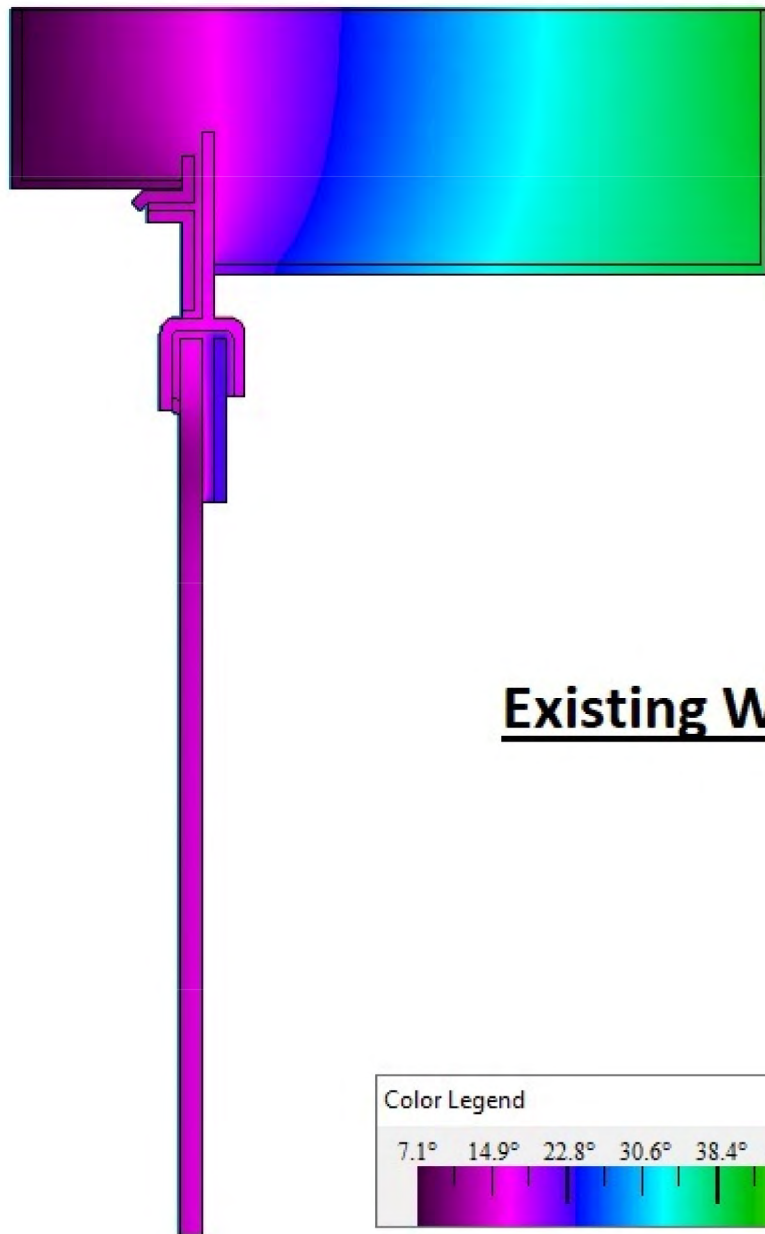




**THERM MODELING REPORTS BY THERMOLITE**  
**1-1-20**



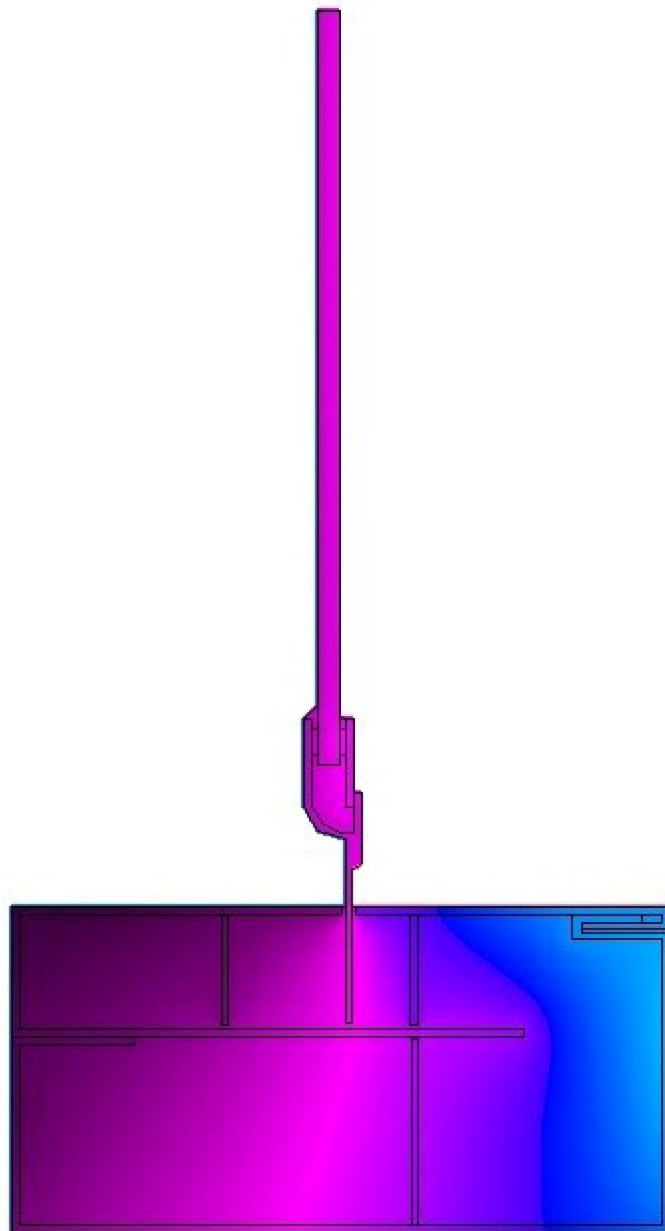
## Existing Window Head

Color Legend

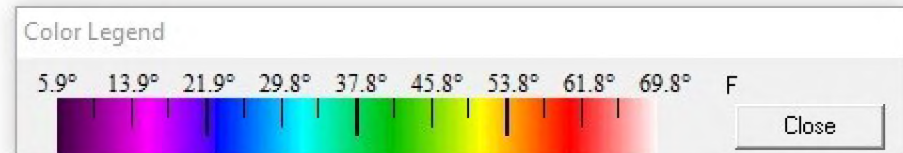
7.1° 14.9° 22.8° 30.6° 38.4° 46.3° 54.1° 62.0° 69.8° F

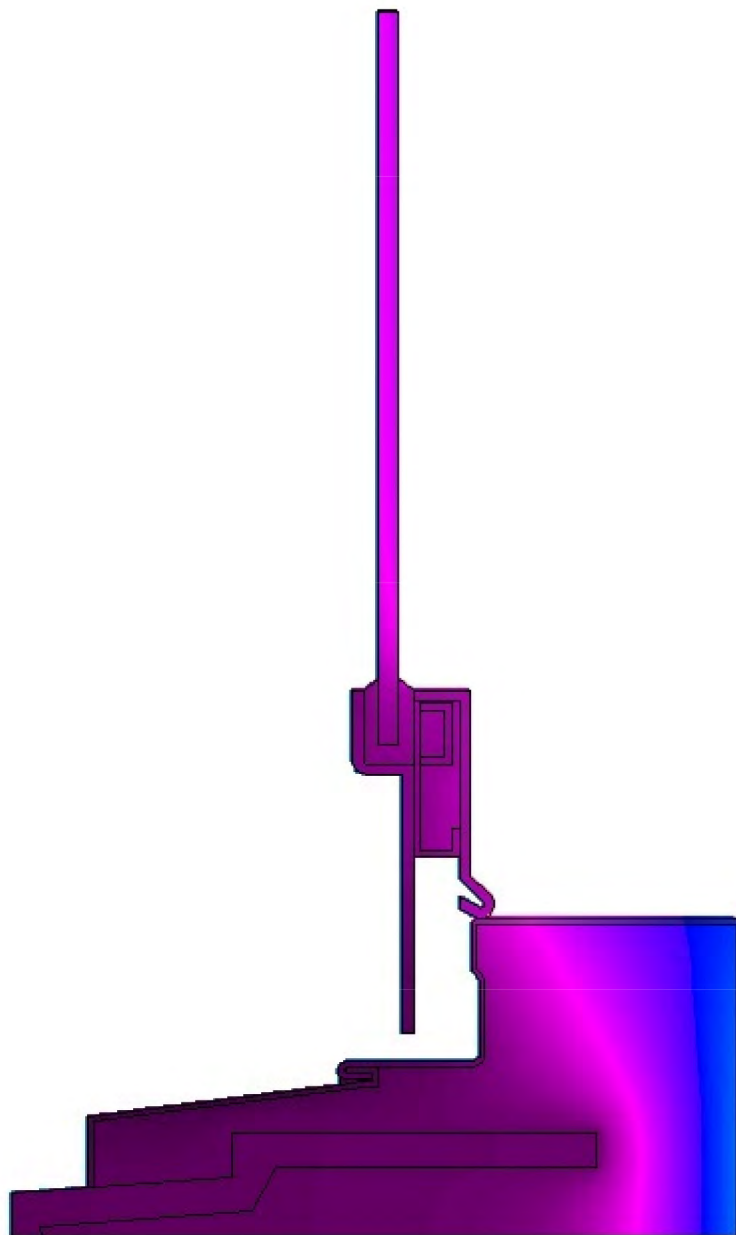


Close

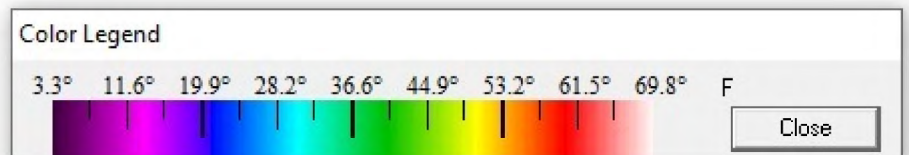


## Existing Window Jamb

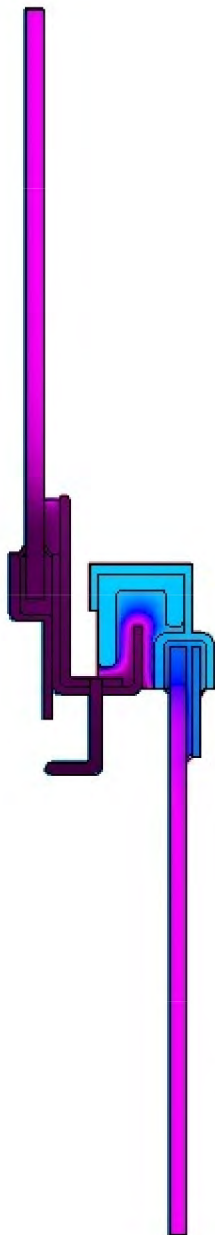




## Existing Window Sill







## Existing Window Meeting Rail

Color Legend

5.9° 13.9° 21.9° 29.8° 37.8° 45.8° 53.8° 61.8° 69.8° F



Close

ID: 68

Name: Oklahoma City exist single hung

EnvCond: 1 NFRC 100-2010

Type: Custom Dual Vision Vertical

Tilt: 90

Width: 51.0 inches

Height: 75.5 inches

Area: 26.74 ft2

U-value: 1.062 Btu/h-ft2-F

SHGC: 0.600

Vt: 0.618

CR: N/A

## Data for Glazing Systems

ID	Name	COG Area ft2	#Lay	Tilt	Uc Btu/h-ft2	SCc	SHGCc	Vtc	RHG
164	E	6.95	1	90	0.976	0.971	0.845	0.897	207
164	E	6.72	1	90	0.976	0.971	0.845	0.897	207

## Layer Data for Glazing System

ID	Name	D( ")	Tsol	1 Rsol	2 Tvis	1 Rvis	2 Tir	1 Emis	2 Keff			
Outside												
2003	Clr-5.CIG	#0.185	.812	.072	.072	.897	.080	.080	.000	.840	.840	.578
Inside												

## Frame Data

Location	ID	Name	Source	Frame Area ft2	Edge Area ft2	Uframe Btu/h-ft2-F	Uedge
Header	263	head exist.TH	Therm	1.286	0.680	1.2080	0.9775
Upper Left Jamb	257	Jamb exist.TH	Therm	1.157	0.539	1.2148	0.9738
Upper Right Jamb	257	Jamb exist.TH	Therm	1.157	0.539	1.2148	0.9738

Mullion	261	Mullion Exist Therm	0.851	1.274	1.5214	1.0075
Lower Left Jamb	257	Jamb exist.TH Therm	1.142	0.523	1.2148	0.9738
Lower Right Jamb	257	Jamb exist.TH Therm	1.142	0.523	1.2148	0.9738
Sill	258	Sill exist.TH Therm	1.573	0.680	1.2200	0.9898

Gas Data

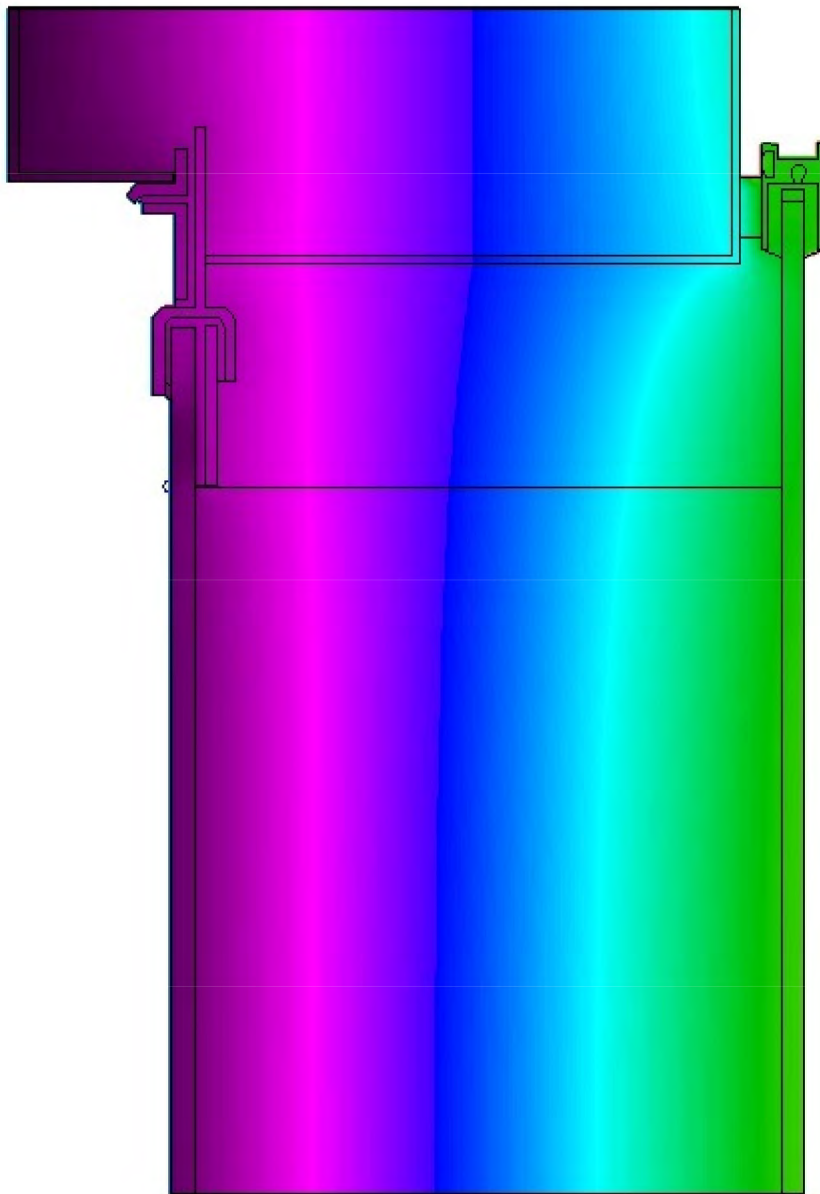
ID	Name	Type	Cond	Visc	Cp	Dens	Pran
x e-6							

No gas data for Single Glazing

	Tout (F)	Tin (F)	WndSpd (mph)	Wnd Dir	Solar (Btu/h-ft2)	Tsky (F)	Esky (F)
Uvalue	-0.4	69.8	12.30	Windward	0.0	-0.4	1.00
Solar	89.6	75.2	6.15	Windward	248.2	89.6	1.00

Frame Library Data

ID	Name	Source	U-value		Edge	GlzSys	GlzSys	Width	Abs
			Frame	Edge	Corr	Width	Uc	(PFD)	
263	head exist.TH	Therm	1.2080	0.9775	N/A	0.185	1.031	4.00	0.30
257	Jamb exist.TH	Therm	1.2148	0.9738	N/A	0.185	1.031	4.66	0.30
261	Mullion Exist	Therm	1.5214	1.0075	N/A	0.185	1.031	2.94	0.30
258	Sill exist.TH	Therm	1.2200	0.9898	N/A	0.185	1.031	4.89	0.30



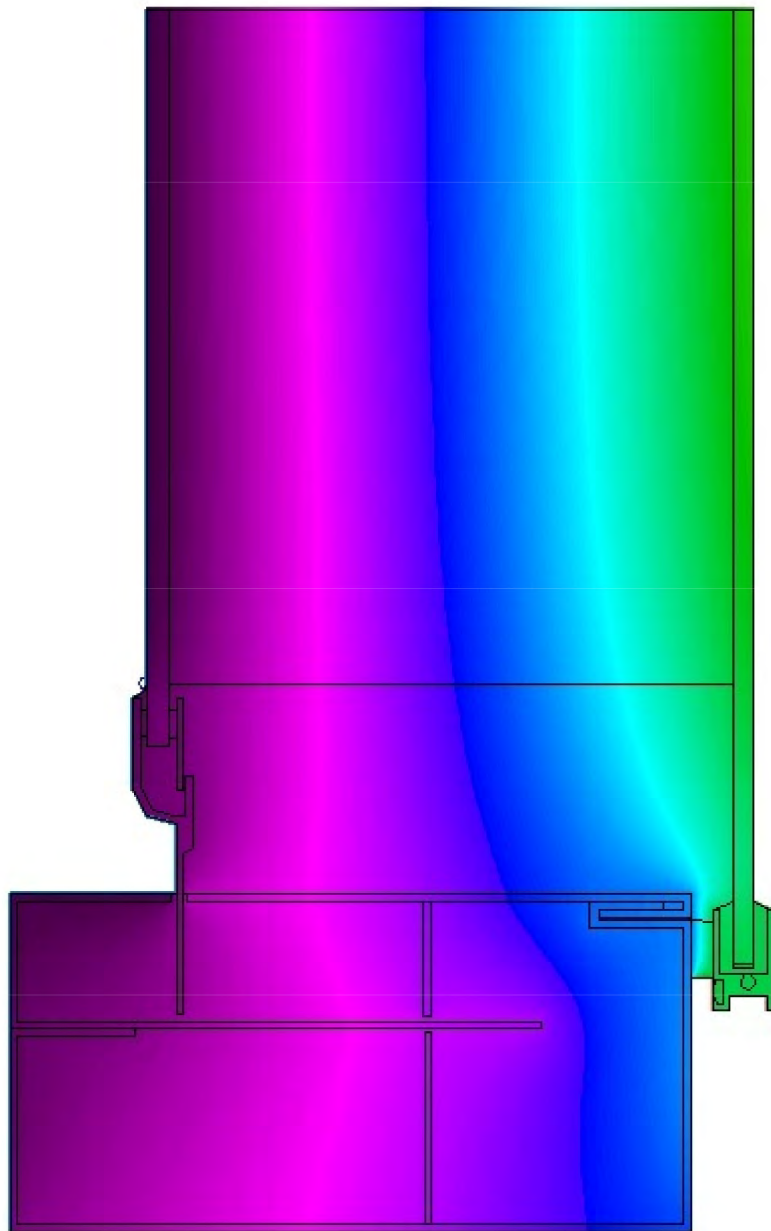
**Existing Window Head**  
**+ Thermolite Flush Mount**

Color Legend

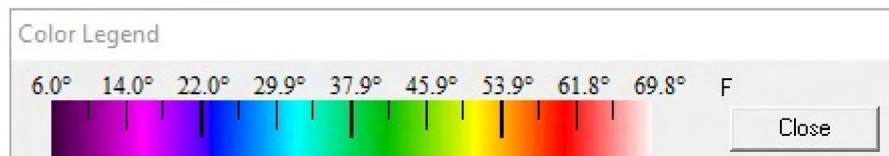
4.1° 12.4° 20.6° 28.8° 37.0° 45.2° 53.4° 61.6° 69.8° F

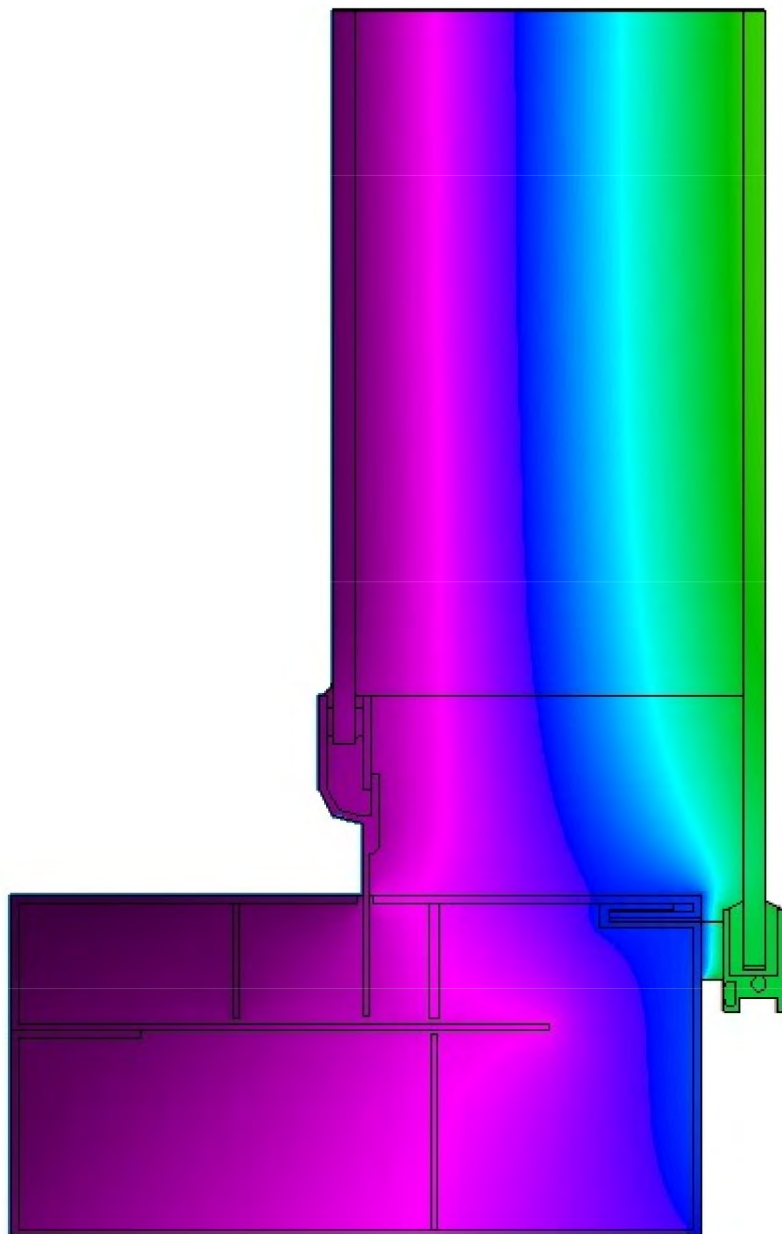


Close

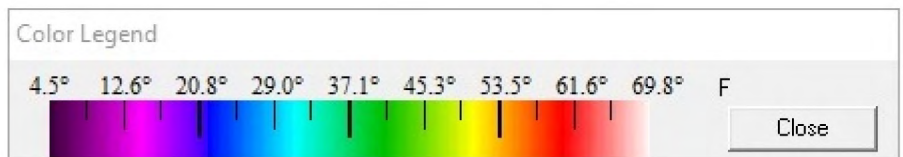


**Existing Window Jamb - upper**  
**+ Thermolite Flush Mount**

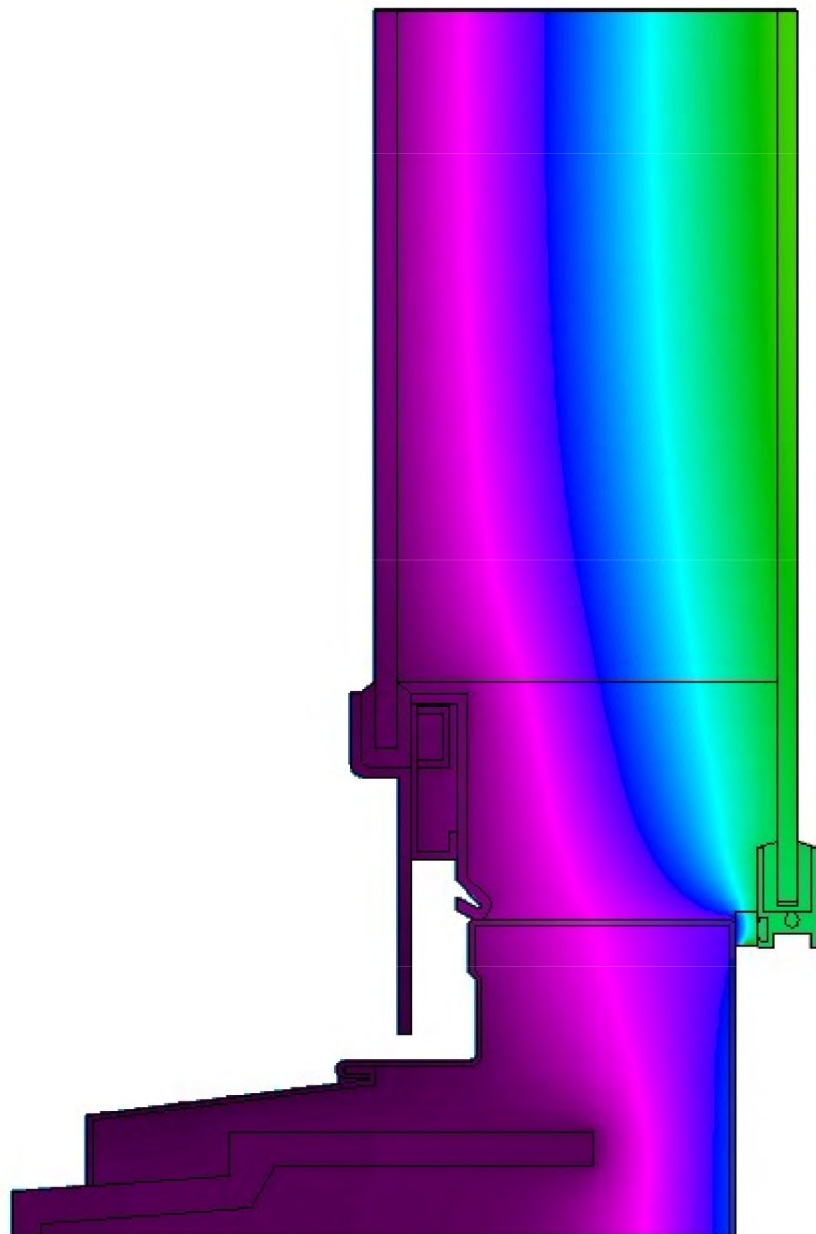




**Existing Window Jamb - lower**  
**+ Thermolite Flush mount**







**Existing Window Sill**  
**+ Thermolite Flush mount**

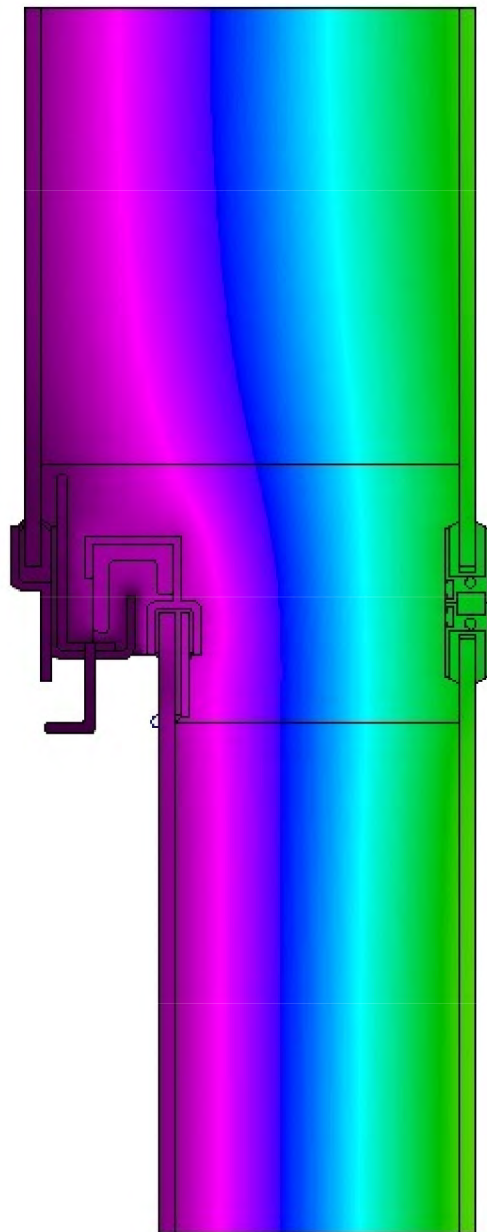
Color Legend

-15.9° -11.3° -6.7° -2.1° 2.5° 7.1° 11.8° 16.4° 21.0° F

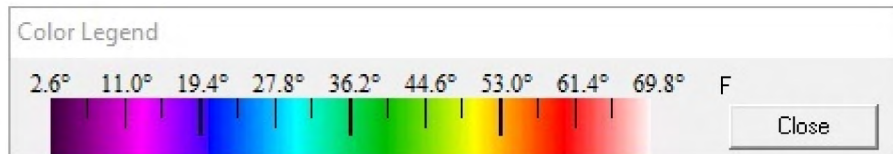


Close





**Existing Window Meeting Rail**  
**+ Thermolite Flush Mount**



ID: 67

Name: Split flush mount

EnvCond: 1 NFRC 100-2010

Type: Custom Dual Vision Vertical

Tilt: 90

Width: 51.0 inches

Height: 75.5 inches

Area: 26.74 ft2

U-value: 0.566 Btu/h-ft2-F

SHGC: 0.598

Vt: 0.647

CR: N/A

## Data for Glazing Systems

ID	Name	COG Area ft2	#Lay	Tilt	Uc Btu/h-ft2	SCc	SHGCc	Vtc	RHG
167		8.31	2	90	0.476	0.853	0.742	0.810	177
166		7.92	2	90	0.476	0.853	0.742	0.810	177

## Layer Data for Glazing System

Exist+ split flush top'

ID	Name	D( ")	Tsol	1 Rsol	2 Tvis	1 Rvis	2 Tir	1 Emis	2 Keff	
-----										
Outside										
2003	Clr-5.CIG	#0.185	.812	.072	.072	.897	.080	.080	.000	.840 .840 .578
	1 Air	4.940								.399
2003	Clr-5.CIG	#0.185	.812	.072	.072	.897	.080	.080	.000	.840 .840 .578
Inside										

## Layer Data for Glazing System

Exist+ flush mount'

ID	Name	D( " )	Tsol	1 Rsol	2 Tvis	1 Rvis	2 Tir	1 Emis	2 Keff	
-----										
Outside										
2003	Clr-5.CIG	#0.185	.812	.072	.072	.897	.080	.080	.000	.840 .840 .578
	1 Air	3.360								.271
2003	Clr-5.CIG	#0.185	.812	.072	.072	.897	.080	.080	.000	.840 .840 .578
Inside										

## Frame Data

Location	ID	Name	Source	Frame Area ft2	Edge Area ft2	Uframe Btu/h-ft2-F	Uedge
-----	----	-----	-----	-----	-----	-----	-----
Header	250	head flush mo	Therm	0.693	0.742	0.8287	0.5292
Upper Left Jamb	251	Jamb flush mo	Therm	0.735	0.581	0.9076	0.5554
Upper Right Jamb	251	Jamb flush mo	Therm	0.735	0.581	0.9076	0.5554
Mullion	262	Mullion Exist	Therm	0.594	1.397	0.6378	0.5134
Lower Left Jamb	252	Jamb flush mo	Therm	0.720	0.557	0.9518	0.5506
Lower Right Jamb	252	Jamb flush mo	Therm	0.720	0.557	0.9518	0.5506
Sill	254	Sill flush mo	Therm	1.162	0.742	0.8433	0.5509

## Gas Data

ID	Name	Type	Cond	Visc	Cp	Dens	Pran
x e-6							
-----	-----	-----	-----	-----	-----	-----	-----
1	Air	Pure	0.0139	11.57	0.24	0.0807	0.7197

## Environmental Conditions: 1 NFRC 100-2010

	Tout (F)	Tin (F)	WndSpd (mph)	Wnd Dir	Solar (Btu/h-ft2)	Tsky (F)	Esky
-----	-----	-----	-----	-----	-----	-----	-----
Uvalue	-0.4	69.8	12.30	Windward	0.0	-0.4	1.00
Solar	89.6	75.2	6.15	Windward	248.2	89.6	1.00

## Frame Library Data

U-value      Edge GlzSys GlzSys Width