height (g)      | 122 mm                  | 189.5 mm   |
| Face plate thickness (h)   | 9.5 mm                  | 9.5 mm     |
| Side adjustment            | ± 1.5 mm                | ± 2.0 mm   |
| Height adjustment          | ± 2.0 mm                | ± 3.0 mm   |
| Depth adjustment           | ± 1.5 mm                | ± 1.5 mm   |
| EN1634-1 (2 hrs fire test) | ✓                       | ✓          |

\*Actual size will be based on sample submitted.

## Stainless Steel (SUS 304) invisible hinge



|                            | TL301SS                 | TL302SS  | TL303SS | TL304SS   |
|----------------------------|-------------------------|----------|---------|-----------|
| Material                   | SUS 304 Stainless Steel |          |         |           |
| Loading for 4 pieces       | 60 kg                   | 80 kg    | 120 kg  | 160 kg    |
| Height (a)                 | 94 ±mm                  | 117 ±mm  | 117 ±mm | 138.5 ±mm |
| Width (b)                  | 18.5 mm                 | 25 mm    | 28 mm   | 34 mm     |
| Depth (c)                  | 26.6 ±mm                | 35.5 ±mm | 40 ±mm  | 50 ±mm    |
| Width opening (d)          | 12.3 ±mm                | 18.5 ±mm | 22 ±mm  | 27 ±mm    |
| Face plate thickness (e)   | 9.5 mm                  | 9.5 mm   | 10 mm   | 13 mm     |
| Door opening               | 180°                    | 180°     | 180°    | 180°      |
| EN1935 Loading test        | ✓                       | ✓        | ✓       | ✓         |
| EN1634-1 (2 hrs fire test) | ✓                       | ✓        | ✓       | ✓         |

\*Actual size will be based on sample submitted.

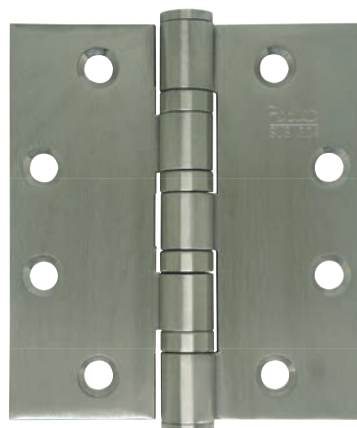
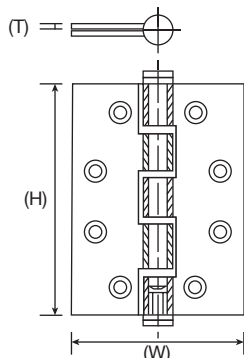


# Stainless Steel (SUS 304) butt hinge with ball bearing washer

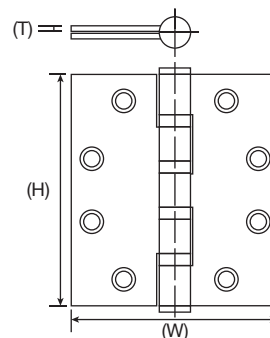
Confirm EN1634-1 2 hr fire-test



2543SW



3044-4BB



| Model No. | Height (H) | Width (W) | Thickness (T) | 2 ball bearing (2BB) | 4 ball bearing (4BB) | stainless steel washer (SW) |
|-----------|------------|-----------|---------------|----------------------|----------------------|-----------------------------|
| 2543      | 102 mm     | 76 mm     | 2.5 mm        | ✓                    | ✓                    | ✓                           |
| 254/35    | 102 mm     | 89 mm     | 2.5 mm        | ✓                    | ✓                    | ✓                           |
| 2544      | 102 mm     | 102 mm    | 2.5 mm        | ✓                    | ✓                    | ✓                           |
| 2553      | 127 mm     | 76 mm     | 2.5 mm        | ✓                    | ✓                    | ✓                           |
| 3043      | 102 mm     | 76 mm     | 3.0 mm        | ✓                    | ✓                    | ✓                           |
| 304/35    | 102 mm     | 89 mm     | 3.0 mm        | ✓                    | ✓                    | ✓                           |
| 3044      | 102 mm     | 102 mm    | 3.0 mm        | ✓                    | ✓                    | ✓                           |
| 3045/4    | 114 mm     | 102 mm    | 3.0 mm        | ✓                    | ✓                    | ✓                           |
| 3045      | 114 mm     | 114 mm    | 3.0 mm        | ✓                    | ✓                    | ✓                           |
| 305/35    | 127 mm     | 89 mm     | 3.0 mm        | ✓                    | ✓                    | ✓                           |
| 3054      | 127 mm     | 102 mm    | 3.0 mm        | ✓                    | ✓                    | ✓                           |
| 3545/4    | 114 mm     | 102 mm    | 3.5 mm        | ✓                    | ✓                    | ✓                           |
| 3545      | 114 mm     | 114 mm    | 3.5 mm        | ✓                    | ✓                    | ✓                           |
| 4545      | 114 mm     | 114 mm    | 4.5 mm        | ✓                    | ✓                    | –                           |

Recommendation: 3 pieces per door

2.5 mm thickness hinge: 60 kg

3.0 mm thickness hinge: 80 kg

3.5 mm thickness hinge: 120 kg

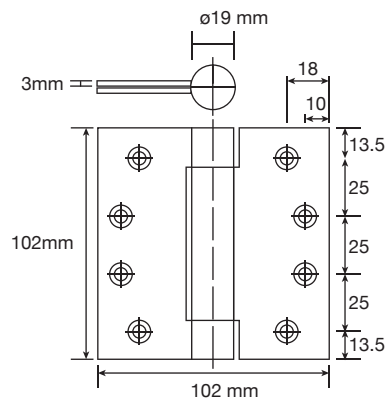
4.5 mm thickness hinge: 180 kg

\*Actual size will be based on sample submitted.

## Stainless Steel (SUS 304) single action spring hinge

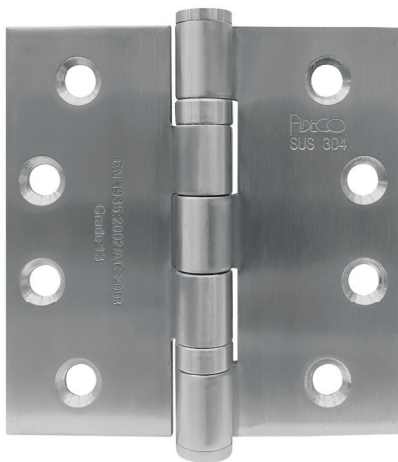


SA3100

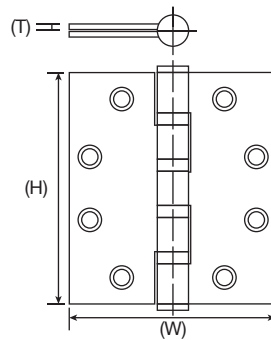


## EN Stainless Steel (SUS 304) butt hinge with ball bearing washer

Confirm EN1634-1 2 hr fire-test / EN1935: 2002/AC:2003 (4-7-6-1-1-4-0-13)



3044EN-2BB



| Model No. | Height (H) | Width (W) | Thickness (T) | 2 ball bearing (2BB) | 4 ball bearing (4BB) |
|-----------|------------|-----------|---------------|----------------------|----------------------|
| 3043 EN   | 102 mm     | 76 mm     | 3.0 mm        | ✓                    | ✓                    |
| 304/35 EN | 102 mm     | 89 mm     | 3.0 mm        | ✓                    | ✓                    |
| 3044 EN   | 102 mm     | 102 mm    | 3.0 mm        | ✓                    | ✓                    |
| 3045/4 EN | 114 mm     | 102 mm    | 3.0 mm        | ✓                    | ✓                    |
| 3045 EN   | 114 mm     | 114 mm    | 3.0 mm        | ✓                    | ✓                    |
| 305/35 EN | 127 mm     | 89 mm     | 3.0 mm        | ✓                    | ✓                    |
| 3054 EN   | 127 mm     | 102 mm    | 3.0 mm        | ✓                    | ✓                    |

\*Actual size will be based on sample submitted.

## Identification of the code

| IDENTIFICATION OF THE CODE<br>EN 1935:2002; EN 1935:2002/AC:2003 |                          |                          |                                                          |                          |                          |                          |                          |
|------------------------------------------------------------------|--------------------------|--------------------------|----------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 <sup>st</sup><br>digit                                         | 2 <sup>nd</sup><br>digit | 3 <sup>rd</sup><br>digit | 4 <sup>th</sup><br>digit                                 | 5 <sup>th</sup><br>digit | 6 <sup>th</sup><br>digit | 7 <sup>th</sup><br>digit | 8 <sup>th</sup><br>digit |
| Category of use                                                  | Durability               | Door mass                | Suitability for use on fire/smoke compartmentation doors | Safety of people         | Corrosion resistance     | Security of property     | Hinge grade              |
| 4                                                                | 7                        | 6                        | 1                                                        | 1                        | 4                        | 0                        | 13                       |

### Category of use (first digit)

grade 1 – Light duty = Hinges for use on doors or windows in housing or other living areas in buildings where there is a low frequency of use by those with a high incentive to exercise care and with a small chance of accidents occurring or of misuse.

grade 2 – Medium duty = Hinges for use on doors in housing or other living areas and in other buildings where there is a medium frequency of use by those with some incentive to exercise care but where there is some chance of accidents occurring or of misuse.

grade 3 – Heavy duty = Hinges for use on doors in buildings where there is a high frequency of use by public or others with little incentive to exercise care and with a high chance of accidents occurring or of misuse.

grade 4 – Severe duty = Hinges for use on doors which are subject to frequent violent usage.

### Durability (second digit)

grade 3 = 10.000 cycles

grade 4 = 25.000 cycles

grade 7 = 200.000 cycles

### Door mass (third digit)

grade 0 = 10 kg

grade 1 = 20 kg

grade 2 = 40 kg

grade 3 = 60 kg

grade 4 = 80 kg

grade 5 = 100 kg

grade 6 = 120 kg

grade 7 = 160 kg

### Suitability for use on fire/smoke compartmentation doors (fourth digit)

grade 0: Not suitable for use on fire resistant and/or smoke control door assemblies

grade 1: Suitable for use on fire/smoke resistant door

## Identification of the code

### Safety of people (fifth digit)

It is identified as grade 1.

### Corrosion resistance (sixth digit)

grade 0 = No defined resistance to corrosion.

grade 1 = mild resistance

grade 2 = moderate resistance

grade 3 = high resistance

grade 4 = very high resistance

### Security of property (seventh digit)

grade 0 = not suitable for use on burglar-resistant door assemblies.

grade 1 = Suitable for use on burglar-resistant door assemblies.

### Hinge grade (eighth digit)

14 degrees of hinge are identified:

| Hinge Grade | Load<br>Deformation<br>Mass<br>Kg | Overload<br>Mass<br>Kg | Shear load<br>kN |
|-------------|-----------------------------------|------------------------|------------------|
| 1           | 20                                | 30                     | 1,5              |
| 2           | 40                                | 60                     | 1,5              |
| 3           | 40                                | 60                     | 1,5              |
| 4           | 40                                | 60                     | 1,5              |
| 5           | 80                                | 120                    | 1,5              |
| 6           | 80                                | 120                    | 1,5              |
| 7           | 80                                | 120                    | 1,5              |
| 8           | 120                               | 180                    | 1,5              |
| 9           | 120                               | 180                    | 1,5              |
| 10          | 120                               | 180                    | 1,5              |
| 11          | 160                               | 240                    | 3,0              |
| 12          | 200                               | 300                    | 6,0              |
| 13          | 240                               | 360                    | 10,0             |
| 14          | 320                               | 480                    | 15,0             |

# HANGING SYSTEM



## STS-180D / STS-180E

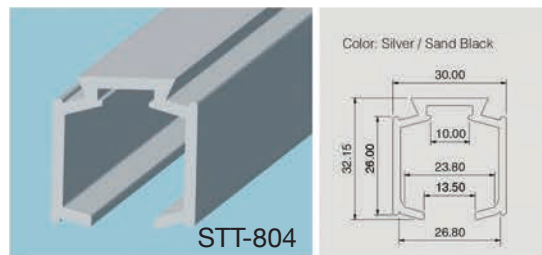
Wood door hanging sliding roller with two-way damper

Door weight : 80 kg / per leaf

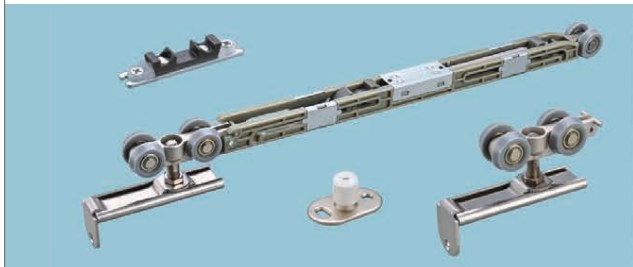
Door width : 550 mm (min)

Door thicken : 30-45 mm

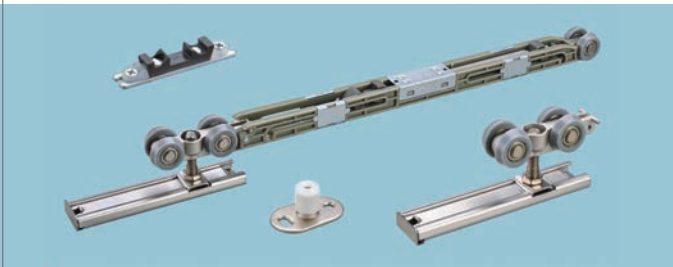
Door track : STT-804



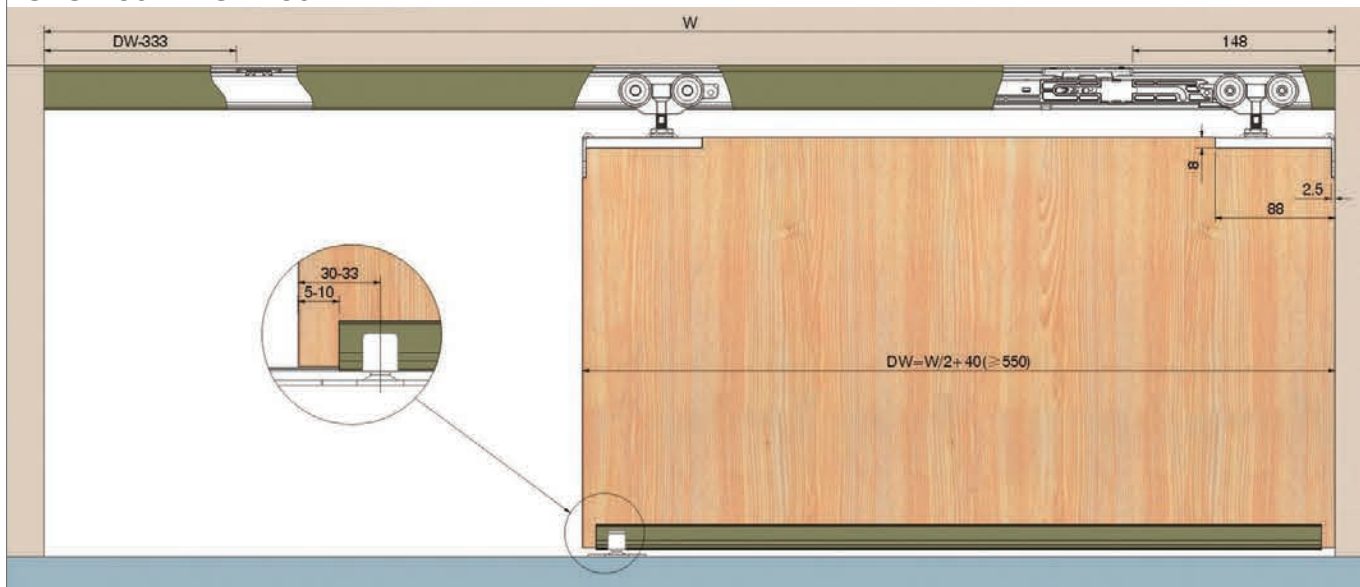
### STS-180D



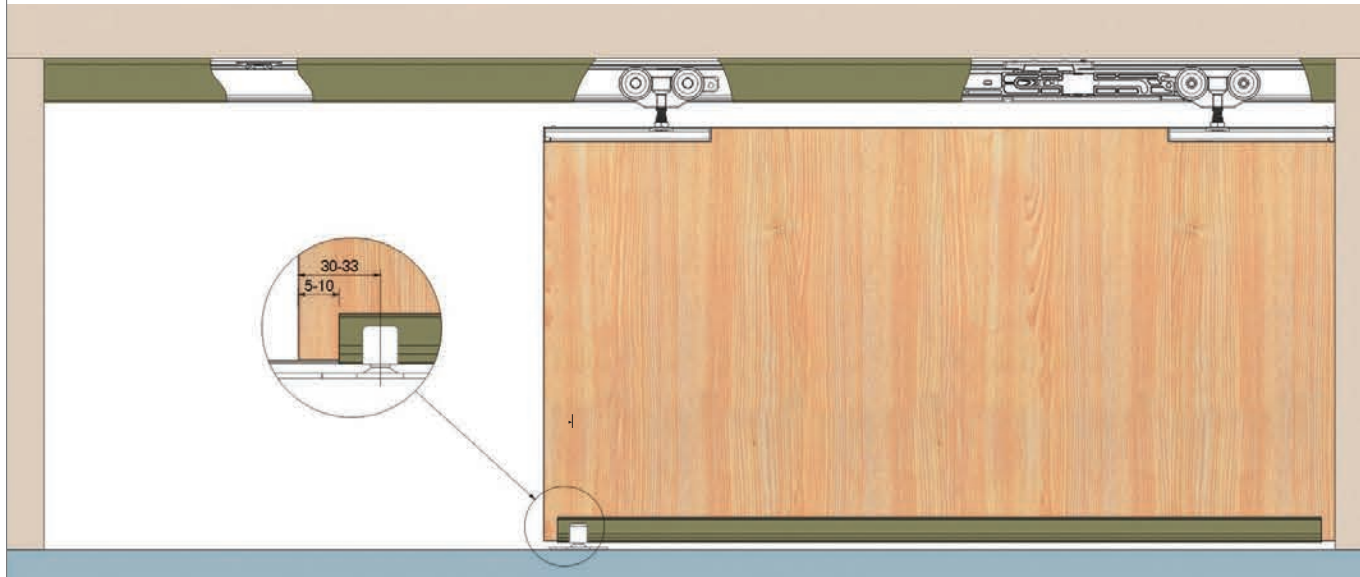
### STS-180E



### STS-180D + STT-804



### STS-180E + STT-804



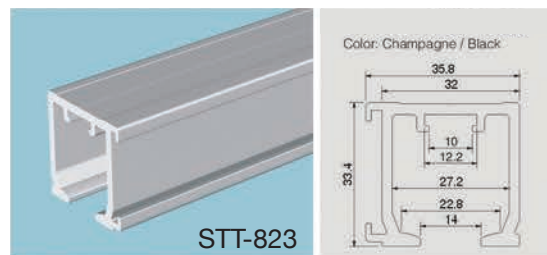


Linkage wood door hanging sliding roller with two-way damper (2+1)

Door width : 560 mm (min)

Door thicken : 35-48 mm

Door track : STT-823 x 2



|                                                                                       |                                                                                       |                                                                                       |                                                                                      |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|      |      |     |   |
| 阻尼上滑轮(1个)                                                                             | 上滑轮(3个)                                                                               | 阻尼限位件(2个)                                                                             | 短绕线轮(1个)                                                                             |
|    |    |    |  |
| 长绕线轮(1个)                                                                              | 升降挂盒(1个)                                                                              | 连接挂盒(1个)                                                                              | 固定门上定位((2个)                                                                          |
|  |    |    |   |
| 固定门下定位(2个)                                                                            | 连接下定位(1个)                                                                             | 下定位(1个)                                                                               | 钢丝固定件(1个)                                                                            |
|   |  |  |                                                                                      |
| 钢丝连接件(1套)                                                                             | 钢丝(5Mx1)                                                                              | 挂盒底座(6个)                                                                              |                                                                                      |

The drawing illustrates a sliding door system. The main side elevation shows a wooden door with a top track and rollers. A dimension line indicates the door width:  $\text{门宽}(\geq 560) = (\text{门洞宽} + 56 \times 2) / 3$ . A detail view on the right shows the roller assembly with dimensions: a roller diameter of  $\varnothing 8$ , a roller height of 35-48, a total roller height of 87, and a roller width of 11. The roller is labeled CFG-778.



# HANGING SYSTEM

## STS-185A

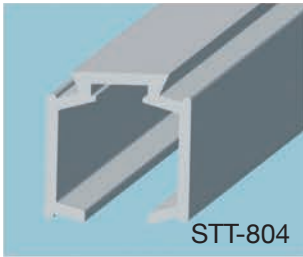
Telescopic synchro wood door hanging sliding roller with two-way damper

Door weight : 60 kg / per leaf

Door width : 560 mm (min)

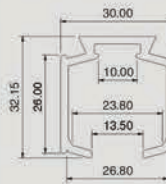
Door thicken : 35 mm

Door track : STT-804



STT-804

Color: Silver / Sand Black



## STS-185A

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                     |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
|    |                                                                                     |    |                                                                                     |     |                                                                                       |  |  |
| 阻尼上滑轮(1个)                                                                           |                                                                                     | 上滑轮(3个)                                                                             |                                                                                     | 阻尼限位件(2个)                                                                             |                                                                                       | 绕线轮(2个)                                                                             |  |
|  |  |  |  |  |  |                                                                                     |  |
| 升降挂盒(2个)                                                                            | 对开升降挂盒A(1个)                                                                         | 对开升降挂盒B(1个)                                                                         | 下定位(2个)                                                                             | 钢丝(10Mx1)                                                                             | 挂盒底座(4个)                                                                              |                                                                                     |  |

## STS-185A + STT-804

