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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.

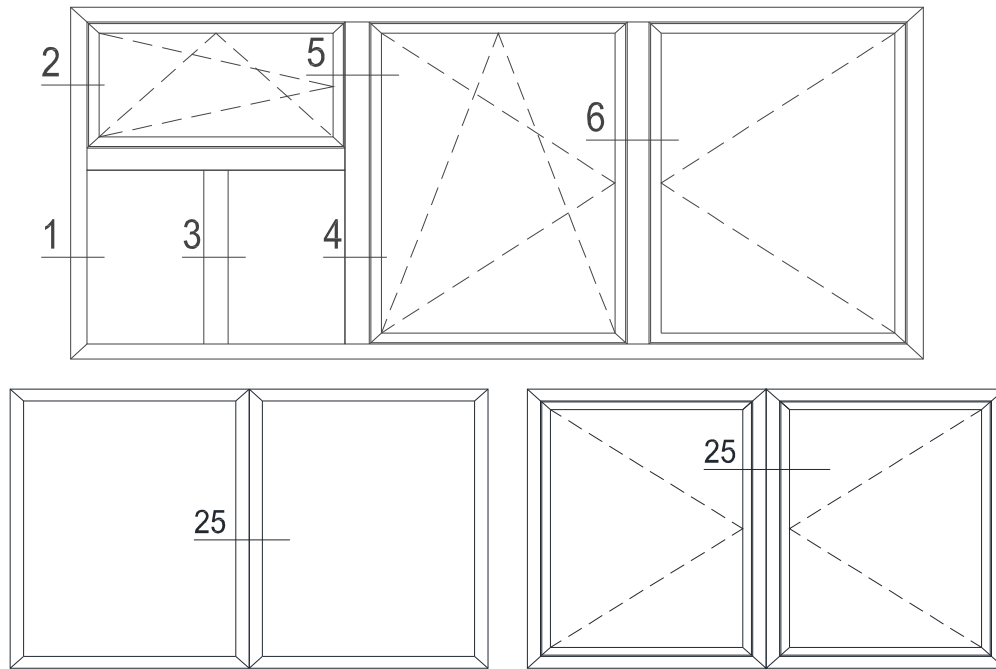
The U-values mentioned are certified by the Belgian Construction  
Certification Association (BCCA) with certification number  
BPCB - 420 - 72 - 10077/2 REYN - 02 dated 01/06/2006.

Hugo Reis / Joris Brusseleers  
7/01/2016

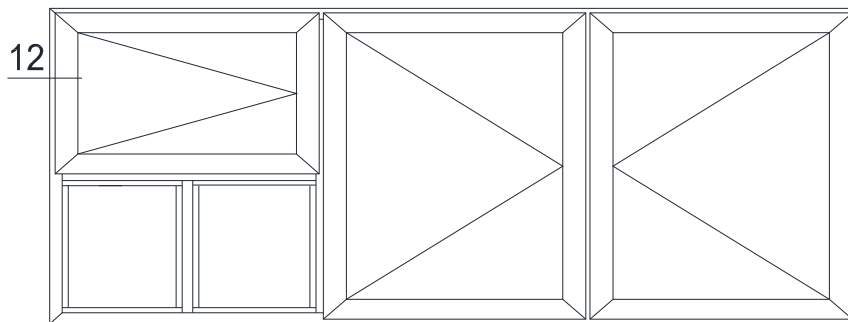


# Overview sections MASTERLINE 8-HI

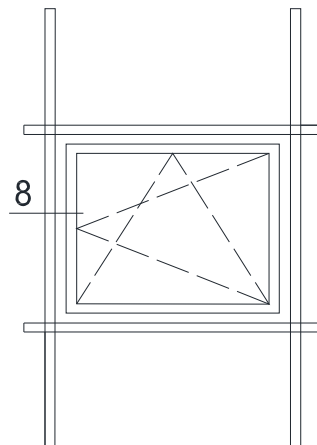
All pictures are given in external view



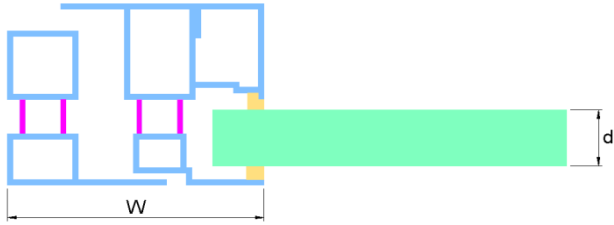
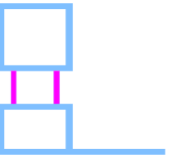
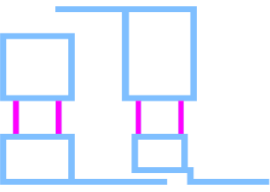
*Sections for inward opening*

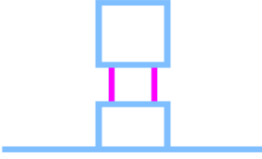
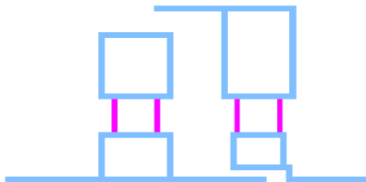


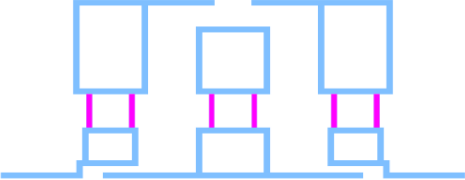
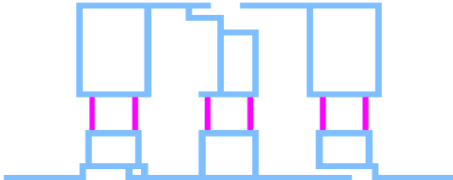
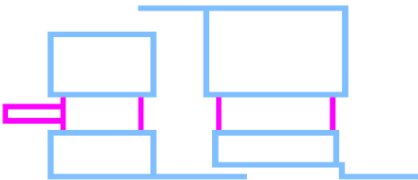

*Sections for outward opening*

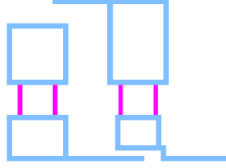


*Sections for curtain wall inward opening*

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 <sup>2</sup> 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 1.5 W/m <sup>2</sup> K*			
1	 <b>Outerframe</b>			
1	if not specified below*	36		1.5
1	5080136	36	53	1.3
1	5080183	36	60	1.2
1	5080160	36	70	1.1
1	5080125	36	80	1.0
1	5080142	36	113	1.4
1	5080140	36	140	1.5
2	 <b>Outerframe + Vent</b>			
2	if not specified below*	36		1.4
2	5080136+5080102	36	97	1.3
2	5080136+5080192	36	112	1.2
2	5080136+5080112	36	127	1.2
2	5080183+5080102	36	104	1.3
2	5080183+5080192	36	119	1.2
2	5080183+5080112	36	134	1.1
2	5080160+5080102	36	114	1.2
2	5080160+5080192	36	129	1.2
2	5080160+5080112	36	144	1.1
2	5080125+5080102	36	124	1.2
2	5080125+5080192	36	139	1.1
2	5080125+5080112	36	154	1.1

<b>Uf value for window combinations</b> according to EN ISO 10077-2 (2012)		<b>MASTERLINE 8</b>		Version of 7/01/2016
<b>Section</b>	<b>Profiles</b>	<b>d</b> [mm]	<b>W</b> [mm]	<b>Uf [W/m<sup>2</sup>K]</b>
				<b>HI+</b>
2	5080142+5080102	36	157	1.4
2	5080142+5080192	36	172	1.3
2	5080142+5080112	36	187	1.3
2	5080140+5080102	36	184	1.4
2	5080140+5080192	36	199	1.4
2	5080140+5080112	36	214	1.3
<b>3</b>		<b>Transom</b>		
<b>3</b>	<b>if not specified below*</b>	<b>36</b>		<b>1.4</b>
3	5080113	36	80	1.1
3	5080120	36	87	1.1
3	5080165	36	97	1.0
3	5080114	36	107	1.0
3	5080123	36	127	1.3
3	5080116	36	147	1.4
<b>4</b>		<b>Transom + Vent</b>		
<b>4</b>	<b>if not specified below*</b>	<b>36</b>		<b>1.4</b>
4	5080113+5080102	36	124	1.2
4	5080113+5080192	36	139	1.2
4	5080113+5080112	36	154	1.1
4	5080120+5080102	36	131	1.2
4	5080120+5080192	36	146	1.1
4	5080120+5080112	36	161	1.1
4	5080165+5080102	36	141	1.2
4	5080165+5080192	36	156	1.1
4	5080165+5080112	36	171	1.1
4	5080114+5080102	36	151	1.1
4	5080114+5080192	36	166	1.1
4	5080114+5080112	36	181	1.0
4	5080123+5080102	36	171	1.3
4	5080123+5080192	36	186	1.3
4	5080123+5080112	36	201	1.2
4	5080116+5080102	36	191	1.4
4	5080116+5080192	36	206	1.3
4	5080116+5080112	36	221	1.3

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 <sup>2</sup> K]
				HI+
5		<b>Transom + 2 Vent</b>		
5	if not specified below*	36		1.3
5	5080113+5080102+5080102	36	168	1.3
5	5080116+5080112+5080112	36	295	1.2
6		<b>Double casement</b>		
6	if not specified below*	36		1.4
6	5080115+5080102+5080102	36	161	1.4
6	5080105+5080102	36	139	1.2
8		<b>Curtain Wall outerframe (Insert windows profile)</b> Ucw can be calculated according to "Ucw calculation with inserted window_130205.pdf"		
8	if not specified below*	36		1.6
8	5080826+5080102	36	108	1.6
8	5080826+5080112	36	138	1.4
25		<b>Expansion profile</b>		
25	if not specified below*	36		1.8
25	5080880+5080880	36	113	1.6
25	5080885+5080885	36	147	1.8
25	5080102+5080880+5080880+5080102	36	201	1.5
25	5080112+5080880+5080880+5080112	36	261	1.3

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 <sup>2</sup> K]
				HI+
<i>Outside opening</i>				
12				Outerframe + Vent
12	if not specified below*	36		1.6
12	5080136+5080051	36	133	1.6
12	5080183+5080051	36	140	1.5
12	5080160+5080051	36	150	1.5
12	5080125+5080051	36	160	1.4

Uw-values for MASTERLINE 8-HI+ with glass thickness 36mm																														
U <sub>window</sub> for turn-tilt window with area ≤ 2.3 m <sup>2</sup> *																														
Uf EN ISO 10077-2	Uf [W/m <sup>2</sup> K]	Glass thickness [mm]	Width [mm]	U <sub>w</sub> (according to EN ISO 10077-1:2006)																										
				U <sub>g</sub> =	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									
5080136	1.3	36	53	0.92	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.9	0.84	0.93	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.8	1.9	
5080136+5080102	1.3	36	97	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	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	
5080136+5080192	1.2	36	112	0.99	1.1	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	1.5	1.6	1.7	1.7	
5080136+5080112	1.2	36	127	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	0.93	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	
5080183	1.2	36	60	0.92	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	0.84	0.92	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.7	1.8	
5080183+5080102	1.3	36	104	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	0.93	1.0	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	
5080183+5080192	1.2	36	119	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	0.92	0.99	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	
5080183+5080112	1.1	36	134	0.98	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.7	0.91	0.97	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	
5080125	1.0	36	80	0.90	0.98	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.8	0.82	0.90	0.98	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.8	
5080125+5080102	1.2	36	124	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	0.93	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	
5080125+5080192	1.1	36	139	0.98	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.7	0.91	0.98	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	
5080125+5080112	1.1	36	154	1.0	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	0.93	0.99	1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	
5080140	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	1.8	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	
5080140+5080102	1.4	36	184	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	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	
5080140+5080192	1.4	36	199	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	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	
5080140+5080112	1.3	36	214	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.6	
5080142	1.4	36	113	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	0.98	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	
5080142+5080102	1.2	36	124	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	0.93	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	
5080142+5080192	1.1	36	139	0.98	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.7	0.91	0.98	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	
5080142+5080112	1.1	36	154	1.0	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	0.93	0.99	1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	
U <sub>window</sub> for turn-tilt window with area > 2.3 m <sup>2</sup> **																														
Uf EN ISO 10077-2	Uf [W/m <sup>2</sup> K]	Glass thickness [mm]	Width [mm]	U <sub>w</sub> (according to EN ISO 10077-1:2006)																										
				U <sub>g</sub> =	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									
5080136	1.3	36	53	0.83	0.92	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.9	0.76	0.85	0.94	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	
5080136+5080102	1.3	36	97	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	0.83	0.91	0.99	1.1	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	
5080136+5080192	1.2	36	112	0.89	0.96	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	0.83	0.90	0.98	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	
5080136+5080112	1.2	36	127	0.90	0.98	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	0.84	0.92	0.99	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	
5080183	1.2	36	60	0.83	0.91	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.8	1.9	0.76	0.85	0.94	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	
5080183+5080102	1.3	36	104	0.90	0.98	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.8	0.84	0.92	0.99	1.1	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	
5080183+5080192	1.2	36	119	0.89	0.97	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	0.83	0.91	0.98	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	
5080183+5080112	1.1	36	134	0.88	0.95	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	0.82	0.90	0.97	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	
5080125	1.0	36	80	0.81	0.90	0.98	1.1	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	0.75	0.84	0.92	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.7	
5080125+5080102	1.2	36	124	0.90	0.97	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	0.84	0.91	0.99	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	
5080125+5080192	1.1	36	139	0.89	0.96	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	0.83	0.90	0.97	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	
5080125+5080112	1.1	36	154	0.90	0.97	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	0.84	0.91	0.98	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	
5080140	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	
5080140+5080102	1.4	36	184	1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	0.98	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.7	
5080140+5080192	1.4	36	199	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.0	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.7	
5080140+5080112	1.3	36	214	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.7	0.98	1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	
5080142	1.4	36	113	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	0.88	0.95	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	
5080142+5080102	1.2	36	124	0.90	0.97	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	0.84	0.91	0.99	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	
5080142+5080192	1.1	36	139	0.89	0.96	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	0.83	0.90	0.97	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	
5080142+5080112	1.1	36	154	0.90	0.97	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	0.84	0.91	0.98	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	

\* U<sub>w</sub> has been calculated for a window with dimensions 1230\*1480mm as indicated in EN 14351-1\*\* U<sub>w</sub> has been calculated for a window with dimensions 1480\*2180mm as indicated in EN 14351-1