



# ***Fire and Smokeproof Doors in glazed Partitioning Constructions***

***Transparent Fire and Smoke Protection with Style***



***Doors · Garage Doors · Frames · Operators***

# Fire and smoke resistant doors in glazed partitioning constructions



**Extract from our reference list:**

- Daimler Chrysler, Berlin
- Daimler Chrysler, Stuttgart
- New Stadium, Mönchengladbach
- Fraunhofer Institute, Bad Godesberg
- Zintl Institute, Darmstadt
- Airport – Athens
- Boys' boarding school, Dubai
- Goldpfeil, Offenbach
- Sparkasse, Constance
- P.O. box centres across Germany
- Nordstern coal mine, Bochum
- Kassenzahnärztliche Vereinigung, Munich

## Fire and smoke protection complete with style

What is striking about the attractively designed glass frames is their elegance and scope provided for configuration purposes. One and two-leaf doors with fanlights and/or side parts can be combined in a variety of ways.

## Practically unlimited transparency

Complete closing-off wall glazing with architecturally pleasing transoms and in any widths have been approved. Any height is possible for smokeproof wall units. Only for fireproof wall units is the height limited by building laws to a maximum 3,500, 4,000 or 5,000 mm – depending on type.

## Flair in a host of variations

The fire and/or smokeproof door and wall units are available in both steel and aluminium. In addition, Fuego light type fireproof units are also on hand in stainless steel. Thermally separated units can be supplied in steel or aluminium.

### System - Fuego classic: Fireproof seals made of profile steel tube

Page 4/5



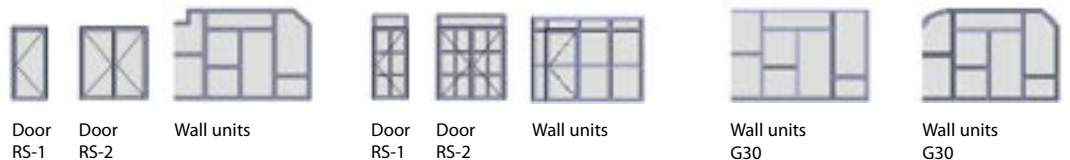
### System - Fuego light: Fireproof seals of thin profile steel tube

Page 6/7



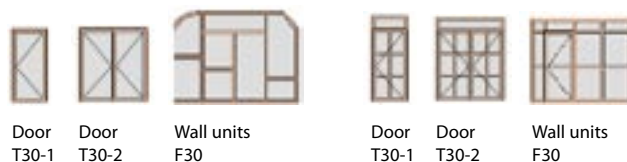
### System - Presto: Smokeproof seals of profile steel tube

Page 8/9



### System - BSC: Fireproof seals made of aluminium profile tube

Page 10/11



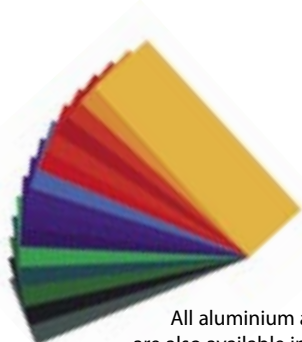
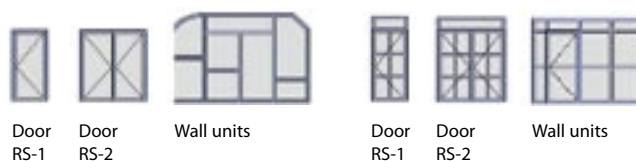
### System - CF: Fireproof seals of aluminium profile tube

Page 12/13



### RSC - System: Fireproof seals of aluminium profile tube

Page 14/15



All aluminium and steel profiles are also available in a final paint coating in keeping with RAL chromatic chart.

### Fuego classic, Steel

#### Fuego classic

ready-to-install structure of electro-galvanized, yellow chromated precision profile steel tubes of monocoque construction, surface-flushed, prepared for customer fitting with frame plug, units are supplied non-glazed for weight and transport reasons.

#### Door units

1 or 2-leaf, fire-resistant, with 2 x EPDM stopper seal, optional fanlight(s) and/or side part(s).

#### Wall units

permanently glazed, fire-resistant, optional connecting units.

#### Hardware

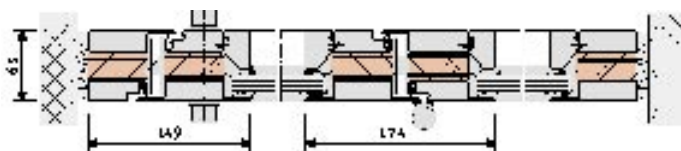
Engaging mortice lock, top latch from FOD 1,510 x 2,330 mm and for all 2-leaf doors, prepared for 81 mm profile cylinder, right-angle bent aluminium rounded handle set with steel core and oval rosette plates, upper door closer with slide channel, 2-leaf doors with closing sequence control and rebate retracting bolt over and above headroom 2,500 mm.

#### Hinges

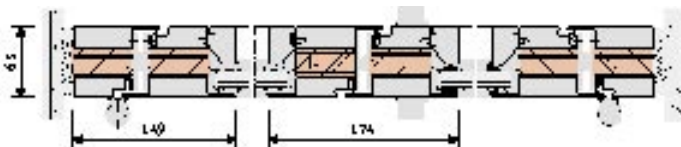
2-3 steel weld-on hinges for each leaf, 3-D adjustable, centre securing pin (+ a further 1 from FOD height > 2,730 mm), optional hinge variants (if applicable extra charge).

#### Surface

powder-coated, primed RAL 9002, optional final paint-coating (if applicable extra charge).



One-leaf door with side part



Two-leaf door

#### Establishing the clear passage width with leaf open at 90°

##### Weld-on hinge

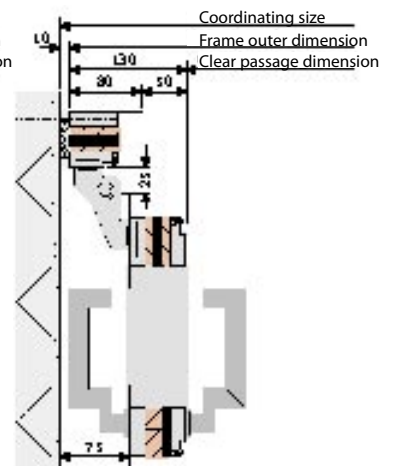
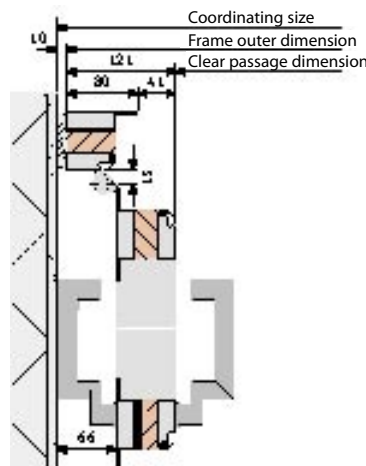
##### 15 mm pivotal spacing

Clear passage dimension (CP) =  
Frame outer dimension (FOD) – 201 mm

##### Screw-on hinge

##### 25 mm pivotal spacing

Clear passage dimension (CP) =  
Frame outer dimension (FOD) – 210 mm



### Fuego classic, steel

### Approved models / Technical specifications

Resistance class		T30		F30	F90	
		Fuego classic T30-1	Fuego classic T30-2	Fuego classic F30	Fuego classic F90	
Models	Doors and wall units with glazing					
	Doors can be combined with wall units – in any transom spacing					
	Transoms – vertical	≤ 2	≤ 2 for each leaf	any	any	
	Transoms - horizontal	≤ 5	≤ 5 for each leaf	any	any	
Unit division	Slants	–	–	•	•	
	Arches	–	–	•	•	
	Recesses	–	–	•	–	
	Angles	–	–	•	–	
	Widening	•	•	•	•	
Dimensions	Shell dimension (W x H)	min. door size	750 x 1750	1375 x 1750	W = unlimited <sup>1)</sup> H ≤ 5015	W = unlimited <sup>1)</sup> H ≤ 3515
		max. door size 1	1730 x 2825	3030 x 2825		
		max. door size 2	1424 x 3315	2694 x 3315		
		H (with fanlight)	≤ 4000	≤ 4000		
	Frame outer dimension (W x H)	min. door size	720 x 1735	1345 x 1735	W = unlimited <sup>1)</sup> H ≤ 5000	W = unlimited <sup>1)</sup> H ≤ 3500
		max. door size 1	1700 x 2810	3000 x 2810		
		max. door size 2	1394 x 3300	2664 x 3300		
		H (with fanlight)	≤ 3985	≤ 3985		
	Clear passage at 180° opening (W x H)	min. door size	560 x 1655	1185 x 1655	–	–
		max. door size 1	1540 x 2730	2840 x 2730	–	–
max. door size 2		1234 x 3220	2504 x 3220	–	–	
Door leaf	Structural depth	65	65	65	110	
	View	149	149 / 174	80 / 105	80 / 105	
	Base height	80 – 325	80 – 325	80 – 325	80	
	Transom width without glass strip / rebate vertically or horizontally	30, 50, 55, 60 – 300	30, 50, 55, 60 – 299	30, 50, 55, 60 – 300	55	
Walls	Masonry	≥ 115	≥ 115	≥ 115	≥ 115	
	Concrete	≥ 100	≥ 100	≥ 100	≥ 100	
	Foam mortar	≥ 150	≥ 150	≥ 150	–	
	Partition walls	≥ 100	≥ 100	≥ 100	–	
	Door / glazing combination	•	•	•	–	
	Z-frames	•	•	–	–	
Fillings	Pyrostop 30-1x (W x H max.)	1400 x 2400	1400 x 2400	1400 x 2400 2400 x 1400	–	
	Fanlight door	1400 x 2200	1400 x 2200	–	–	
	Pyrostop 30-2x, 30-3x (W x H max.)	1400 x 2400 1130 x 2980	1400 x 2400 1130 x 2980	1400 x 2400 2400 x 1400 1130 x 2980	–	
	Fanlight door	1400 x 2200	1400 x 2200	–	–	
	Pyrostop 90-1x, 90-2x (W x H max.)	–	–	–	1100 x 2000 2000 x 1100	
	Panelling	•	•	•	•	
	Glass / panelling	•	•	•	•	
	Glass use Wet glazing Dry glazing	• • •	• • •	• • •	• –	
Design variants	with fanlight & side part FOD height	≤ 5000	≤ 5000	–	–	
	with fanlight FOD height	≤ 3985	≤ 3985	–	–	
	with side part FOD width	unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	–	–	
	Smokeproof door as per DIN 18095 (in combination with DIN 4102)	•	•	–	–	
Approval numbers	Z-6.12-1233	Z-6.14-1234	Z-19.14-168	Z-19.14-582		

### Fuego light, steel / optional stainless steel

#### Fuego light

ready-to-install structure of electro-galvanized, yellow chromated precision profile steel tubes of monocoque construction, surface-flushed, prepared for customer fitting with frame plug, units are supplied non-glazed for weight and transport reasons.

#### Door units

1 or 2-leaf, fire-resistant, with 2 x EPDM stopper seal, optional fanlight(s) and/or side part(s).

#### Wall units

permanently glazed, fire-resistant, optional connecting units.

#### Hardware

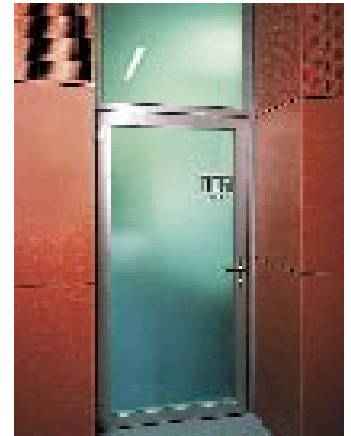
Engaging mortice lock, top latch with all 2-leaf doors and smokeproof design, prepared for 81 mm profile cylinder, right-angle bent aluminium rounded handle set with steel core and oval rosette plates, upper door closer with slide channel, 2-leaf doors with closing sequence control and rebate retracting bolt over and above 2,500 mm headroom.

#### Hinges

2 steel weld-on hinges for each leaf, 3-D adjustable, centre securing pin, optional hinge variants (if applicable extra charge).

#### Surface

powder-coated, primed RAL 9002, optional final paint-coating (if applicable extra charge).



#### Establishing the clear passage width with leaf open at 90°

##### Weld-on hinge

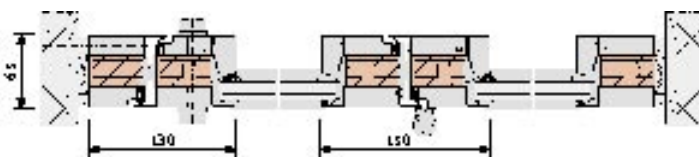
##### 15 mm pivotal spacing

Clear passage dimension (CP) =  
Frame outer dimension (FOD) - 188 mm

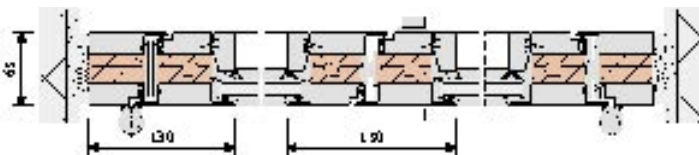
##### Screw-on hinge

##### 25 mm pivotal spacing

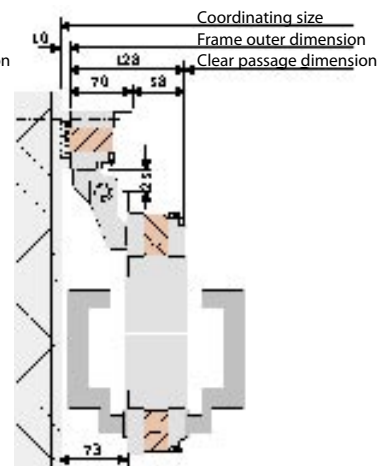
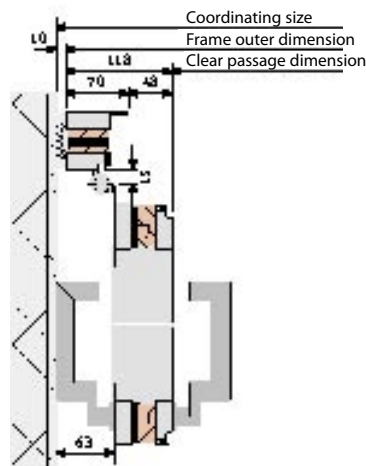
Clear passage dimension (CP) =  
Frame outer dimension (FOD) - 198 mm



One-leaf door with side part



Two-leaf door



### Fuego light, steel / optional stainless steel

### Approved models / Technical specifications

Resistance class		T30		F30	T90		
Type		Fuego light T30-1	Fuego light T30-2	Fuego light F30	Fuego light T90-1	Fuego light T90-2	
Models	Doors and wall units with glazing						
	Doors can be combined with wall units – in any transom spacing						
	Transoms – vertical	≤ 1	≤ 1 for each leaf	any	≤ 2 <sup>2)</sup>	≤ 2 <sup>2)</sup> for each leaf	
	Transoms – horizontal	≤ 5	≤ 5 for each leaf	any	≤ 5 <sup>2)</sup>	≤ 5 <sup>2)</sup> for each leaf	
Unit division	Slants	-	-	•	-	-	
	Arches	-	-	•	-	-	
	Recesses	-	-	-	-	-	
	Angles	-	-	-	-	-	
	Widening	•	•	•	-	-	
Dimensions	Shell dimension	Width min. - max.	730 – 1570	1430 – 3000	unlimited <sup>1)</sup>	730 – 1570	1430 – 2520
		Height min. - max.	1740 – 3085 <sup>5)</sup>	1740 – 3085 <sup>6)</sup>	≤ 4015	1740 – 2385	1740 – 2385
		Height (with fanlight)	4015	4015	-	3500	3500
	Frame outer dimension	Width min. - max.	700 – 1540	1400 – 2960	unlimited <sup>1)</sup>	700 – 1540	1400 – 2490
		Height min. - max.	1725 – 3070 <sup>5)</sup>	1725 – 3070 <sup>6)</sup>	≤ 4000	1725 – 2370	1725 – 2370
		Height (with fanlight)	4000	4000	-	3485	3485
Clear passage at 180° opening	Width min. - max.	560 – 1400	1260 – 2820	-	560 – 1400	1260 – 2350	
	Height min. - max.	1655 – 3000 <sup>5)</sup>	1655 – 3000 <sup>6)</sup>	-	1655 – 2300	1655 – 2300	
Door leaf	Structural depth	65	65	65	70	70	
	View	130	130 / 150	70 / 90	130	130 / 150	
	Base height	70 – 300	70 – 300	70 – 300	70	70	
	Transom width without glass strip / rebate	vertically	30, 50	30, 50	30, 50, 55, 60–300	20 – 300 <sup>2)</sup>	20 – 300 <sup>2)</sup>
horizontally		30, 50, 55, 60–300	30, 50, 55, 60–300	30, 50, 55, 60–300	20 – 300 <sup>2)</sup>	20 – 300 <sup>2)</sup>	
Walls	Masonry	≥ 115	≥ 115	≥ 115	≥ 240	≥ 240	
	Concrete	≥ 100	≥ 100	≥ 100	≥ 140	≥ 140	
	Foam mortar	-	-	-	≥ 240	≥ 240	
	Partition walls	≥ 100	≥ 100	≥ 100	≥ 100 <sup>4)</sup>	≥ 100 <sup>4)</sup>	
	Door / glazing combination	•	•	•	-	-	
Z-frames	-	-	-	-	-		
Fillings	Pyrostop 30-1x (W x H max.)	1400 x 2400	1400 x 2400	1400 x 2400 2400 x 1400	-	-	
	Pyrostop 30-2x (W x H max.)	1324 – 2964	1324 – 2964	-	-	-	
	Pyrostop 90-102 (W x H max.)	-	-	-	1304 x 2244	1304 x 2244	
	Panelling	• <sup>7)</sup>	• <sup>7)</sup>	-	-	-	
	Glass / panelling	• <sup>7)</sup>	• <sup>7)</sup>	-	-	-	
	Glass use	Wet glazing	•	•	•	•	
Dry glazing	•	•	•	-	-		
Design variants	with fanlight & side part	FOD height	≤ 4000	≤ 4000	-	-	
	with side part	FOD width	unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	-	-	
	Smokeproof door as per DIN 18095 (in combination with DIN 4102)		•	•	-	-	
	Stainless steel design		•	•	-	-	
Approval numbers		Z-6.12-1693	Z-6.14-1694	Z-19.14-1382	<sup>3)</sup>	<sup>3)</sup>	

<sup>1)</sup> In keeping with static requirement

<sup>2)</sup> Transoms only in gummed version

<sup>3)</sup> Approval procedure ongoing (consent needed in individual cases)

<sup>4)</sup> Min. 50 x 50 x 4 partition profile needed

<sup>5)</sup> Doors CP > 1,400 x 2,300 under ongoing approval procedure (please consult)

<sup>6)</sup> Doors CP > 2,350 x 2,300 under ongoing approval procedure (please consult)

<sup>7)</sup> Panelling approved up to balustrade height, ongoing approval procedure for solid panelling (please consult)

• possible – not possible

## Presto, steel

### Presto

ready-to-install structure of electro-galvanized, yellow chromated precision profile steel tubes, surface flushed, prepared for customer fitting with frame plug, units transport-glazed, door leaves are supplied in a finished glaze form.

### Door units

1 or 2-leaf, smokeproof, with lowerable floor seal, with 2 x EPDM stopper seal, optional fanlight(s) and/or side part(s).

### Wall units

permanently glazed, optional connecting units.

### Hardware

Engaging mortice lock, top latch from FOD 1,330 x 2,370 mm and for all 2-leaf doors, prepared for 71 mm profile cylinder, symmetrically partitioned (for standard sets), right-angle bent aluminium rounded handle set with steel core and oval rosette plates, upper door closer with slide channel, 2-leaf doors with closing sequence control and also optional with rebate retracting bolt.

### Hinges

2 steel weld-on hinges for each leaf, 3-D adjustable, centre securing pin, optional hinge variants (if applicable extra charge).

### Surface

powder-coated, primed RAL 9002, optional final paint-coating (if applicable extra charge).



### Establishing the clear passage width with leaf open at 90°

#### Weld-on hinge

##### 15 mm pivotal spacing

Clear passage dimension (CP) =  
Frame outer dimension (FOD) - 173 mm

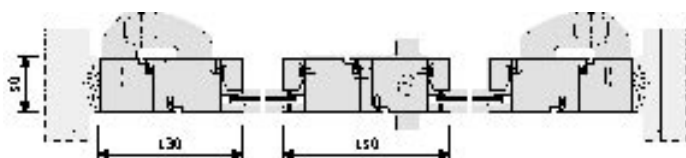
#### Screw-on hinge

##### 25 mm pivotal spacing

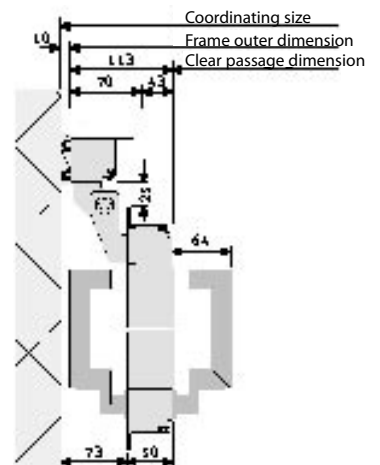
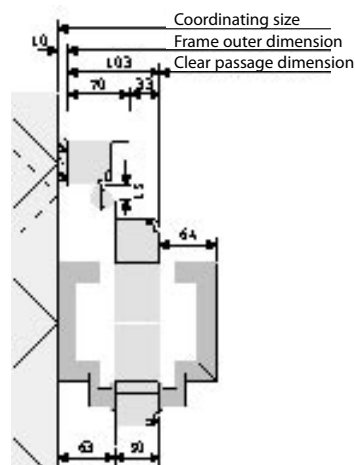
Clear passage dimension (CP) =  
Frame outer dimension (FOD) - 183 mm



One-leaf door with side part



Two-leaf door



Resistance class		RS			G30		
		Presto RS-1	Presto RS-2	Presto wall units	Presto G30	Presto G30 <sup>2)</sup>	
Models	Doors and wall units with glazing						
	Doors can be combined with wall units – in any transom spacing						
	Transoms – vertical	any	any	any	any	any	
	Transoms - horizontal	any	any	any	any	any	
Unit division	Slants	-	-	•	-	•	
	Arches	-	-	•	-	•	
	Recesses	-	-	•	-	•	
	Angles	-	-	•	-	•	
	Widening	•	•	•	-	•	
Dimensions	Shell dimension (greater dimensions possible using frame variants)	Width min. - max.	610 – 1610	1610 x 3030	unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	
		Height min. - max.	1745 – 2835	1745 x 2835	unlimited <sup>1)</sup>	≤ 3515	≤ 5000 10015 bei W ≤ 1030
		Height (with fanlight)	unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	-	-	-
	Frame outer dimension (greater dimensions possible using frame variants)	Width min. - max.	580 – 1580	1580 x 3000	unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	unlimited <sup>1)</sup>
		Height min. - max.	1730 – 2820	1730 x 2820	unlimited <sup>1)</sup>	≤ 3500	≤ 5000 10015 bei W ≤ 1000
		Height (with fanlight)	unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	-	-	-
Clear passage at 180° opening	Width min. - max.	440 – 1440	1440 x 2860	-	-	-	
	Height min. - max.	1660 – 2750	1660 x 2750	-	-	-	
Door leaf	Structural depth	50	50	50	50	50	
	View	130	130 / 150	70 / 90	70 / 90	70 / 90	
	Base height	50, 70 – 420	50, 70 – 420	50, 70 – 420	70	70	
	Transom width without glass strip / rebate vertically or horizontally	10, 20, 30, 50, 70, 90 – 400	10, 20, 30, 50, 70, 90 – 400	10, 20, 30, 50, 70, 90 – 400	20, 30, 50, 70, 90	20, 30, 50, 70, 90	
Walls	Masonry	≥ 115	≥ 115	≥ 115	≥ 115	≥ 115	
	Concrete	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	
	Foam mortar	≥ 150	≥ 150	≥ 150	-	≥ 150	
	Partition walls	≥ 100	≥ 100	≥ 100	≥ 100 <sup>3)</sup>	≥ 100	
	Door / glazing combination	•	•	•	-	-	
	Z-frames	•	•	-	-	-	
	Steel and wood supports / bearers (with G30 in F30 version)	-	•	•	•	- •	
Fillings	Glass of choice, from 5 mm (W x H max.)	Door size	Door size	unlimited <sup>1)</sup>	-	-	
	G30-Glass of choice (W x H max.)	•	•	•	1000 x 2000 2000 x 1000	-	
	Pyran S (G30) (W x H max.)	•	•	•	1000 x 2000 2000 x 1000	1600 x 3000 3000 x 1600	
	Panelling	•	•	•	-	•	
	Glass / panelling	•	•	•	-	•	
	Glass use	Wet glazing	•	•	•	•	
Dry glazing	•	•	•	-	-		
Design variants	with fanlight & side part	FOD height	unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	-	-	
	with fanlight	FOD height	unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	-	-	
	with side part	FOD width	unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	-	-	
Test certificate- / Approval numbers		P12000403-01	P12000403-02	-	Z-19.14-508	Z-19.14-1524	

<sup>1)</sup> in keeping with static requirement

<sup>2)</sup> only to be used with Pyran glass

<sup>3)</sup> only with a side connection

• possible – not possible

### BSC, Aluminium

#### BSC

ready-to-install structure of all aluminium, multi-chamber hollow profiles with thermal isolation and inserted insulation strips, surface-flushed, prepared for customer fitting with frame plug, units are supplied non-glazed for weight and transport reasons.

#### Door units

1 or 2-leaf, fire-resistant and smoke-proof (if applicable extra charge), with 2 x EPDM stopper seal, optional fanlight(s) and/or side part(s).

#### Wall units

permanently glazed, fire-resistant, optional connecting units.

#### Hardware

Engaging mortice lock, top interlocking from FOD 2,368 mm, prepared for 90 mm profile cylinder, right angle bent aluminium rounded handle set with steel core and oval rosette plates, upper door closer with slide channel, 2-leaf doors with closing sequence control and rebate retracting bolt in the inactive leaf, inactive leaf size > 500 mm.

#### Hinges

2 aluminium weld-on hinges for each leaf, 3-D adjustable, 3 securing pins, optional roller hinges (if applicable extra charge).

#### Surface

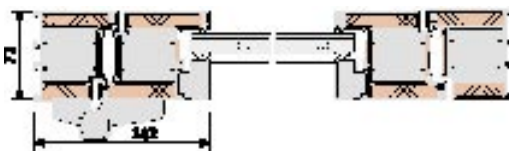
anodized in E6/EV1, optional powder coated final paint coating (if applicable extra charge).



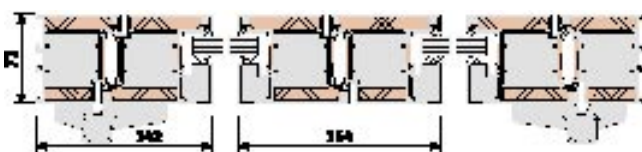
#### Establishing the clear passage width with leaf open at 90°

**Roller door hinge (Aluminium / stainless steel) Pivotal spacing 14.5 mm**  
 Clear passage dimension (CP) =  
 Frame outer dimension (FOD) – 203 mm

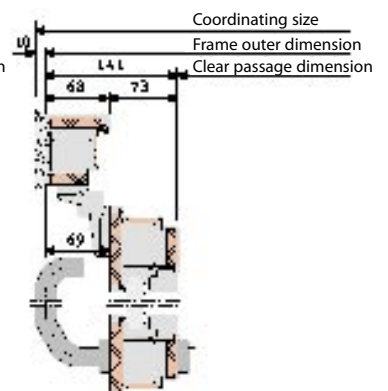
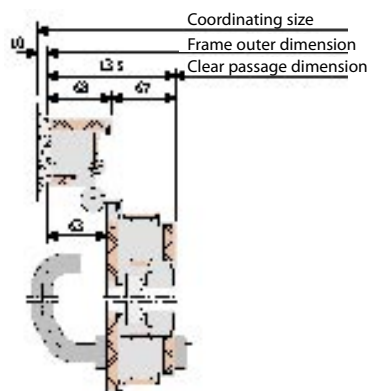
**Screw-on hinge (aluminium) Pivotal spacing 20 mm**  
 Clear passage dimension (CP) =  
 Frame outer dimension (FOD) – 209 mm



One-leaf door



Two-leaf door



### BSC, Aluminium

### Approved models / Technical specifications

Resistance class		T30		F30	
Type		BSC T30-1	BSC T30-2	BSC F30	
Models	Doors and wall units with glazing				
	Doors can be combined with wall units – in any transom spacing				
	Transoms – vertical	≤ 2	≤ 2 for each leaf	any	
	Transoms – horizontal	≤ 5	≤ 5 for each leaf	any	
Unit division	Slants	-	-	•	
	Arches	-	-	•	
	Recesses	-	-	•	
	Angles	-	-	•	
	Widening	•	•	•	
Dimensions	Shell dimension (W x H) (greater dimensions possible using frame variants)	min. door size	630 x 1740	1355 x 1740	W = unlimited <sup>1)</sup> H ≤ 4000
		max. door size 1	1516 x 2383	2666 x 2383	
		max. door size 2	1366 x 2683	2366 x 2683	
		H (with fanlight)	≤ 3490	≤ 3490	
	Frame outer dimension (W x H) (greater dimensions possible using frame variants)	min. door size	600 x 1725	1325 x 1725	W = unlimited <sup>1)</sup> H ≤ 3980
		max. door size 1	1486 x 2368	2636 x 2368	
		max. door size 2	1336 x 2668	2336 x 2668	
		H (with fanlight)	≤ 3475	≤ 3475	
Clear passage at 180° opening (W x H)	min. door size	464 x 1657	1189 x 1657	-	
	max. door size 1	1350 x 2300	2500 x 2300	-	
	max. door size 2	1200 x 2600	2200 x 2600	-	
Door leaf	Structural depth	72	72	72	
	View	142	142 / 164	68 / 90	
	Base height	90, 136, 142, 150, 180, 210, 240, 284, 300		68, 90, 142, 172	
	Transom projection width	vertically 90 horizontally 90, 150	90 90, 150	90, 150 90, 150	
	Glued transom / Extra strip profile	-	-	-	
Walls	Masonry	≥ 115	≥ 115	≥ 115	
	Concrete	≥ 100	≥ 100	≥ 100	
	Foam mortar (FOD <sub>max</sub> = FOD – 15 mm)	≥ 175	≥ 175	≥ 175	
	Partition walls	≥ 100	≥ 100	≥ 100	
	Door / glazing combination	•	•	•	
	Z-frames	•	•	-	
Fillings	Contraflam 90-N2 (W x H max.)	-	-	-	
	Pyrostop 30-1x, 30-2x, 30-3x (W x H max.)	1400 x 2400	1400 x 2000	1400 x 2000	
		2000 x 1400	2000 x 1400	2000 x 1400	
		1200 x 2262	1200 x 2262	1200 x 2262	
		1082 x 2478	1082 x 2478	1082 x 2478	
	Fanlight door (W x H max.)	2576 x 1000	2576 x 1000	-	
		2000 x 1400	2000 x 1400	-	
	Panelling	1124 x 2104	1124 x 2104	1250 x 2000 2000 x 1250 1200 x 2262	
Glass / panelling		•	•	•	
Glass use	Wet glazing	-	-	-	
	Dry glazing	•	•	•	
Design variants	with fanlight & side part FOD height	≤ 3480	≤ 3480	-	
	with fanlight FOD height	≤ 3480	≤ 3480	-	
	with side part FOD width	unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	-	
	Smokeproof door as per DIN 18095 (in combination with DIN 4102)	•	•	-	
Approval numbers	Z-6.18-1605	Z-6.18-1606	Z-19.14-1176		

### CF, Aluminium

#### CF

ready-to-install structure of aluminium one-chamber hollow profiles with thermal isolation and inserted CF insulated core, surface-flushed, prepared for bushing or weld-on fitting, units are supplied non-glazed for weight and transport reasons.

#### Door units

1 or 2-leaf T90 fire door, T90 fire resistance class as per DIN 4102 and smokeproof as per DIN 18095 (if applicable extra charge), with lowerable floor seal, with 2 x EPDM stopper seal, optional fanlight(s) and/or side part(s).

#### Wall units

permanently glazed, F90 fire resistance class as per DIN 4102, optional connecting units.

#### Hardware

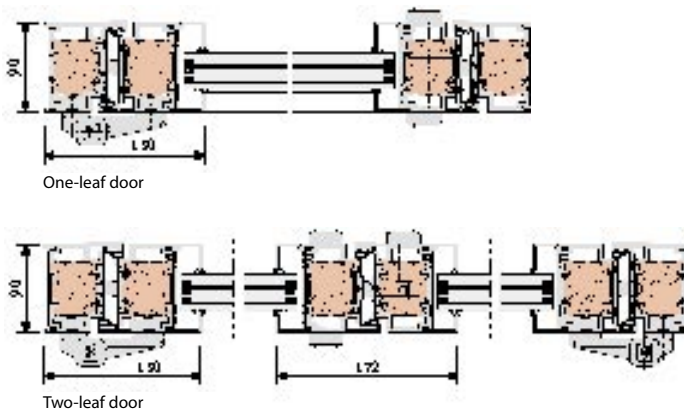
Mortice lock prepared for 110 mm profile cylinder, right angle bent aluminium rounded handle set with steel core and oval rosette plates, upper door closer with slide channel, 2-leaf doors with closing sequence control and rebate retracting bolt lock in the inactive leaf, inactive leaf size  $\geq 500$  mm.

#### Hinges

2 aluminium weld-on hinges for each leaf, 3-D adjustable, 3 securing pins.

#### Surface

anodized in E6/EV1, optional powder coated final paint coating (if applicable extra charge).



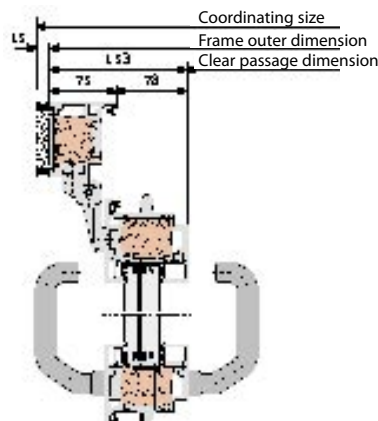
#### Establishing the clear passage width with leaf open at 90°

##### Screw-on hinge







##### 20 mm pivotal spacing

T90-1: Clear passage dimension (CP) = Frame outer dimension (FOD) – 228 mm

T90-2: Clear passage dimension (CP) = Frame outer dimension (FOD) – 306 mm



**CF, Aluminium**
**Approved models / Technical specifications**

Resistance class		<b>T90</b>		<b>F90</b>	
		CF T90-1	CF T90-2	CF F90 with T90	
<b>Models</b>	Doors and wall units with glazing				
	Doors can be combined with wall units – in any transom spacing				
	Transoms - vertical	≤ 2	≤ 2 for each leaf	any	
	Transoms - horizontal	≤ 5	≤ 5 for each leaf	any	
<b>Unit division</b>	Slants	-	-	•	
	Arches	-	-	•	
	Recesses	-	-	•	
	Angles	-	-	•	
	Widening	•	•	•	
<b>Dimensions</b>	Shell dimension (WxH) (greater dimensions possible using frame variants)	min. door size	624 x 1750	1500 x 1750	W = unlimited <sup>1)</sup> H ≤ 4000
		max. door size 1	1490 x 2490	2490 x 2490	
		max. door size 2	-	-	
		H (with fanlight)	-	-	
	Frame outer dimension (WxH) (greater dimensions possible using frame variants)	min. door size	604 x 1740	1470 x 1740	W = unlimited <sup>1)</sup> H ≤ 3985
		max. door size 1	1470 x 2480	2460 x 2480	
		max. door size 2	-	-	
		H (with fanlight)	-	-	
Clear passage at 180° opening (WxH)	min. door size	454 x 1665	1320 x 1665	-	
	max. door size 1	1320 x 2405	2310 x 2405	-	
	max. door size 2	-	-	-	
<b>Door leaf</b>	Structural depth	90	90	90	
	View	150	150	75	
	Base height	98 – 238		75 – 225	
	Transom projection width	vertically -	-	-	
	Glued transom / Extra strip profile	-	horizontally -	-	
<b>Walls</b>	Masonry	20 – 140/98	20 – 140/98	20 – 140/98	
	Concrete	≥ 175	≥ 175	≥ 175	
	Foam mortar (FOD <sub>max</sub> = FOD – 15 mm)	≥ 140	≥ 140	≥ 140	
	Partition walls	≥ 200	≥ 200	≥ 200	
	Door / glazing combination	≥ 125	≥ 125	≥ 125	
	Z-frames	•	•	•	
<b>Fillings</b>	Contraflam 90-N2 (W x H max.)	-	-	-	
	Pyrostop 30-1x, 30-2x, 30-3x (W x H max.)	-	-	-	
	Fanlight door (W x H max.)	1238 x 2282	1238 x 2282	1400 x 2200 1400 x 2336	
	Panelling	-	-	-	
	Glass / panelling	-	-	-	
	Glass use	Wet glazing • Dry glazing •	• •	• •	
<b>Design variants</b>	with fanlight & side part	FOD height -	-	•	
	with fanlight	FOD height -	-	•	
	with side part	FOD width -	-	•	
	Smokeproof door as per DIN 18095 (in combination with DIN 4102)	•	•	-	
Approval numbers	-	-	1)		

<sup>1)</sup> Test passed, approvals applied for

• possible – not possible

## RSC, Aluminium

### RSC

ready-to-install structure of complete aluminium hollow profiles, surface-flushed, prepared for customer fitting with frame plug, units transport-glazed, door leaves are supplied in a finished glaze condition.

### Door units

1 or 2-leaf, smokeproof, with lowerable floor seal, with 2 x EPDM stopper seal, optional fanlight(s) and/or side part(s).

### Wall units

permanently glazed, optional connecting units.

### Hardware

Engaging mortice lock, upper interlocking from FOD 2,368 mm, prepared for 90 mm profile cylinder, right angle bent aluminium rounded handle set with steel core and oval rosette plates, top door closer with slide channel, 2-leaf doors with closing sequence control and rebate retracting bolt in the inactive leaf, inactive leaf size > 500 mm.

### Hinges

2 aluminium weld-on hinges for each leaf, 3-D adjustable, optional roller hinges (if applicable extra charge).

### Surface

anodized in E6/EV1, optional powder coated final paint coating (if applicable extra charge).

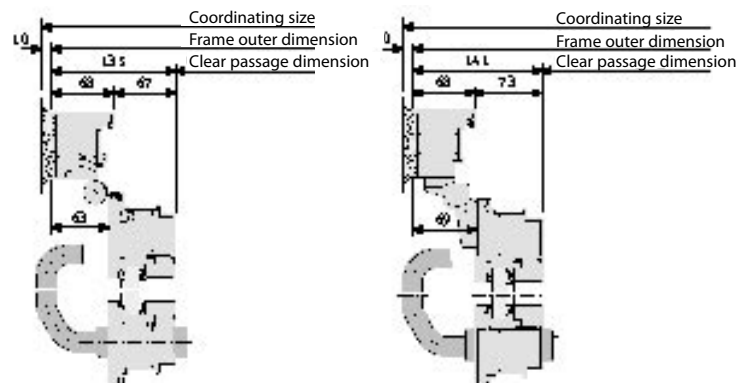
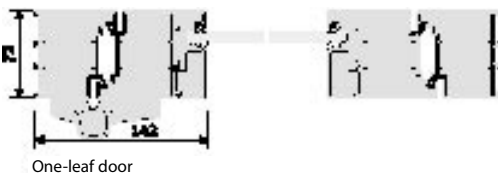


Roller hinge (can also be supplied for BSC)

### Establishing the clear passage width with leaf open at 90°

**Roller door hinge (Aluminium / stainless steel) Pivotal spacing 14.5 mm**  
 Clear passage dimension (CP) =  
 Frame outer dimension (FOD) – 203 mm

**Screw-on hinge (aluminium) Pivotal spacing 20 mm**  
 Clear passage dimension (CP) =  
 Frame outer dimension (FOD) – 209 mm



### RSC, Aluminium

### Approved models / Technical specifications

Resistance class		RS			
Type		RSC RS-1	RSC RS-2	RSC Wall units	
Models	Doors and wall units with glazing				
	Doors can be combined with wall units – in any transom spacing				
	Transoms – vertical per leaf	≤ 2	≤ 2 for each leaf	any	
	Transoms - horizontal per leaf	≤ 5	≤ 5 for each leaf	any	
Unit division	Slants	-	-	•	
	Arches	-	-	•	
	Recesses	-	-	•	
	Angles	-	-	•	
	Widening	•	•	•	
Dimensions	Shell dimension (W x H) (greater dimensions possible using frame variants)	min. door size	630 x 1740	1110 x 1740	W = unlimited <sup>1)</sup> H = unlimited <sup>1)</sup>
		max. door size 1	1516 x 2383	2666 x 2383	
		max. door size 2	1366 x 2683	2366 x 2683	
		H (with fanlight)	unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	
	Frame outer dimension (W x H) (greater dimensions possible using frame variants)	min. door size	600 x 1725	1080 x 1725	W = unlimited <sup>1)</sup> H = unlimited <sup>1)</sup>
		max. door size 1	1486 x 2368	2636 x 2368	
		max. door size 2	1336 x 2668	2336 x 2668	
		H (with fanlight)	unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	
	Clear passage at 180° opening (W x H)	min. door size	464 x 1657	1189 x 1657	-
max. door size 1		1350 x 2300	2500 x 2300	-	
max. door size 2		1200 x 2600	2200 x 2600	-	
Door leaf	Structural depth	72	72	72	
	View	142	142 / 164	68 / 90	
	Base height	90, 136, <b>142</b> , 150, 180, 210, 240, 284, 300	90, 136, <b>142</b> , 150, 180, 210, 240, 284, 300	68, 90, <b>142</b> , 172	
	Transom projection width	vertically: 90 horizontally: 90, 150	90, 150	90, 150	
Walls	Masonry	≥ 115	≥ 115	≥ 115	
	Concrete	≥ 100	≥ 100	≥ 100	
	Foam mortar (FOD <sub>max</sub> = FOD – 15 mm)	≥ 175	≥ 175	≥ 175	
	Partition walls	≥ 100	≥ 100	≥ 100	
	Door / glazing combination	•	•	•	
	Lined steel structures	•	•	•	
	Z-frames	•	•	-	
Fillings	Glass of choice (bear in mind leaf weight of doors)	•	•	•	
	Panelling	Door size	Door size	unlimited <sup>1)</sup>	
	Glass / panelling	•	•	•	
	Glass use	Wet glazing: - Dry glazing: •	- •	- •	
Design variants	with fanlight & side part	FOD height: unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	-	
	with fanlight	FOD height: unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	-	
	with side part	FOD width: unlimited <sup>1)</sup>	unlimited <sup>1)</sup>	-	
	Smokeproof door as per DIN 18095 (in combination with DIN 4102)	•	•	-	
Test certificate numbers	P12000622-30	P12000622-40	-		

<sup>1)</sup> in keeping with static requirement

• possible – not possible

# ***Our strength is quality***

Novoferm is one of the largest European system providers of doors, garage doors, frames and operators for private, commercial and industrial use. We undertake production in Europe and Asia and market our products in many countries throughout the world.



Our corporate philosophy is down to a simple principle: Class instead of mass. We endeavour to provide our customers with products which, whilst always maximizing quality, safety, convenience and aesthetics, minimize on costs.



Our products allow for the various country-by-country requirements and satisfy national standards and testing regulations. We, of course, have certification in keeping with ISO 9001 and produce in line with the latest technological findings – ecologically compatible aspects included. As Interseroh AG's contractual partner we take an active part in recycling packaging material.

We are a part of the Sanwa Shutter Corporation. This provides us with that degree of corporate elbow-room to fully concentrate on our competencies and on international market developments.

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