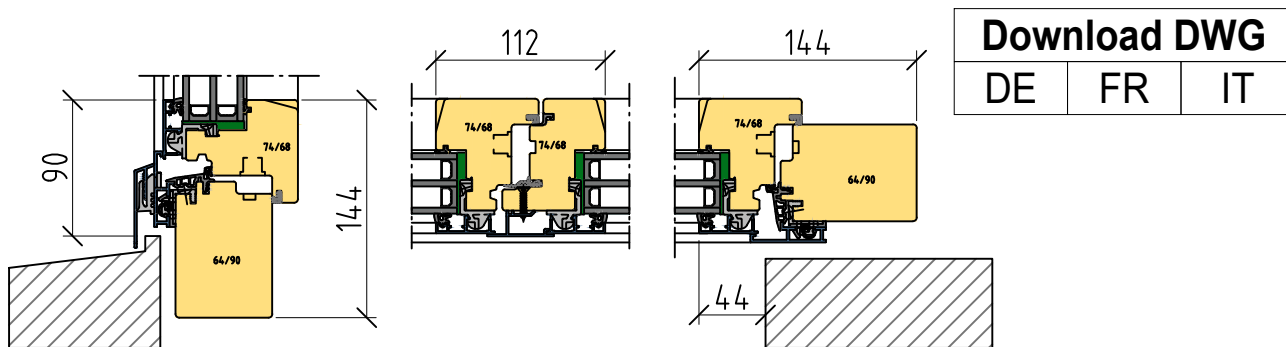


Valore d'isolazione U, windura classic SK FV, legno 64 mm

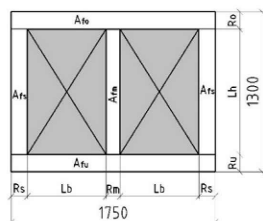


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DE FR IT

1. Valore U del telaio della finestra U_f

(misura cruda 1.75m x 1.3m)

Dettaglio	Larghezza
superiore	144 mm
laterale	144 mm
centro	112 mm
inferiore	144 mm

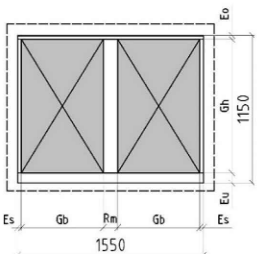


Tipi di legno (conducibilità termica)			
Abete termico	Abete rosso	Larice, pino	Quercia
0.09 W/mK	0.11 W/mK	0.13 W/mK	0.18 W/mK

2. Valore U della finestra U_w

(finestra montate, dimensioni
cavità in muratura: 1.55m x 1.15m)

Dettaglio	vista telaio
superiore	44 mm
laterale	44 mm
inferiore	90 mm



	Valore U_f della telaio [W/m ² K]			
superiore	1.134	1.290	1.433	1.747
laterale	1.134	1.290	1.433	1.747
centro	1.111	1.233	1.347	1.603
inferiore	1.140	1.296	1.440	1.756

Valore U_f media del telaio della finestra [W/m ² K]				
	1.133	1.285	1.424	1.732

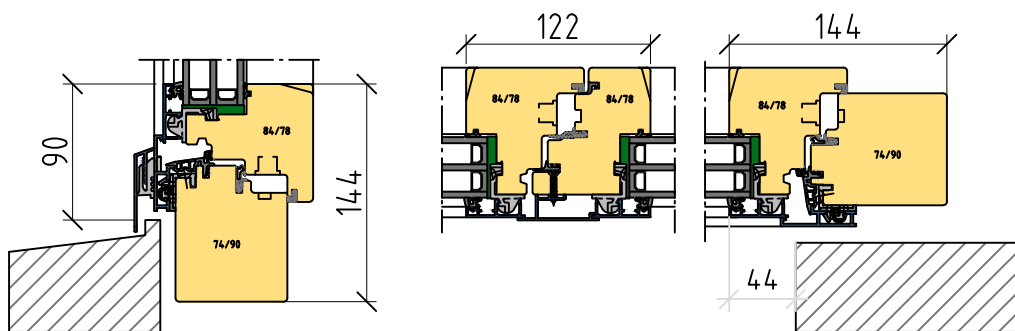
	Distanziatore in vetro	Valore Psi	Valore U_w [W/m ² K]			
$U_g = 0.7$ W/m²K	Acciaio inossidabile	0.060	1.0	1.1	1.1	1.2
	ACS+ / Thermix TX pro (Fa. Ensinger)	0.042	0.96	0.99	1.0	1.1
	TGI Spacer M (Fa. Technoform)	0.042	0.96	0.99	1.0	1.1
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.91	0.95	0.98	1.1
	Multitech G (Fa. Rolltech)	0.029	0.91	0.94	0.98	1.0
$U_g = 0.6$ W/m²K	Acciaio inossidabile	0.060	0.95	0.99	1.0	1.1
	ACS+ / Thermix TX pro (Fa. Ensinger)	0.042	0.88	0.92	0.95	1.0
	TGI Spacer M (Fa. Technoform)	0.042	0.88	0.92	0.95	1.0
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.84	0.87	0.90	0.97
	Multitech G (Fa. Rolltech)	0.029	0.83	0.87	0.90	0.97
$U_g = 0.5$ W/m²K	Acciaio inossidabile	0.060	0.87	0.91	0.94	1.0
	ACS+ / Thermix TX pro (Fa. Ensinger)	0.042	0.81	0.84	0.87	0.94
	TGI Spacer M (Fa. Technoform)	0.042	0.81	0.84	0.87	0.94
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.76	0.79	0.83	0.90
	Multitech G (Fa. Rolltech)	0.029	0.76	0.79	0.82	0.89
$U_g = 0.4$ W/m²K	Acciaio inossidabile	0.060	0.80	0.83	0.86	0.93
	ACS+ / Thermix TX pro (Fa. Ensinger)	0.042	0.73	0.76	0.80	0.87
	TGI Spacer M (Fa. Technoform)	0.042	0.73	0.76	0.80	0.87
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.68	0.72	0.75	0.82
	Multitech G (Fa. Rolltech)	0.029	0.68	0.71	0.75	0.82

Valore limite	$U_w \leq 1.0$ W/m ² K
Valore limite	$U_w \leq 0.80$ W/m ² K

Calcolo Valore U_f secondo EN ISO 10077-2:2012

Calcolo valore U_w secondo reglement Minergie 2021

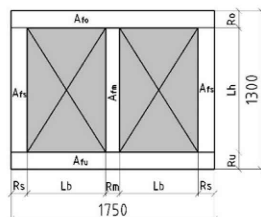
Valore d'isolazione U, windura classic SK FV, legno 74 mm



1. Valore U del telaio della finestra Uf

(misura cruda 1.75m x 1.3m)

Dettaglio	Larghezza
superiore	144 mm
laterale	144 mm
centro	122 mm
inferiore	144 mm

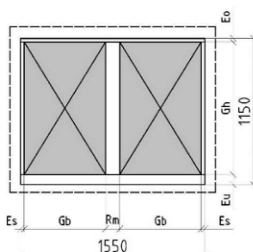


Tipi di legno (conduttività termica)			
Abete termico	Abete rosso	Larice, pino	Quercia
0.09 W/mK	0.11 W/mK	0.13 W/mK	0.18 W/mK

2. Valore U della finestra Uw

(finestra montate, dimensioni
cavità in muratura: 1.55m x 1.15m)

Dettaglio	vista telaio
superiore	44 mm
laterale	44 mm
inferiore	90 mm



	Valore Uf della telaio [W/m²K]			
superiore	1.020	1.164	1.298	1.594
laterale	1.020	1.164	1.298	1.594
centro	1.032	1.154	1.275	1.539
inferiore	1.026	1.171	1.306	1.607

Valore Uf media del telaio della finestra [W/m²K]			
1.023	1.165	1.297	1.590

	Distanziatore in vetro	Valore Psi	Valore Uw [W/m²K]			
Ug = 0.7 W/m2K	Acciaio inossidabile	0.060	1.0	1.0	1.1	1.1
	ACS+ / Thermix TX pro (Fa. Ensinger)	0.042	0.94	0.97	1.0	1.1
	TGI Spacer M (Fa. Technoform)	0.042	0.94	0.97	1.0	1.1
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.89	0.92	0.95	1.0
	Multitech G (Fa. Rolltech)	0.029	0.89	0.92	0.95	1.0
Ug = 0.6 W/m2K	Acciaio inossidabile	0.060	0.93	0.96	0.99	1.1
	ACS+ / Thermix TX pro (Fa. Ensinger)	0.042	0.86	0.89	0.92	0.99
	TGI Spacer M (Fa. Technoform)	0.042	0.86	0.89	0.92	0.99
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.81	0.85	0.88	0.95
	Multitech G (Fa. Rolltech)	0.029	0.81	0.84	0.87	0.94
Ug = 0.5 W/m2K	Acciaio inossidabile	0.060	0.85	0.88	0.92	0.98
	ACS+ / Thermix TX pro (Fa. Ensinger)	0.042	0.78	0.82	0.85	0.92
	TGI Spacer M (Fa. Technoform)	0.042	0.78	0.82	0.85	0.92
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.74	0.77	0.80	0.87
	Multitech G (Fa. Rolltech)	0.029	0.73	0.77	0.80	0.87
Ug = 0.4 W/m2K	Acciaio inossidabile	0.060	0.77	0.81	0.84	0.91
	ACS+ / Thermix TX pro (Fa. Ensinger)	0.042	0.71	0.74	0.77	0.84
	TGI Spacer M (Fa. Technoform)	0.042	0.71	0.74	0.77	0.84
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.66	0.69	0.73	0.79
	Multitech G (Fa. Rolltech)	0.029	0.66	0.69	0.72	0.79

Valore limite Uw ≤ 1.0 W/m2K

Valore limite Uw ≤ 0.80 W/m²K

Calcolo Valore Uf secondo EN ISO 10077-2:2012

Calcolo valore Uw secondo reglement Minergie 2021

Valore d'isolazione U, telaio/ anta 68mm

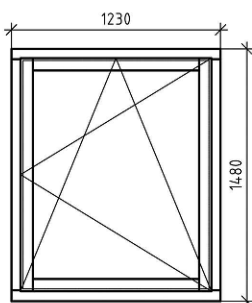


1. Valore U del telaio della finestra U_f

(misura cruda: 1.23m x 1.48m)

Dettaglio	Larghezza
superiore	122 mm
laterale	122 mm
inferiore	122 mm

Aw	1.82 m ²
Superficie in vetro	1.219 m ²
Larghezza Psi	4.444 m



superiore
laterale
inferiore

Tipi di legno (conducibilità termica)

Abete	Larice, pino	Quercia
0.11 W/mK	0.13 W/mK	0.18 W/mK

Valore U_f della telaio [W/m²K]

superiore	1.278	1.405	1.680
laterale	1.278	1.405	1.680
inferiore	1.323	1.460	1.760

Valore U_f media del telaio della finestra [W/m²K]

1.289	1.419	1.700
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	Distanziatore in vetro	Valore Psi	Valore U _w [W/m ² K]		
U_g = 0.7 W/m²K	Acciaio inossidabile	0.060	1.0	1.1	1.2
	ACS+ / Themix TX pro (Fa. Ensinger)	0.042	1.0	1.0	1.1
	TGI Spacer M (Fa. Technoform)	0.042	1.0	1.0	1.1
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.97	1.0	1.1
	Multitech G (Fa. Rolltech)	0.029	0.97	1.0	1.1
U_g = 0.6 W/m²K	Acciaio inossidabile	0.060	0.97	1.0	1.1
	ACS+ / Themix TX pro (Fa. Ensinger)	0.042	0.93	0.97	1.1
	TGI Spacer M (Fa. Technoform)	0.042	0.93	0.97	1.1
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.90	0.94	1.0
	Multitech G (Fa. Rolltech)	0.029	0.90	0.94	1.0
U_g = 0.5 W/m²K	Acciaio inossidabile	0.060	0.91	0.95	1.0
	ACS+ / Themix TX pro (Fa. Ensinger)	0.042	0.86	0.91	1.0
	TGI Spacer M (Fa. Technoform)	0.042	0.86	0.91	1.0
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.83	0.88	0.97
	Multitech G (Fa. Rolltech)	0.029	0.83	0.87	0.97
U_g = 0.4 W/m²K	Acciaio inossidabile	0.060	0.84	0.88	0.98
	ACS+ / Themix TX pro (Fa. Ensinger)	0.042	0.80	0.84	0.93
	TGI Spacer M (Fa. Technoform)	0.042	0.80	0.84	0.93
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.77	0.81	0.90
	Multitech G (Fa. Rolltech)	0.029	0.76	0.81	0.90

Valore limite KfW Uw ≤ 0.95 W/m²K

Valore limite Uw ≤ 0.80 W/m²K

Calcolo Valore U_f secondo EN ISO 10077-2:2017

Calcolo Valore U_w secondo EN ISO 10077-2:2017

Valore d'isolazione U, telaio/ anta 78mm

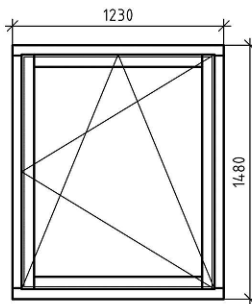


1. Valore U del telaio della finestra Uf

(misura cruda: 1.23m x 1.48m)

Dettaglio	Larghezza
superiore	132 mm
laterale	132 mm
inferiore	132 mm

Aw	1.82 m ²
Superficie in vetro	1.175 m ²
Larghezza Psi	4.364 m



Tipi di legno (conducibilità termica)		
Abete	Larice, pino	Quercia
0.11 W/mK	0.13 W/mK	0.18 W/mK

Valore U _f della telaio [W/m ² K]			
superiore	1.139	1.255	1.504
laterale	1.139	1.255	1.504
inferiore	1.238	1.371	1.664

Valore U _f media del telaio della finestra [W/m ² K]		
1.164	1.284	1.544

	Distanziatore in vetro	Valore Psi	Valore U _w [W/m ² K]		
U _g = 0.7 W/m ² K	Acciaio inossidabile	0.060	1.0	1.1	1.1
	ACS+ / Thermix TX pro (Fa. Ensinger)	0.042	0.97	1.0	1.1
	TGI Spacer M (Fa. Technoform)	0.042	0.97	1.0	1.1
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.94	0.98	1.1
	Multitech G (Fa. Rolltech)	0.029	0.93	0.98	1.1
U _g = 0.6 W/m ² K	Acciaio inossidabile	0.060	0.94	0.99	1.1
	ACS+ / Thermix TX pro (Fa. Ensinger)	0.042	0.90	0.94	1.0
	TGI Spacer M (Fa. Technoform)	0.042	0.90	0.94	1.0
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.87	0.91	1.0
	Multitech G (Fa. Rolltech)	0.029	0.87	0.91	1.0
U _g = 0.5 W/m ² K	Acciaio inossidabile	0.060	0.88	0.92	1.0
	ACS+ / Thermix TX pro (Fa. Ensinger)	0.042	0.84	0.88	0.97
	TGI Spacer M (Fa. Technoform)	0.042	0.84	0.88	0.97
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.81	0.85	0.94
	Multitech G (Fa. Rolltech)	0.029	0.81	0.85	0.94
U _g = 0.4 W/m ² K	Acciaio inossidabile	0.060	0.81	0.86	0.95
	ACS+ / Thermix TX pro (Fa. Ensinger)	0.042	0.77	0.81	0.91
	TGI Spacer M (Fa. Technoform)	0.042	0.77	0.81	0.91
	ACSplus / ECO-Spacer Super Spacer TriSeal	0.030	0.74	0.79	0.88
	Multitech G (Fa. Rolltech)	0.029	0.74	0.78	0.88

Valore limite KfW Uw ≤ 0.95 W/m²K

Valore limite Uw ≤ 0.80 W/m²K

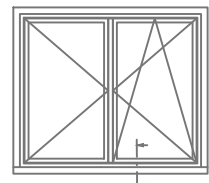
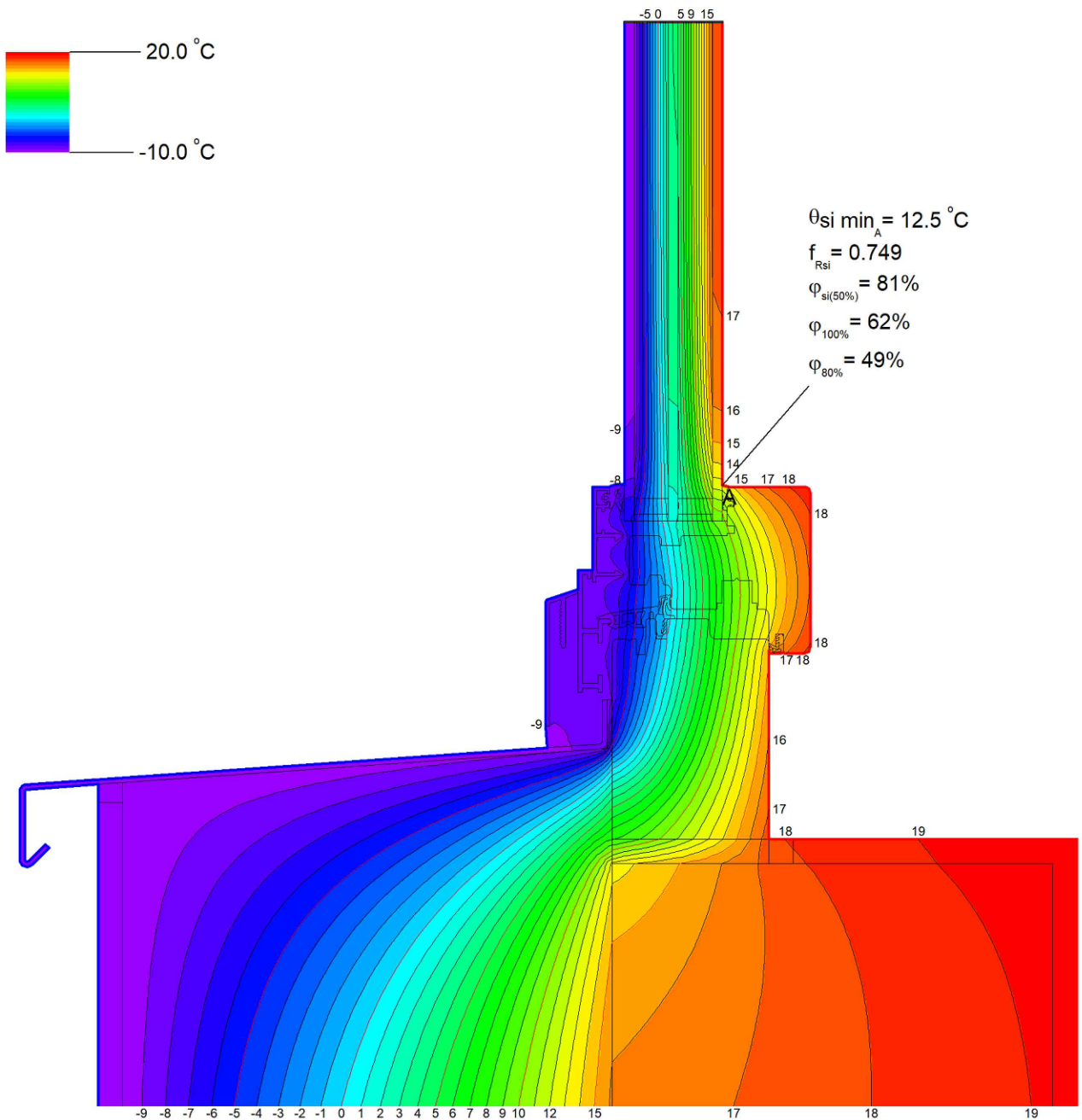
Calcolo Valore U_f secondo EN ISO 10077-2:2017

Calcolo Valore U_w secondo EN ISO 10077-2:2017

Curva isoterma, anta - raccordo inferiore, facciata compatta

Vetro 4/14/4/14/4, $U_g = 0.7 \text{ W/m}^2 \text{ K}$,
 Temperatura Esterno -10°C ,

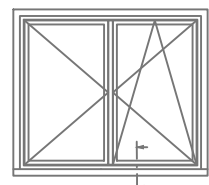
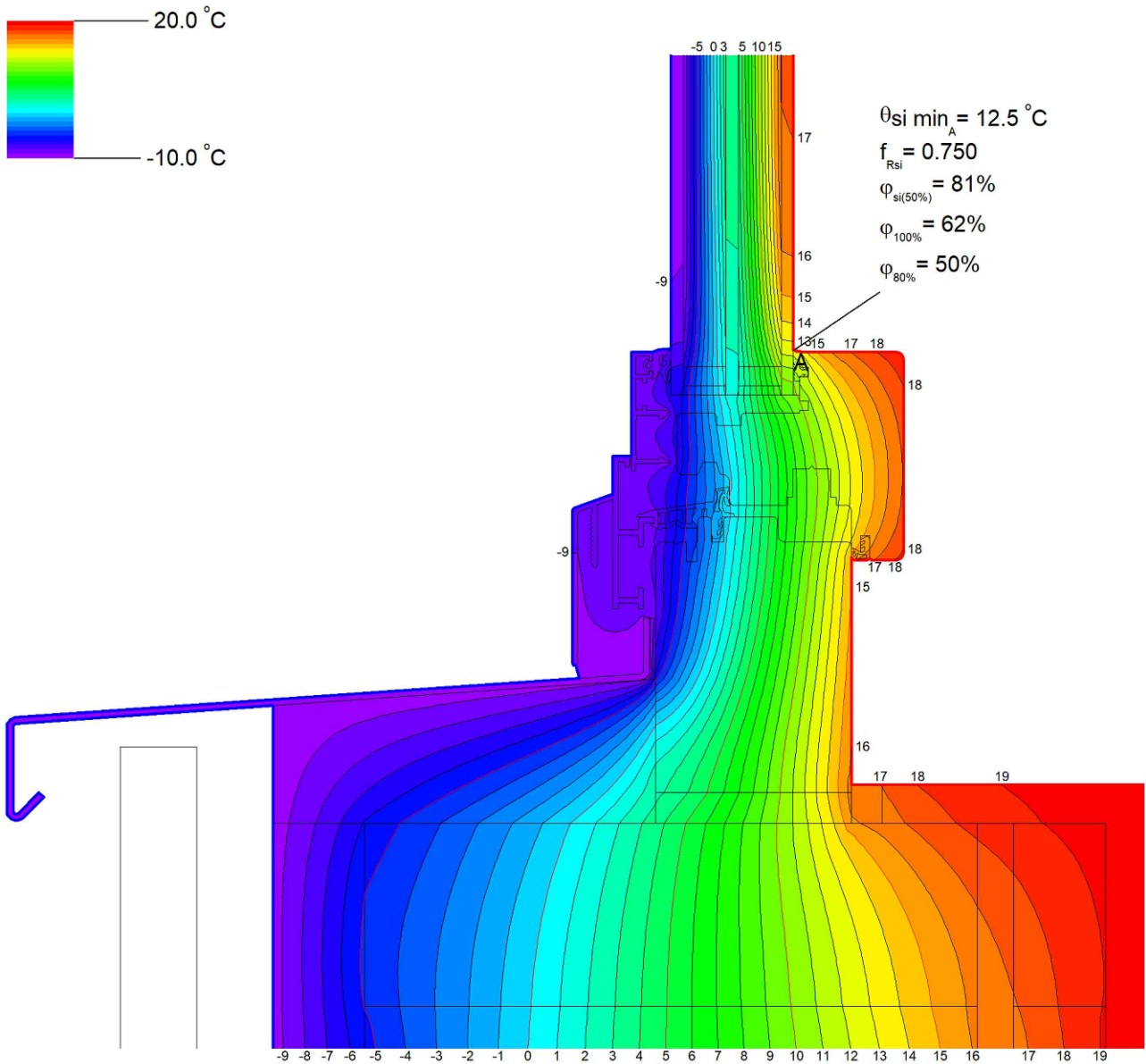
Intercapedine Super Spacer TriSeal
 Interno $+20^\circ\text{C}$



Curva isoterma, anta - raccordo inferiore, facciata in legno

Vetro 4/14/4/14/4, $U_g = 0.7 \text{ W/m}^2 \text{ K}$,
 Temperatura Esterno -10°C ,

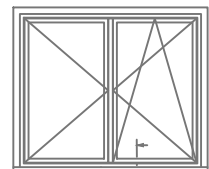
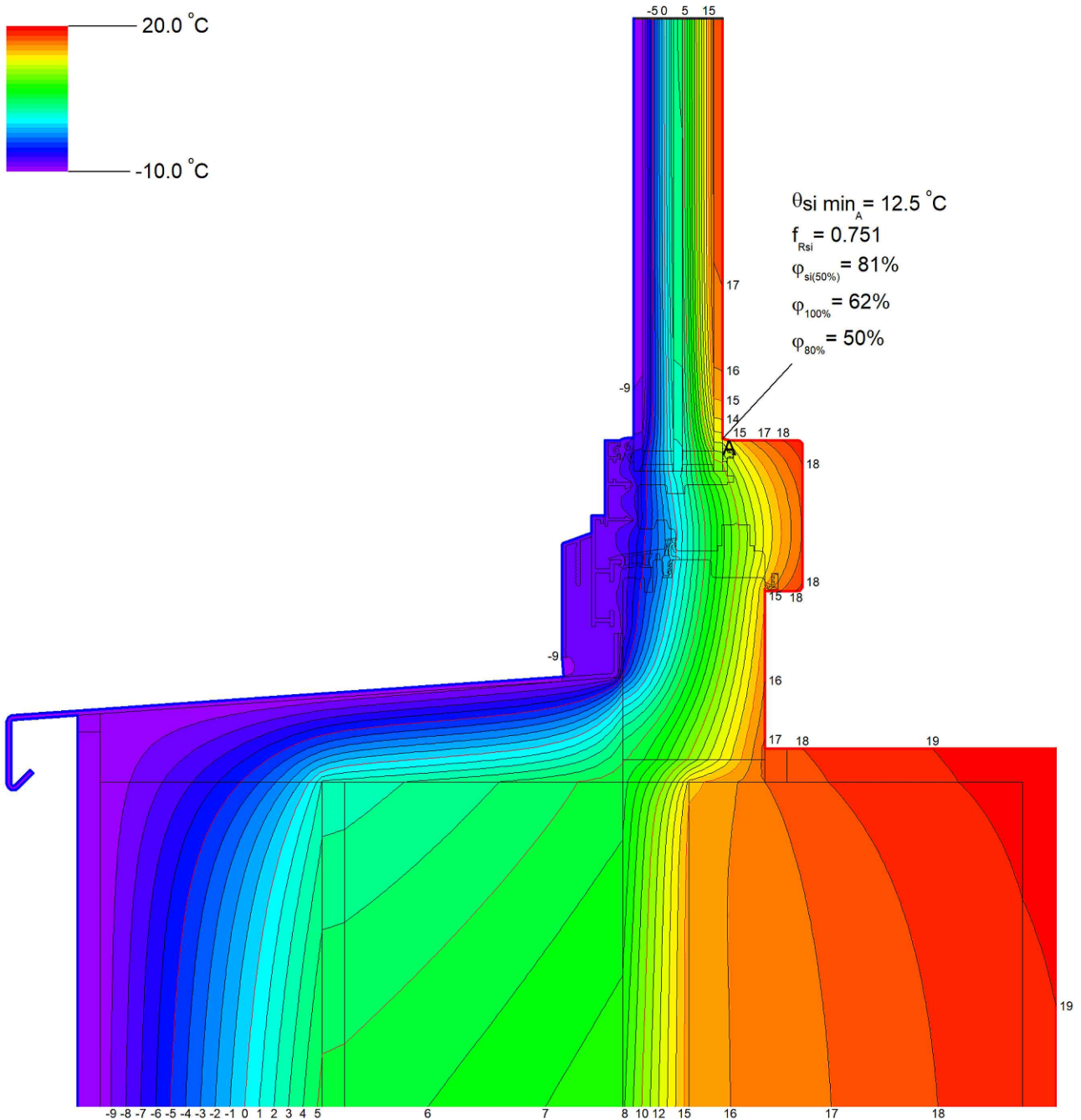
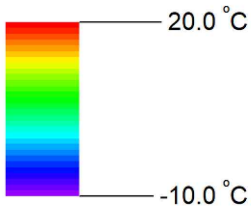
Intercapedine Super Spacer TriSeal
 Interno $+20^\circ\text{C}$



Curva isoterma, anta - raccordo inferiore, vecchia facciata

Vetro 4/14/4/14/4, $U_g = 0.7 \text{ W/m}^2 \text{ K}$,
 Temperatura Esterno -10°C ,

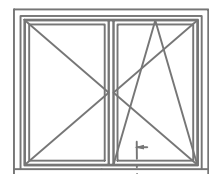
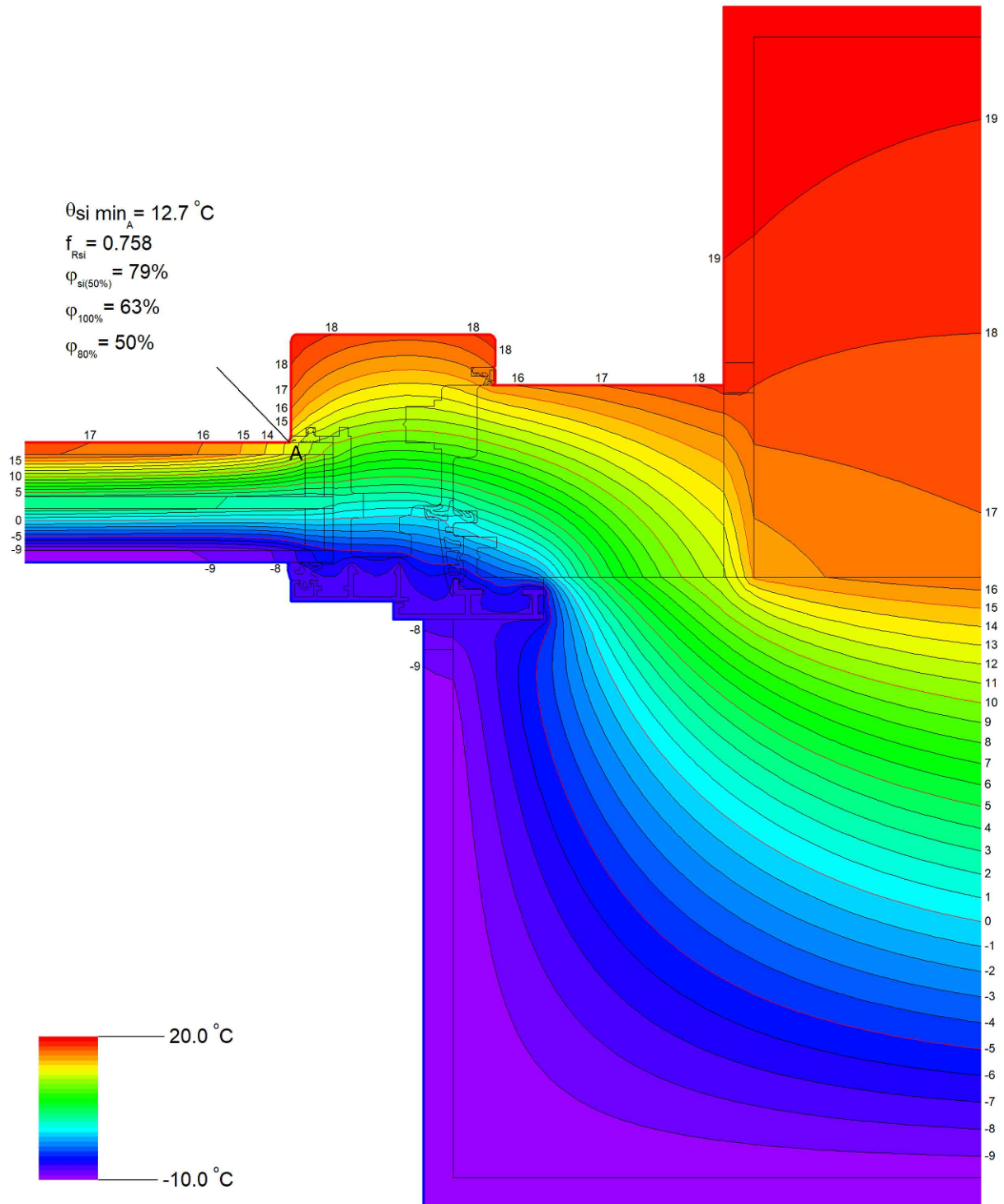
Intercapedine Super Spacer TriSeal
 Interno $+20^\circ\text{C}$



Curva isoterma, anta - raccordo laterale, facciata compatta

Vetro 4/14/4/14/4, $U_g = 0.7 \text{ W/m}^2 \text{ K}$,
 Temperatura Esterno -10°C ,

Intercapedine Super Spacer TriSeal
 Interno $+20^\circ\text{C}$



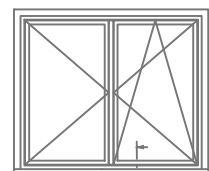
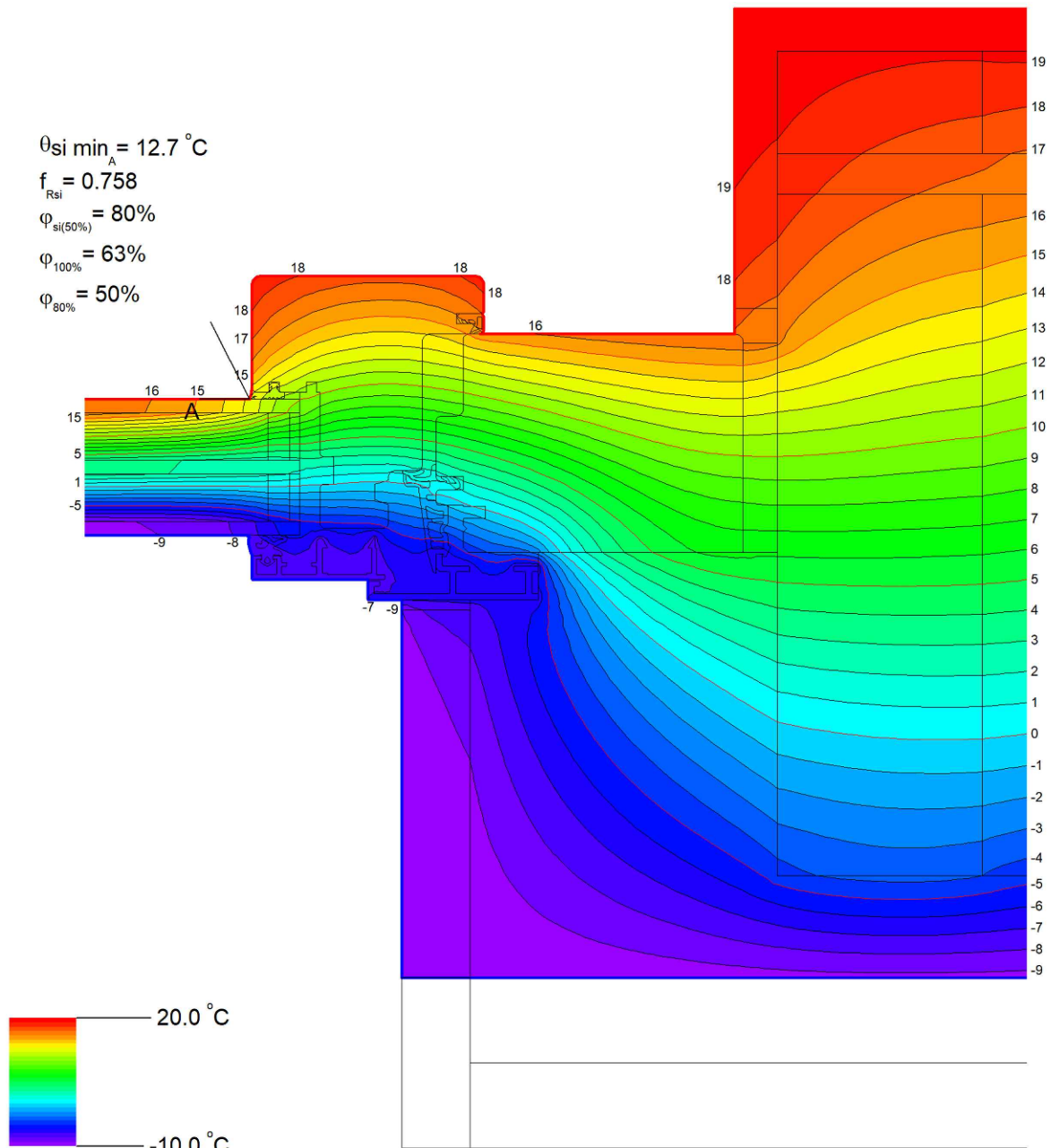
windura classic 1:1
 18.03.2025 sav
 H126410 B A 8

Curva isoterma, anta - raccordo laterale, facciata in legno

Vetro 4/14/4/14/4, $U_g = 0.7 \text{ W/m}^2 \text{ K}$,
 Temperatura Esterno -10°C ,

Intercapedine Super Spacer TriSeal
 Interno $+20^\circ\text{C}$

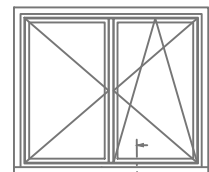
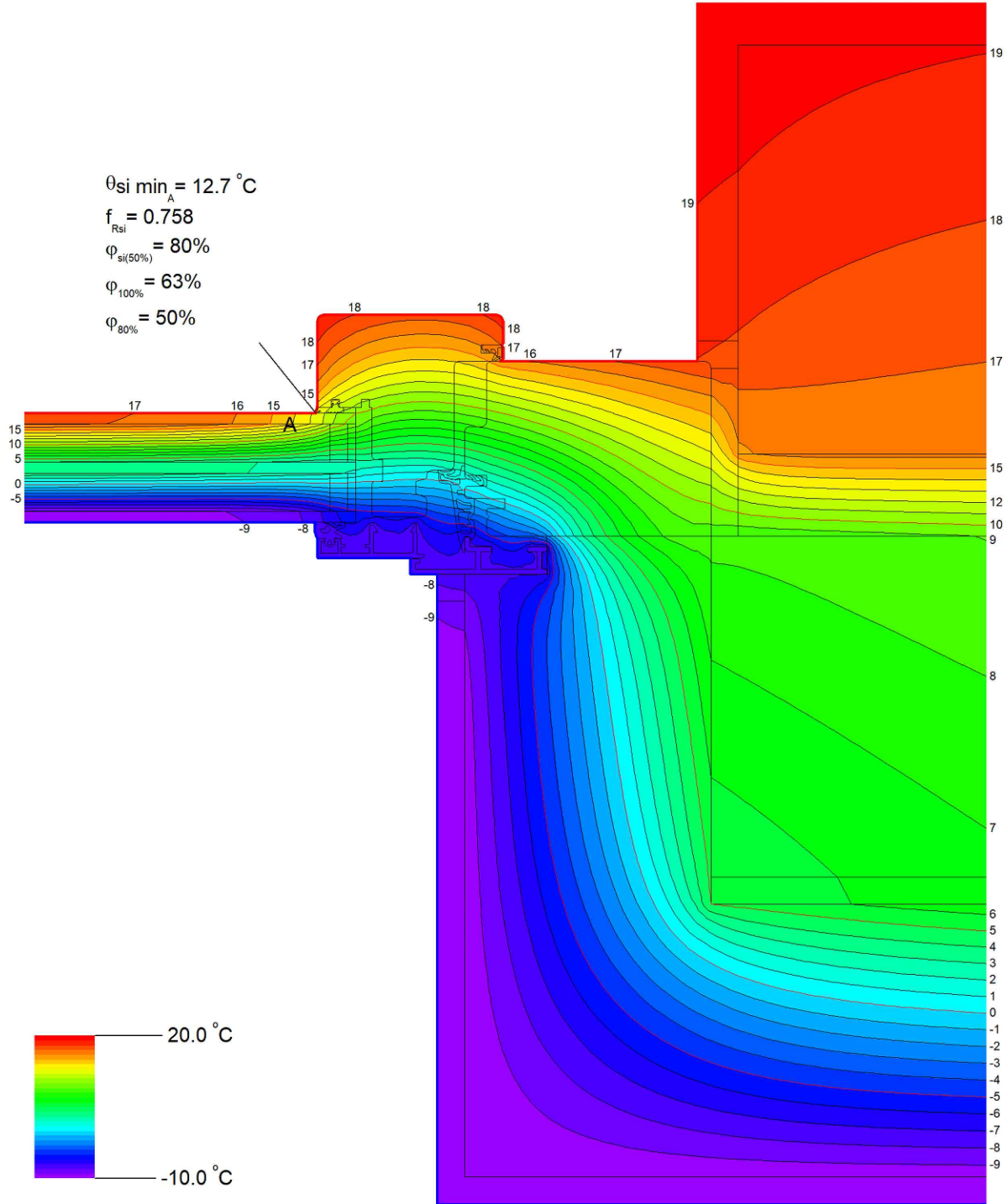
$\theta_{si \text{ min}} = 12.7^\circ\text{C}$
 $f_{Rsi} = 0.758$
 $\varphi_{si(50\%)} = 80\%$
 $\varphi_{100\%} = 63\%$
 $\varphi_{80\%} = 50\%$



Curva isoterma, anta - raccordo laterale, vecchia facciata

Vetro 4/14/4/14/4, $U_g = 0.7 \text{ W/m}^2 \text{ K}$,
 Temperatura Esterno -10°C ,

Intercapedine Super Spacer TriSeal
 Interno $+20^\circ\text{C}$



windura classic 1:1
 18.03.2025 sav
 H126410 B C 8

Curva isoterma, angolo esterno 64mm

Vetro 4/12/4/12/4, $U_g = 0.7 \text{ W/m}^2 \text{ K}$,
 Temperatura Esterno -10°C ,

Intercapedine Super Spacer TriSeal
 Interno $+20^\circ\text{C}$

