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Uf value table for MASTERLINE 8 HI Doors

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

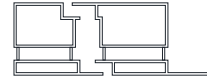
The U-values mentioned are certified by the Belgian Construction
Certification Association (BCCA) with certification number
BPCB - 420 - 72 - 10077/2 REYN - 02 dated 01/06/2006.

Hugo Reis / Joris Brusseleers
12/02/2016



Overview sections MASTERLINE 8 HI doors

Flush doors

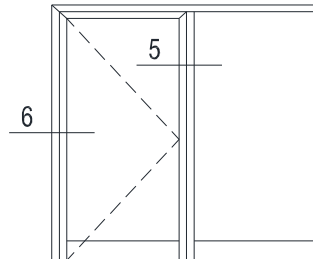
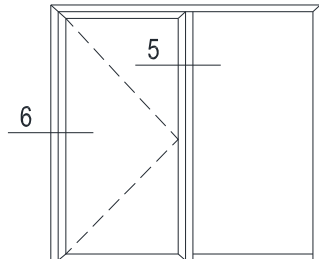


naar binnendraaiend

ouvrant vers l'intérieur

inward opening

nach innen oeffnend

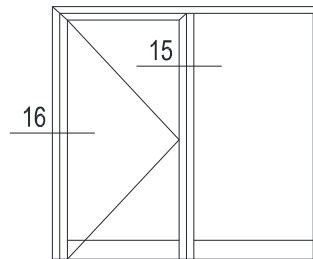
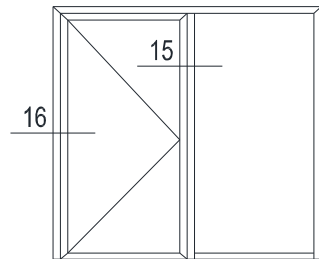


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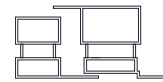
ouvrant vers l'extérieur

outward opening

nach aussen oeffnend



Window Doors

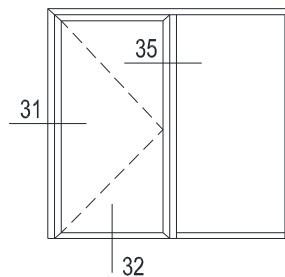
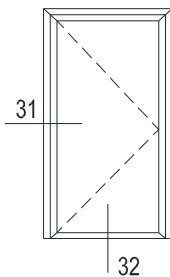


naar binnendraaiend

ouvrant vers l'intérieur

inward opening

nach innen oeffnend

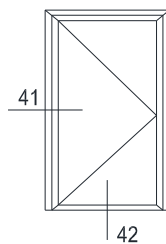


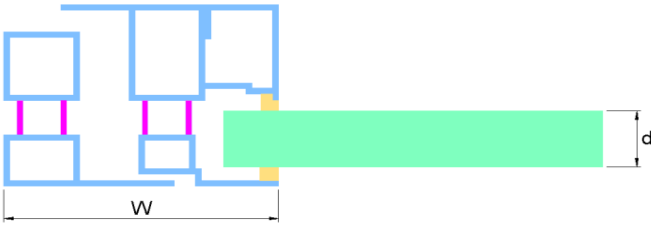
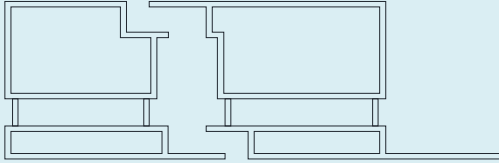
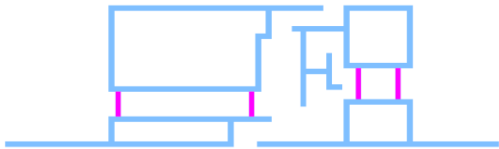
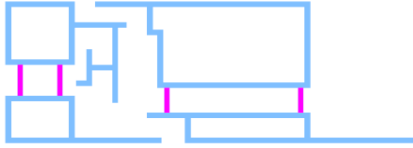
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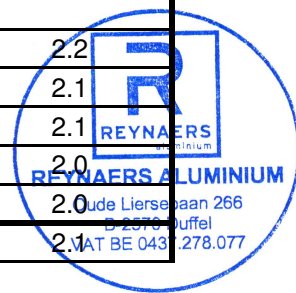
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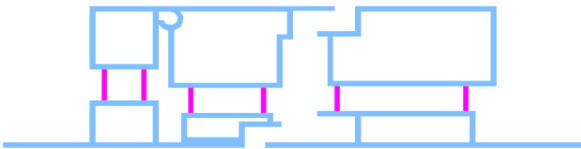
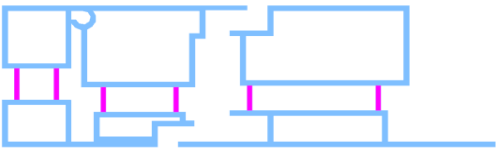
outward opening

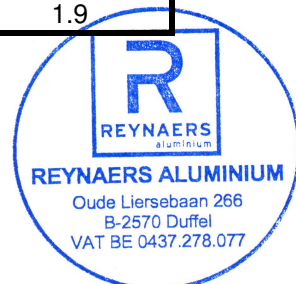
nach aussen oeffnend

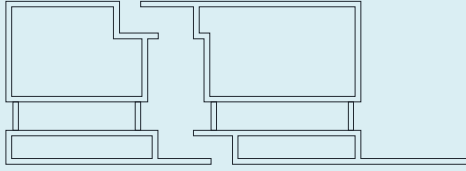
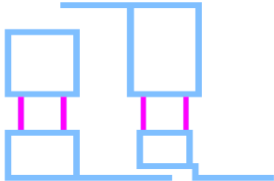
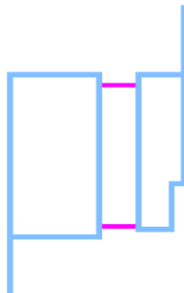
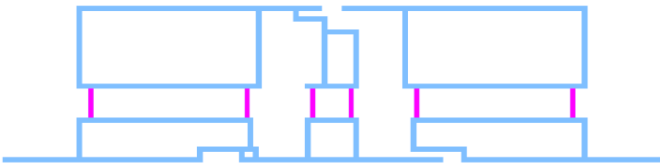


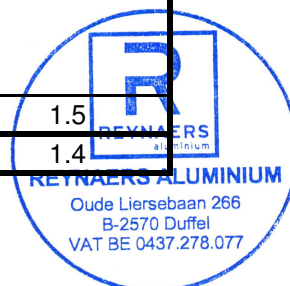
| Uf value for door combinations according to EN ISO 10077-2 (2012) | | MASTERLINE 8 | | Version of 12/02/2016 |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------|-----------|--------------------------|
| Section | Profiles | d [mm] | W [mm] | Uf [W/m ² K] |
| | | | | HI |
|  | | | | |
|  Flush Doors | | | | |
| Uf-values for other combinations than the ones indicated can be found in "Uf_tabel_CS 86-HI_doors_150331.pdf" | | | | |
| <i>Inside opening</i> | | | | |
| 5  Transom + vent | | | | |
| 5 | 4080120+4080029+1081026 | 24 | 169 | 2.1 |
| 5 | 4080165+4080029+1081026 | 24 | 179 | 2.1 |
| 5 | 4080114+4080029+1081026 | 24 | 189 | 2.0 |
| 5 | 4080123+4080029+1081026 | 24 | 209 | 2.0 |
| 5 | 4080116+4080029+1081026 | 24 | 229 | 2.0 |
| 5 | 4080110+4080029+1081026 | 24 | 179 | 2.1 |
| 5 | 4080120+4080029+1081026 | 36 | 169 | 2.0 |
| 5 | 4080165+4080029+1081026 | 36 | 179 | 2.0 |
| 5 | 4080114+4080029+1081026 | 36 | 189 | 1.9 |
| 5 | 4080123+4080029+1081026 | 36 | 209 | 2.0 |
| 5 | 4080116+4080029+1081026 | 36 | 229 | 1.9 |
| 5 | 4080110+4080029+1081026 | 36 | 179 | 2.0 |
| 6  Window frame + vent | | | | |
| 6 | 4080183+4080029+1081026 | 24 | 142 | 2.2 |
| 6 | 4080160+4080029+1081026 | 24 | 152 | 2.1 |
| 6 | 4080125+4080029+1081026 | 24 | 162 | 2.1 |
| 6 | 4080142+4080029+1081026 | 24 | 195 | 2.0 |
| 6 | 4080140+4080029+1081026 | 24 | 222 | 2.0 |
| 6 | 4080183+4080029+1081026 | 36 | 142 | 2.1 |

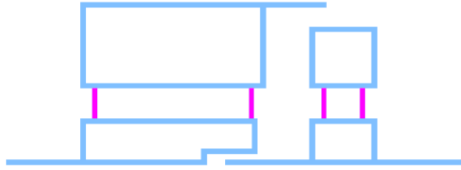
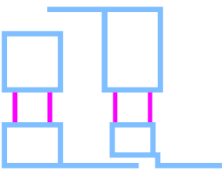
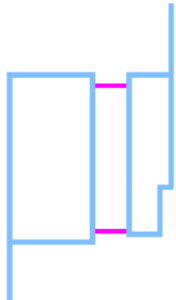


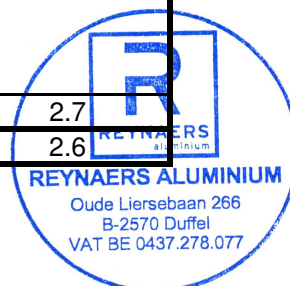
| Uf value for door combinations according to EN ISO 10077-2 (2012) | | MASTERLINE 8 | | Version of 12/02/2016 |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------|-----------|--------------------------|
| Section | Profiles | d [mm] | W [mm] | Uf [W/m ² K] |
| | | | | HI |
| 6 | 4080160+4080029+1081026 | 36 | 152 | 2.1 |
| 6 | 4080125+4080029+1081026 | 36 | 162 | 2.0 |
| 6 | 4080142+4080029+1081026 | 36 | 195 | 2.0 |
| 6 | 4080140+4080029+1081026 | 36 | 222 | 1.9 |
| <i>Outside opening</i> | | | | |
| 15 |  | Transom + vent | | |
| 15 | 4080120+4080028+1081014 | 24 | 195 | 2.0 |
| 15 | 4080165+4080028+1081014 | 24 | 205 | 2.0 |
| 15 | 4080114+4080028+1081014 | 24 | 215 | 1.9 |
| 15 | 4080123+4080028+1081014 | 24 | 235 | 2.0 |
| 15 | 4080116+4080028+1081014 | 24 | 255 | 1.9 |
| 15 | 4080110+4080028+1081014 | 24 | 205 | 2.0 |
| 15 | 4080120+4080028+1081014 | 36 | 195 | 2.0 |
| 15 | 4080165+4080028+1081014 | 36 | 205 | 1.9 |
| 15 | 4080114+4080028+1081014 | 36 | 215 | 1.9 |
| 15 | 4080123+4080028+1081014 | 36 | 235 | 1.9 |
| 15 | 4080116+4080028+1081014 | 36 | 255 | 1.9 |
| 15 | 4080110+4080028+1081014 | 36 | 205 | 1.9 |
| 16 |  | Window frame + vent | | |
| 16 | 4080183+4080028+1081014 | 24 | 168 | 2.1 |
| 16 | 4080160+4080028+1081014 | 24 | 178 | 2.0 |
| 16 | 4080125+4080028+1081014 | 24 | 188 | 2.0 |
| 16 | 4080142+4080028+1081014 | 24 | 221 | 2.0 |
| 16 | 4080140+4080028+1081014 | 24 | 248 | 1.9 |
| 16 | 4080183+4080028+1081014 | 36 | 168 | 2.1 |
| 16 | 4080160+4080028+1081014 | 36 | 178 | 2.0 |
| 16 | 4080125+4080028+1081014 | 36 | 188 | 2.0 |
| 16 | 4080142+4080028+1081014 | 36 | 221 | 1.9 |
| 16 | 4080140+4080028+1081014 | 36 | 248 | 1.9 |



| Uf value for door combinations according to EN ISO 10077-2 (2012) | | MASTERLINE 8 | | Version of 12/02/2016 |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------|-----------|--------------------------|
| Section | Profiles | d [mm] | W [mm] | Uf [W/m ² K] |
| | | | | HI |
|  Window doors | | | | |
| <i>Inside opening</i> | | | | |
| 31 |  | Outerframe + Vent | | |
| 31 | 4080136+4080112 | 24 | 127 | 1.6 |
| 31 | 4080183+4080112 | 24 | 134 | 1.5 |
| 31 | 4080160+4080112 | 24 | 144 | 1.5 |
| 31 | 4080125+4080112 | 24 | 154 | 1.5 |
| 31 | 4080136+4080112 | 36 | 127 | 1.5 |
| 31 | 4080183+4080112 | 36 | 134 | 1.4 |
| 31 | 4080160+4080112 | 36 | 144 | 1.4 |
| 31 | 4080125+4080112 | 36 | 154 | 1.4 |
| 32 |  | Bottom | | |
| 32 | 4080112+4080049 | 24 | 115 | 2.6 |
| 32 | 4080112+4080049+0080071 | 24 | 115 | 2.9 |
| 32 | 4080112+4080049+0819053 | 24 | 115 | 2.5 |
| 32 | 4080112+4080049 | 36 | 115 | 2.5 |
| 32 | 4080112+4080049+0080071 | 36 | 115 | 2.9 |
| 32 | 4080112+4080049+0819053 | 36 | 115 | 2.5 |
| 33 |  | Double casement | | |
| 33 | 4080115+4080112+4080112 | 24 | 221 | 1.5 |
| 33 | 4080115+4080112+4080112 | 36 | 221 | 1.4 |



| Uf value for door combinations according to EN ISO 10077-2 (2012) | | MASTERLINE 8 | | Version of 12/02/2016 | | | | | | | |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------|-----------|--------------------------|--|------------------------|-------------------------------------------------------------------------------------|--------------------------|-----|--|--|
| Section | Profiles | d [mm] | W [mm] | Uf [W/m ² K] | | | | | | | |
| | | | | HI | | | | | | | |
| 35 |  | Transom + Vent | | | | | | | | | |
| | | | | | | 4080113+4080112 | 24 | 154 | 1.5 | | |
| | | | | | | 4080120+4080112 | 24 | 161 | 1.5 | | |
| | | | | | | 4080165+4080112 | 24 | 171 | 1.5 | | |
| | | | | | | 4080114+4080112 | 24 | 181 | 1.5 | | |
| | | | | | | 4080123+4080112 | 24 | 201 | 1.5 | | |
| | | | | | | 4080116+4080112 | 24 | 221 | 1.5 | | |
| | | | | | | 4080113+4080112 | 36 | 154 | 1.4 | | |
| | | | | | | 4080120+4080112 | 36 | 161 | 1.4 | | |
| | | | | | | 4080165+4080112 | 36 | 171 | 1.3 | | |
| | | | | | | 4080114+4080112 | 36 | 181 | 1.3 | | |
| | | | | | | 4080123+4080112 | 36 | 201 | 1.4 | | |
| | | | | | | 4080116+4080112 | 36 | 221 | 1.4 | | |
| | | | | | | <i>Outside opening</i> | | | | | |
| | | | | | | 41 |  | Outerframe + Vent | | | |
| 4080136+4080051 | 24 | 133 | 1.9 | | | | | | | | |
| 4080183+4080051 | 24 | 140 | 1.8 | | | | | | | | |
| 4080160+4080051 | 24 | 150 | 1.8 | | | | | | | | |
| 4080125+4080051 | 24 | 160 | 2.1 | | | | | | | | |
| 4080136+4080051 | 36 | 133 | 1.8 | | | | | | | | |
| 4080183+4080051 | 36 | 140 | 1.7 | | | | | | | | |
| 4080160+4080051 | 36 | 150 | 1.7 | | | | | | | | |
| 4080125+4080051 | 36 | 160 | 1.6 | | | | | | | | |
| 42 |  | Bottom | | | | | | | | | |
| | | | | | | 4080051+4080049 | 24 | 121 | 2.7 | | |
| | | | | | | 4080051+4080049 | 36 | 121 | 2.6 | | |



| Thermal transmittance for Masterline 8-HI doors with glazing thickness 24 mm (W/m²K) | | | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------|----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ud according to EN ISO 10077-1:2006 for dimensions 1230*2180mm as indicated in EN 14351-1 | | | | | | | | | | | | | |
| Inward opening single doors | | | | | | | | | | | | | |
| Brush solution: outer frame 4080136+4080112 and bottom 4080112+4080049 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.2 | 1.2 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.1 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 |
| Brush solution: outer frame 4080136+4080112 and bottom 4080112+4080049+0080071 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.8 | 1.8 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.1 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.8 | 1.8 |
| Automatic door latch: outer frame 4080136+4080112 and bottom 4080112+4080049+0819053 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.2 | 1.2 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.1 | 1.2 | 1.2 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 |



| Thermal transmittance for Masterline 8-HI doors with glazing thickness 24 mm (W/m²K) | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------|----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ud according to EN ISO 10077-1:2006 for dimensions 2000*2180mm as indicated in EN 14351-1 | | | | | | | | | | | | | |
| Inward opening double doors | | | | | | | | | | | | | |
| Brush solution: outer frame 4080136+4080112 and bottom 4080112+4080049 meeting section 4080115+4080112+4080112 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.1 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 |
| Brush solution: outer frame 4080136+4080112 and bottom 4080112+4080049+0080071 meeting section 4080115+4080112+4080112 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.2 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 |
| Automatic door latch: outer frame 4080136+4080112 and bottom 4080112+4080049+0819053 meeting section 4080115+4080112+4080112 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.1 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 |



| Thermal transmittance for Masterline 8-HI doors with glazing thickness 24 mm (W/m ² K) | | | | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------|----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ud according to EN ISO 10077-1:2006 for dimensions 1230*2180mm as indicated in EN 14351-1 | | | | | | | | | | | | | |
| Outward opening single doors | | | | | | | | | | | | | |
| Brush solution: outer frame 4080136+4080051 and bottom 4080051+4080049 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.8 | 1.8 | 1.9 | 2.0 |
| Improved spacer | ψ= | 0.08 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.9 |
| Brush solution: outer frame 4080183+4080051 and bottom 4080051+4080049 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 |
| Brush solution: outer frame 4080160+4080051 and bottom 4080051+4080049 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 |
| Brush solution: outer frame 4080125+4080051 and bottom 4080051+4080049 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.4 | 1.5 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.9 | 2.0 | 2.0 |
| Masterline 8 HI Doors | ψ= | 0.08 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.9 | 2.0 |



| Thermal transmittance for Masterline 8-HI doors with glazing thickness 36 mm (W/m²K) | | | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------|----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ud according to EN ISO 10077-1:2006 for dimensions 1230*2180mm as indicated in EN 14351-1 | | | | | | | | | | | | | |
| Inward opening single doors | | | | | | | | | | | | | |
| Brush solution: outer frame 4080136+4080112 and bottom 4080112+4080049 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.1 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.1 | 1.2 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 |
| Brush solution: outer frame 4080136+4080112 and bottom 4080112+4080049+0080071 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.2 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.1 | 1.2 | 1.2 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 |
| Automatic door latch: outer frame 4080136+4080112 and bottom 4080112+4080049+0819053 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.1 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.1 | 1.2 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 |



| Thermal transmittance for Masterline 8-HI doors with glazing thickness 36 mm (W/m²K) | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------|----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ud according to EN ISO 10077-1:2006 for dimensions 2000*2180mm as indicated in EN 14351-1 | | | | | | | | | | | | | |
| Inward opening double doors | | | | | | | | | | | | | |
| Brush solution: outer frame 4080136+4080112 and bottom 4080112+4080049 meeting section 4080115+4080112+4080112 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.1 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 |
| Brush solution: outer frame 4080136+4080112 and bottom 4080112+4080049+0080071 meeting section 4080115+4080112+4080112 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.8 | 1.8 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.1 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 |
| Automatic door latch: outer frame 4080136+4080112 and bottom 4080112+4080049+0819053 meeting section 4080115+4080112+4080112 | | | | | | | | | | | | | |
| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| Standard spacer | ψ= | 0.11 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.1 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 |



Thermal transmittance for Masterline 8-HI doors with glazing thickness 36 mm (W/m²K)

Ud according to EN ISO 10077-1:2006 for dimensions 1230*2180mm as indicated in EN 14351-1

Outward opening single doors

Brush solution: outer frame 4080136+4080051 and bottom 4080051+4080049

| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
|-----------------|----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Standard spacer | ψ= | 0.11 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.2 | 1.2 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 |

Brush solution: outer frame 4080183+4080051 and bottom 4080051+4080049

| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
|-----------------|----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Standard spacer | ψ= | 0.11 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.2 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 |

Brush solution: outer frame 4080160+4080051 and bottom 4080051+4080049

| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
|-----------------|----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Standard spacer | ψ= | 0.11 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.9 |
| Improved spacer | ψ= | 0.08 | 1.2 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 |

Brush solution: outer frame 4080125+4080051 and bottom 4080051+4080049

| | | Ug= | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
|-----------------------|----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Standard spacer | ψ= | 0.11 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 |
| Masterline 8 HI Doors | ψ= | 0.08 | 1.2 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.7 | 1.8 |

