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Uf value table for MASTERLINE 8 HI Windows

The tabulated U-values have been calculated according to EN 10077-2:2012.
The Uf-values are valid for unicolor painted profiles.

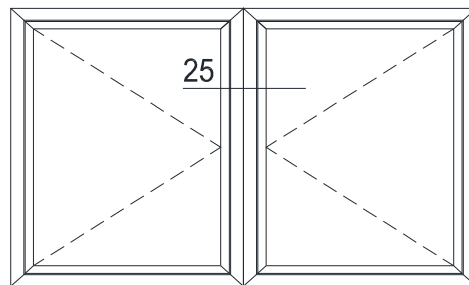
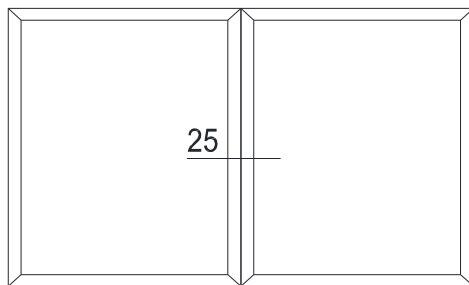
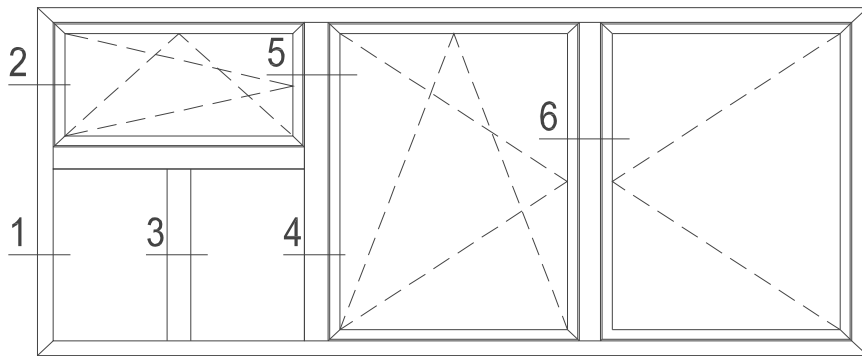
The U-values mentioned are certified by the Belgian Construction
Certification Association (BCCA) with certification number
BPCB - 420 - 72 - 10077/2 REYN - 02 dated 01/06/2006.

Hugo Reis / Joris Brusseleers
7/01/2016

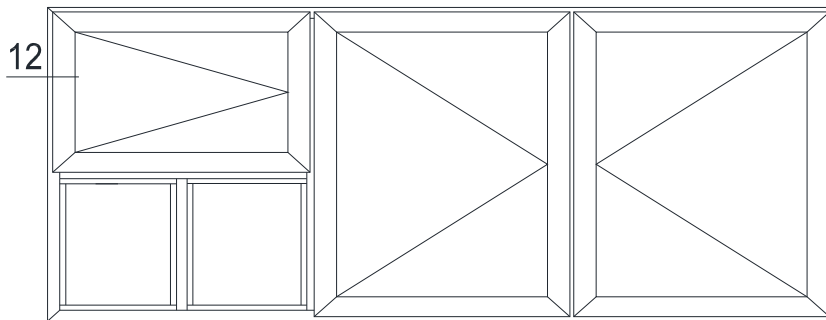


Overview sections MASTERLINE 8-HI

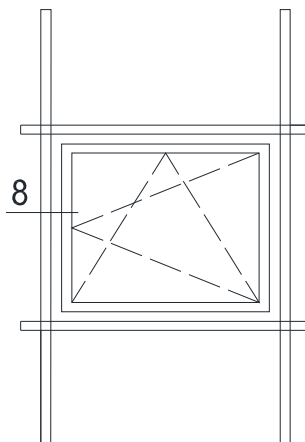
All pictures are given in external view



Sections for inward opening

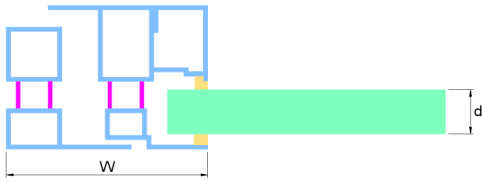
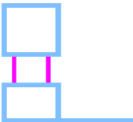
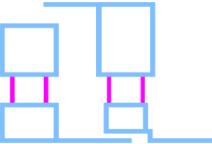


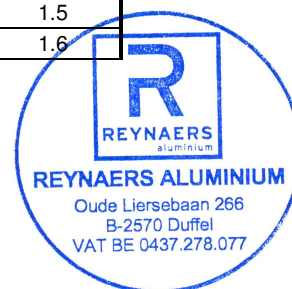
Sections for outward opening

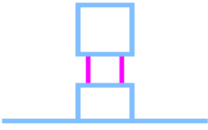


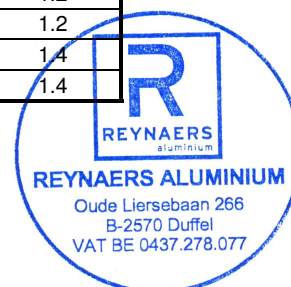
Sections for curtain wall inward opening

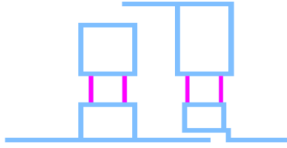


Uf value for window combinations according to EN ISO 10077-2 (2012)		MASTERLINE 8		Version of 7/01/2016
Section	Profiles	d [mm]	W [mm]	Uf [W/m ² K] HI
				
* not for reinforced profiles Reinforced profiles can be calculated according to "Uf reinforced profiles.pdf"				
<i>Inside opening</i>				
x	if not specified below* use 2.1 W/m²K*			
1	Outerframe			
				
1	if not specified below*	24		1.7
1	if not specified below*	36		1.5
1	4080136	24	53	1.7
1	4080183	24	60	1.6
1	4080160	24	70	1.5
1	4080125	24	80	1.4
1	4080142	24	113	1.6
1	4080140	24	140	1.6
1	4088155	24	60	1.6
1	4080136	36	53	1.4
1	4080183	36	60	1.4
1	4080160	36	70	1.3
1	4080125	36	80	1.3
1	4080142	36	113	1.5
1	4080140	36	140	1.5
1	4088155	36	60	1.4
2	Outerframe + Vent			
				
2	if not specified below*	24		1.7
2	if not specified below*	36		1.6
2	4080136+4080102	24	97	1.7
2	4080136+4080192	24	112	1.6
2	4080136+4080112	24	127	1.6
2	4080183+4080102	24	104	1.7
2	4080183+4080192	24	119	1.6
2	4080183+4080112	24	134	1.5
2	4080160+4080102	24	114	1.6
2	4080160+4080192	24	129	1.6
2	4080160+4080112	24	144	1.5
2	4080125+4080102	24	124	1.6

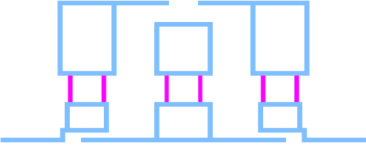


Uf value for window combinations according to EN ISO 10077-2 (2012)		MASTERLINE 8		Version of 7/01/2016
Section	Profiles	d [mm]	W [mm]	Uf [W/m²K]
				HI
2	4080125+4080192	24	139	1.5
2	4080125+4080112	24	154	1.5
2	4080142+4080102	24	157	1.7
2	4080142+4080192	24	172	1.6
2	4080142+4080112	24	187	1.5
2	4080140+4080102	24	184	1.6
2	4080140+4080192	24	199	1.6
2	4080140+4080112	24	214	1.5
2	4088155+4080102	24	104	1.7
2	4088155+4080192	24	119	1.6
2	4088155+4080112	24	134	1.5
2	4080136+4080102	36	97	1.6
2	4080136+4080192	36	112	1.5
2	4080136+4080112	36	127	1.5
2	4080183+4080102	36	104	1.6
2	4080183+4080192	36	119	1.5
2	4080183+4080112	36	134	1.4
2	4080160+4080102	36	114	1.5
2	4080160+4080192	36	129	1.5
2	4080160+4080112	36	144	1.4
2	4080125+4080102	36	124	1.5
2	4080125+4080192	36	139	1.4
2	4080125+4080112	36	154	1.4
2	4080142+4080102	36	157	1.6
2	4080142+4080192	36	172	1.5
2	4080142+4080112	36	187	1.5
2	4080140+4080102	36	184	1.6
2	4080140+4080192	36	199	1.5
2	4080140+4080112	36	214	1.5
2	4088155+4080102	36	104	1.6
2	4088155+4080192	36	119	1.5
2	4088155+4080112	36	134	1.5
3		Transom		
3	if not specified below*	24		1.6
3	if not specified below*	36		1.4
3	4080113	24	80	1.5
3	4080120	24	87	1.5
3	4080165	24	97	1.5
3	4080114	24	107	1.4
3	4080123	24	127	1.6
3	4080116	24	147	1.6
3	4080113	36	80	1.2
3	4080120	36	87	1.2
3	4080165	36	97	1.2
3	4080114	36	107	1.2
3	4080123	36	127	1.4
3	4080116	36	147	1.4

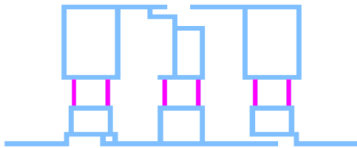
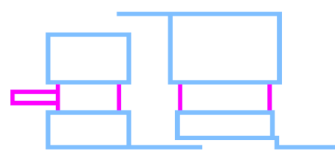
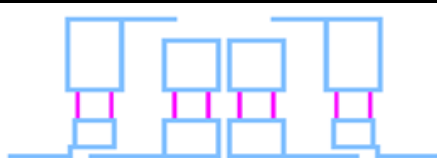


Uf value for window combinations according to EN ISO 10077-2 (2012)		MASTERLINE 8		Version of 7/01/2016
Section	Profiles	d [mm]	W [mm]	Uf [W/m ² K]
				HI
4	 Transom + Vent			
4	if not specified below*	24		1.7
4	if not specified below*	36		1.6
4	4080113+4080102	24	124	1.7
4	4080113+4080192	24	139	1.6
4	4080113+4080112	24	154	1.5
4	4080120+4080102	24	131	1.6
4	4080120+4080192	24	146	1.6
4	4080120+4080112	24	161	1.5
4	4080165+4080102	24	141	1.6
4	4080165+4080192	24	156	1.5
4	4080165+4080112	24	171	1.5
4	4080114+4080102	24	151	1.5
4	4080114+4080192	24	166	1.5
4	4080114+4080112	24	181	1.5
4	4080123+4080102	24	171	1.6
4	4080123+4080192	24	186	1.6
4	4080123+4080112	24	201	1.5
4	4080116+4080102	24	191	1.6
4	4080116+4080192	24	206	1.6
4	4080116+4080112	24	221	1.5
4	4080113+4080102	36	124	1.5
4	4080113+4080192	36	139	1.4
4	4080113+4080112	36	154	1.4
4	4080120+4080102	36	131	1.5
4	4080120+4080192	36	146	1.4
4	4080120+4080112	36	161	1.4
4	4080165+4080102	36	141	1.4
4	4080165+4080192	36	156	1.4
4	4080165+4080112	36	171	1.3
4	4080114+4080102	36	151	1.4
4	4080114+4080192	36	166	1.4
4	4080114+4080112	36	181	1.3
4	4080123+4080102	36	171	1.5
4	4080123+4080192	36	186	1.5
4	4080123+4080112	36	201	1.4
4	4080116+4080102	36	191	1.5
4	4080116+4080192	36	206	1.5
4	4080116+4080112	36	221	1.4

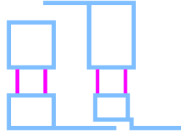


Uf value for window combinations according to EN ISO 10077-2 (2012)		MASTERLINE 8		Version of 7/01/2016
Section	Profiles	d [mm]	W [mm]	Uf [W/m ² K]
				HI
5	 Transom + 2 Vent			
5	if not specified below*	24		1.7
5	if not specified below*	36		1.6
5	4080113+4080102+4080102	24	168	1.7
5	4080113+4080192+4080192	24	198	1.6
5	4080113+4080112+4080112	24	228	1.5
5	4080120+4080102+4080102	24	175	1.7
5	4080120+4080192+4080192	24	205	1.6
5	4080120+4080112+4080112	24	235	1.5
5	4080165+4080102+4080102	24	185	1.6
5	4080165+4080192+4080192	24	215	1.6
5	4080165+4080112+4080112	24	245	1.5
5	4080114+4080102+4080102	24	195	1.6
5	4080114+4080192+4080192	24	225	1.5
5	4080114+4080112+4080112	24	255	1.5
5	4080123+4080102+4080102	24	215	1.7
5	4080123+4080192+4080192	24	245	1.6
5	4080123+4080112+4080112	24	275	1.5
5	4080116+4080102+4080102	24	235	1.7
5	4080116+4080192+4080192	24	265	1.6
5	4080116+4080112+4080112	24	295	1.5
5	4080113+4080102+4080102	36	168	1.6
5	4080113+4080192+4080192	36	198	1.5
5	4080113+4080112+4080112	36	228	1.4
5	4080120+4080102+4080102	36	175	1.5
5	4080120+4080192+4080192	36	205	1.5
5	4080120+4080112+4080112	36	235	1.4
5	4080165+4080102+4080102	36	185	1.5
5	4080165+4080192+4080192	36	215	1.4
5	4080165+4080112+4080112	36	245	1.4
5	4080114+4080102+4080102	36	195	1.5
5	4080114+4080192+4080192	36	225	1.4
5	4080114+4080112+4080112	36	255	1.4
5	4080123+4080102+4080102	36	215	1.6
5	4080123+4080192+4080192	36	245	1.5
5	4080123+4080112+4080112	36	275	1.4
5	4080116+4080102+4080102	36	235	1.6
5	4080116+4080192+4080192	36	265	1.5
5	4080116+4080112+4080112	36	295	1.4



Uf value for window combinations according to EN ISO 10077-2 (2012)		MASTERLINE 8		Version of 7/01/2016		
Section	Profiles	d [mm]	W [mm]	Uf [W/m²K]		
				HI		
6	 <p style="text-align: right;">Double casement</p>					
			if not specified below*	24	1.8	
			if not specified below*	36	1.6	
			4080105+4080102	24	139	1.6
			4080115+4080102+4080102	24	161	1.8
			4080115+4080192+4080192	24	191	1.6
			4080115+4080112+4080112	24	221	1.5
			4080105+4080102	36	139	1.4
			4080115+4080102+4080102	36	161	1.6
			4080115+4080192+4080192	36	191	1.5
			4080115+4080112+4080112	36	221	1.4
		8	 <p style="text-align: right;">Curtain Wall outerframe (Insert windows profile) Ucw can be calculated according to "Ucw calculation with inserted window_130205.pdf"</p>			
					if not specified below*	24
	if not specified below*			36	1.8	
	4080826+4080102			24	108	1.8
	4080826+4080192			24	123	1.7
	4080826+4080112			24	138	1.6
	4080826+4080102			36	108	1.8
	4080826+4080192			36	123	1.7
	4080826+4080112			36	138	1.6
25	 <p style="text-align: right;">Expansion profile</p>					
					if not specified below*	24
			if not specified below*	36	1.9	
			4080880+4080880	24	113	2.0
			4080881+4080881	24	127	1.9
			4080882+4080882	24	127	1.9
			4080885+4080885	24	147	2.1
			4080102+4080880+4080880+4080102	24	201	1.9
			4080192+4080880+4080880+4080192	24	231	1.7
			4080112+4080880+4080880+4080112	24	261	1.6
			4080102+4080881+4080881+4080102	24	215	1.8



Uf value for window combinations according to EN ISO 10077-2 (2012)		MASTERLINE 8		Version of 7/01/2016
Section	Profiles	d [mm]	W [mm]	Uf [W/m²K]
				HI
25	4080192+4080881+4080881+4080192	24	245	1.7
25	4080112+4080881+4080881+4080112	24	275	1.6
25	4080880+4080880	36	113	1.8
25	4080881+4080881	36	127	1.8
25	4080882+4080882	36	127	1.7
25	4080885+4080885	36	147	1.9
25	4080102+4080880+4080880+4080102	36	201	1.7
25	4080192+4080880+4080880+4080192	36	231	1.6
25	4080112+4080880+4080880+4080112	36	261	1.6
25	4080102+4080881+4080881+4080102	36	215	1.7
25	4080192+4080881+4080881+4080192	36	245	1.6
25	4080112+4080881+4080881+4080112	36	275	1.6
<i>Outside opening</i>				
12		Outerframe + Vent		
12	if not specified below*	24		1.9
12	if not specified below*	36		1.8
12	4080136+4080051	24	133	1.9
12	4080183+4080051	24	140	1.8
12	4080160+4080051	24	150	1.8
12	4080125+4080051	24	160	1.7
12	4080136+4080051	36	133	1.8
12	4080183+4080051	36	140	1.7
12	4080160+4080051	36	150	1.7
12	4080125+4080051	36	160	1.6



Uw-values for MASTERLINE 8-HI with glass thickness 24mm																														
U _w for turn-tilt window with area ≤ 2.3 m ² *																														
Uf EN ISO 10077-2	Uf [W/m ² K]	Glass thickness [mm]	Width [mm]	U _w (according to EN ISO 10077-1:2006)																										
				U _g =	0.50	0.60	0.70	0.80	0.90	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	0.50	0.60	0.70	0.80	0.90	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7
				psi =	0.11															0.08										
4080136	1.7	24	53	0.96	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	2.0	0.90	0.99	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	
4080136+4080102	1.7	24	97	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	1.9	2.0	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	1.9	
4080136+4080192	1.6	24	112	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	1.9	1.1	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	
4080136+4080112	1.6	24	127	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	1.9	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	
4080183	1.6	24	60	0.99	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	2.0	0.90	0.99	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	
4080183+4080102	1.7	24	104	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	1.9	2.0	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	1.9	
4080183+4080192	1.6	24	119	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	1.9	1.9	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	
4080183+4080112	1.5	24	134	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8	1.9	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8	
4080125	1.4	24	80	0.99	1.1	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	1.9	0.91	0.99	1.1	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	
4080125+4080102	1.6	24	124	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	1.9	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	
4080125+4080192	1.5	24	139	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8	1.9	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8	
4080125+4080112	1.5	24	154	1.2	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.8	1.9	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.8	
4080142	1.6	24	113	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	1.9	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	
4080142+4080102	1.7	24	157	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.8	1.9	2.0	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.8	1.9	
4080142+4080192	1.6	24	172	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.9	1.9	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.8	1.8	
4080142+4080112	1.5	24	187	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	
4080140	1.6	24	140	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	1.9	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	
4080140+4080102	1.6	24	184	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	
4080140+4080192	1.6	24	199	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	
4080140+4080112	1.5	24	214	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	
U _w for turn-tilt window with area > 2.3 m ² **																														
Uf EN ISO 10077-2	Uf [W/m ² K]	Glass thickness [mm]	Width [mm]	U _w (according to EN ISO 10077-1:2006)																										
				U _g =	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7
				psi =	0.11															0.08										
4080136	1.7	24	53	0.88	0.96	1.1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.8	1.9	0.81	0.90	0.99	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.8	1.9	
4080136+4080102	1.7	24	97	0.97	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.8	1.9	0.91	0.99	1.1	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.9	
4080136+4080192	1.6	24	112	0.98	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	1.9	0.92	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	
4080136+4080112	1.6	24	127	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	1.9	0.95	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	
4080183	1.6	24	60	0.88	0.96	1.1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	0.81	0.90	0.99	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	
4080183+4080102	1.7	24	104	0.99	1.1	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	1.9	0.93	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.9	
4080183+4080192	1.6	24	119	0.99	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	1.9	0.94	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	
4080183+4080112	1.5	24	134	0.99	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9	0.94	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	
4080125	1.4	24	80	0.88	0.97	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.9	0.82	0.90	0.99	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	
4080125+4080102	1.6	24	124	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	1.9	0.95	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	
4080125+4080192	1.5	24	139	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9	0.95	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	
4080125+4080112	1.5	24	154	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8	0.97	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	
4080142	1.6	24	113	0.98	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	1.9	0.92	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	
4080142+4080102	1.7	24	157	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8	1.9	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9	
4080142+4080192	1.6	24	172	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.8	1.9	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.8	
4080142+4080112	1.5	24	187	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.8	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.8	
4080140	1.6	24	140	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	0.98	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	
4080140+4080102	1.6	24	184	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.8	
4080140+4080192	1.6	24	199	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.8	1.9	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.8	
4080140+4080112	1.5	24	214	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.8	

* U_w has been calculated for a window with dimensions 1230*1480mm as indicated in EN 14351-1** U_w has been calculated for a window with dimensions 1480*2180mm as indicated in EN 14351-1

Uw-values for MASTERLINE 8-HI with glass thickness 36mm																														
U _w for turn-tilt window with area ≤ 2.3 m ² *																														
Uf EN ISO 10077-2	Uf [W/m ² K]	Glass thickness [mm]	Width [mm]	U _w (according to EN ISO 10077-1:2006)																										
				U _g =	0.50	0.60	0.70	0.80	0.90	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	0.50	0.60	0.70	0.80	0.90	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7
				psi =	0.11															0.08										
4080136	1.4	36	53	0.94	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.9	2.0	0.86	0.94	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.9	
4080136+4080102	1.6	36	97	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	1.9	2.0	1.0	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	1.9	
4080136+4080192	1.5	36	112	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9	1.0	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8		
4080136+4080112	1.5	36	127	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8		
4080183	1.4	36	60	0.95	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.9	1.9	0.87	0.95	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.9	
4080183+4080102	1.6	36	104	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	1.9	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	1.9		
4080183+4080192	1.5	36	119	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8		
4080183+4080112	1.4	36	134	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	
4080125	1.3	36	80	0.97	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	1.9	0.89	0.97	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	
4080125+4080102	1.5	36	124	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8		
4080125+4080192	1.4	36	139	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8		
4080125+4080112	1.4	36	154	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.8	1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.8	
4080142	1.5	36	113	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9	1.0	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8		
4080142+4080102	1.6	36	157	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.8	1.9	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.8		
4080142+4080192	1.5	36	172	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.9	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.8		
4080142+4080112	1.5	36	187	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	
4080140	1.5	36	140	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8		
4080140+4080102	1.6	36	184	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.9	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8		
4080140+4080192	1.5	36	199	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.9	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8		
4080140+4080112	1.5	36	214	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	
U _w for turn-tilt window with area > 2.3 m ² **																														
Uf EN ISO 10077-2	Uf [W/m ² K]	Glass thickness [mm]	Width [mm]	U _w (according to EN ISO 10077-1:2006)																										
				U _g =	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7
				psi =	0.11															0.08										
4080136	1.4	36	53	0.84	0.93	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.9	0.78	0.86	0.95	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	
4080136+4080102	1.6	36	97	0.95	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	0.89	0.97	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.8	
4080136+4080192	1.5	36	112	0.96	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	0.90	0.97	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	
4080136+4080112	1.5	36	127	0.98	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	0.92	1.0	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	
4080183	1.4	36	60	0.85	0.94	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.9	0.79	0.87	0.96	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	
4080183+4080102	1.6	36	104	0.97	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	1.9	0.91	0.98	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.8	
4080183+4080192	1.5	36	119	0.97	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	0.91	0.99	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	
4080183+4080112	1.4	36	134	0.97	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	0.91	0.98	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	
4080125	1.3	36	80	0.87	0.95	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.9	0.80	0.89	0.97	1.1	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8
4080125+4080102	1.5	36	124	0.98	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	0.92	0.99	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	
4080125+4080192	1.4	36	139	0.97	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	0.92	0.99	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	
4080125+4080112	1.4	36	154	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.9	0.94	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	
4080142	1.5	36	113	0.96	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	0.90	0.98	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	
4080142+4080102	1.6	36	157	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	
4080142+4080192	1.5	36	172	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.8	
4080142+4080112	1.5	36	187	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.8	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.8	
4080140	1.5	36	140	1.0	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9	0.95	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	
4080140+4080102	1.6	36	184	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.9	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.8	
4080140+4080192	1.5	36	199	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.9	1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.8	
4080140+4080112	1.5	36	214	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.9	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.8	

* U_w has been calculated for a window with dimensions 1230*1480mm as indicated in EN 14351-1** U_w has been calculated for a window with dimensions 1480*2180mm as indicated in EN 14351-1