



















Calculation based on ISO 15099

Product name: <b>CPVC_Transom</b>		Center-of-glass properties					
ASHRAE/IECC /DOE North American Climate Zone	North, East, West - facing South-facing				Guardian 1.0" OA-CG7036#2-Arg95-CG7036#4-Arg95-Clr No Grids		
Climate specific recommendations:		Whole-window installed U-value			Ucog-Value		
		W/m2K	BTU/hr.ft2.F	SHGC	W/m2K	BTU/hr.ft2.F	
8		1.10	0.19	0.303	0.936	0.165	
7		1.10	0.19	0.303	0.943	0.166	
6		1.11	0.20	0.303	0.953	0.168	
5		1.11	0.20	0.303	0.956	0.168	
4		1.12	0.20	0.303	0.961	0.169	
Marine North		1.12	0.20	0.303	0.964	0.170	
Marine South	✓	1.13	0.20	0.303	0.969	0.171	
3		1.12	0.20	0.303	0.966	0.170	
2 West		1.13	0.20	0.303	0.971	0.171	
2 East	✓	1.13	0.20	0.303	0.971	0.171	
CPVC_Transom Premium Plus ZF-S		FRAME			Psi-spacer		Psi-opaque
		Frame height		U-frame		Ψ	
mm	in	W/m2K	BTU/hr.ft2.F	W/mK	BTU/hr.ft.F		
Head	34	1.36	1.23	0.22	0.020	0.011	0.062
Sill	34	1.36	1.23	0.22	0.020	0.011	BTU/hr.ft.F
left jamb	34	1.36	1.21	0.21	0.019	0.011	0.036
right jamb	34	1.36	1.21	0.21	0.019	0.011	Grade A+












Valid through December 2020

Calculation based on ISO 15099

Product name: <b>CPVC_Transom</b>		Center-of-glass properties						
ASHRAE/IECC /DOE North American Climate Zone	North, East, West - facing			SDL/no Internal grids < 25.4mm				
Climate specific recommendations:		Whole-window installed U-value		<u>Ucog-Value</u>				
		W/m2K	BTU/hr.ft2.F	SHGC	W/m2K	BTU/hr.ft2.F		
8		"	"	"	0.936	0.165		
7		"	"	"	0.943	0.166		
6		"	"	"	0.953	0.168		
5		"	"	"	0.956	0.168		
4	 	"	"	"	0.961	0.169		
Marine North	 	"	"	"	0.964	0.170		
Marine South	 	"	"	"	0.969	0.171		
3	 	"	"	"	0.966	0.170		
2 West	 	"	"	"	0.971	0.171		
2 East	 	"	"	"	0.971	0.171		
<b>CPVC_Transom</b> <b>Premium Plus ZF-S</b>		FRAME				Psi-spacer		Psi-opaque
		Frame height		U-frame		$\Psi$		W/mK
mm	in	W/m2K	BTU/hr.ft2.F	W/mK	BTU/hr.ft.F			
Head	34	1.36	1.23	0.22	0.020	0.011	0.062	
Sill	34	1.36	1.23	0.22	0.020	0.011	BTU/hr.ft.F	
left jamb	34	1.36	1.21	0.21	0.019	0.011	0.036	
right jamb	34	1.36	1.21	0.21	0.019	0.011	Grade A+	


















Valid through December 2020

Calculation based on ISO 15099

Product name: <b>CPVC_Transom</b>		Center-of-glass properties						
ASHRAE/IECC /DOE North American Climate Zone	North, East, West - facing South-facing			grids/SDL < 25.4mm				
Climate specific recommendations:		Whole-window installed U-value		<u>Ucog-Value</u>				
		W/m2K	BTU/hr.ft2.F	SHGC	W/m2K	BTU/hr.ft2.F		
8		"	"	"	0.936	0.165		
7		"	"	"	0.943	0.166		
6		"	"	"	0.953	0.168		
5		"	"	"	0.956	0.168		
4		"	"	"	0.961	0.169		
Marine North		"	"	"	0.964	0.170		
Marine South		"	"	"	0.969	0.171		
3		"	"	"	0.966	0.170		
2 West		"	"	"	0.971	0.171		
2 East		"	"	"	0.971	0.171		
CPVC_Transom Premium Plus ZF-S		FRAME				Psi-spacer		Psi-opaque
		Frame height		U-frame		Ψ		W/mK
mm	in	W/m2K	BTU/hr.ft2.F	W/mK	BTU/hr.ft.F	BTU/hr.ft.F		
Head	34	1.36	1.23	0.22	0.020	0.011	0.062	
Sill	34	1.36	1.23	0.22	0.020	0.011	BTU/hr.ft.F	
left jamb	34	1.36	1.21	0.21	0.019	0.011	0.036	
right jamb	34	1.36	1.21	0.21	0.019	0.011	Grade A+	


















Valid through December 2020

Calculation based on ISO 15099

Product name: <b>CPVC_Transom</b>		Center-of-glass properties					
ASHRAE/IECC /DOE North American Climate Zone	North, East, West - facing  South- facing			grids/SDL < 25.4mm			
Climate specific recommendations:		Whole-window installed U-value		<u>Ucog-Value</u>			
		W/m2K	BTU/hr.ft2.F	SHGC	W/m2K	BTU/hr.ft2.F	
8		"	"	"	0.936	0.165	
7		"	"	"	0.943	0.166	
6		"	"	"	0.953	0.168	
5		"	"	"	0.956	0.168	
4	 	"	"	"	0.961	0.169	
Marine North	 	"	"	"	0.964	0.170	
Marine South	 	"	"	"	0.969	0.171	
3	 	"	"	"	0.966	0.170	
2 West	 	"	"	"	0.971	0.171	
2 East	 	"	"	"	0.971	0.171	
CPVC_Transom Premium Plus ZF-S		FRAME		Psi-spacer		Psi-opaque	
		Frame height		U-frame		Ψ	
		mm	in	W/m2K	BTU/hr.ft2.F	W/mK	
Head		34	1.36	1.23	0.22	0.020	0.011
Sill		34	1.36	1.23	0.22	0.020	0.011
left jamb		34	1.36	1.21	0.21	0.019	0.011
right jamb		34	1.36	1.21	0.21	0.019	0.011


















Valid through December 2020

Calculation based on ISO 15099

Product name: <b>CPVC_Transom</b>		Center-of-glass properties					
ASHRAE/IECC /DOE North American Climate Zone	North, East, West - facing South-facing			SDL/no Internal grids >= 25.4mm			
Climate specific recommendations:		Whole-window installed U-value		Ucog-Value			
		W/m2K	BTU/hr.ft2.F	SHGC	W/m2K	BTU/hr.ft2.F	
8		"	"	"	0.936	0.165	
7		"	"	"	0.943	0.166	
6		"	"	"	0.953	0.168	
5		"	"	"	0.956	0.168	
4	 	"	"	"	0.961	0.169	
Marine North	 	"	"	"	0.964	0.170	
Marine South	 	"	"	"	0.969	0.171	
3	 	"	"	"	0.966	0.170	
2 West	 	"	"	"	0.971	0.171	
2 East	 	"	"	"	0.971	0.171	
CPVC_Transom Premium Plus ZF-S		FRAME		Psi-spacer		Psi-opaque	
		Frame height		U-frame		Ψ	
		mm	in	W/m2K	BTU/hr.ft2.F	W/mK	
Head		34	1.36	1.23	0.22	0.020	0.011
Sill		34	1.36	1.23	0.22	0.020	0.011
left jamb		34	1.36	1.21	0.21	0.019	0.011
right jamb		34	1.36	1.21	0.21	0.019	0.011


















Valid through December 2020

Calculation based on ISO 15099

Product name: <b>CPVC_Transom</b>		Center-of-glass properties					
ASHRAE/IECC /DOE North American Climate Zone	North, East, West - facing South-facing			grids/SDL >= 25.4mm			
<b>Climate specific recommendations:</b>		Whole-window installed U-value		<u>Ucog-Value</u>			
		W/m2K	BTU/hr.ft2.F	SHGC	W/m2K	BTU/hr.ft2.F	
8		"	"	"	0.936	0.165	
7		"	"	"	0.943	0.166	
6		"	"	"	0.953	0.168	
5		"	"	"	0.956	0.168	
4	 	"	"	"	0.961	0.169	
Marine North	 	"	"	"	0.964	0.170	
Marine South	 	"	"	"	0.969	0.171	
3	 	"	"	"	0.966	0.170	
2 West	 	"	"	"	0.971	0.171	
2 East	 	"	"	"	0.971	0.171	
<b>CPVC_Transom Premium Plus ZF-S</b>		FRAME		Psi-spacer		Psi-opaque	
		Frame height		U-frame		Ψ	W/mK
mm	in	W/m2K	BTU/hr.ft2.F	W/mK	BTU/hr.ft.F	BTU/hr.ft.F	
Head	34	1.36	1.23	0.22	0.020	0.011	0.062
Sill	34	1.36	1.23	0.22	0.020	0.011	BTU/hr.ft.F
left jamb	34	1.36	1.21	0.21	0.019	0.011	0.036
right jamb	34	1.36	1.21	0.21	0.019	0.011	Grade A+

Valid through December 2020

Calculation based on ISO 15099

Product name: <b>CPVC_Transom</b>			Center-of-glass properties					
ASHRAE/IECC /DOE North American Climate Zone	North, East, West - facing	South- facing	 <p>grids/SDL &gt;= 25.4mm</p>					
<b>Climate specific recommendations:</b>			Whole-window installed U-value		Ucog-Value			
			W/m2K	BTU/hr.ft2.F	SHGC	W/m2K	BTU/hr.ft2.F	
8			"	"	"	0.936	0.165	
7			"	"	"	0.943	0.166	
6			"	"	"	0.953	0.168	
5			"	"	"	0.956	0.168	
4			"	"	"	0.961	0.169	
Marine North			"	"	"	0.964	0.170	
Marine South			"	"	"	0.969	0.171	
3			"	"	"	0.966	0.170	
2 West			"	"	"	0.971	0.171	
2 East			"	"	"	0.971	0.171	
<b>CPVC_Transom</b>		<b>FRAME</b>		<b>Psi-spacer</b>		<b>Psi-opaque</b>		
<b>Premium Plus ZF-S</b>		Frame height		U-frame		Ψ		W/mK
		mm	in	W/m2K	BTU/hr.ft2.F	W/mK	BTU/hr.ft.F	
Head		34	1.36	1.23	0.22	0.020	0.011	0.062
Sill		34	1.36	1.23	0.22	0.020	0.011	BTU/hr.ft.F
left jamb		34	1.36	1.21	0.21	0.019	0.011	0.036
right jamb		34	1.36	1.21	0.21	0.019	0.011	Grade A+

Valid through December 2020