



**HINGES FOR ALUMINIUM SYSTEMS**

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## HINGES FOR GLASS SHEET




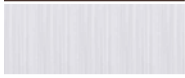







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# INTRODUCTION

## SYMBOLS OF COLOURS IN CODES

„X” CODE	COLOUR		RAL CODE
0	raw		-
1	anode silver or natural		-
2	brown		RAL 8019
4	inox (imitation of stainless steel)		-
5	black		RAL 9005
6	anode varnish		-
7	brown		RAL 8017
8	silver		RAL 9006
9	white		RAL 9016
N	atypical as ordered		-
R7016	anthracite		RAL 7016

## SYMBOLS AND MEANINGS



Easy and fast assembly



Independent & smooth adjustment in 3 directions



Maximum load capacity of the hinge



Possibility of use in fire door



Certificated product

## WX HINGE



WX8010456X



WX8010457X



WX8010458X



WX8010459X



WX8010460X

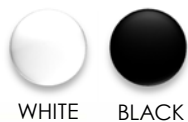


WX8010461X

### AVAILABLE COLOURS



### PLASTIC COVERS



### CODE

### TYPE

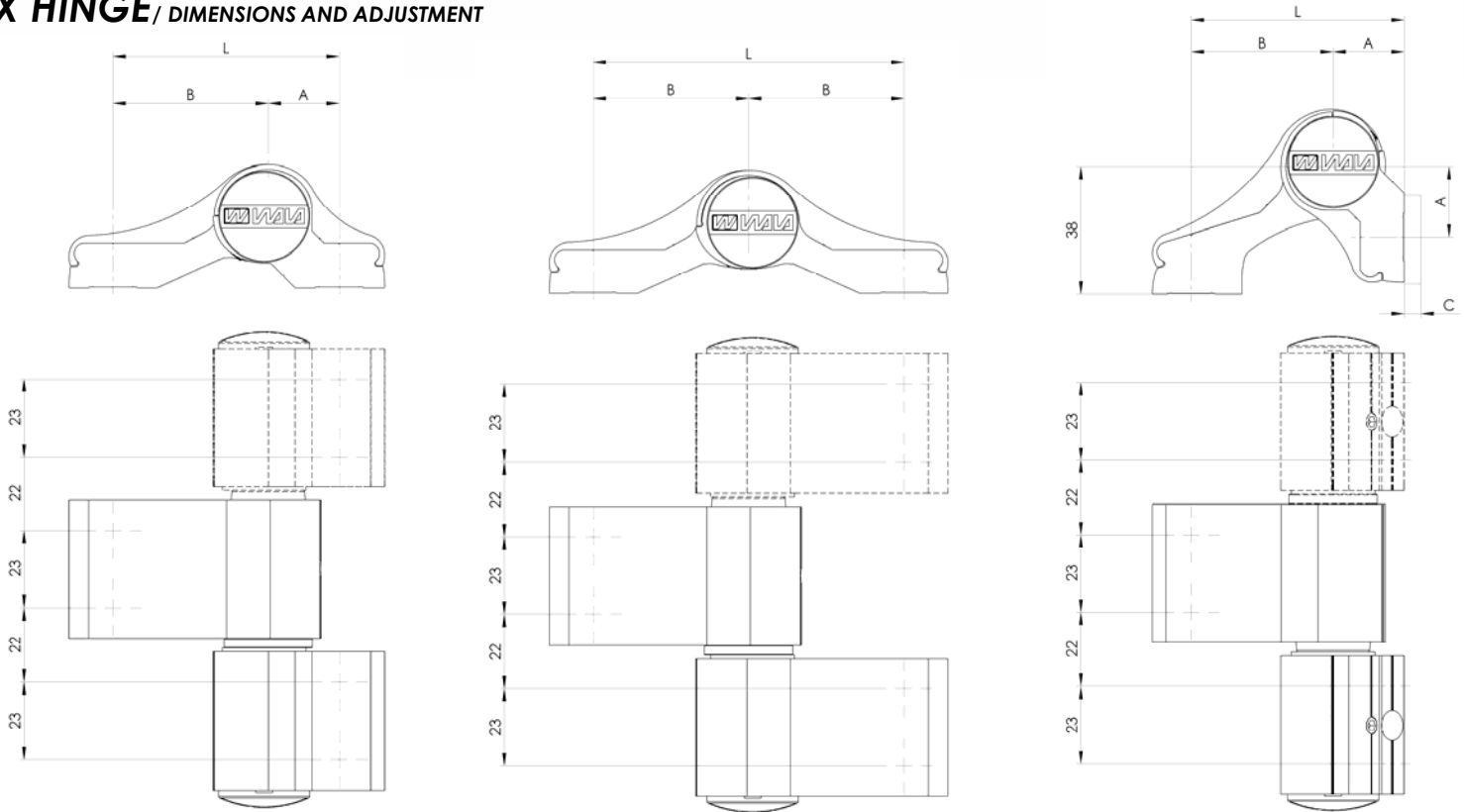
<b>WX8010456X</b>	2-WING WX ASYMMETRICAL HINGE
<b>WX8010457X</b>	3-WING WX ASYMMETRICAL HINGE
<b>WX8010458X</b>	2-WING WX SYMMETRICAL HINGE
<b>WX8010459X</b>	3-WING WX SYMMETRICAL HINGE
<b>WX8010460X</b>	2-WING WX ANGULAR HINGE
<b>WX8010461X</b>	3-WING WX ANGULAR HINGE

**WX HINGE CLASSIFICATION EN 1935:2002 + EN 1935:2002/AC:2003**  
for use in fire door and emergency exit doors

1	2	3	4	5	6	7	8
<b>4</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>14</b>

X - colour code as indicated in the list of WALA colours

## WX HINGE / DIMENSIONS AND ADJUSTMENT



CODE	TYPE	L	A	B	C
WX8010456X	2-WING WX ASYMMETRICAL HINGE	67	21	46	-
WX8010457X	3-WING WX ASYMMETRICAL HINGE	67	21	46	-
WX8010458X	2-WING WX SYMMETRICAL HINGE	92	46	46	-
WX8010459X	3-WING WX SYMMETRICAL HINGE	92	46	46	-
WX8010460X	2-WING WX ANGULAR HINGE	63	21	42	•
WX8010461X	3-WING WX ANGULAR HINGE	63	21	42	•

• - distance plate, available height: 2mm, 3mm, 5mm, 8mm, 10mm

### WX HINGE ADJUSTMENT:

Assembly possible depending on direction of inserted pin

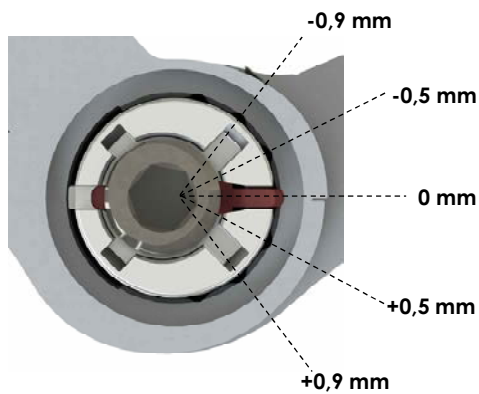
±3,5mm

Left / right adjustment

Assembly possible depending on direction of inserted pin

±3,5mm

Left / right adjustment



Sealing pressure adjustment



+4mm  
-1mm  
Height adjustment

## WX HINGE / SELECTION AND LOAD



Private building



Public building



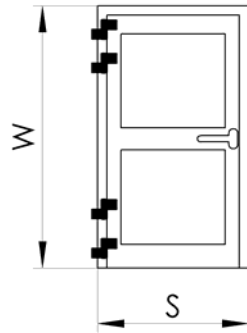
Door closer



2-Wing Hinge



3-Wing Hinge



In case of door higher than 2200mm it is required to put additional hinge in the middle to caulk the door leaf.



2 x



3 x

2 x

W \ S	800	900	1000	1100	1200	1300	1400
2000	98	91	84	78	72	67	62
2100	103	95	88	82	76	70	65
2200	108	100	93	86	79	74	68
2300	113	105	97	90	83	77	71
2400	119	110	102	95	88	81	75
2500	125	116	107	99	92	85	79
2600	130	122	113	104	97	89	83
2700	130	128	118	109	101	94	87
2800	130	130	124	115	106	99	91
2900	130	130	130	121	112	103	96
3000	130	130	130	127	117	109	101

W \ S	800	900	1000	1100	1200	1300	1400
2000	131	121	112	104	96	89	82
2100	137	127	118	109	101	93	86
2200	144	133	123	114	106	98	91
2300	151	140	130	120	111	103	95
2400	159	147	136	126	117	108	100
2500	167	154	143	132	123	113	105
2600	175	162	150	139	129	119	110
2700	180	170	158	146	135	125	116
2800	180	179	165	153	142	131	122
2900	180	180	174	161	149	138	128
3000	180	180	180	169	156	145	134



3 x



4 x

W \ S	800	900	1000	1100	1200	1300	1400
2000	169	157	145	134	124	115	107
2100	178	164	152	141	131	121	112
2200	186	173	160	148	137	127	118
2300	196	181	168	155	144	133	123
2400	206	190	176	163	151	140	130
2500	216	200	185	171	159	147	136
2600	220	210	194	180	167	154	143
2700	220	220	204	189	175	162	150
2800	220	220	214	198	184	170	157
2900	220	220	220	208	193	179	165
3000	220	220	220	219	202	187	174

W \ S	800	900	1000	1100	1200	1300	1400
2000	219	203	188	174	161	149	138
2100	230	213	197	183	169	157	145
2200	242	224	207	192	178	165	152
2300	250	235	218	202	187	173	160
2400	250	247	229	212	196	181	168
2500	250	250	240	222	206	190	176
2600	250	250	250	233	216	200	185
2700	250	250	250	245	227	210	194
2800	250	250	250	250	238	220	204
2900	250	250	250	250	250	232	214
3000	250	250	250	250	250	243	225

## WX HINGE / SELECTION AND LOAD

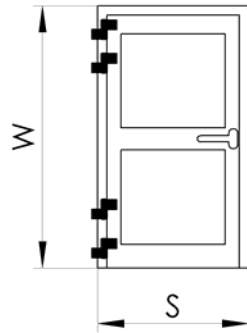
 Private building

 Public building

 Door closer

 2-Wing Hinge






 3-Wing Hinge



In case of door higher than 2200mm it is required to put additional hinge in the middle to caulk the door leaf.

 +   **2 x** 





W \ S	800	900	1000	1100	1200	1300	1400
2000	122	113	105	97	90	83	77
2100	129	119	110	102	95	88	81
2200	130	125	116	107	99	92	85
2300	130	130	122	113	104	96	89
2400	130	130	128	118	109	101	94
2500	130	130	130	124	115	106	99
2600	130	130	130	130	121	112	103
2700	130	130	130	130	127	117	109
2800	130	130	130	130	130	123	114
2900	130	130	130	130	130	129	120
3000	130	130	130	130	130	130	126

 +   **3 x**  **2 x** 

W \ S	800	900	1000	1100	1200	1300	1400
2000	173	160	148	137	127	117	109
2100	180	168	155	144	133	123	114
2200	180	176	163	151	140	130	120
2300	180	180	171	159	147	136	126
2400	180	180	180	167	154	143	132
2500	180	180	180	175	162	150	139
2600	180	180	180	180	170	157	146
2700	180	180	180	180	179	165	153
2800	180	180	180	180	180	174	161
2900	180	180	180	180	180	180	169
3000	180	180	180	180	180	180	177

 +   **3 x** 

W \ S	800	900	1000	1100	1200	1300	1400
2000	216	200	185	171	159	147	136
2100	220	210	194	180	167	154	143
2200	220	220	204	189	175	162	150
2300	220	220	214	198	184	170	157
2400	220	220	220	208	193	179	165
2500	220	220	220	219	202	187	174
2600	220	220	220	220	213	197	182
2700	220	220	220	220	220	207	191
2800	220	220	220	220	220	217	201
2900	220	220	220	220	220	220	211
3000	220	220	220	220	220	220	220

 +   **4 x** 

W \ S	800	900	1000	1100	1200	1300	1400
2000	250	238	220	204	189	175	162
2100	250	249	231	214	198	183	170
2200	250	250	243	225	208	193	178
2300	250	250	250	236	218	202	187
2400	250	250	250	248	229	212	197
2500	250	250	250	250	241	223	206
2600	250	250	250	250	250	234	217
2700	250	250	250	250	250	246	228
2800	250	250	250	250	250	250	239
2900	250	250	250	250	250	250	250
3000	250	250	250	250	250	250	250

## WX HINGE / SELECTION AND LOAD



Private building



Public building



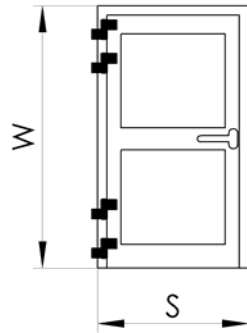
Door closer



2-Wing Hinge



3-Wing Hinge



In case of door higher than 2200mm it is required to put additional hinge in the middle to caulk the door leaf.



2 x

W \ S	800	900	1000	1100	1200	1300	1400
2000	140	140	130	120	111	103	96
2100	140	140	137	126	117	108	100
2200	140	140	140	133	123	114	105
2300	140	140	140	139	129	119	111
2400	140	140	140	140	135	125	116
2500	140	140	140	140	140	132	122
2600	140	140	140	140	140	138	128
2700	140	140	140	140	140	140	134
2800	140	140	140	140	140	140	140
2900	140	140	140	140	140	140	140
3000	140	140	140	140	140	140	140



3 x

2 x

W \ S	800	900	1000	1100	1200	1300	1400
2000	198	184	170	157	146	135	125
2100	200	193	179	165	153	142	131
2200	200	200	187	174	161	149	138
2300	200	200	197	182	169	156	145
2400	200	200	200	191	177	164	152
2500	200	200	200	200	186	172	159
2600	200	200	200	200	195	181	167
2700	200	200	200	200	200	190	176
2800	200	200	200	200	200	199	185
2900	200	200	200	200	200	200	194
3000	200	200	200	200	200	200	200



3 x

W \ S	800	900	1000	1100	1200	1300	1400
2000	230	216	200	185	171	159	147
2100	230	227	210	194	180	167	154
2200	230	230	221	204	189	175	162
2300	230	230	230	214	198	184	170
2400	230	230	230	225	208	193	179
2500	230	230	230	230	219	203	188
2600	230	230	230	230	230	213	197
2700	230	230	230	230	230	223	207
2800	230	230	230	230	230	230	217
2900	230	230	230	230	230	230	228
3000	230	230	230	230	230	230	230



4 x

W \ S	800	900	1000	1100	1200	1300	1400
2000	280	259	240	222	206	191	176
2100	280	272	252	233	216	200	185
2200	280	280	265	245	227	210	194
2300	280	280	278	257	238	221	204
2400	280	280	280	270	250	232	214
2500	280	280	280	280	263	243	225
2600	280	280	280	280	276	255	236
2700	280	280	280	280	280	268	248
2800	280	280	280	280	280	280	261
2900	280	280	280	280	280	280	274
3000	280	280	280	280	280	280	280





## MX HINGE



MX8010456X  
MX8020456X



MX8010458X  
MX8020458X



MX8010457X  
MX8020457X

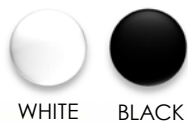


MX8010459X  
MX8020459X

### AVAILABLE COLOURS



### PLASTIC COVERS



### CODE

CODE		TYPE
STAINLESS PIN	GALVANISED STEEL PIN	
<b>MX8010456X</b>	<b>MX8020456X</b>	2-WING MX ASYMMETRICAL HINGE
<b>MX8010457X</b>	<b>MX8020457X</b>	3-WING MX ASYMMETRICAL HINGE
<b>MX8010458X</b>	<b>MX8020458X</b>	2-WING MX SYMMETRICAL HINGE
<b>MX8010459X</b>	<b>MX8020459X</b>	3-WING MX SYMMETRICAL HINGE

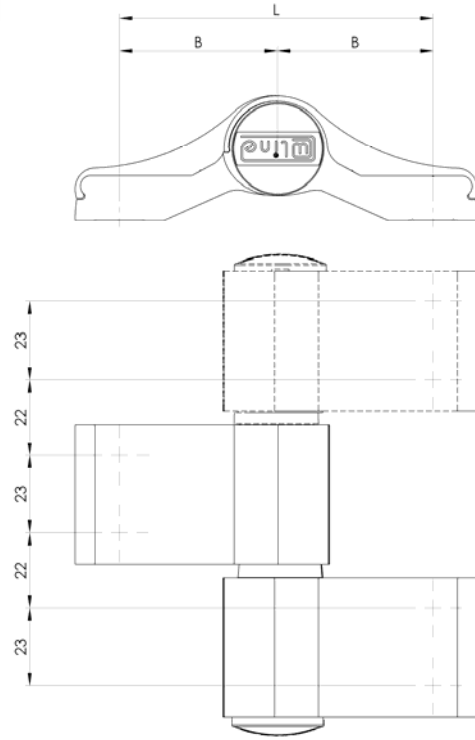
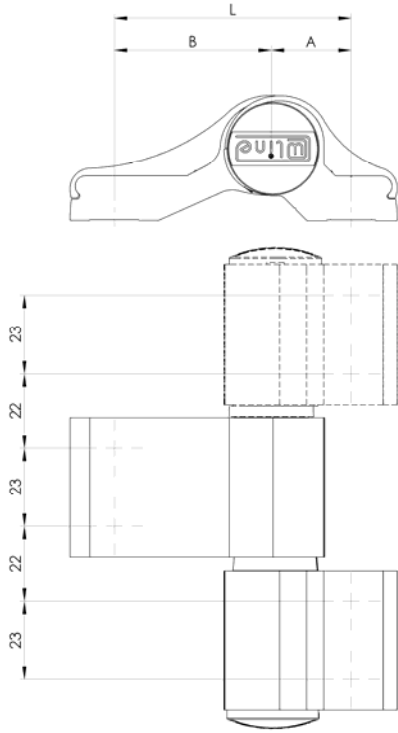
**MX HINGE CLASSIFICATION EN 1935:2002 + EN 1935:2002/AC:2003**  
for use in emergency exit doors

1	2	3	4	5	6	7	8
<b>4</b>	<b>7</b>	<b>7</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>14</b>

X - colour code as indicated in the list of WALA colours

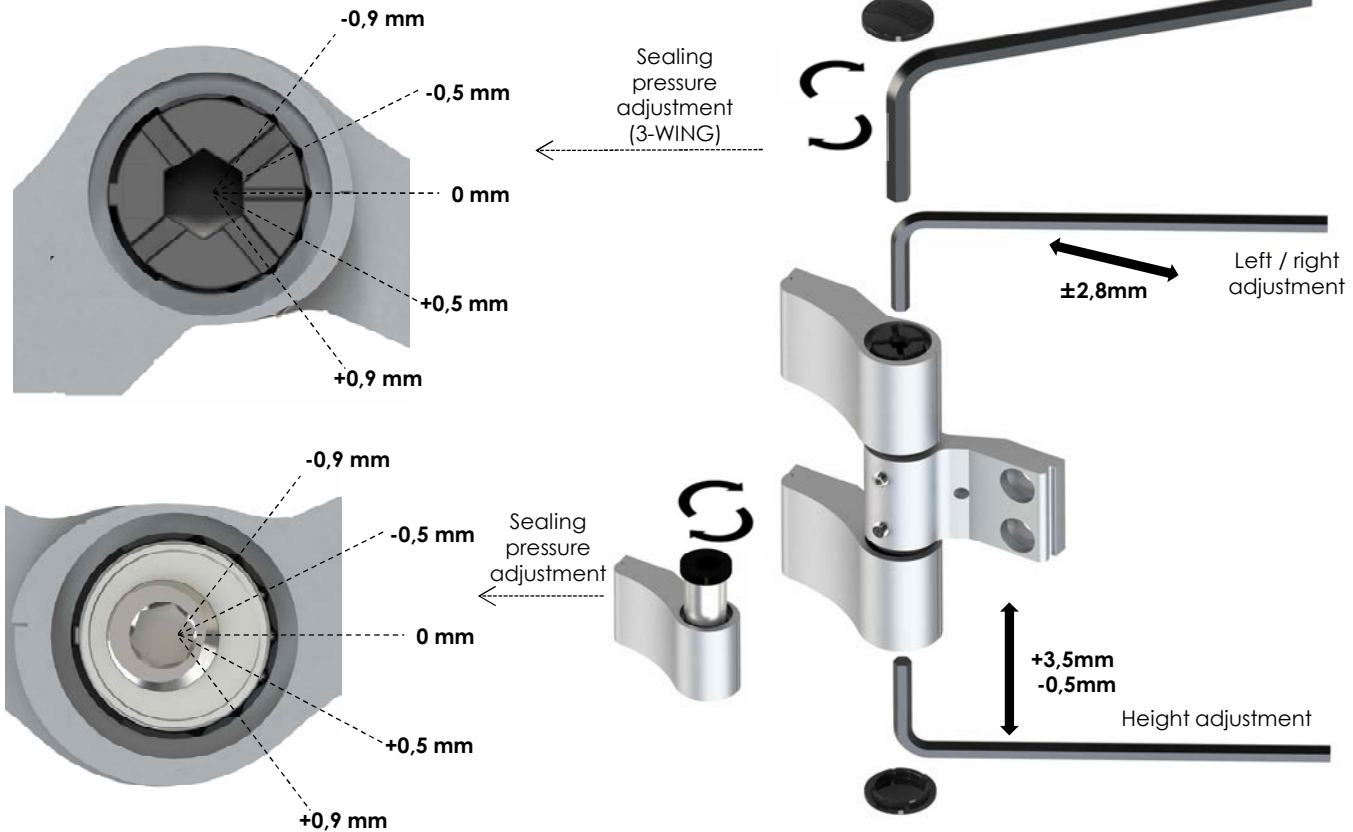


## MX HINGE / DIMENSIONS AND ADJUSTMENT



CODE (stainless pin)	CODE (galvanised steel pin)	TYPE	L	A	B
<b>MX8010456X</b>	<b>MX8020456X</b>	2-WING MX ASYMMETRICAL HINGE	67	21	46
<b>MX8010458X</b>	<b>MX8020458X</b>	2-WING MX SYMMETRICAL HINGE	92	46	46
<b>MX8010457X</b>	<b>MX8020457X</b>	3-WING MX ASYMMETRICAL HINGE	67	21	46
<b>MX8010459X</b>	<b>MX8020459X</b>	3-WING MX SYMMETRICAL HINGE	92	46	46

### MX HINGE ADJUSTMENT:



## MX HINGE / SELECTION AND LOAD



Private building



Public building



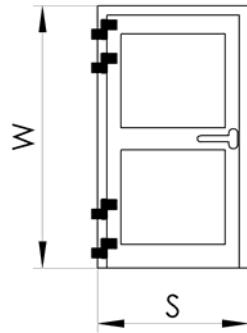
Door closer



2-Wing Hinge



3-Wing Hinge



In case of door higher than 2200mm it is required to put additional hinge in the middle to caulk the door leaf.



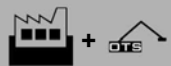
2 x



3 x 2 x

W \ S	800	900	1000	1100	1200	1300	1400
2000	78	73	67	62	58	54	50
2100	82	76	70	66	61	56	52
2200	86	80	74	69	63	59	54
2300	90	84	78	72	66	62	57
2400	95	88	82	76	70	65	60
2500	100	93	86	79	74	68	63
2600	104	98	90	83	78	71	66
2700	104	102	94	87	81	75	70
2800	104	104	99	92	85	79	73
2900	104	104	104	97	90	82	77
3000	104	104	104	102	94	87	81

W \ S	800	900	1000	1100	1200	1300	1400
2000	105	97	90	83	77	71	66
2100	110	102	94	87	81	74	69
2200	115	106	98	91	85	78	73
2300	121	112	104	96	89	82	76
2400	127	118	109	101	94	86	80
2500	134	123	114	106	98	90	84
2600	140	130	120	111	103	95	88
2700	144	136	126	117	108	100	93
2800	144	143	132	122	114	105	98
2900	144	144	139	129	119	110	102
3000	144	144	144	135	125	116	107



3 x



4 x

W \ S	800	900	1000	1100	1200	1300	1400
2000	135	126	116	107	99	92	86
2100	142	131	122	113	105	97	90
2200	149	138	128	118	110	102	94
2300	157	145	134	124	115	106	98
2400	165	152	141	130	121	112	104
2500	173	160	148	137	127	118	109
2600	176	168	155	144	134	123	114
2700	176	176	163	151	140	130	120
2800	176	176	171	158	147	136	126
2900	176	176	176	166	154	143	132
3000	176	176	176	175	162	150	139

W \ S	800	900	1000	1100	1200	1300	1400
2000	175	162	150	139	129	119	110
2100	184	170	158	146	135	126	116
2200	194	179	166	154	142	132	122
2300	200	188	174	162	150	138	128
2400	200	198	183	170	157	145	134
2500	200	200	192	178	165	152	141
2600	200	200	200	186	173	160	148
2700	200	200	200	196	182	168	155
2800	200	200	200	200	190	176	163
2900	200	200	200	200	200	186	171
3000	200	200	200	200	200	194	180

## MX HINGE / SELECTION AND LOAD

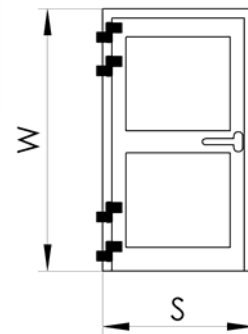
 Private building

 Public building

 Door closer

 2-Wing Hinge






 3-Wing Hinge



In case of door higher than 2200mm it is required to put additional hinge in the middle to caulk the door leaf.

 +   **2 x** 





W \ S	800	900	1000	1100	1200	1300	1400
2000	98	90	84	78	72	66	62
2100	103	95	88	82	76	70	65
2200	104	100	93	86	79	74	68
2300	104	104	98	90	83	77	71
2400	104	104	102	94	87	81	75
2500	104	104	104	99	92	85	79
2600	104	104	104	104	97	90	82
2700	104	104	104	104	102	94	87
2800	104	104	104	104	104	98	91
2900	104	104	104	104	104	103	96
3000	104	104	104	104	104	104	101

 +   **3 x**  **2 x** 

W \ S	800	900	1000	1100	1200	1300	1400
2000	138	128	118	110	102	94	87
2100	144	134	124	115	106	98	91
2200	144	141	130	121	112	104	96
2300	144	144	137	127	118	109	101
2400	144	144	144	134	123	114	106
2500	144	144	144	140	130	120	111
2600	144	144	144	144	136	126	117
2700	144	144	144	144	143	132	122
2800	144	144	144	144	144	139	129
2900	144	144	144	144	144	144	135
3000	144	144	144	144	144	144	142

 +   **3 x** 

W \ S	800	900	1000	1100	1200	1300	1400
2000	173	160	148	137	127	118	109
2100	176	168	155	144	134	123	114
2200	176	176	163	151	140	130	120
2300	176	176	171	158	147	136	126
2400	176	176	176	166	154	143	132
2500	176	176	176	175	162	150	139
2600	176	176	176	176	170	158	146
2700	176	176	176	176	176	166	153
2800	176	176	176	176	176	174	161
2900	176	176	176	176	176	176	169
3000	176	176	176	176	176	176	176

 +   **4 x** 

W \ S	800	900	1000	1100	1200	1300	1400
2000	200	190	176	163	151	140	130
2100	200	199	185	171	158	146	136
2200	200	200	194	180	166	154	142
2300	200	200	200	189	174	162	150
2400	200	200	200	198	183	170	158
2500	200	200	200	200	193	178	165
2600	200	200	200	200	200	187	174
2700	200	200	200	200	200	197	182
2800	200	200	200	200	200	200	191
2900	200	200	200	200	200	200	200
3000	200	200	200	200	200	200	200

## MX HINGE / SELECTION AND LOAD



Private building



Public building



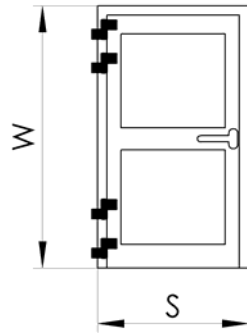
Door closer



2-Wing Hinge



3-Wing Hinge



In case of door higher than 2200mm it is required to put additional hinge in the middle to caulk the door leaf.



2 x

w \ s	800	900	1000	1100	1200	1300	1400
2000	112	112	104	96	89	82	77
2100	112	112	110	101	94	86	80
2200	112	112	112	106	98	91	84
2300	112	112	112	111	103	95	89
2400	112	112	112	112	108	100	93
2500	112	112	112	112	112	106	98
2600	112	112	112	112	112	110	102
2700	112	112	112	112	112	112	107
2800	112	112	112	112	112	112	112
2900	112	112	112	112	112	112	112
3000	112	112	112	112	112	112	112



3 x

2 x

w \ s	800	900	1000	1100	1200	1300	1400
2000	158	147	136	126	117	108	100
2100	160	154	143	132	122	114	105
2200	160	160	150	139	129	119	110
2300	160	160	158	146	135	125	116
2400	160	160	160	153	142	131	122
2500	160	160	160	160	149	138	127
2600	160	160	160	160	156	145	134
2700	160	160	160	160	160	152	141
2800	160	160	160	160	160	159	148
2900	160	160	160	160	160	160	155
3000	160	160	160	160	160	160	160



3 x

w \ s	800	900	1000	1100	1200	1300	1400
2000	184	173	160	148	137	127	118
2100	184	182	168	155	144	134	123
2200	184	184	177	163	151	140	130
2300	184	184	184	171	158	147	136
2400	184	184	184	180	166	154	143
2500	184	184	184	184	175	162	150
2600	184	184	184	184	184	170	158
2700	184	184	184	184	184	178	166
2800	184	184	184	184	184	184	174
2900	184	184	184	184	184	184	182
3000	184	184	184	184	184	184	184



4 x

w \ s	800	900	1000	1100	1200	1300	1400
2000	224	207	192	178	165	153	141
2100	224	218	202	186	173	160	148
2200	224	224	212	196	182	168	155
2300	224	224	222	206	190	177	163
2400	224	224	224	216	200	186	171
2500	224	224	224	224	210	194	180
2600	224	224	224	224	221	204	189
2700	224	224	224	224	224	214	198
2800	224	224	224	224	224	224	209
2900	224	224	224	224	224	224	219
3000	224	224	224	224	224	224	224

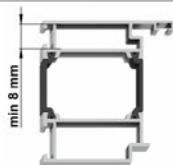
## WX, MX HINGE / MOUNTING SETS

### MOUNTING SETS FOR PROFILE WITHOUT THERMAL BARRIER



	CONTENT	GALVANISED STEEL	304 A2 STEEL		CONTENT	GALVANISED STEEL	304 A2 STEEL
	4 x positioning screw 2 x WN block	WX80SU4700	WX80SU4700 INOX		6 x positioning screw 1 x WN block 1 x WN long block	WX80SU4710	WX80SU4710 INOX
	4 x M8x25 screw 4 x positioning sleeve 2 x WN block	WX80104700	◇		6 x M8x25 screw 6 x positioning sleeve 1 x WN block 1 x WN long block	WX80104710	◇

### MOUNTING SETS FOR PROFILE WITH NARROW THERMAL BARRIER FROM HINGE SIDE (AT LEAST 8mm WIDTH)













	CONTENT	GALVANISED STEEL	304 A2 STEEL		CONTENT	GALVANISED STEEL	304 A2 STEEL
	4 x M8x25 screw 4 x positioning sleeve 2 x WKU block	WX80104900	◇		6 x M8x25 screw 6 x positioning sleeve 3 x WKU block	WX80104910	◇
	4 x positioning screw 2 x WKU block	WX80SU4900	WX80SU4900 INOX		6 x positioning screw 3 x WKU block	WX80SU4910	WX80SU4910 INOX





## WX, MX HINGE / MOUNTING SETS

### MOUNTING SETS FOR PROFILE WITH THERMAL BARRIER



	CONTENT	GALVANISED STEEL	304 A2 STEEL		CONTENT	GALVANISED STEEL	304 A2 STEEL
	4 x M8X53 screw 4 x positioning sleeve 4 x adjusting sleeve (22 – 35mm) 2 x WN block	<b>WX80104720</b>	◇		6 x M8X53 screw 6 x positioning sleeve 6 x adjusting sleeve (22 – 35mm) 1 x WN block 1 x WN long block	<b>WX80104730</b>	◇
	4 x M8X53 screw 4 x short positioning sleeve 4 x dowel sleeve TKO	<b>WX80104980</b>	◇		6 x M8X53 screw 6 x short positioning sleeve 6 x dowel sleeve TKO	<b>WX80104990</b>	◇
	4 x M8x65 screw 4 x short positioning sleeve 4 x dowel sleeve TKO fire bushing	<b>WX80105100</b>	◇		6 x M8x65 screw 6 x short positioning sleeve 6 x dowel sleeve TKO fire bushing	<b>WX80105110</b>	◇
	4 x quick-fastening screw 58,5mm	<b>WX80SD4980</b>	<b>WX80SD4980 INOX</b>		6 x quick-fastening screw 58,5mm	<b>WX80SD4990</b>	<b>WX80SD4990 INOX</b>
	4 x long quick-fastening screw 71,5mm	<b>WX80SD5100</b>	◇		6 x long quick-fastening screw 71,5mm	<b>WX80SD5110</b>	◇

## WX, MX HINGE / MOUNTING SETS


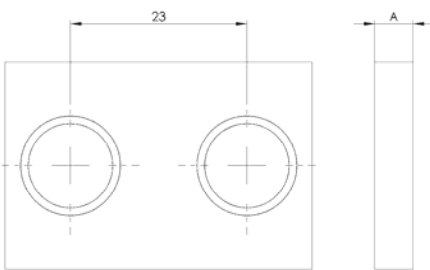
	CONTENT	GALVANISED STEEL	304 A2 STEEL		CONTENT	GALVANISED STEEL	304 A2 STEEL
	2 x M8x25 screw 2 x positioning sleeve 1 x WN block 2x quick-fastening screw 58,5mm	<b>WX80SD5220</b>	◇		4 x M8x25 screw 4 x positioning sleeve 1 x WN long block 2 x quick-fastening screw 58,5mm	<b>WX80SD5230</b>	◇
	2 x positioning screw 1 x WN block 2 x quick-fastening screw 58,5mm	<b>WX80DU5120</b>	<b>WX80DU5120 INOX</b>		4 x positioning screw 1 x WN long block 2 x quick-fastening screw 58,5mm	<b>WX80DU5130</b>	<b>WX80DU5130 INOX</b>

◇ - set unavailable in this material

### MOUNTING SETS-BIG PACK

	CONTENT	CODE		CONTENT	CODE
	positioning screw: <b>200pcs.</b> WN block: <b>100pcs.</b>	<b>WX50SU4700</b>		quick-fastening screw 58,5mm: <b>200pcs.</b>	<b>WX50SD4980</b>

### WX DISTANCE PLATE

	ELEMENT	DRAWING	THICKNESS [A]
	<b>WX PLATE</b>		Plate must be select for suitable mounting set. <b>2mm</b> <b>3mm</b> <b>5mm</b> <b>8mm</b> <b>10mm</b>



## WX, MX HINGE / PATTERNS FOR DRILLING

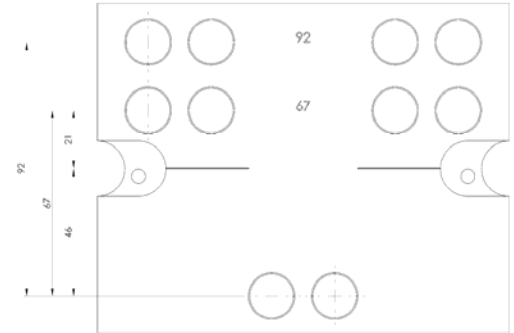
### PATTERNS FOR SURFACE HINGES

CODE

PICTURE

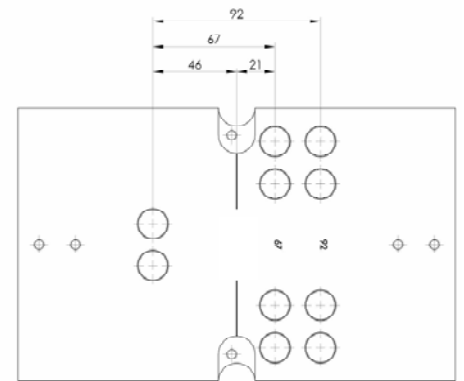
DRAWING

S1



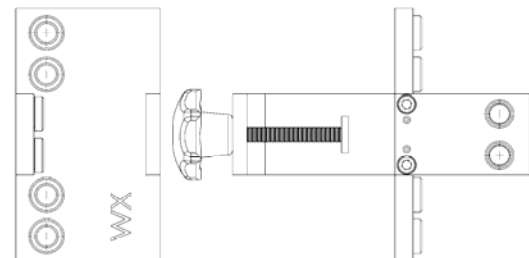
S1 Pattern for WX and MX Surface Hinge, dimension **67/92**

S2



S2 Pattern for WX and MX Surface Hinge, dimension **67/92**

S3



S3 Pattern for WX Angular Hinge

## WX ELECTRO HINGE

WX ELECTRO Hinge is intended to transfer ICT signals from door frame to the door leaf. Signal can be transferred with max. 10-core cable with a cross-section of 0.14. Thanks to this it is suitable for LAN computer networks, for supplying LED lighting or handles with e-line components, replacing commonly used cable glands.



3D control



easy & fast



max. 160kg



CE



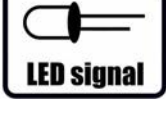
10 signal cables



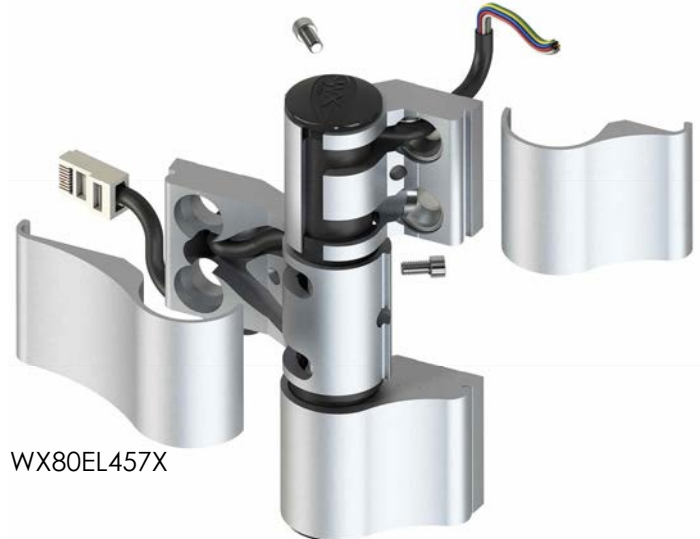
LAN signal



TECH signal



LED signal



WX80EL457X



WX80EL459X

### AVAILABLE COLOURS



INOX ANODE WHITE RAL 9016 BLACK RAL 9005 BROWN RAL 8019 BROWN RAL 8017 SILVER RAL 9006



ANODE VARNISH RAL 1036 GOLDEN OAK ANY RAL RAL 7016

### PLASTIC COVERS



WHITE BLACK

### CODE

### TYPE

WX80EL457X

WX ELECTRO ASYMMETRICAL HINGE

WX80EL459X

WX ELECTRO SYMMETRICAL HINGE

**WX ELECTRO HINGE CLASSIFICATION EN 1935:2002 + EN 1935:2002/AC:2003**  
for use in emergency exit doors

1	2	3	4	5	6	7	8
4	7	7	0	1	3	1	14

X – colour code as indicated in the list of WALA colours

## WX ELECTRO HINGE / MOUNTING SETS

### MOUNTING SETS FOR PROFILE WITHOUT THERMAL BARRIER



	CONTENT	GALVANISED STEEL	304 A2 STEEL		CONTENT	GALVANISED STEEL	304 A2 STEEL
	5 x M8x25 screw 5 x positioning sleeve 1 x WN electro block 1 x WN long block	WX80104710E	◇		5 x positioning screw 1 x WN electro block 1 x WN long block	WX80SU4710E	◇

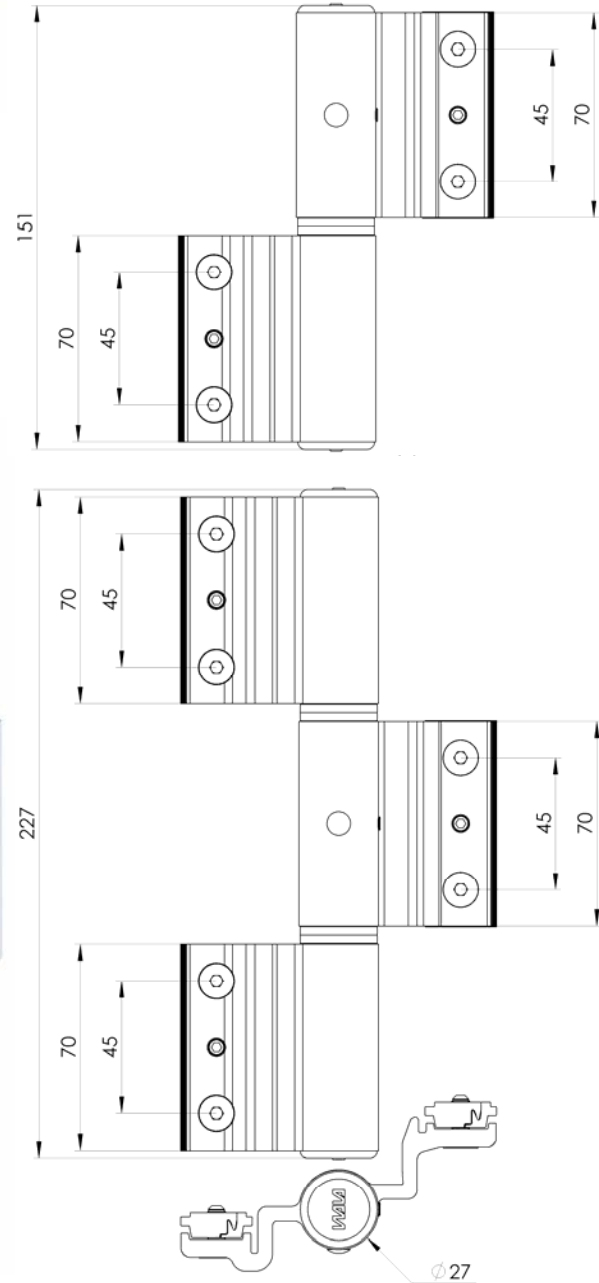
### MOUNTING SETS FOR PROFILE WITH THERMAL BARRIER



	CONTENT	GALVANISED STEEL	304 A2 STEEL		CONTENT	GALVANISED STEEL	304 A2 STEEL
	5 x quick-fastening screw 58,5mm	WX80SD4990E	WX80SD4990E INOX		5 x M8X53 screw 5 x short positioning sleeve 5 x dowel sleeve TKO	WX80104990E	◇

◇ - set unavailable in this material

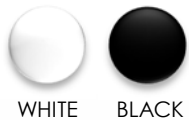
## SWW HINGE



### AVAILABLE COLOURS



### PLASTIC COVERS



### CODE

### TYPE

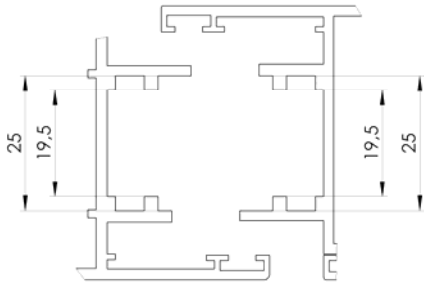
<b>8010439X-Y</b>	2 - WING SWW-Y GROOVE HINGE
<b>8010441X-Y</b>	3 - WING SWW-Y GROOVE HINGE
<b>8010439X-A</b>	2 - WING SWW ALUPROF GROOVE HINGE
<b>8010441X-A</b>	3 - WING SWW ALUPROF GROOVE HINGE
<b>8010439X-KK</b>	2 - WING SWW KAYE GROOVE HINGE
<b>8010441X-KK</b>	3 - WING SWW KAYE GROOVE HINGE

**HINGE CLASSIFICATION EN 1935:2002 + EN 1935:2002/AC:2003**  
For use in emergency exit doors

1	2	3	4	5	6	7	8
<b>4</b>	<b>7</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>13</b>

X – colour code as indicated in the list of WALA colours

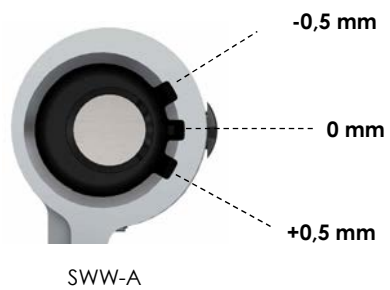
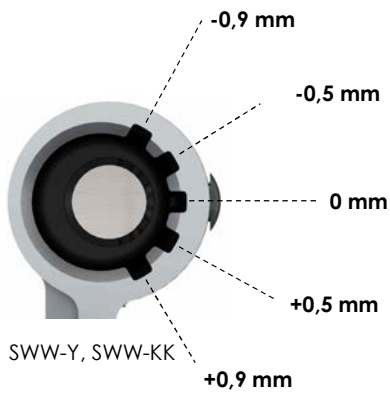
## SWW HINGE / SELECTION AND ADJUSTMENT



SWW Hinge is suitable for grooves 25/19,5 to following profiles:

SYMBOL	SYSTEM COMPANY	SYSTEMS
Y	YAWAL	PBI 50N
Y	BLYWEERT	APOLLO COLD
A	ALUPROF	MB-59S, MB-45S
KK	KAYE	PROFILTECH 50, THERMOTECH 64

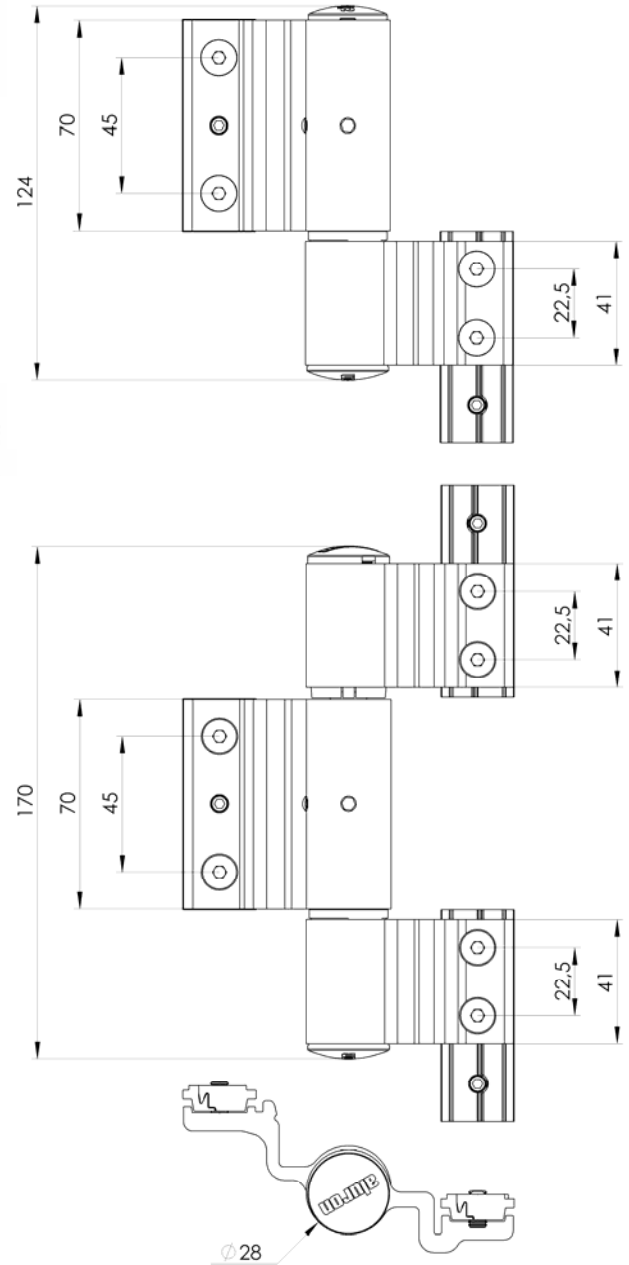
### SWW HINGE ADJUSTMENT:



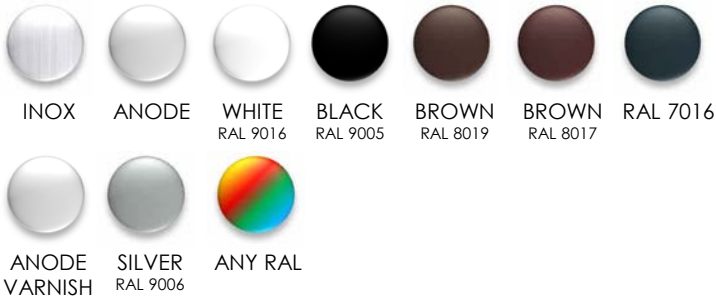
Sealing pressure adjustment



## XWW HINGE



### AVAILABLE COLOURS



### PLASTIC COVERS



### CODE

### TYPE

8010439X-L

2-WING XWW GROOVE HINGE

8010441X-L

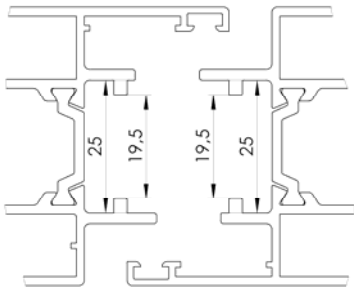
3-WING XWW GROOVE HINGE

**HINGE CLASSIFICATION EN 1935:2002 + EN 1935:2002/AC:2003**  
for use in emergency exit doors

1	2	3	4	5	6	7	8
<b>4</b>	<b>7</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>13</b>

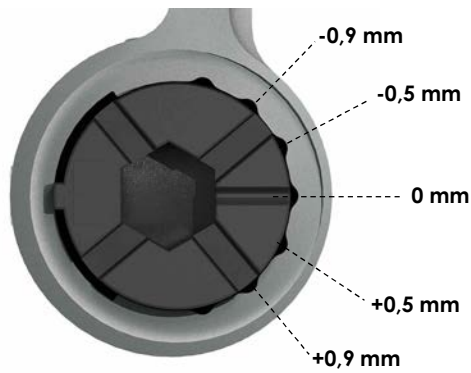
X – colour code as indicated in the list of WALA colours

## XWW HINGE / SELECTION AND ADJUSTMENT

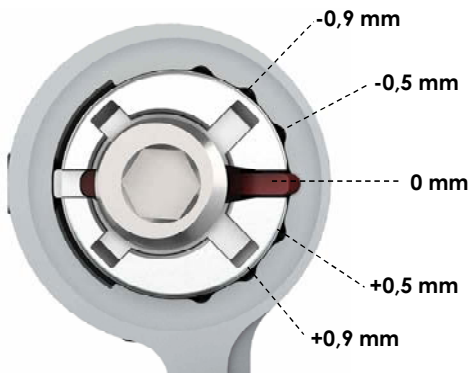


XWW Hinge is suitable for grooves 25/19,5 to Aluron systems: ACS 50 oraz AS 52

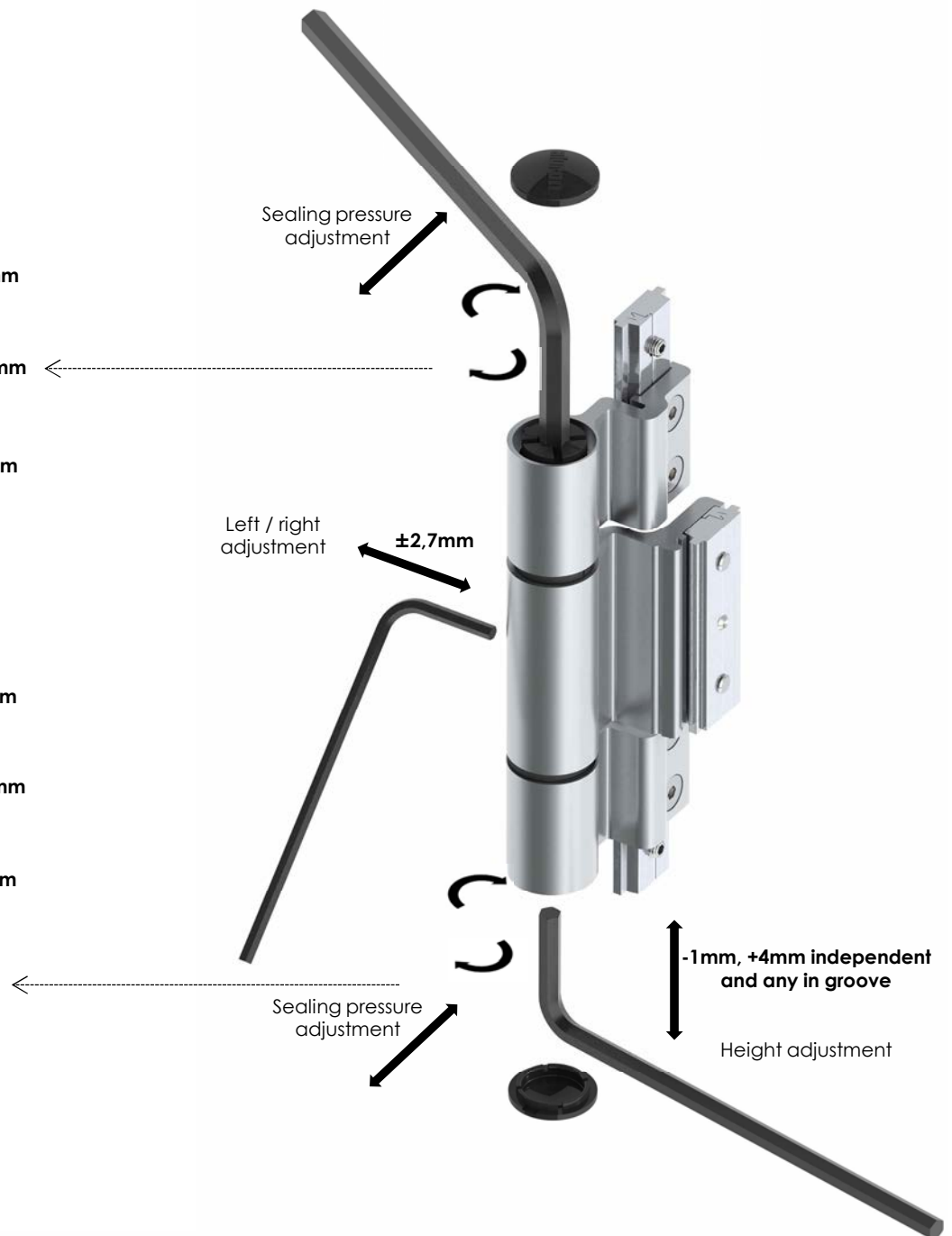
### XWW HINGE ADJUSTMENT:



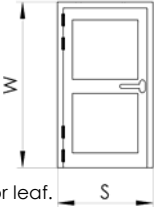
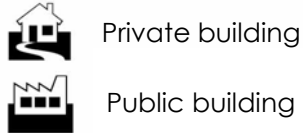
UPPER SLEEVE  
3-WINGE HINGE ONLY



LOWER SLEEVE



## SWW AND XWW HINGE / SELECTION ACCORDING TO PERMITTED LOAD



In case of door higher than 2200mm it is required to put additional hinge in the middle to caulk the door leaf.

	W \ S		800	900	1000	1100	1200
	<b>2 x</b>	2000	2100	58	54	50	46
2200	60	60	60	55	51	47	
2300	60	60	60	58	54	50	
2400	60	60	60	60	56	52	
2500	60	60	60	60	59	55	

	W \ S		800	900	1000	1100	1200
	<b>3 x</b>	2000	2100	99	92	85	79
2200	104	101	94	87	80		
2300	105	105	98	91	84		
2400	105	105	103	96	89		
2500	105	105	105	100	93		

	W \ S		800	900	1000	1100	1200
	<b>2 x</b>	2000	2100	64	59	55	51
2200	71	65	61	56	52		
2300	74	69	64	59	55		
2400	75	72	67	62	57		
2500	75	75	70	65	60		

	W \ S		800	900	1000	1100	1200
	<b>3 x</b>	2000	2100	105	97	90	83
2200	110	107	99	92	85		
2300	110	110	104	96	89		
2400	110	110	109	101	94		
2500	110	110	110	106	98		

	W \ S		800	900	1000	1100	1200
	<b>2 x</b>	2000	2100	70	65	60	56
2200	77	71	66	61	57		
2300	81	75	69	64	60		
2400	85	79	73	68	63		
2500	89	83	77	71	66		

	W \ S		800	900	1000	1100	1200
	<b>3 x</b>	2000	2100	117	108	100	93
2200	122	113	105	97	90		
2300	129	119	110	102	95		
2400	135	125	116	107	99		
2500	135	135	122	113	104		

	W \ S		800	900	1000	1100	1200
	<b>3 x</b>	2000	2100	76	70	65	60
2200	80	74	68	63	59		
2300	84	77	72	66	61		
2400	85	81	75	70	65		
2500	85	85	79	73	68		

	W \ S		800	900	1000	1100	1200
	<b>2 x</b>	2000	2100	117	108	100	93
2200	120	113	105	97	90		
2300	120	120	116	107	99		
2400	120	120	120	113	104		
2500	120	120	120	118	109		

	W \ S		800	900	1000	1100	1200
	<b>3 x</b>	2000	2100	87	81	75	69
2200	92	85	79	73	68		
2300	95	89	83	77	71		
2400	95	94	87	80	74		
2500	95	95	91	84	78		

	W \ S		800	900	1000	1100	1200
	<b>2 x</b>	2000	2100	128	119	110	102
2200	130	130	121	112	104		
2300	130	130	127	118	109		
2400	130	130	130	124	115		
2500	130	130	130	130	120		

	W \ S		800	900	1000	1100	1200
	<b>3 x</b>	2000	2100	93	86	80	74
2200	98	91	84	78	72		
2300	103	95	88	82	76		
2400	108	100	93	86	79		
2500	113	105	97	90	83		

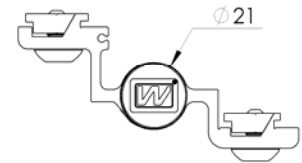
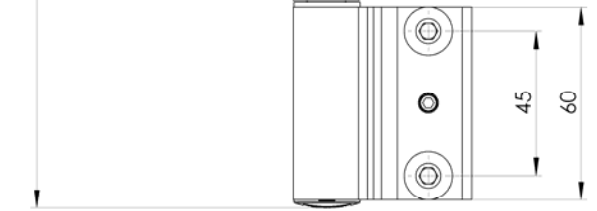
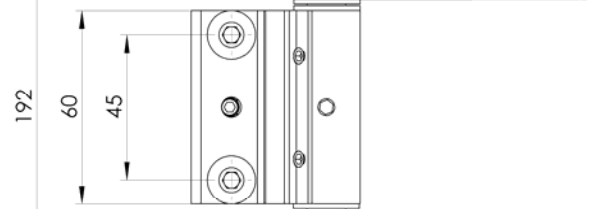
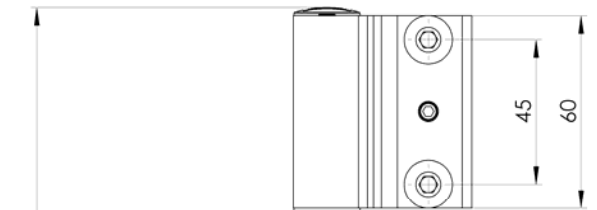
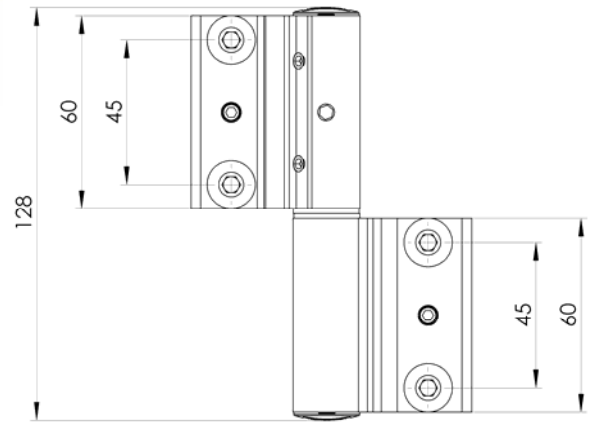
	W \ S		800	900	1000	1100	1200
	<b>2 x</b>	2000	2100	134	124	115	106
2200	141	130	121	112	104		
2300	148	137	127	117	109		
2400	150	144	133	123	114		
2500	150	150	140	129	120		

	W \ S		800	900	1000	1100	1200
	<b>4 x</b>	2000	2100	134	124	115	106
2200	141	130	121	112	104		
2300	148	137	127	117	109		
2400	150	144	133	123	114		
2500	150	150	140	129	120		



## RWE HINGE



AVAILABLE COLOURS	CODE	TYPE
	<b>RWE8010439X</b>	2-WING RWE EUROGROOVE HINGE
	<b>RWE8010441X</b>	3-WING RWE EUROGROOVE HINGE

- INOX
- ANODE
- WHITE  
RAL 9016
- BLACK  
RAL 9005
- BROWN  
RAL 8019
- BROWN  
RAL 8017
- RAL 7016

X – colour code as indicated in the list of WALA colours

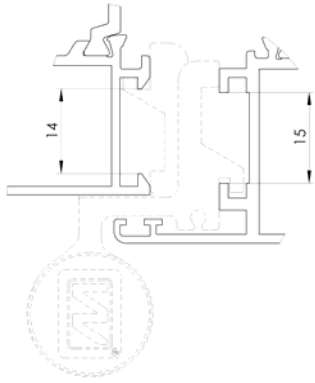
- ANODE VARNISH
- SILVER  
RAL 9006
- ANY RAL

### PLASTIC COVERS



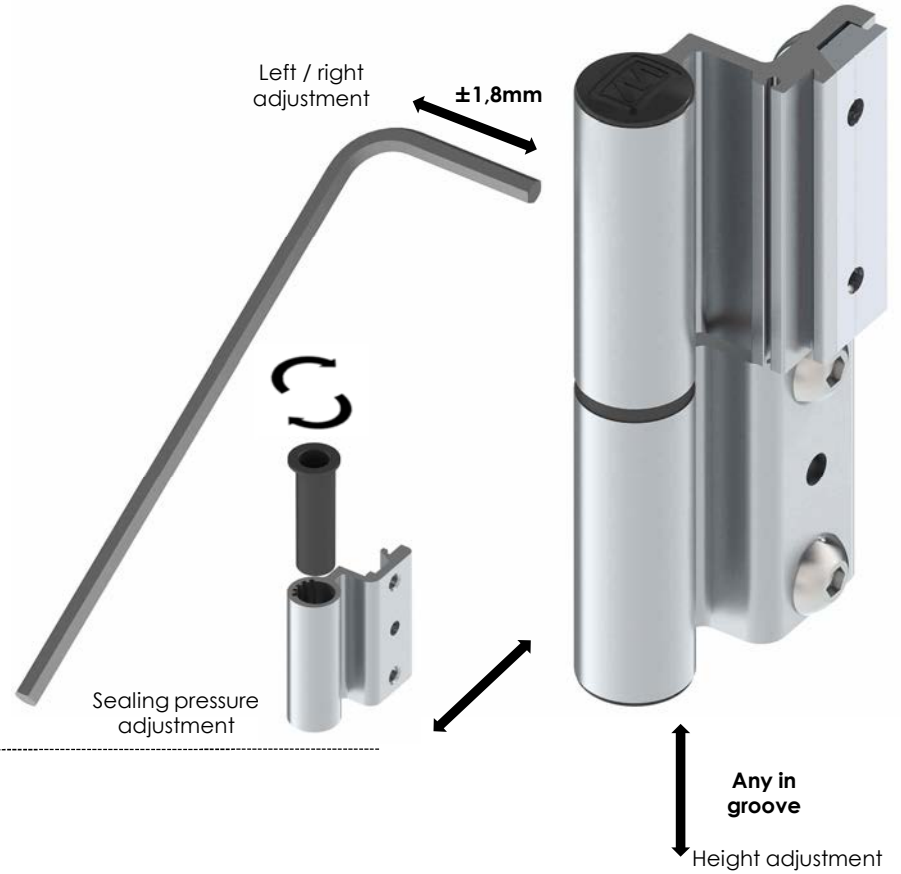
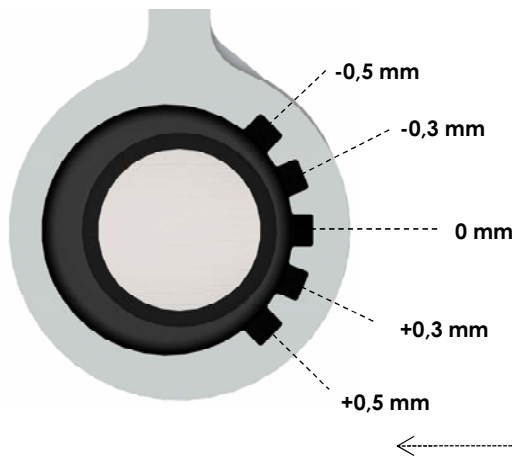
BLACK

## RWE HINGE / SELECTION AND ADJUSTMENT



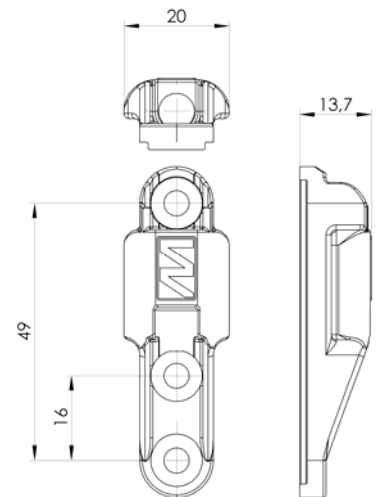
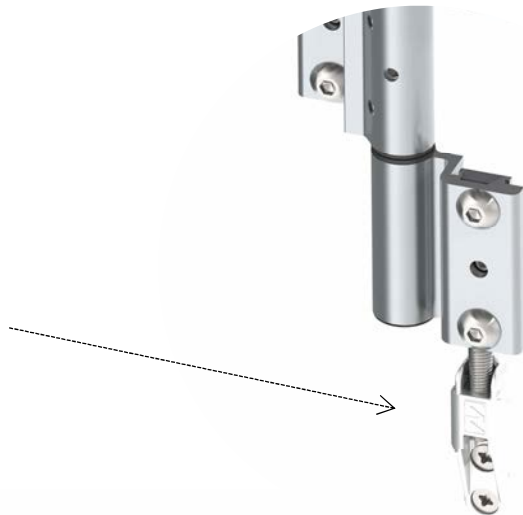
RWE Hinge is suitable for aluminium euro groove systems with door frame width 14mm and door leaf width 15mm

### RWE HINGE ADJUSTMENT:



### SUPPLEMENTARY ELEMENTS FOR RWE HINGE

CODE	TYPE
<b>WZW0000000131</b>	HEIGHT REGULATOR FOR RWE HINGE WITH M8 SCREW AND SELF-DRILLING SCREWS (sold separately)



Height regulator RWE eases the door height adjustment and protect doors against falling if the assembly screws are loosened for adjustment. Made of cast zinc alloy, screws are made of stainless steel.

## RWE HINGE / SELECTION ACCORDING TO PERMITTED LOAD

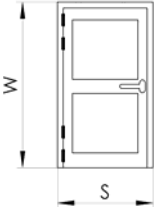
 Private building

 Door closer




 2-Wing Hinge




 3-Wing Hinge




 Public building









In case of door higher than 2200mm it is required to put additional hinge in the middle to caulk the door leaf.




 + 	W \ S	800	900	1000	1100	1200
	<b>2 x</b> 	2000	50	45	40	35
2100		55	50	45	40	35
2200		60	55	50	45	40
2300		60	60	55	50	45
2400		60	60	60	55	50
2500		60	60	60	60	55




 + 	W \ S	800	900	1000	1100	1200
	<b>3 x</b> 	2000	72	65	59	52
2100		78	72	65	59	52
2200		85	78	72	65	59
2300		85	85	78	72	65
2400		85	85	85	78	72
2500		85	85	85	85	78




 + 	W \ S	800	900	1000	1100	1200
	<b>3 x</b> 	2000	89	82	74	66
2100		97	89	82	74	66
2200		105	97	89	82	74
2300		105	105	97	89	82
2400		105	105	105	97	89
2500		105	105	105	105	97

 + 	W \ S	800	900	1000	1100	1200
	<b>4 x</b> 	2000	106	97	88	78
2100		116	106	97	88	78
2200		125	116	106	97	88
2300		125	125	116	106	97
2400		125	125	125	116	106
2500		125	125	125	125	116



 + 	W \ S	800	900	1000	1100	1200
	<b>2 x</b> 	2000	60	55	50	45
2100		65	60	55	50	45
2200		70	65	60	55	50
2300		70	70	65	60	55
2400		70	70	70	65	60
2500		70	70	70	70	65



 + 	W \ S	800	900	1000	1100	1200
	<b>3 x</b> 	2000	82	75	69	62
2100		88	82	75	69	62
2200		95	88	82	75	69
2300		95	95	88	82	75
2400		95	95	95	88	82
2500		95	95	95	95	88



 + 	W \ S	800	900	1000	1100	1200
	<b>3 x</b> 	2000	99	92	84	76
2100		107	99	92	84	76
2200		115	107	99	92	84
2300		115	115	107	99	92
2400		115	115	115	107	99
2500		115	115	115	115	107

 + 	W \ S	800	900	1000	1100	1200
	<b>4 x</b> 	2000	116	107	98	88
2100		126	116	107	98	88
2200		135	126	116	107	98
2300		135	135	126	116	107
2400		135	135	135	126	116
2500		135	135	135	135	126

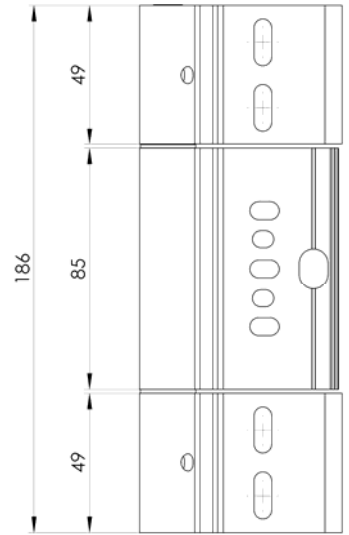
	W \ S	800	900	1000	1100	1200
	<b>2 x</b> 	2000	70	65	60	55
2100		75	70	65	60	55
2200		80	75	70	65	60
2300		80	80	75	70	65
2400		80	80	80	75	70
2500		80	80	80	80	75

	W \ S	800	900	1000	1100	1200
	<b>3 x</b> 	2000	92	85	79	72
2100		98	92	85	79	72
2200		105	98	92	85	79
2300		105	105	98	92	85
2400		105	105	105	98	92
2500		105	105	105	105	98

	W \ S	800	900	1000	1100	1200
	<b>3 x</b> 	2000	109	102	94	86
2100		117	109	102	94	86
2200		125	117	109	102	94
2300		125	125	117	109	102
2400		125	125	125	117	109
2500		125	125	125	125	117

	W \ S	800	900	1000	1100	1200
	<b>4 x</b> 	2000	131	122	113	103
2100		141	131	122	113	103
2200		150	141	131	122	113
2300		150	150	141	131	122
2400		150	150	150	141	131
2500		150	150	150	150	141

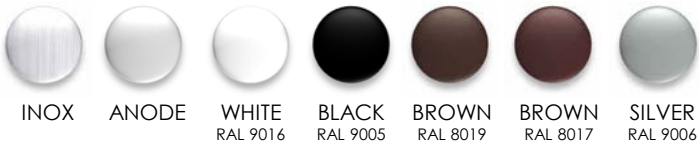
## WR ROLLER HINGE



The Hinge is also available with cover made of 304 stainless steel, that works best with anodized wings.

External dimension of the cover: Ø22mm

### AVAILABLE COLOURS



INOX ANODE WHITE RAL 9016 BLACK RAL 9005 BROWN RAL 8019 BROWN RAL 8017 SILVER RAL 9006



ANODE VARNISH RAL 1036 RAL 7016 GOLDEN OAK ANY RAL

### PLASTIC COVERS

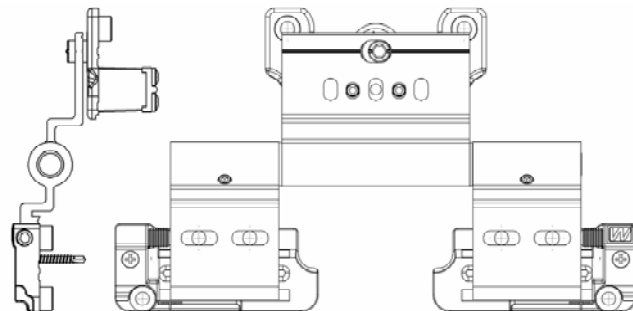


BLACK

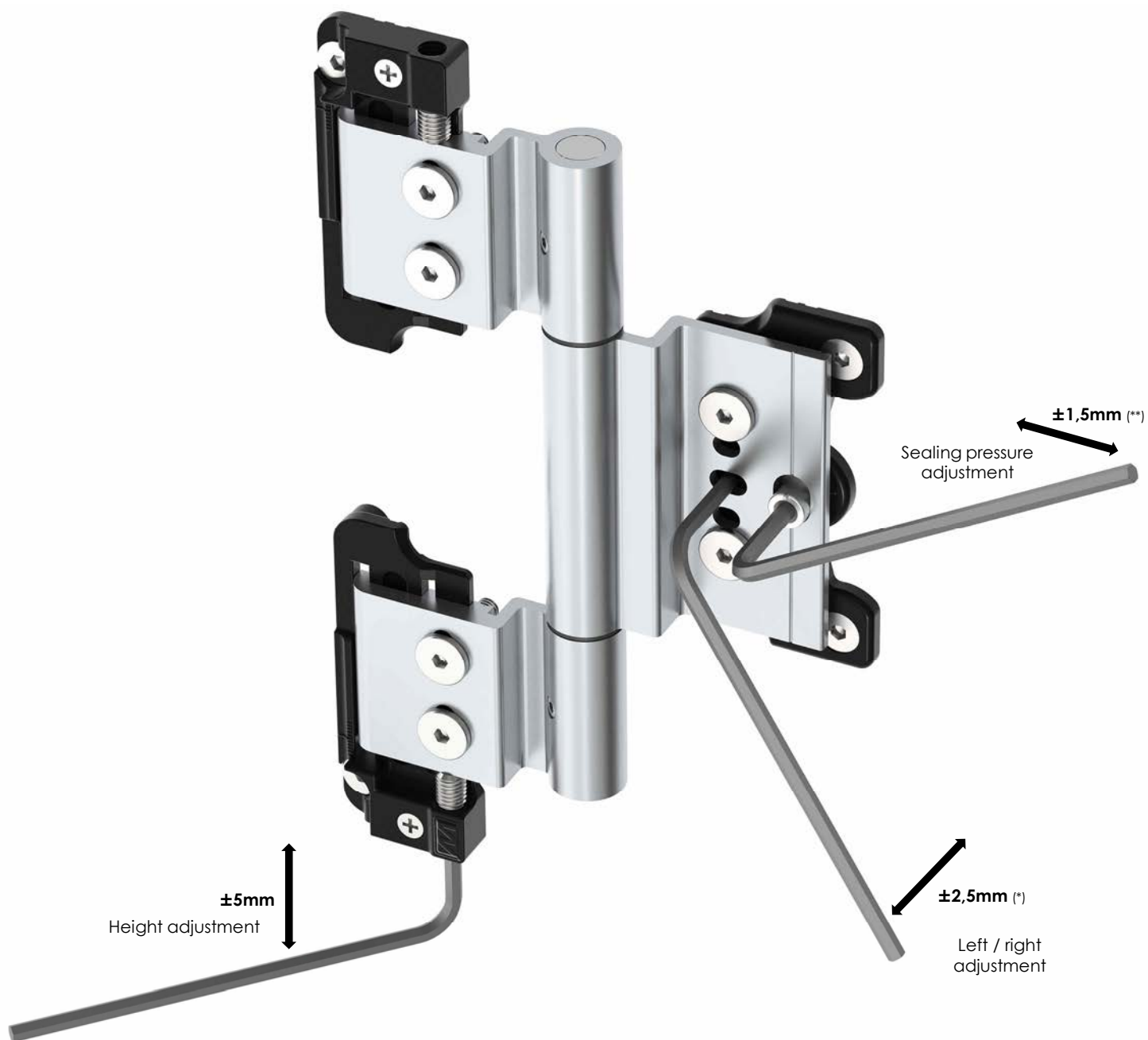
### WR ROLLER HINGE CLASSIFICATION EN 1935:2002 + EN 1935:2002/AC:2003

For use in fire door and emergency exit doors

1	2	3	4	5	6	7	8
<b>4</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>14</b>



## WR ROLLER HINGE / ADJUSTMENT



(\*) – for aluminium systems with a gap at least 6mm, for systems with the gap 5mm, adjustment range is -1,5mm to +2,5mm (because of the wing's thickness 3,5mm).

(\*\*) – real range can differ a bit because of the gap value at the seal, depending on aluminium system

## WR ROLLER HINGE / SELECTION ACCORDING TO PERMITTED LOAD



Private building

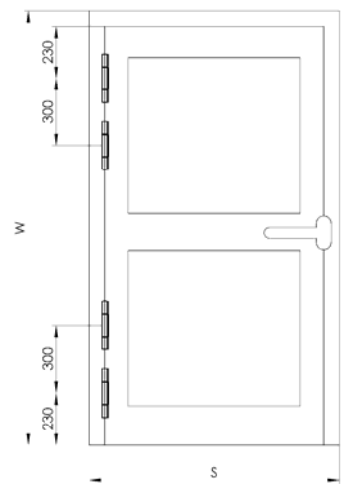
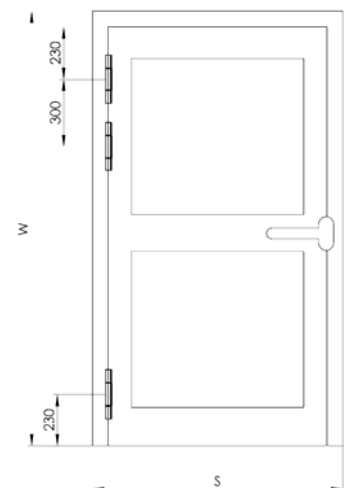
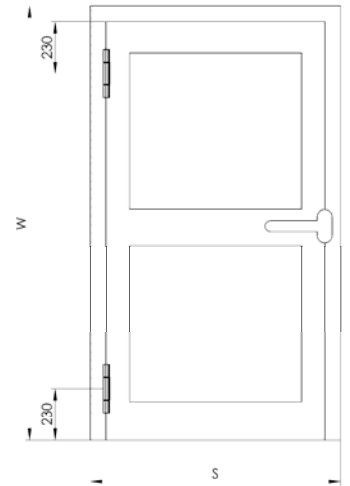


Door closer



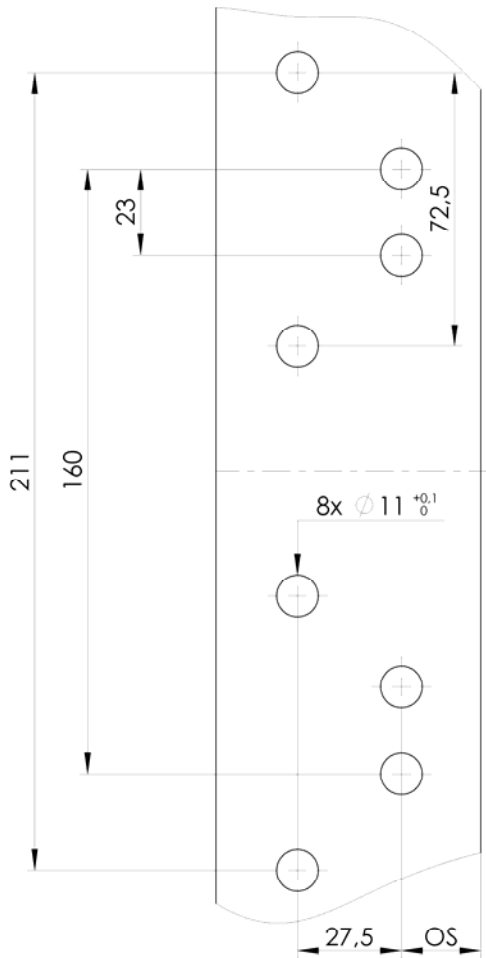
Public building

	W \ s	800	900	1000	1100	1200	1300	1400
		2 x	2000	130	130	130	120	111
	2100	130	130	130	126	117	108	100
	2200	130	130	130	130	123	114	105
	2300	130	130	130	130	129	119	111
	2400	130	130	130	130	130	125	116
	2500	130	130	130	130	130	130	122
	2600	130	130	130	130	130	130	128
	2700	130	130	130	130	130	130	130
	2800	130	130	130	130	130	130	130
	2900	130	130	130	130	130	130	130
	3000	130	130	130	130	130	130	130
	W \ s	800	900	1000	1100	1200	1300	1400
		+  3 x	2000	160	160	160	148	137
	2100	160	160	160	156	144	133	123
	2200	160	160	160	160	151	140	130
	2300	160	160	160	160	159	147	136
	2400	160	160	160	160	160	154	143
	2500	160	160	160	160	160	160	150
	2600	160	160	160	160	160	160	158
	2700	160	160	160	160	160	160	160
	2800	160	160	160	160	160	160	160
	2900	160	160	160	160	160	160	160
	3000	160	160	160	160	160	160	160
	W \ s	800	900	1000	1100	1200	1300	1400
		+  4 x	2000	210	210	210	194	180
	2100	210	210	210	204	189	175	162
	2200	210	210	210	210	198	184	170
	2300	210	210	210	210	208	193	179
	2400	210	210	210	210	210	203	188
	2500	210	210	210	210	210	210	197
	2600	210	210	210	210	210	210	207
	2700	210	210	210	210	210	210	210
	2800	210	210	210	210	210	210	210
	2900	210	210	210	210	210	210	210
	3000	210	210	210	210	210	210	210



In case of door higher than 2200mm it is required to put additional hinge in the middle to caulk the door leaf.

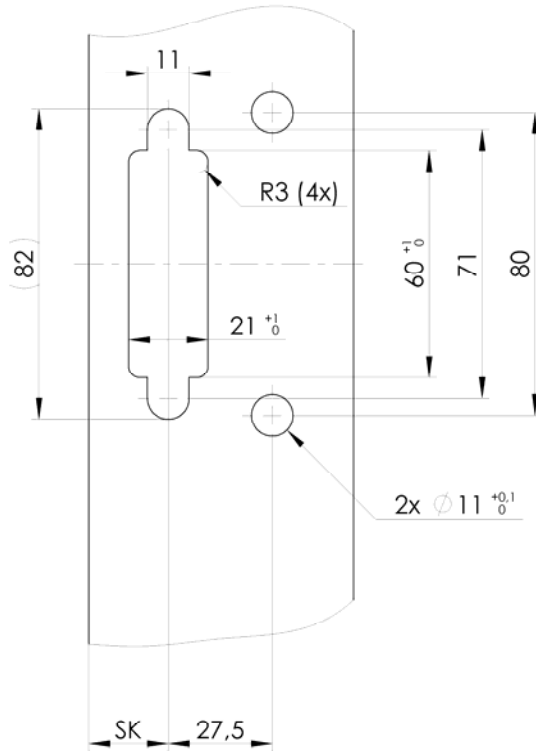
## WR ROLLER HINGE / TOOLING IN PROFILES



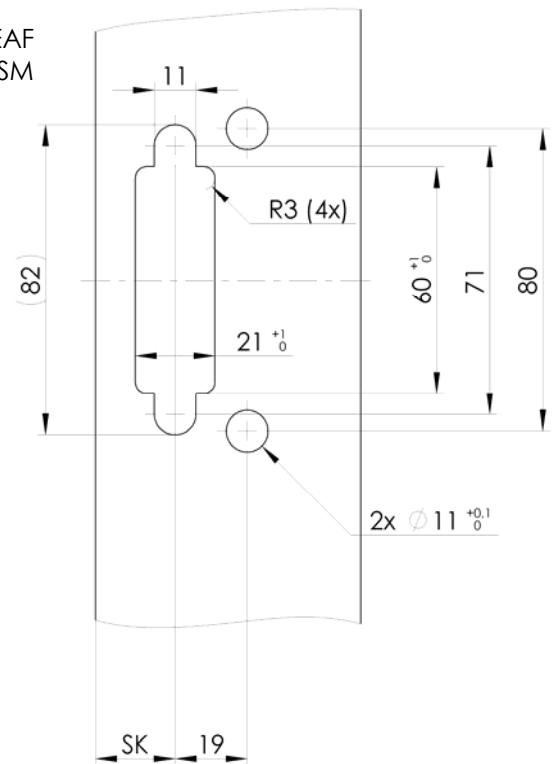
TOOLING IN DOOR FRAME

**OS**  
**SK**

– VALUE OF TOOLING DISPLACEMENT FOR DOOR FRAME  
– VALUE OF TOOLING DISPLACEMENT FOR DOOR LEAF  
(VALUES ARE DIFFERENT FOR EACH SYSTEM AND SPECIFIED TOGETHER WITH OTHER PARAMETERS OF HOLES IN TOOLING DRAWINGS)



TOOLING IN DOOR LEAF STANDARD MECHANISM



TOOLING IN DOOR LEAF SMALLER MECHANISM

## WR ALUPROF ROLLER HINGE / TYPE SELECTION

### MB86 SYSTEM

#### DOOR OPENING INWARD

(..) – „5“, „7“ or „8“

FRAME	DOOR LEAF		
	K(..)18740X	K(..)18744X K(..)18758X K(..)18759X K(..)18762X K(..)18763X	K(..)18748X
K(..)18730X	<b>WR MB86 W1</b>	<b>WR MB86 W2</b>	<b>WR MB86 W3</b>
K(..)18611X / K(..)18651X	<b>WR MB86 W4</b>	<b>WR MB86 W5</b>	<b>WR MB86 W6</b>
K(..)18612X / K(..)18652X / K(..)18670X / K(..)18671X / K(..)18672X	<b>WR MB86 W7</b>	<b>WR MB86 W8</b>	<b>WR MB86 W9</b>
K(..)18613X / K(..)18653X / K(..)18673X / K(..)18674X / K(..)18675X	<b>WR MB86 W10</b>	<b>WR MB86 W11</b>	<b>WR MB86 W12</b>
K(..)18627X	<b>WR MB86 W13</b>	<b>WR MB86 W14</b>	<b>WR MB86 W15</b>

#### DOOR OPENING OUTWARD

(..) – „5“, „7“ or „8“

FRAME	DOOR LEAF	
	K(..)18742X, K(..)18746X K(..)18760X, K(..)18761X K(..)18762X, K(..)18763X	K(..)18750X
K(..)18731X	<b>WR MB86 Z1</b>	<b>WR MB86 Z2</b>
K(..)18611X / K(..)18651X	<b>WR MB86 Z3</b>	<b>WR MB86 Z4</b>
K(..)18612X / K(..)18652X / K(..)18670X / K(..)18671X / K(..)18672X	<b>WR MB86 Z5</b>	<b>WR MB86 Z6</b>
K(..)18613X / K(..)18653X / K(..)18673X / K(..)18674X / K(..)18675X	<b>WR MB86 Z7</b>	<b>WR MB86 Z8</b>
K(..)18614X	<b>WR MB86 Z9</b>	<b>WR MB86 Z10</b>
K(..)18627X	<b>WR MB86 Z11</b>	<b>WR MB86 Z12</b>

### MB70 SYSTEM

#### DOOR OPENING INWARD

FRAME	DOOR LEAF		
	K518114X, K518355X K519286X, K519288X	K518335X, K518379X	
K518105X	<b>WR MB70 W1</b>	<b>WR MB70 W4</b>	
K415227X	K518109X / K518129X / K518426X	<b>WR MB70 W2</b>	<b>WR MB70 W5</b>
	K518102X / K518122X / K518125X	<b>WR MB70 W3</b>	<b>WR MB70 W6</b>
	K518101X / K518118X / K518460X / K518461X / K518462X / K518464X	<b>WR MB70 W7</b>	<b>WR MB70 W8</b>

#### DOOR OPENING OUTWARD

FRAME	DOOR LEAF		
	K518115X, K518356X K519287X, K519288X	K518336X, K518380X	
K518106X	<b>WR MB70 Z1</b>	<b>WR MB70 Z5</b>	
K518406X	K518109X / K518129X / K518426X	<b>WR MB70 Z2</b>	<b>WR MB70 Z6</b>
	K518102X / K518122X / K518125X	<b>WR MB70 Z3</b>	<b>WR MB70 Z7</b>
	K518101X / K518118X / K518460X / K518461X / K518462X / K518464X	<b>WR MB70 Z4</b>	<b>WR MB70 Z8</b>

### MB78EI SYSTEM

FRAME	DOOR LEAF	
	K518138X	K518395X
K518138X	<b>WR MB78EI (INDIVIDUAL ASSEMBLY)</b>	
K518395		
K518143X / K518139X	<b>WR MB78EI (DISPLAY WINDOW ASSEMBLY)</b>	





## WR ALUPROF ROLLER HINGE / TYPE SELECTION

### MB60 SYSTEM

#### DOOR OPENING INWARD

FRAME		DOOR LEAF
		K518083X
K518055X		<b>WR MB60 W1</b>
K518084X		<b>WR MB60 W1</b>
K415227X	K518052X	<b>WR MB60 W2</b>
	K518066X	<b>WR MB60 W3</b>
	K518051X	<b>WR MB60 W4</b>

#### DOOR OPENING OUTWARD

FRAME		DOOR LEAF
		K518084X
K518056X		<b>WR MB60 Z1</b>
K518083X		<b>WR MB60 Z1</b>
K415227X	K518052X / K518075	<b>WR MB60 Z2</b>
	K518066X	<b>WR MB60 Z3</b>
	K518051X	<b>WR MB60 Z4</b>
K518085X	K518070X	<b>WR MB60 Z4</b>

**WR ALIPLAST ROLLER HINGE** / TYPE SELECTION

**STAR GT SYSTEM**
**DOOR OPENING INWARD**

FRAME	DOOR LEAF	
	GT424, GT624	GT1624, GT1626
GT415	<b>WR-STAR GT-W1</b>	<b>WR-STAR GT-W1P</b>
GT425	<b>WR-STAR GT-W1</b>	<b>WR-STAR GT-W1P</b>
GT031 / GT455	<b>WR-STAR GT-W2</b>	<b>WR-STAR GT-W2P</b>
GT030 / GT455	<b>WR-STAR GT-W3</b>	<b>WR-STAR GT-W3P</b>
GT031 / GT453	<b>WR-STAR GT-W4</b>	<b>WR-STAR GT-W4P</b>
GT030 / GT453	<b>WR-STAR GT-W5</b>	<b>WR-STAR GT-W5P</b>
GT032 / GT455	<b>WR-STAR GT-W6</b>	<b>WR-STAR GT-W6P</b>
GT032 / GT453	<b>WR-STAR GT-W7</b>	<b>WR-STAR GT-W7P</b>
GT033 / GT455	<b>WR-STAR GT-W8</b>	<b>WR-STAR GT-W8P</b>
GT033 / GT453	<b>WR-STAR GT-W9</b>	<b>WR-STAR GT-W9P</b>
GT035 / GT455	<b>WR-STAR GT-W10</b>	<b>WR-STAR GT-W10P</b>
GT035 / GT453	<b>WR-STAR GT-W11</b>	<b>WR-STAR GT-W11P</b>

**DOOR OPENING OUTWARD**

FRAME	DOOR LEAF	
	GT425	GT1625, GT1627
GT414	<b>WR-STAR GT-Z1</b>	<b>WR-STAR GT-Z1P</b>
GT424	<b>WR-STAR GT-Z1</b>	<b>WR-STAR GT-Z1P</b>
GT031 / GT454	<b>WR-STAR GT-Z2</b>	<b>WR-STAR GT-Z2P</b>
GT030 / GT454	<b>WR-STAR GT-Z3</b>	<b>WR-STAR GT-Z3P</b>
GT032 / GT454	<b>WR-STAR GT-Z6</b>	<b>WR-STAR GT-Z6P</b>
GT033 / GT454	<b>WR-STAR GT-Z8</b>	<b>WR-STAR GT-Z8P</b>
GT035 / GT454	<b>WR-STAR GT-Z10</b>	<b>WR-STAR GT-Z10P</b>

**WR ALIPLAST ROLLER HINGE** / TYPE SELECTION

**SP800 SYSTEM**
**DOOR OPENING INWARD**

FRAME		DOOR LEAF	
		SP824, SP824BM	SP1824, SP1826
SP815		<b>WR-SP800-W1</b>	<b>WR-SP800-W1P</b>
SP825		<b>WR-SP800-W1F</b>	-
IP855	SP011 / SP031 / SP036 / SP136	<b>WR-SP800-W2</b>	<b>WR-SP800-W2P</b>
IP855	SP010 / SP030 / SP035	<b>WR-SP800-W3</b>	<b>WR-SP800-W3P</b>
IP855	SP012 / SP032	<b>WR-SP800-W4</b>	<b>WR-SP800-W4P</b>
IP855	SP013	<b>WR-SP800-W5</b>	<b>WR-SP800-W5P</b>

**DOOR OPENING OUTWARD**

FRAME		DOOR LEAF	
		SP825, SP825BM	
SP814		<b>WR-SP800-Z1</b>	
SP824		<b>WR-SP800-Z1F</b>	
SP854	SP011 / SP031 / SP036 / SP136	<b>WR-SP800-Z2</b>	
SP854	SP010 / SP030 / SP035	<b>WR-SP800-Z3</b>	
SP854	SP012 / SP032	<b>WR-SP800-Z4</b>	
SP854	SP013	<b>WR-SP800-Z5</b>	

**IP800 SYSTEM**
**DOOR OPENING INWARD**

FRAME		DOOR LEAF	
		IP824, IP824BM	
IP815		<b>WR-IP800-W1</b>	
IP825		<b>WR-IP800-W1F</b>	
IP855	IP011 / IP031 / IP036 / IP037 / IP136	<b>WR-IP800-W2</b>	
IP855	IP010 / IP030 / IP035	<b>WR-IP800-W3</b>	
IP855	IP012 / IP032	<b>WR-IP800-W4</b>	
IP855	IP013	<b>WR-IP800-W5</b>	

**DOOR OPENING OUTWARD**

FRAME		DOOR LEAF	
		IP825, IP825BM	
IP814		<b>WR-IP800-Z1</b>	
IP824		<b>WR-IP800-Z1F</b>	
IP854	IP011 / IP031 / IP036 / IP037 / IP136	<b>WR-IP800-Z2</b>	
IP854	IP010 / IP030 / IP035	<b>WR-IP800-Z3</b>	
IP854	IP012 / IP032	<b>WR-IP800-Z4</b>	
IP854	IP013	<b>WR-IP800-Z5</b>	

## WR YAWAL ROLLER HINGE / TYPE SELECTION

### TM62 SYSTEM

#### DOOR OPENING INWARD

FRAME		DOOR LEAF	
		04.24078 / 24.24078 04.24578 / 24.24578	04.24084 / 24.24084 04.24584 / 24.24584
04.14067 / 24.14067		<b>WR-TM62-W1</b>	<b>WR-TM62-W2</b>
04.82031	04.11077 / 24.11077 / 04.31102 / 24.31102 / 04.31802 / 24.31802 / 04.31852 / 24.31852	<b>WR-TM62-W6</b>	<b>WR-TM62-W3</b>
	04.11065 / 24.11065 / 04.31090 / 24.31090	<b>WR-TM62-W5</b>	<b>WR-TM62-W4</b>

#### DOOR OPENING OUTWARD

FRAME		DOOR LEAF	
		04.24092 / 24.24092 / 04.24592 / 24.24592 04.24098 / 24.24098 / 04.24598 / 24.24598	
04.14053 / 24.14053		<b>WR-TM62-Z1</b>	
04.82050 24.82050	04.11065 / 24.11065 / 04.31090 / 24.31090	<b>WR-TM62-Z2</b>	
	04.11077 / 24.11077 / 04.31102 / 24.31102 / 04.31802 / 24.31802 / 04.31852 / 24.31852	<b>WR-TM62-Z3</b>	

### TM74 SYSTEM

#### DOOR OPENING INWARD

FRAME		DOOR LEAF	
		08.24078 / 28.24078	08.24084 / 28.24084
08.14067 / 28.14067		<b>WR-TM74-W1</b>	<b>WR-TM74-W2</b>
04.82031	08.11077 / 08.31102	<b>WR-TM74-W3</b>	<b>WR-TM74-W4</b>
	08.11065	<b>WR-TM74-W5</b>	<b>WR-TM74-W6</b>

#### DOOR OPENING OUTWARD

FRAME		DOOR LEAF	
		08.24092 / 08.24098 / 28.24092 / 28.24098	
08.14053 / 28.14053		<b>WR-TM74-Z1</b>	
28.82050	08.11065 / 08.31090	<b>WR-TM74-Z2</b>	
	08.11077 / 08.31102 / 08.31802 / 08.31852	<b>WR-TM74-Z3</b>	

### TM77 PANDOOR SYSTEM

HINGE	TYPE
WR ROLLER HINGE TM77 PANDOOR SINGLE-SIDED OBVERSE	<b>WR-TM77-P1</b>
WR ROLLER HINGE TM77 PANDOOR DOUBLE-SIDED OBVERSE	<b>WR-TM77-P2</b>

**WR YAWAL ROLLER HINGE** / TYPE SELECTION

**SYSTEM TM77**
**DOOR OPENING INWARD**

FRAME		DOOR LEAF
		18.24078 / 18.24084 / 18.24578 / 18.24584
18.14067		<b>WR-TM77-W1</b>
18.82034	18.11065 / 18.31090	<b>WR-TM77-W2</b>
	18.11077 / 18.31102 / 18.31802 / 18.31852	<b>WR-TM77-W4</b>
18.82032	18.11065 / 18.31090	<b>WR-TM77-W3</b>
	18.11077 / 18.31102 / 18.31802 / 18.31852	<b>WR-TM77-W5</b>

**DOOR OPENING OUTWARD**

FRAME		DOOR LEAF
		18.24092 / 18.24098 / 18.24592 / 18.24598
18.14053		<b>WR-TM77-Z1</b>
18.82021	18.11065 / 18.31090	<b>WR-TM77-Z2</b>
	18.11077 / 18.31102 / 18.31802 / 18.31852	<b>WR-TM77-Z3</b>

**TM77-PANEL SYSTEM**
**DOOR OPENING INWARD**

FRAME		DOOR LEAF
		38.24554 / 38.24555
38.14067		<b>WR-TM77-PANEL-W1</b>
18.11065 / 18.31090		<b>WR-TM77-PANEL-W2</b>
18.11077 / 18.31102		<b>WR-TM77-PANEL-W3</b>

**DOOR OPENING OUTWARD**

FRAME		DOOR LEAF
		38.24568 / 38.24569
38.14053		<b>WR-TM77-PANEL-Z1</b>
38.82021	18.11065 / 18.31090	<b>WR-TM77-PANEL-Z2</b>
	18.11077 / 18.31102	<b>WR-TM77-PANEL-Z3</b>

## WR ALURON ROLLER HINGE / TYPE SELECTION

### AS75 AND AS75P SYSTEM

#### DOOR OPENING INWARD

FRAME		DOOR LEAF	
		P2404XX P2414XX P2416XX P2432XX P2434XX P2436XX	P2442XX P2452XX
P2401XX / P2411XX		<b>WR-AS75-W1</b>	<b>WR-AS75-W1P</b>
P2405XX P2407XX	P2102XX / P2202XX / P2232XX	<b>WR-AS75-W2</b>	<b>WR-AS75-W2P</b>
	P2103XX / P2203XX / P2207XX / P2208XX	<b>WR-AS75-W3</b>	<b>WR-AS75-W3P</b>
	P2106XX	<b>WR-AS75-W4</b>	<b>WR-AS75-W4P</b>

#### DOOR OPENING OUTWARD

FRAME		DOOR LEAF	
		P2403XX P2413XX P2415XX P2431XX P2433XX P2435XX	P2441XX P2451XX P2453XX
P2402XX / P2412XX		<b>WR-AS75-Z1</b>	<b>WR-AS75-Z1P</b>
P2406XX P2408XX	P2102XX / P2202XX / P2232XX	<b>WR-AS75-Z2</b>	<b>WR-AS75-Z2</b>
	P2103XX / P2203XX / P2207XX / P2208XX	<b>WR-AS75-Z3</b>	<b>WR-AS75-Z3</b>
	P2106XX	<b>WR-AS75-Z4</b>	<b>WR-AS75-Z4P</b>

**WR BLYWEERT ROLLER HINGE** / TYPE SELECTION

<b>OLYMPIA SYSTEM</b>		
<b>DOOR OPENING INWARD</b>		
<b>FRAME</b>		<b>DOOR LEAF</b>
		P-09-B224
P-09-B124		<b>WR-OLYMPIA-W1</b>
<b>DOOR OPENING OUTWARD</b>		
<b>FRAME</b>		<b>DOOR LEAF</b>
		P-09-B225
P-09-B125		<b>WR-OLYMPIA-Z1</b>
P-09-B426	P-09-A100 / P-09-A300	<b>WR-OLYMPIA-Z2</b>
	P-09-A102 / P-09-A302	<b>WR-OLYMPIA-Z3</b>

<b>TRITON SYSTEM</b>		
<b>DOOR OPENING INWARD</b>		
<b>FRAME</b>		<b>DOOR LEAF</b>
		P-03-B224R2 / P-03-224R2
P-03-124R2		<b>WR-TRITON-W1</b>
<b>DOOR OPENING OUTWARD</b>		
<b>FRAME</b>		<b>DOOR LEAF</b>
		P-03-B225R2 / P-03-225R2
P-03-125R2		<b>WR-TRITON-Z1</b>
P-03-426R2	P-03-A101	<b>WR-TRITON-Z2</b>
	P-03-A104	<b>WR-TRITON-Z3</b>
	P-03-A100	<b>WR-TRITON-Z4</b>

<b>HERCULES SYSTEM</b>		
<b>DOOR OPENING INWARD</b>		
<b>FRAME</b>		<b>DOOR LEAF</b>
		P-02-B224R2 / P-03-224R2
P-02-124R2		<b>WR-HERCULES-W1</b>
<b>DOOR OPENING OUTWARD</b>		
<b>FRAME</b>		<b>DOOR LEAF</b>
		P-02-B225R2 / P-03-224R2
P-02-125R2		<b>WR-HERCULES-Z1</b>

## WR PONZIO ROLLER HINGE / TYPE SELECTION

### PE68 SYSTEM

#### DOOR OPENING INWARD

FRAME	DOOR LEAF	
		6764 / 6764B / 6764P / 6764PB / 6764C
6762 / 6765 / 6765C	<b>WR-PE68-W1</b>	<b>WR-PE68-W2</b>

#### DOOR OPENING OUTWARD

FRAME	DOOR LEAF	
		6765 / 6765B / 6765P / 6765PB / 6765C
6762Z / 6764 / 6764C	<b>WR-PE68-Z1</b>	<b>WR-PE68-Z2</b>

### PE78N SYSTEM

#### DOOR OPENING INWARD

FRAME	DOOR LEAF	
		7864 / 7864B / 7864P / 7864PB
7862 / 7865	<b>WR-PE78N-W1</b>	<b>WR-PE78N-W2</b>

#### DOOR OPENING OUTWARD

FRAME	DOOR LEAF	
		7865 / 7865B / 7865P / 7865PB
7862Z / 7864	<b>WR-PE78N-Z1</b>	<b>WR-PE78N-Z2</b>

## WR KAYE TT74 ROLLER HINGE / TYPE SELECTION

### KBS TT74 SYSTEM

#### DOOR OPENING INWARD

DOOR FRAME	DOOR LEAF
	G42090
G32068	<b>WR-TT74-W1</b>

#### DOOR OPENING OUTWARD

DOOR FRAME	DOOR LEAF
	G41090
G31068	<b>WR-TT74-Z1</b>



**WR ALUMIL ROLLER HINGE** / TYPE SELECTION

**M11000 SYSTEM**
**DOOR OPENING INWARD**
**FRAME**
**DOOR LEAF**

11086

11082

**WR-M11000-W1**
**DOOR OPENING OUTWARD**
**FRAME**
**DOOR LEAF**

11088

11084

**WR-M11000-Z1**
**M11500 SYSTEM**
**DOOR OPENING INWARD**
**FRAME**
**DOOR LEAF**

11586

11582

**WR-M11500-W1**
**DOOR OPENING OUTWARD**
**FRAME**
**DOOR LEAF**

11588

11584

**WR-M11500-Z1**
**WR REYNAERS CS77 ROLLER HINGE** / TYPE SELECTION

**CS77 SYSTEM**
**DOOR OPENING INWARD**
**FRAME**
**DOOR LEAF**

0080598

0082026

**WR-CS77-W1**

0083183

**WR-CS77-W2**
**DOOR OPENING OUTWARD**
**FRAME**
**DOOR LEAF**

0080469

0082014

**WR-CS77-Z1**
**WR ALUFLAM 70 ROLLER HINGE** / TYPE SELECTION

**ALUFLAM 70 SYSTEM**
**DOOR OPENING INWARD / OUTWARD**
**FRAME**
**DOOR LEAF**

AF70P02f

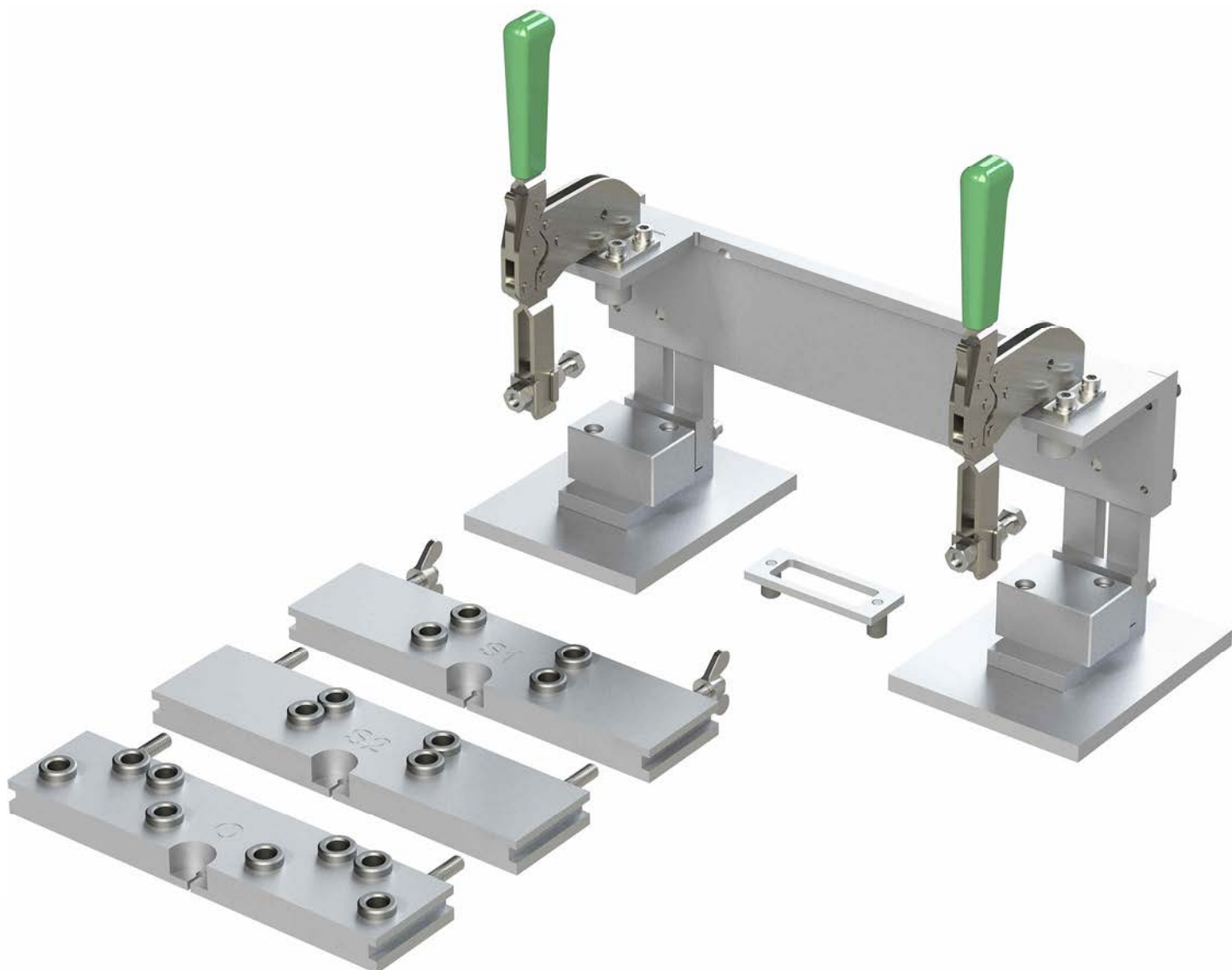
AF70P05f / AF70P04f

**WR-ALUFLAM70**

## WR ROLLER HINGE / PATTERN FOR MANUAL DRILLING IN PROFILES

CODE	DESCRIPTION
WS0000000012	WR ROLLER HINGE PATTERN (WITHOUT DISTANCES)
WS0000000027	WR ROLLER HINGE PATTERN FOR ALUPROF SYSTEMS: MB86, MB78EI, MB70, MB60

DISTANCE SET		
DESCRIPTION	CODE	ALUMINIUM SYSTEM
PATTERN DISTANCE SET FOR WR ROLLER HINGE	WS0000000022	ALUMIL M11000 AND M11500
	WS0000000017	ALURON: AS75 AND AS75P
	WS0000000015	BLYWEERT: OLYMPIA, TRITON, HERCULES
	WS0000000014	ALUPROF: MB60, MB70, MB78EI, MB86
	WS0000000016	ALIPLAST: STAR GT, SP800, IP800
	WS0000000013	YAWAL: TM62, TM74, TM77, TM77-PANEL, TM77-PANDOOOR
	WS0000000023	PONZIO: PE68 AND PE78N
	WS0000000019	ALL SYSTEMS



## WU CONCEALED HINGE

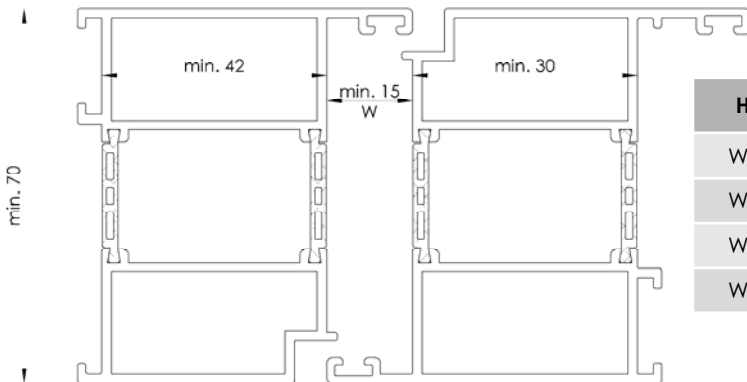


MOUNTING SET FOR  
LEAF PROFILE  
S(..)



MOUNTING SET FOR  
FRAME PROFILE  
O(..)

### REQUIREMENTS FOR CONCEALED HINGE:

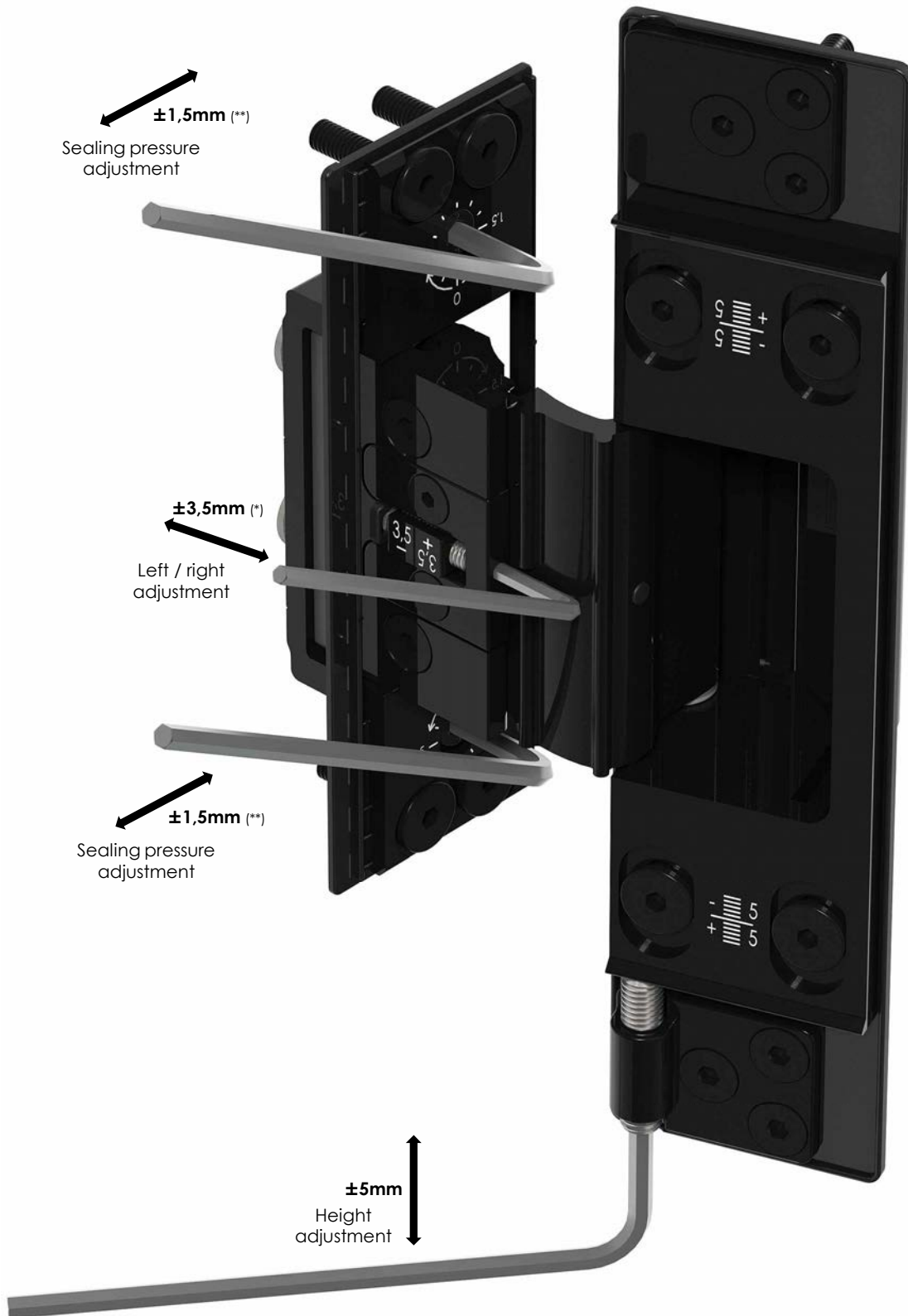


HINGE	DIM „W”
WU15(..)	15
WU16(..)	16
WU17(..)	17
WU18(..)	18

AVAILABLE COLOURS	CODE	TYPE					
BLACK ANODE (STANDARD)	<b>WU15O(..)S(..)X</b>	CONCEALED HINGE FOR ALUMINIUM SYSTEMS WITH 15 mm GAP BETWEEN PROFILES					
SILVER ANODE	<b>WU16O(..)S(..)X</b>	CONCEALED HINGE FOR ALUMINIUM SYSTEMS WITH 16 mm GAP BETWEEN PROFILES					
INOX	<b>WU17O(..)S(..)X</b>	CONCEALED HINGE FOR ALUMINIUM SYSTEMS WITH 17 mm GAP BETWEEN PROFILES					
	<b>WU18O(..)S(..)X</b>	CONCEALED HINGE FOR ALUMINIUM SYSTEMS WITH 18 mm GAP BETWEEN PROFILES					
<b>HINGE CLASSIFICATION EN 1935:2002 + EN 1935:2002/AC:2003</b> for use in emergency exit doors							
1	2	3	4	5	6	7	8
<b>4</b>	<b>7</b>	<b>7</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>14</b>

X – colour code as indicated in the list of WALA colours

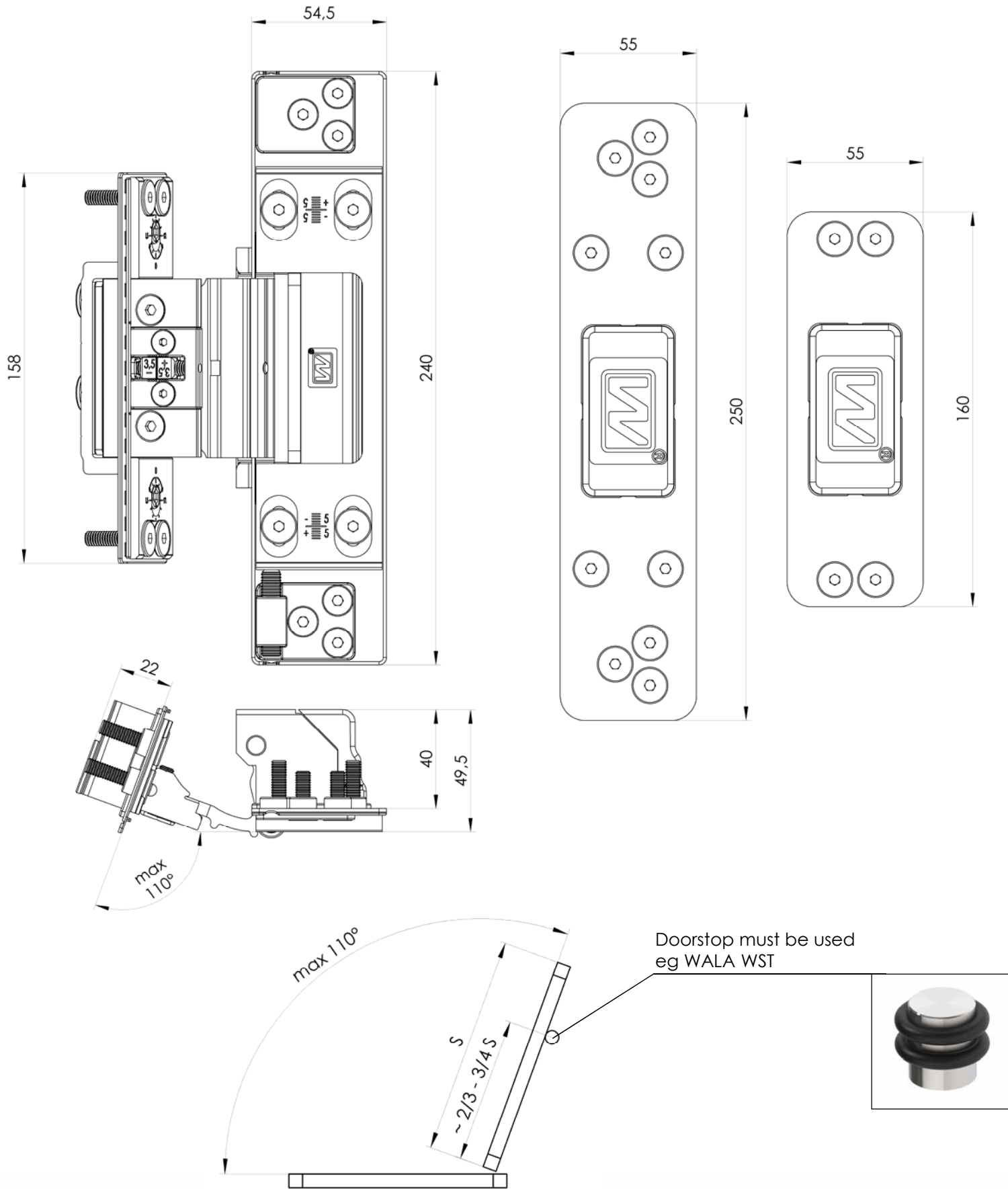
## WU CONCEALED HINGE / ADJUSTMENT



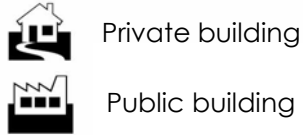
(\*) – adjustment on negative direction can be very limited depending on the aluminum system.

(\*\*) – real range can differ a bit because of the gap value at the seal, depending on aluminium system

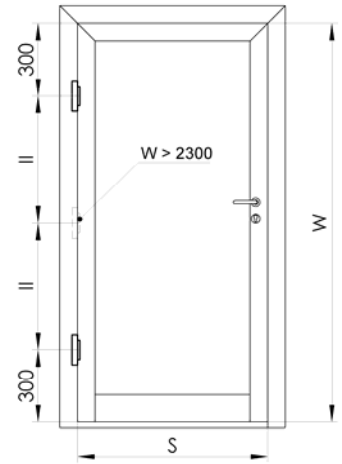
## WU CONCEALED HINGE / DIMENSIONS



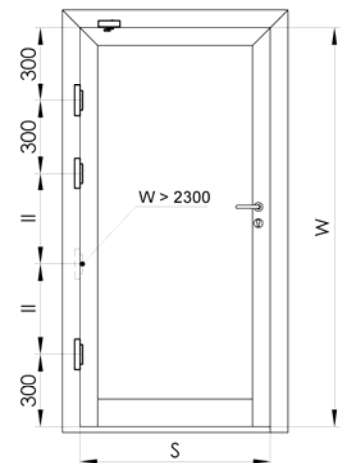
## WU CONCEALED HINGE / SELECTION ACCORDING TO PERMITTED LOAD



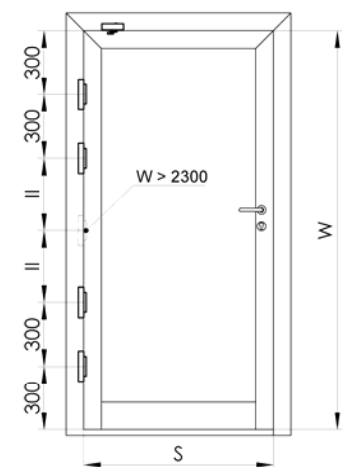
W	s	700	800	900	1000	1100	1200	1300	1400
		2000	150	150	150	140	130	120	110
2100	150	150	150	150	140	130	120	110	
2200	150	150	150	150	150	140	130	120	
2300	150	150	150	150	150	150	140	130	
2400	150	150	150	150	150	150	140	130	
2500	150	150	150	150	150	150	150	140	
2600	150	150	150	150	150	150	150	150	
2700	150	150	150	150	150	150	150	150	
2800	150	150	150	150	150	150	150	150	
2900	150	150	150	150	150	150	150	150	
3000	150	150	150	150	150	150	150	150	



W	s	700	800	900	1000	1100	1200	1300	1400
		2000	180	180	180	170	160	150	140
2100	180	180	180	180	170	160	150	140	
2200	180	180	180	180	180	170	160	150	
2300	180	180	180	180	180	170	160	150	
2400	180	180	180	180	180	180	170	160	
2500	180	180	180	180	180	180	180	170	
2600	180	180	180	180	180	180	180	180	
2700	180	180	180	180	180	180	180	180	
2800	180	180	180	180	180	180	180	180	
2900	180	180	180	180	180	180	180	180	
3000	180	180	180	180	180	180	180	180	

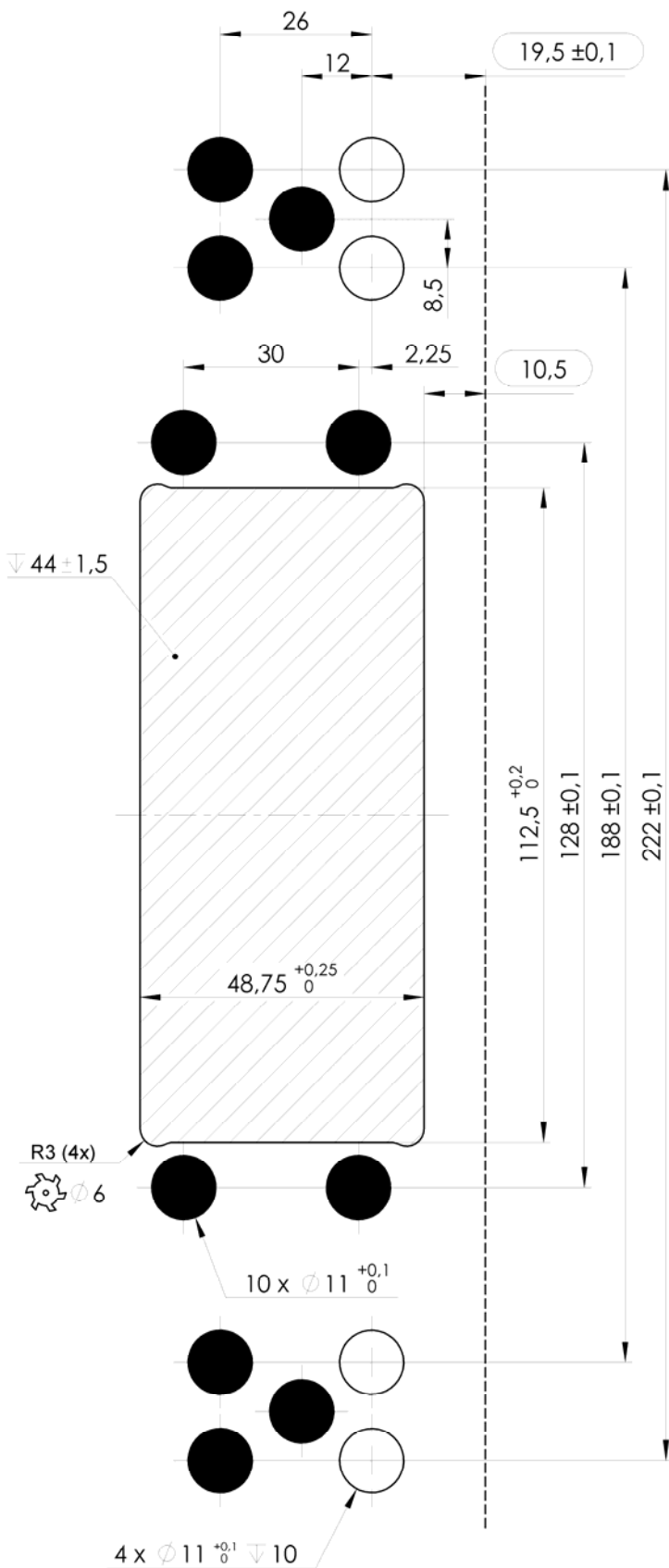


W	s	700	800	900	1000	1100	1200	1300	1400
		2000	210	210	210	200	190	180	170
2100	210	210	210	210	200	190	180	170	
2200	210	210	210	210	210	200	190	150	
2300	210	210	210	210	210	200	190	150	
2400	210	210	210	210	210	210	200	190	
2500	210	210	210	210	210	210	210	200	
2600	210	210	210	210	210	210	210	210	
2700	210	210	210	210	210	210	210	210	
2800	210	210	210	210	210	210	210	210	
2900	210	210	210	210	210	210	210	210	
3000	210	210	210	210	210	210	210	210	

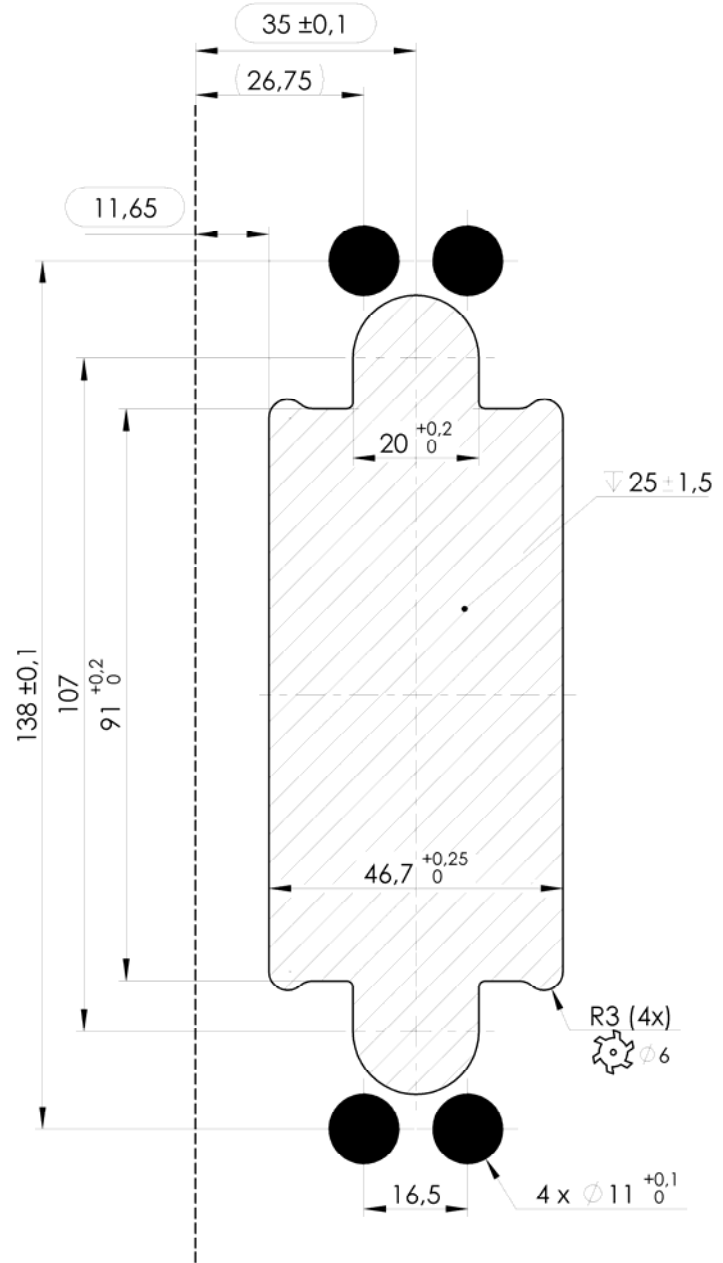


In case of door higher than 2300mm it is required to put additional hinge in the middle to caulk the door leaf.

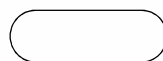
## WU CONCEALED HINGE / GENERAL TOOLING IN ALUMINIUM PROFILES



**FRAME PROFILE PROCESSING**

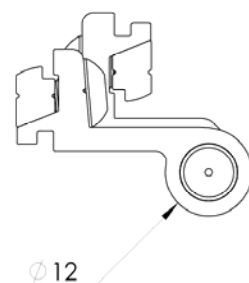
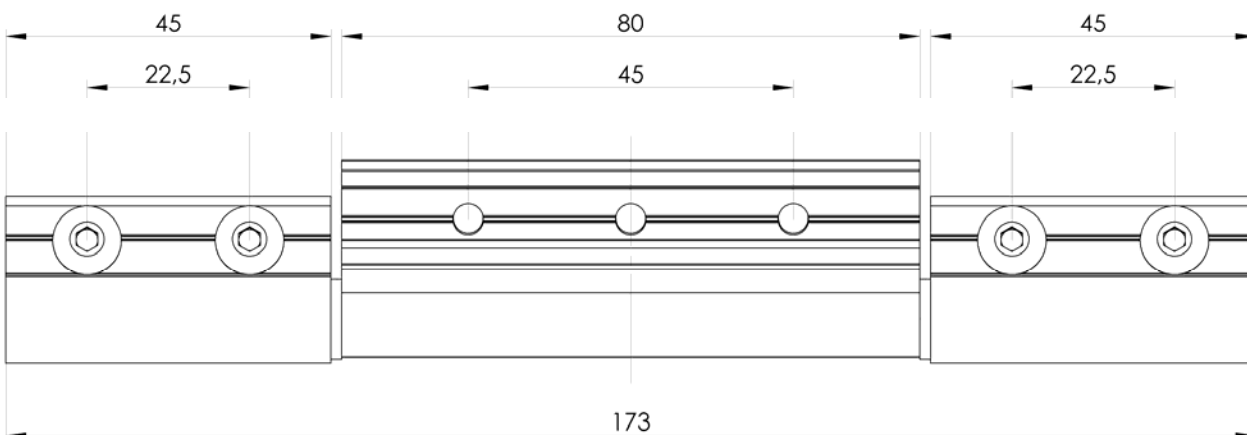


**LEAF PROFILE PROCESSING**



— Machining values may be different for specific aluminium systems depending on the geometry of the profiles.

**WP1 ROOF WINDOW HINGE**



AVAILABLE COLOURS	INDEX	CODE	TYPE
	WZP0000000002	WP001-1	WP1 ROOF WINDOW HINGE ANODE



SILVER

**PLASTICS**

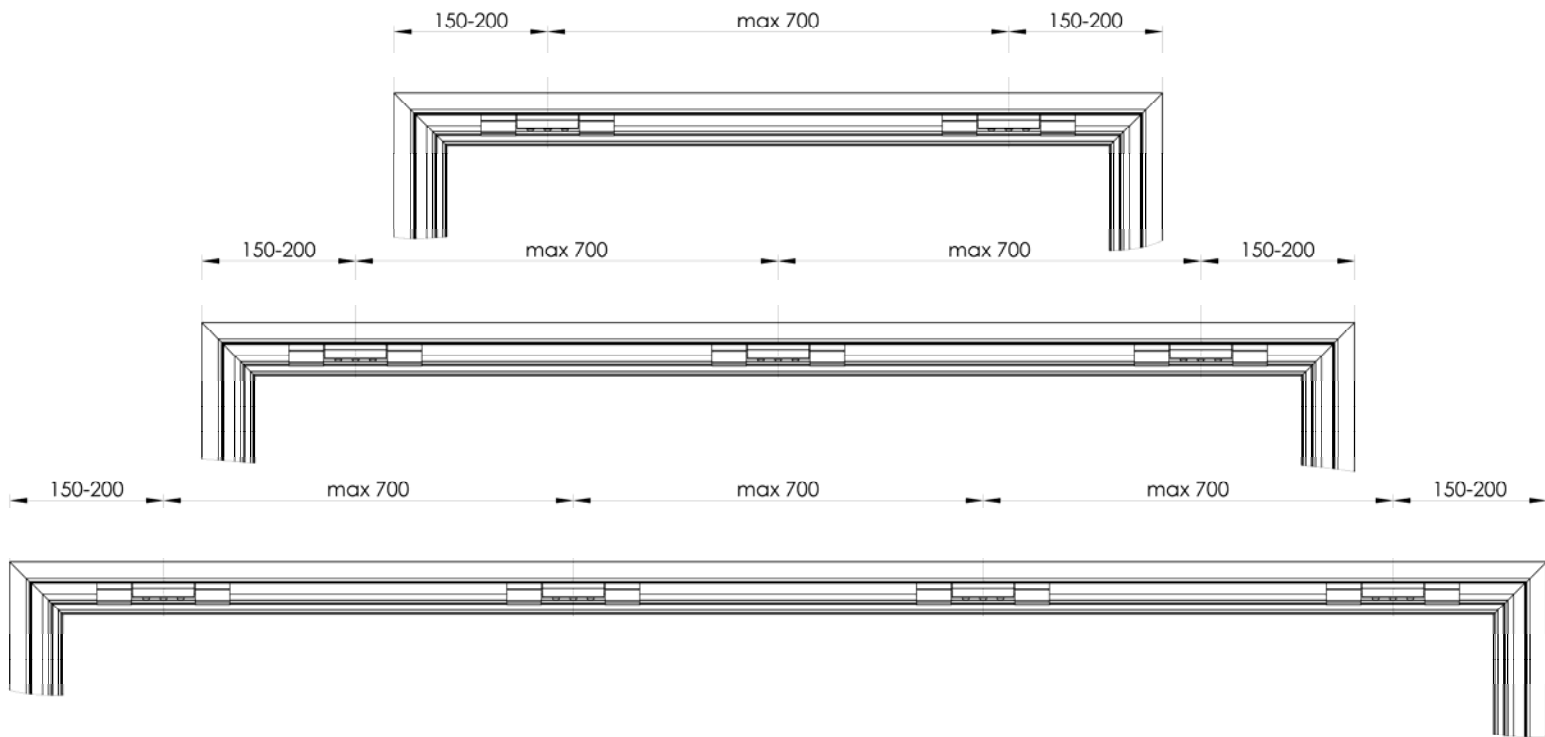


BLACK

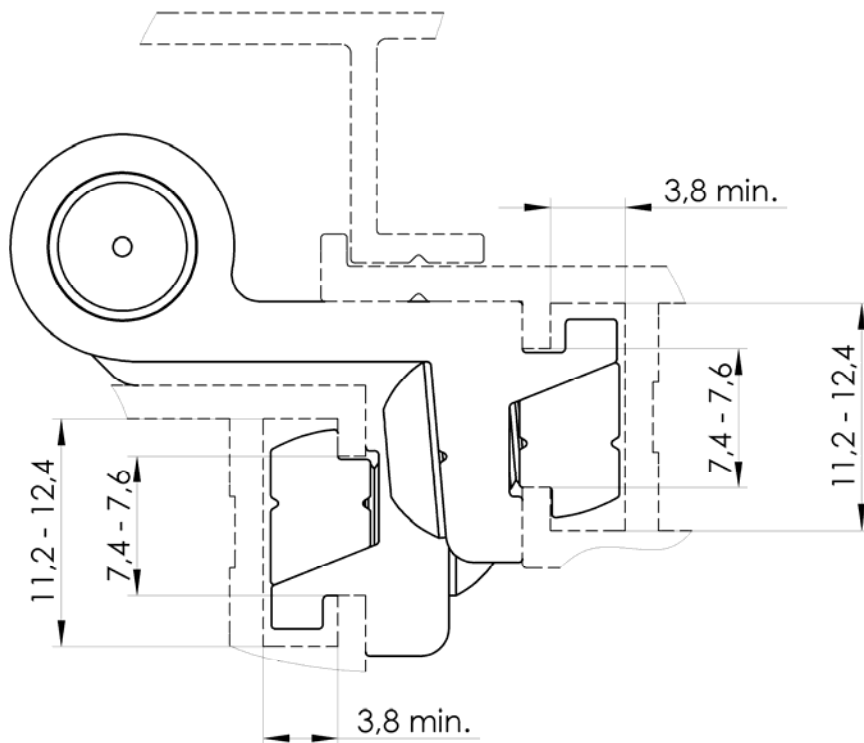


## WP1 ROOF WINDOW HINGE / SELECTION AND LOAD

QTY. OF HINGES	MAX LOAD (with snow)
2	140kg
3	210kg
4	260kg

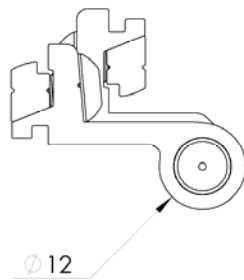
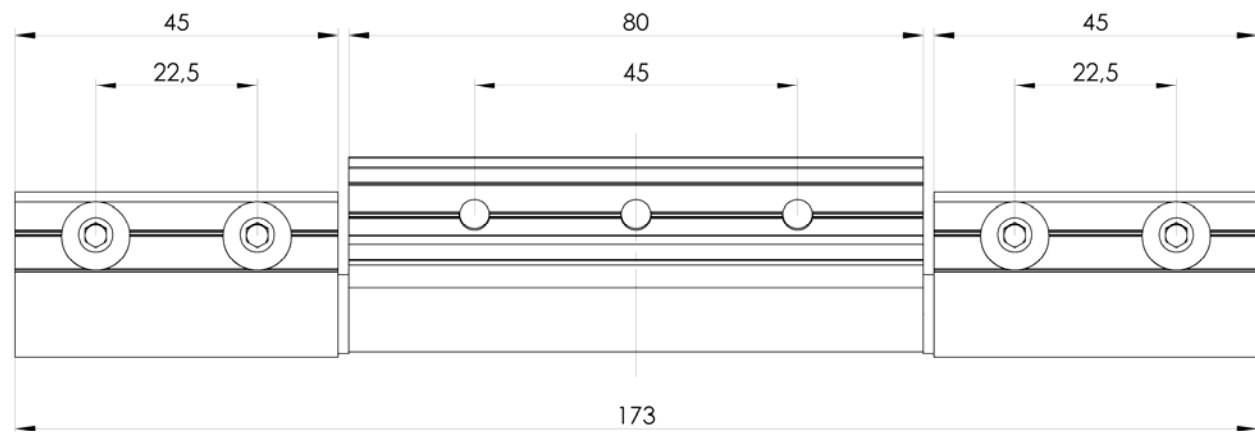


WP1 Roof Window Hinge should match to the following groove ranges:



It is recommended to send DWG profiles to our sales department in order to check the possibility of using WP1 Hinge.

## WP2 ROOF WINDOW HINGE / MB-50TT SYSTEM



AVAILABLE COLOURS	INDEKS	CODE	TYPE
	WZP0000000004	WP002-1	WP2 ROOF WINDOW HINGE ANODE



ANODE

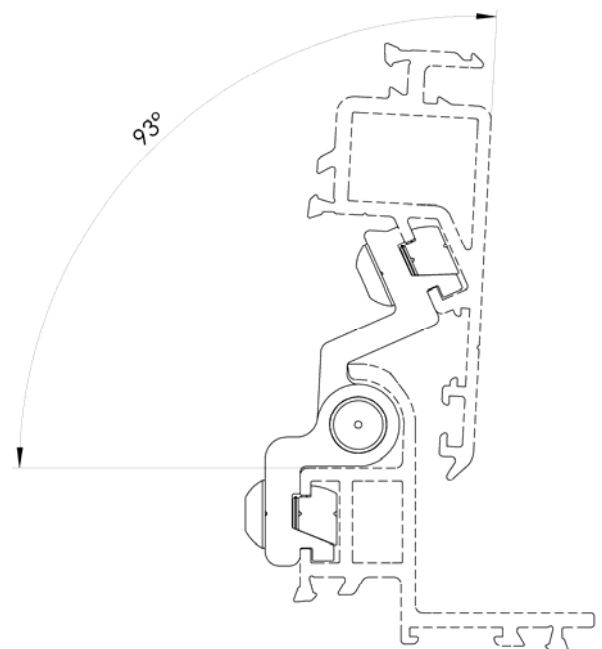
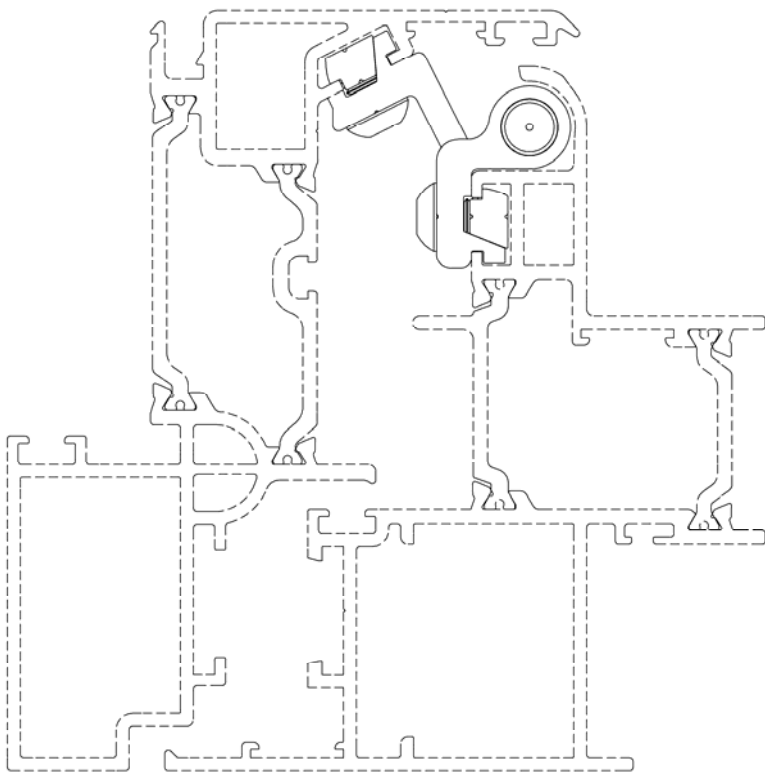
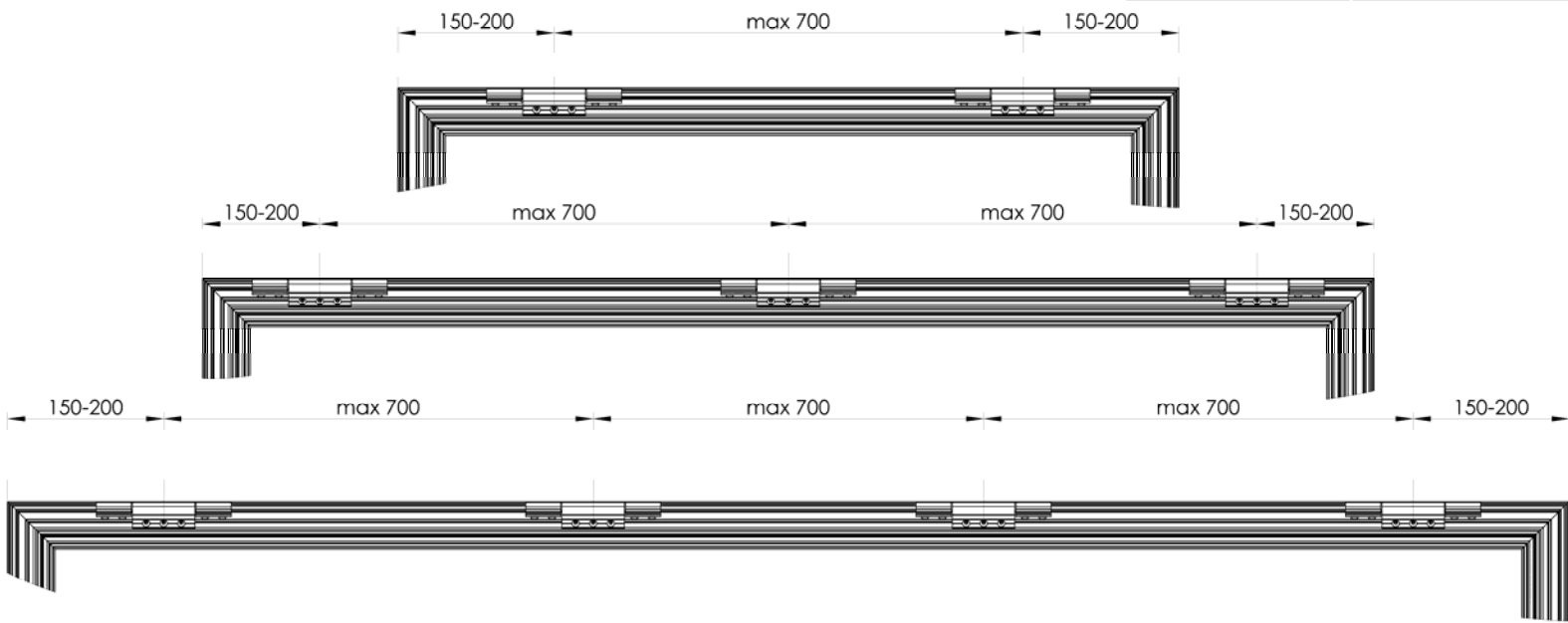
### PLASTICS



BLACK

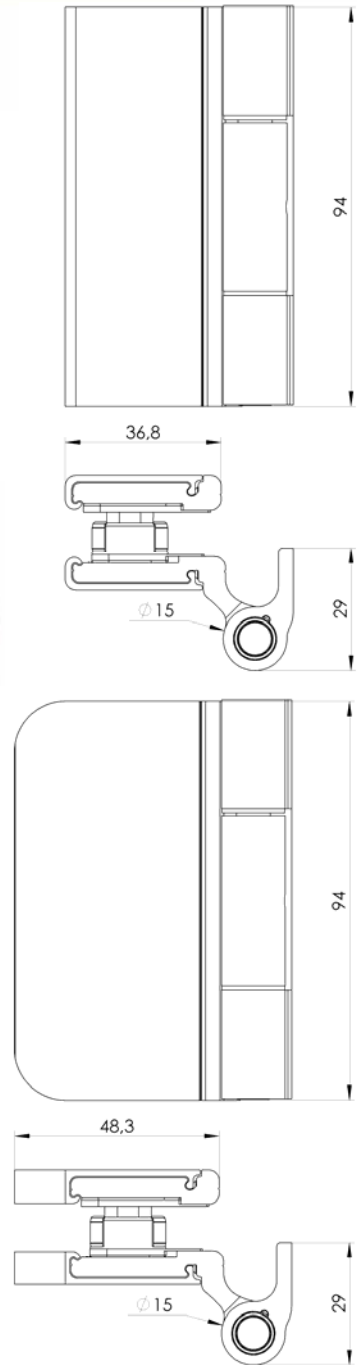
## WP2 ROOF WINDOW HINGE / SELECTION AND LOAD

QTY. OF HINGES	MAX LOAD (with snow)
2	160kg
3	240kg
4	300kg



MAXIMUM OPENING ANGLE

## WT GLASS SHEET HINGE



AVAILABLE COLOURS				CODE	TYPE		
				<b>WTA 8010441X</b>	WT GLASS SHEET HINGE WITH THIN MASK		
				<b>WTB 8010441X</b>	WT GLASS SHEET HINGE WITH ROUNDED, THICK MASK		
<b>WT Hinge classification EN 1935:2002 + EN 1935:2002/AC:2003</b> For use in emergency exit doors							
1	2	3	4	5	6	7	8
<b>4</b>	<b>7</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>12</b>

X – colour code as indicated in the list of WALA colours

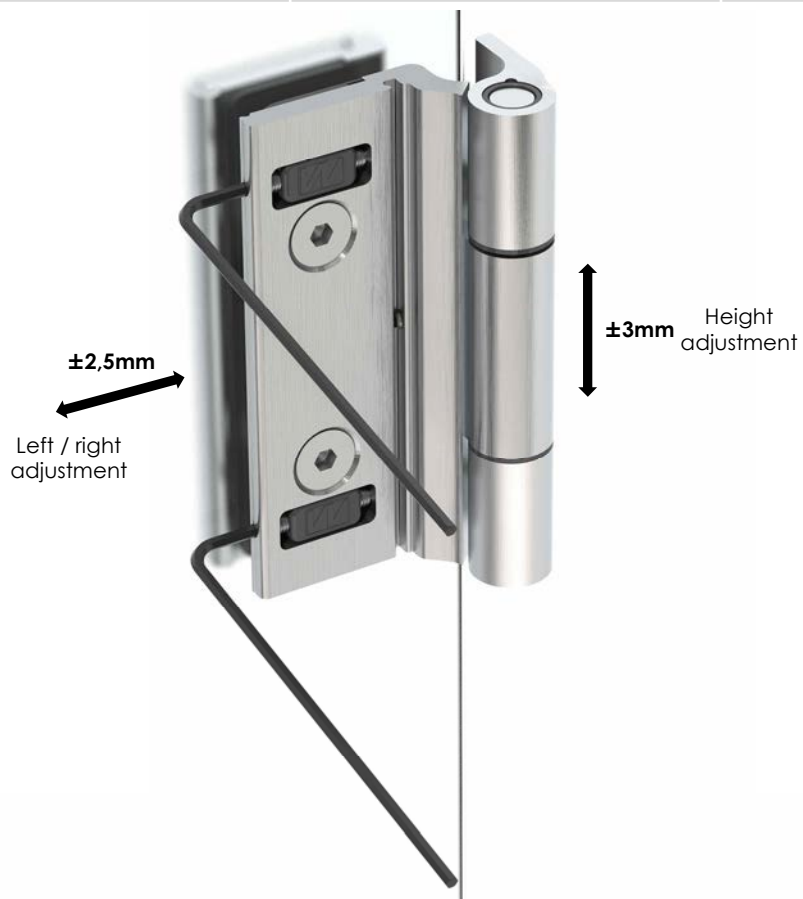
### PLASTIC COVERS



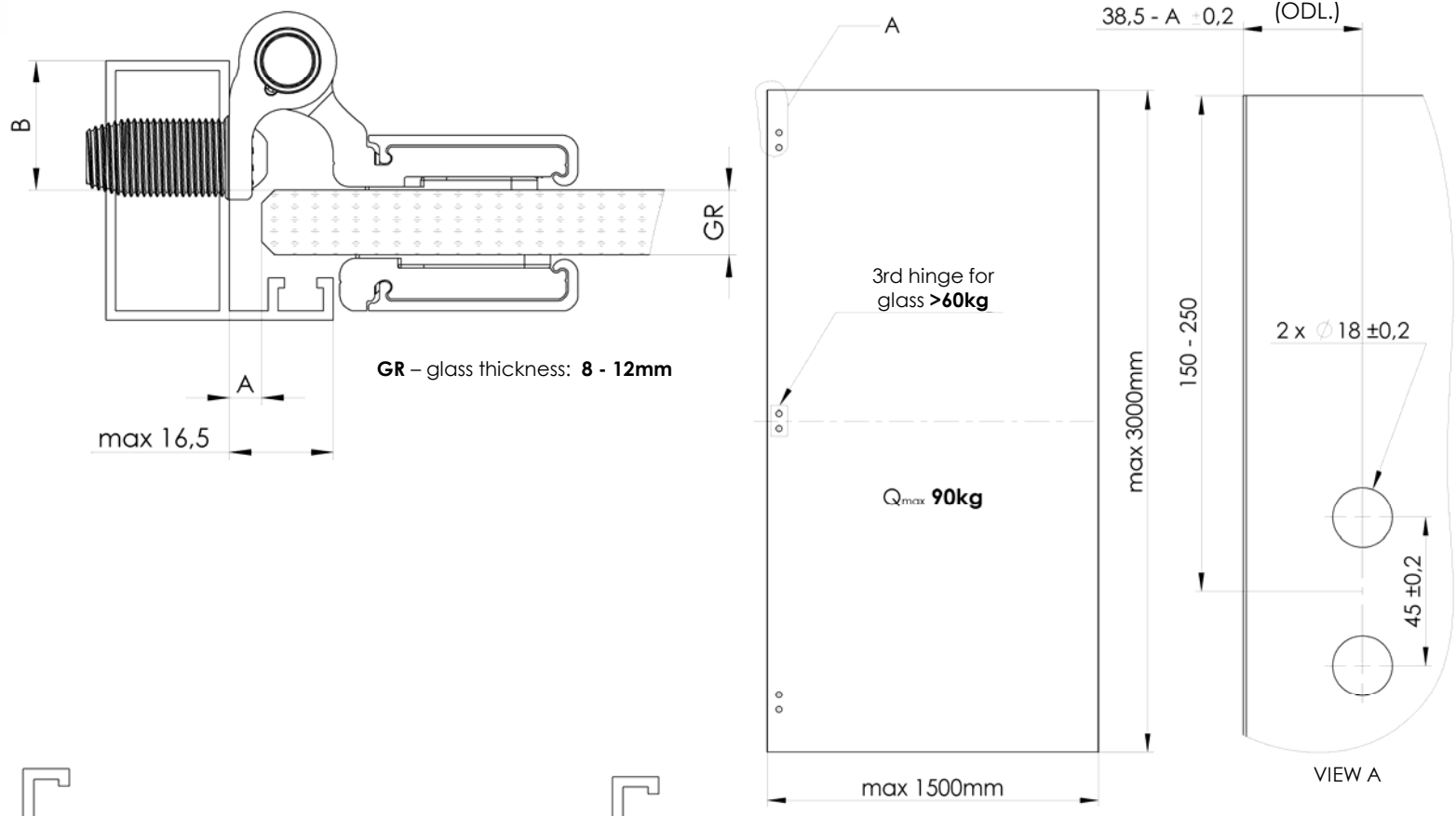
## WT GLASS SHEET HINGE / MOUNTING SETS AND ADJUSTMENT

SET CODE	PICTURE	TYPE	TARGET
WT 80104710		RIVET NUTS FIXING SET	ALUMINIUM OR STEEL PROFILES WITH ONE PARTITION
WT 80104990		SCREW DOWELS FIXING SET	ALUMINIUM PROFILES WITH MIN. 2 PARTITIONS, FILLED DOOR FRAME

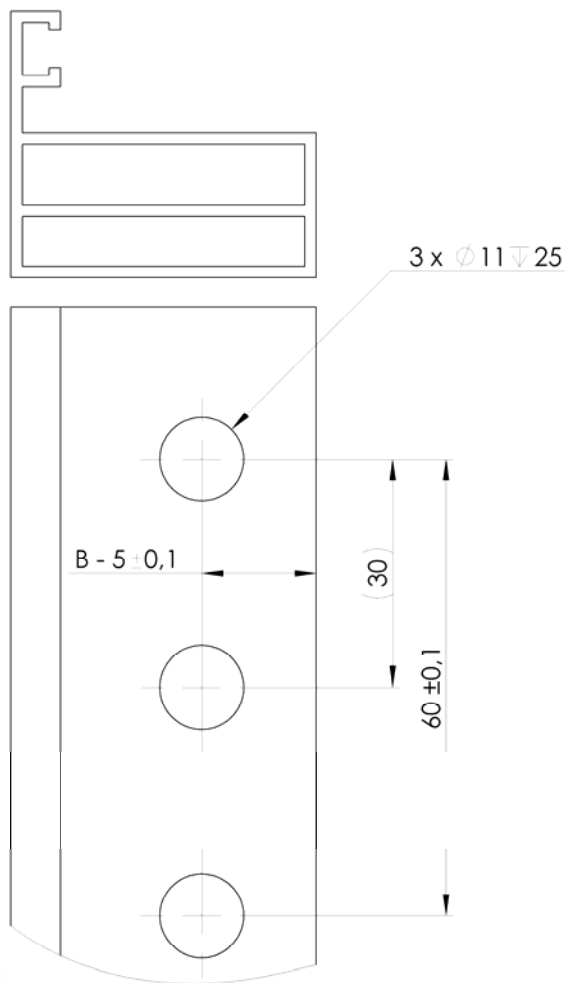
### WT HINGE ADJUSTMENT:



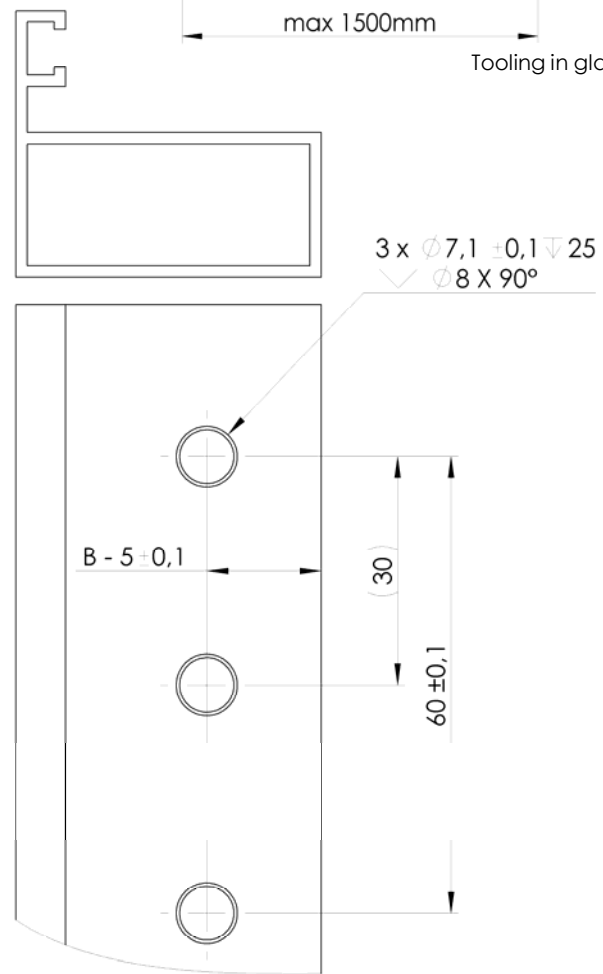
## WT GLASS SHEET HINGE / TOOLING IN PROFILE, GLASS SHEET AND SELECTION



Tooling in glass sheet



Tooling in aluminium profile (screw dowels fixing set)



Tooling in aluminium profile (rivet nuts fixing set)

GAP A [mm]	DIMENSION IN GLASS ODL. [mm]
4	34,5 $\pm 0,2$
4,5	34,0 $\pm 0,2$
5	33,5 $\pm 0,2$
5,5	33,0 $\pm 0,2$
6	32,5 $\pm 0,2$
6,5	32,0 $\pm 0,2$
7	31,5 $\pm 0,2$
7,5	31,0 $\pm 0,2$
8	30,5 $\pm 0,2$

## CERTIFICATE OF WALA HINGES



**JEDNOSTKA NOTYFIKOWANA Nr 1488  
INSTYTUT TECHNIKI BUDOWLANEJ**

**ZAKŁAD CERTYFIKACJI**

ul. FILTROWA 1, 00-611 WARSZAWA  
tel.: (22) 57 96 167, (22) 57 96 168, fax: (22) 57 96 295  
e-mail: certyfikacja@itb.pl, www.itb.pl



AC 020

**CERTYFIKAT STAŁOŚCI WŁAŚCIWOŚCI UŻYTKOWYCH  
1488-CPR-0038/W**

Zgodnie z Rozporządzeniem Parlamentu Europejskiego i Rady (UE) Nr 305/2011 z dnia 9 marca 2011 r. (Rozporządzenie CPR), niniejszy certyfikat odnosi się do wyrobu budowlanego:

**ZAWIASY JEDNOOSIOWE WALA**

do stosowania w drzwiach przeciwpożarowych i w drzwiach na drogach ewakuacyjnych

Klasyfikacja wg EN 1935:2002 + EN 1935:2002/AC:2003

	1	2	3	4	5	6	7	8
dwuskrzydłowe WS, WX	4	7	7	1	1	3	1	14
trójskrzydłowe WS, WX	4	7	7	1	1	4	1	14
trójskrzydłowe rolkowe WR	4	7	7	1	1	4	1	14

do stosowania w drzwiach na drogach ewakuacyjnych

	1	2	3	4	5	6	7	8
dwuskrzydłowe SWW, WL, XWW	4	7	6	0	1	3	1	13
trójskrzydłowe SWW, WL, WX ELECTRO	4	7	7	0	1	3	1	14
dwuskrzydłowe i trójskrzydłowe MX	4	7	7	0	1	3	1	14

wprowadzone do obrotu i produkowane przez firmę:

**WALA Sp. z o.o.**  
**ul. Parkowa 16, 43-365 Wilkowice**

w zakładzie produkcyjnym:

**WALA Sp. z o.o.**  
**ul. Parkowa 16, 43-365 Wilkowice**

Niniejszy certyfikat potwierdza, że wszystkie postanowienia dotyczące oceny i weryfikacji stałości właściwości użytkowych określone w załączniku ZA normy:

**EN 1935:2002 + EN 1935:2002/AC:2003**

(odpowiednik krajowy: PN-EN-1935:2003 + PN-EN 1935:2003/AC:2005)

w ramach systemu 1 w odniesieniu do właściwości użytkowych określonych w niniejszym certyfikacie są stosowane oraz, że producent wdrożył system zakładowej kontroli produkcji w celu zapewnienia utrzymania ich stałości.

Niniejszy certyfikat został wydany po raz pierwszy 15.12.2006 jako certyfikat nr 1488-CPD-0038 (zaktualizowany 14.07.2009, 29.09.2009, 06.12.2010, 09.05.2011, 30.05.2012, 24.06.2013, 26.11.2015, 07.03.2016) i pozostaje ważny, dopóki zharmonizowana norma, metody oceny i weryfikacji stałości właściwości użytkowych, sam wyrób budowlany i warunki jego wytwarzania nie ulegną istotnej zmianie oraz pod warunkiem, że nie zostanie zawieszony lub cofnięty przez notyfikowaną jednostkę certyfikującą wyroby.

KIEROWNIK  
Zakładu Certyfikacji

*K. Hatowska*

mgr inż. Katarzyna Hatowska



Warszawa, 07.03.2016

DYREKTOR  
Instytutu Techniki Budowlanej

*[Signature]*

dr inż. Marcin M. Kruk

**Wala Sp. z o.o.**

Parkowa 16  
43-365 Wilkowice  
POLAND

[wala@wala.pl](mailto:wala@wala.pl)

tel. +48 33 82 72 390

fax: +48 33 82 72 391

[www.wala.pl](http://www.wala.pl)