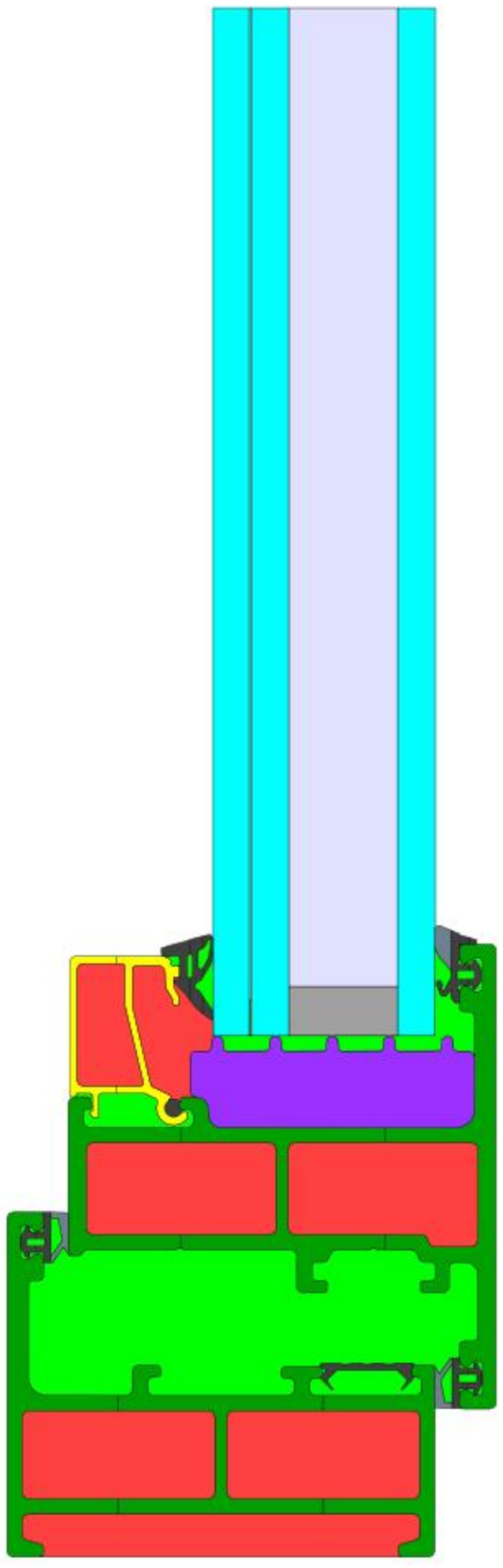
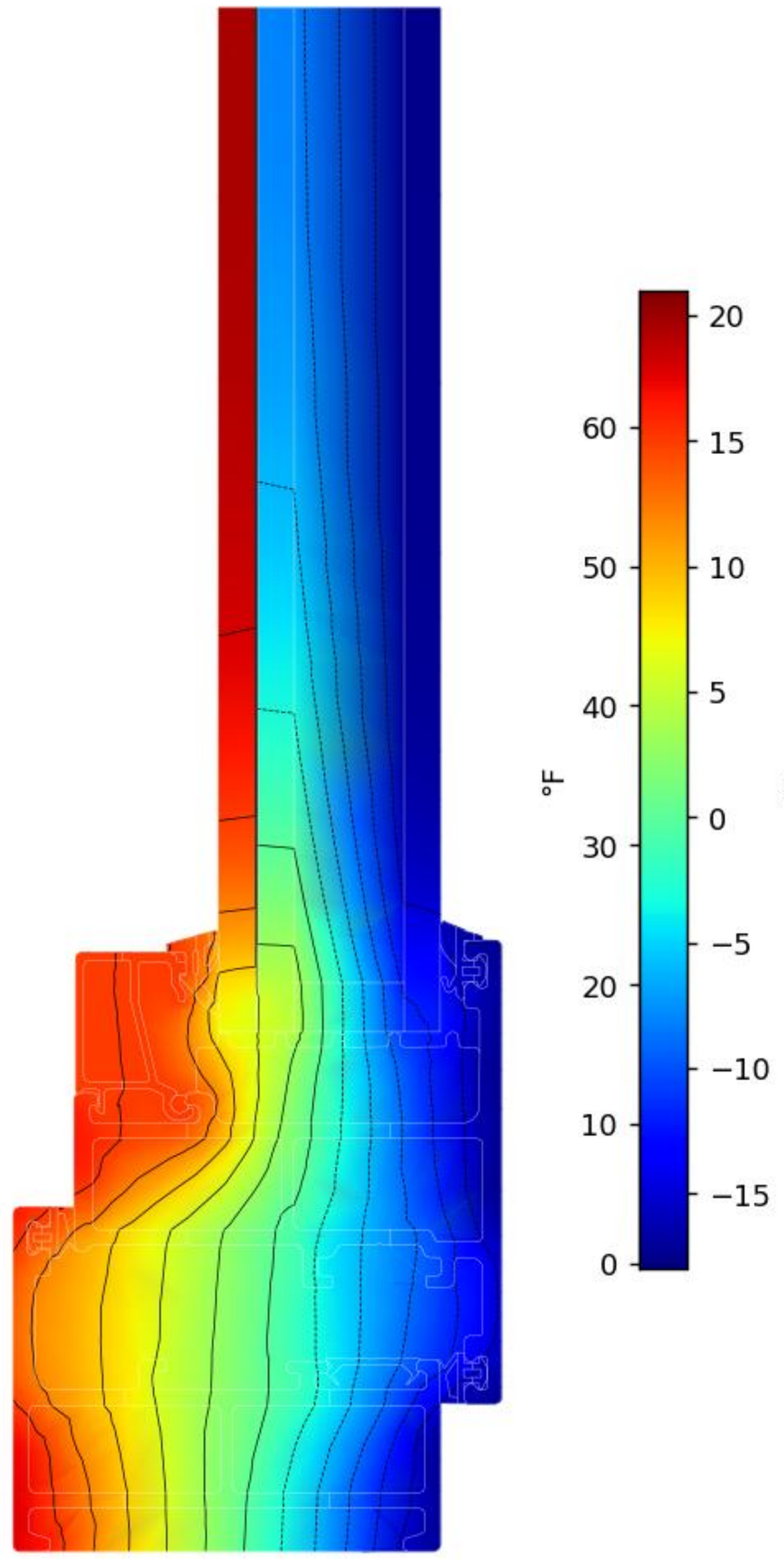
GR70 casement · Sill | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.302 W/m²K over 100.7 mm | Edge U 0.745 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole window at 600 x 1500 mm: KØLD 04 0.143 Btu/h·ft²·°F (R-7.0) · MILD 04 0.142 Btu/h·ft²·°F (R-7.0) · HEIT 04 0.142 Btu/h·ft²·°F (R-7.0)

Section and components



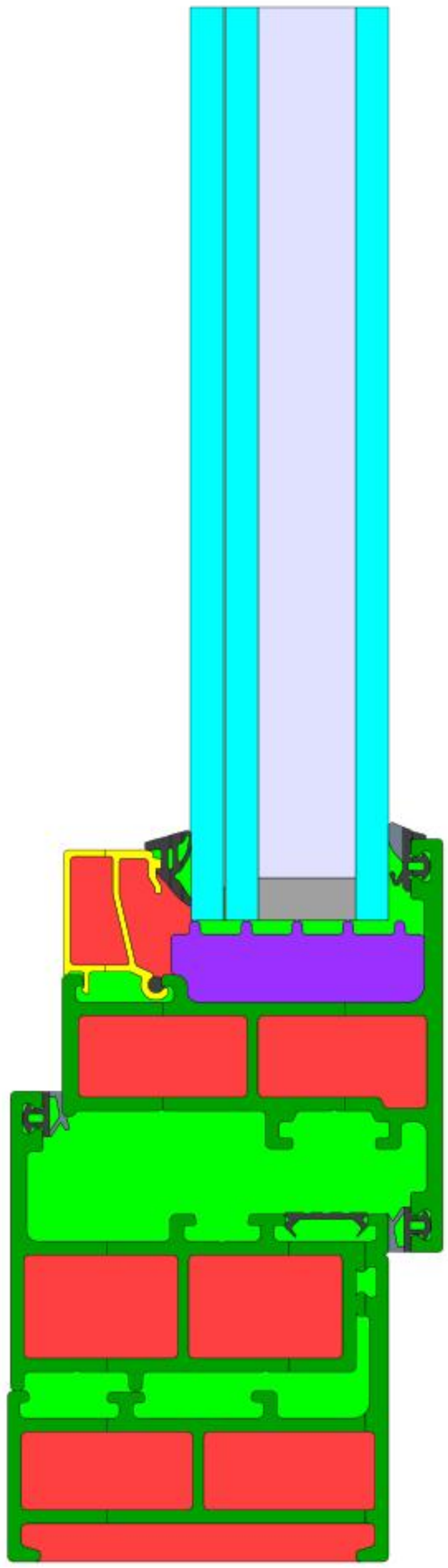
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



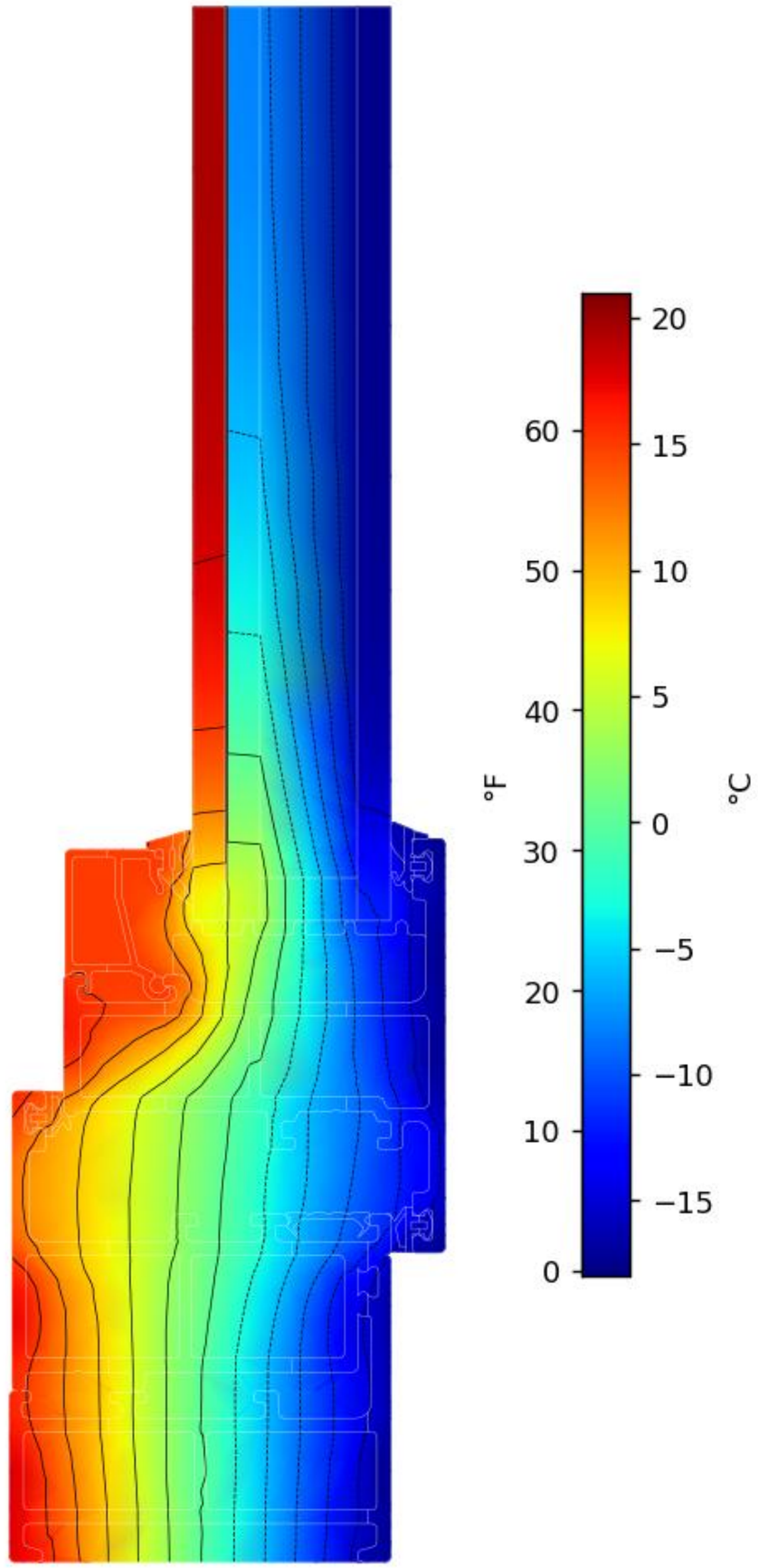
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- PU foam (standard insert), k 0.024 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR70 casement, tall frame · Sill | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.215 W/m²K over 133.4 mm | Edge U 0.747 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole window at 600 x 1500 mm: KØLD 04 0.155 Btu/h·ft²·°F (R-6.5) · MILD 04 0.154 Btu/h·ft²·°F (R-6.5) · HEIT 04 0.154 Btu/h·ft²·°F (R-6.5)

Section and components



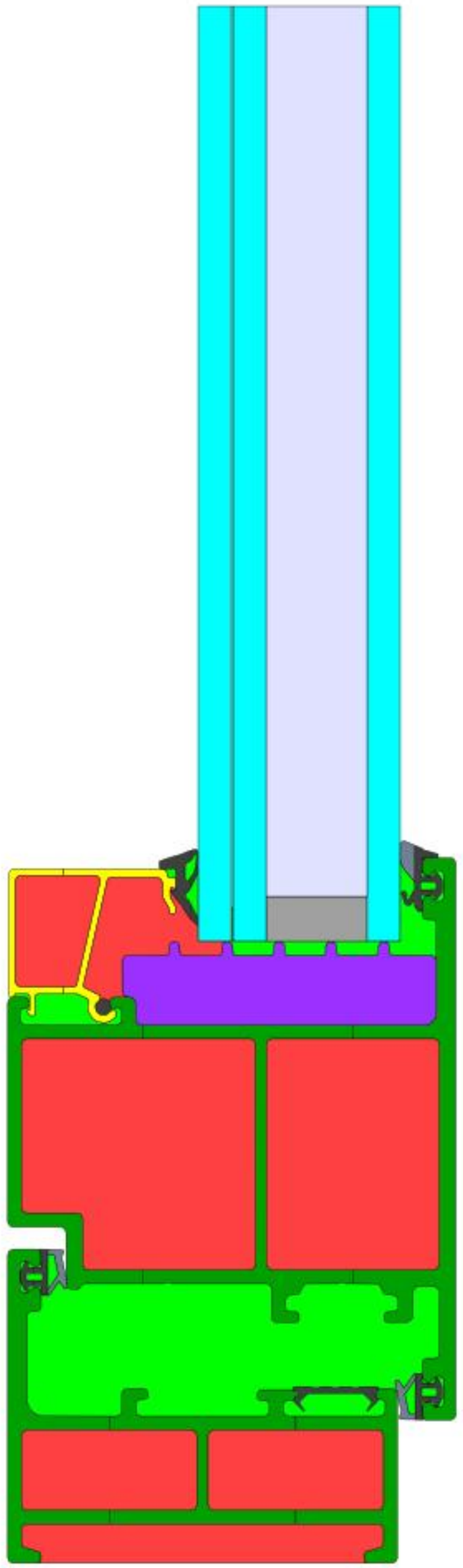
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



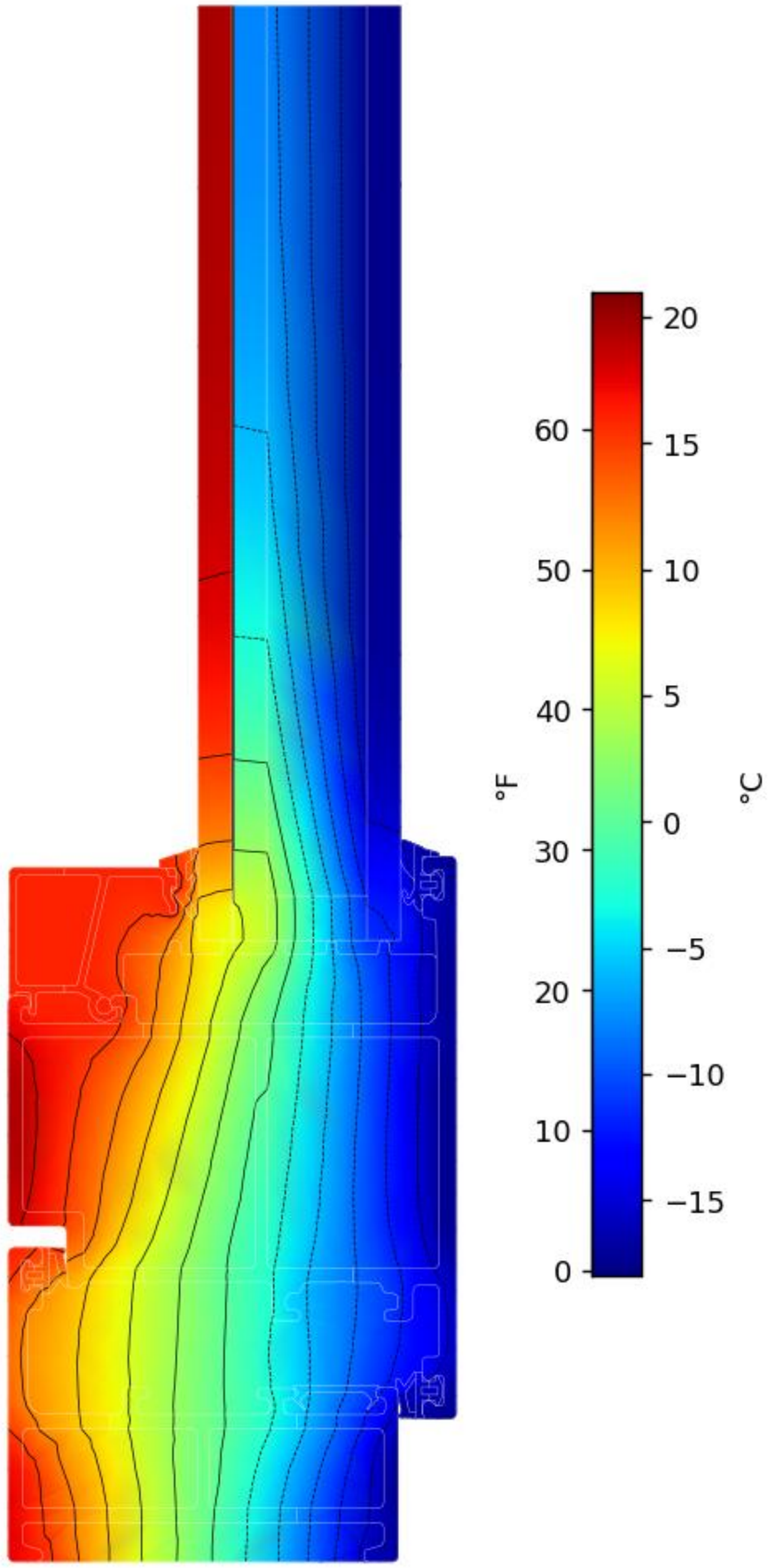
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- PU foam (standard insert), k 0.024 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR70 swing door · Head | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.128 W/m²K over 127.2 mm | Edge U 0.696 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door at 960 x 2090 mm: KØLD 04 0.115 Btu/h·ft²·°F (R-8.7) · MILD 04 0.113 Btu/h·ft²·°F (R-8.8) · HEIT 04 0.113 Btu/h·ft²·°F (R-8.9)

Section and components



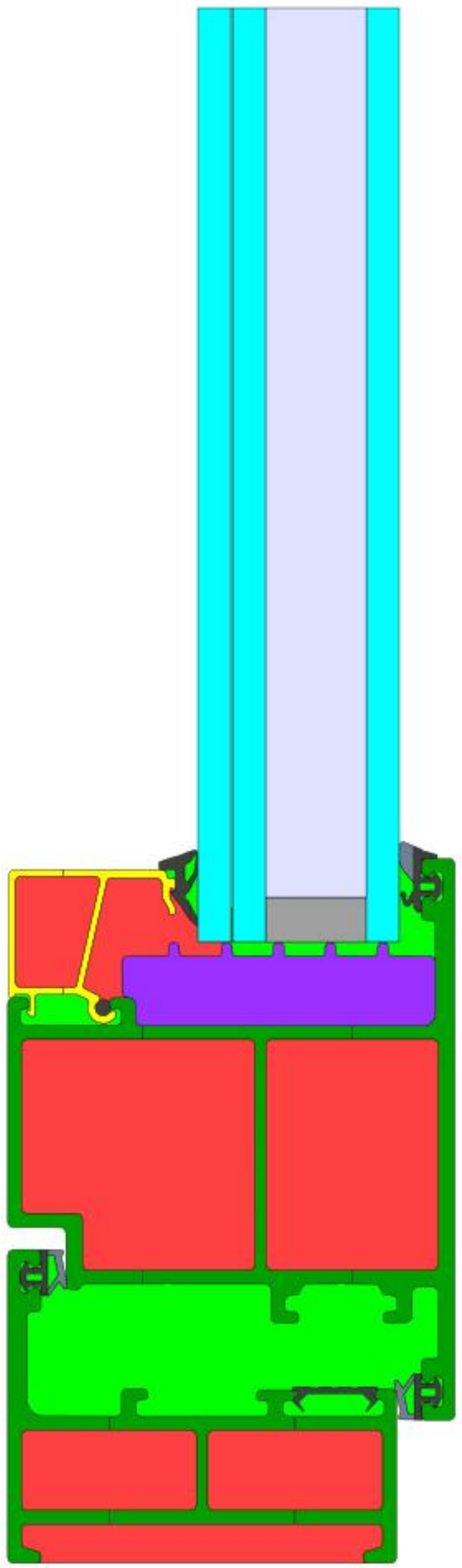
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



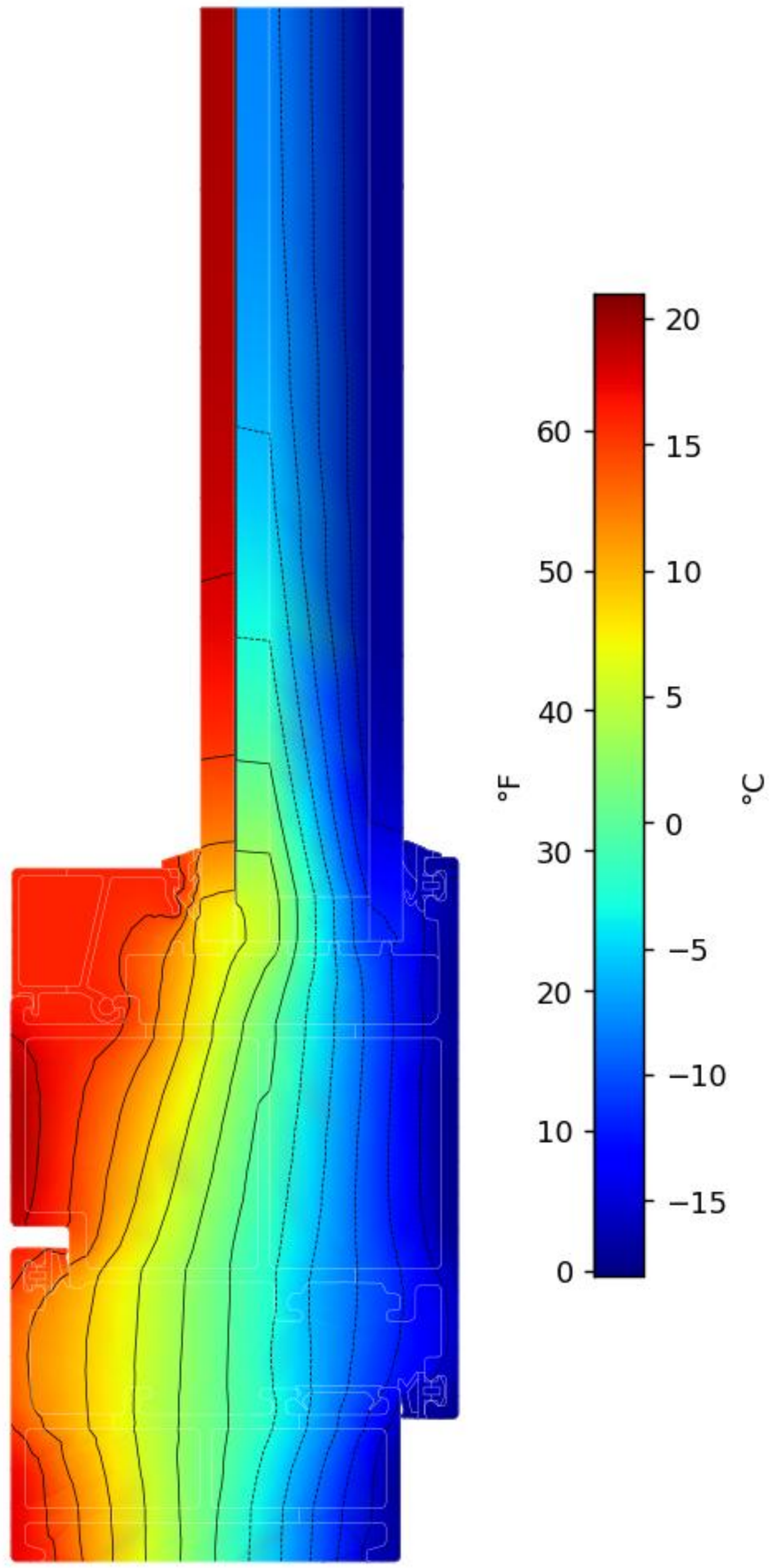
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- PU foam (standard insert), k 0.024 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR70 swing door · Jamb 1 | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.105 W/m²K over 127.2 mm | Edge U 0.696 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door at 960 x 2090 mm: KØLD 04 0.115 Btu/h·ft²·°F (R-8.7) · MILD 04 0.113 Btu/h·ft²·°F (R-8.8) · HEIT 04 0.113 Btu/h·ft²·°F (R-8.9)

Section and components



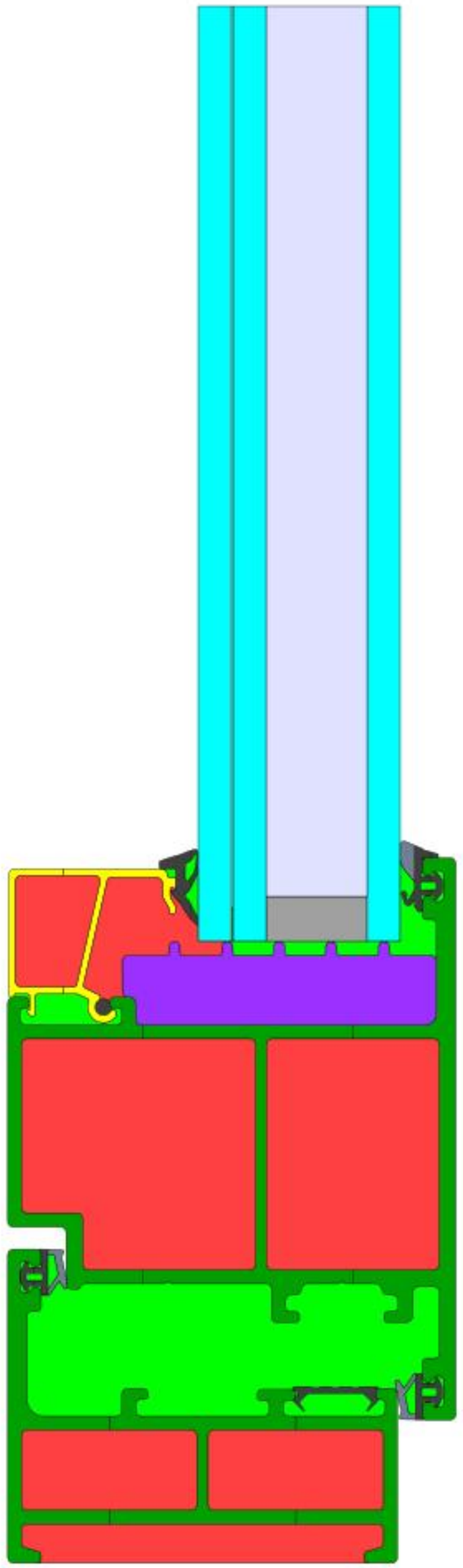
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



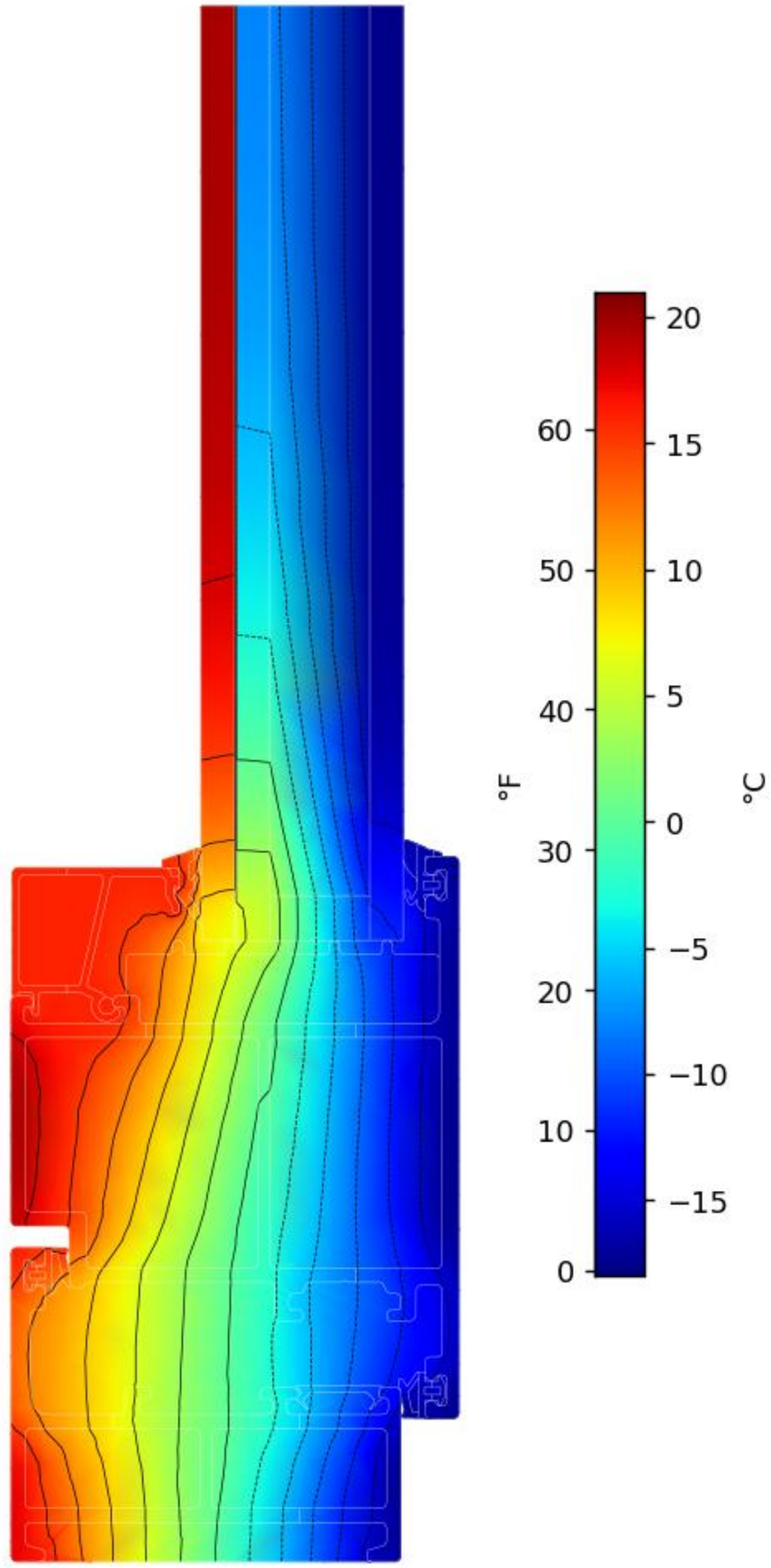
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- PU foam (standard insert), k 0.024 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR70 swing door · Jamb 2 | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.104 W/m²K over 127.2 mm | Edge U 0.696 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door at 960 x 2090 mm: KØLD 04 0.115 Btu/h·ft²·°F (R-8.7) · MILD 04 0.113 Btu/h·ft²·°F (R-8.8) · HEIT 04 0.113 Btu/h·ft²·°F (R-8.9)

Section and components



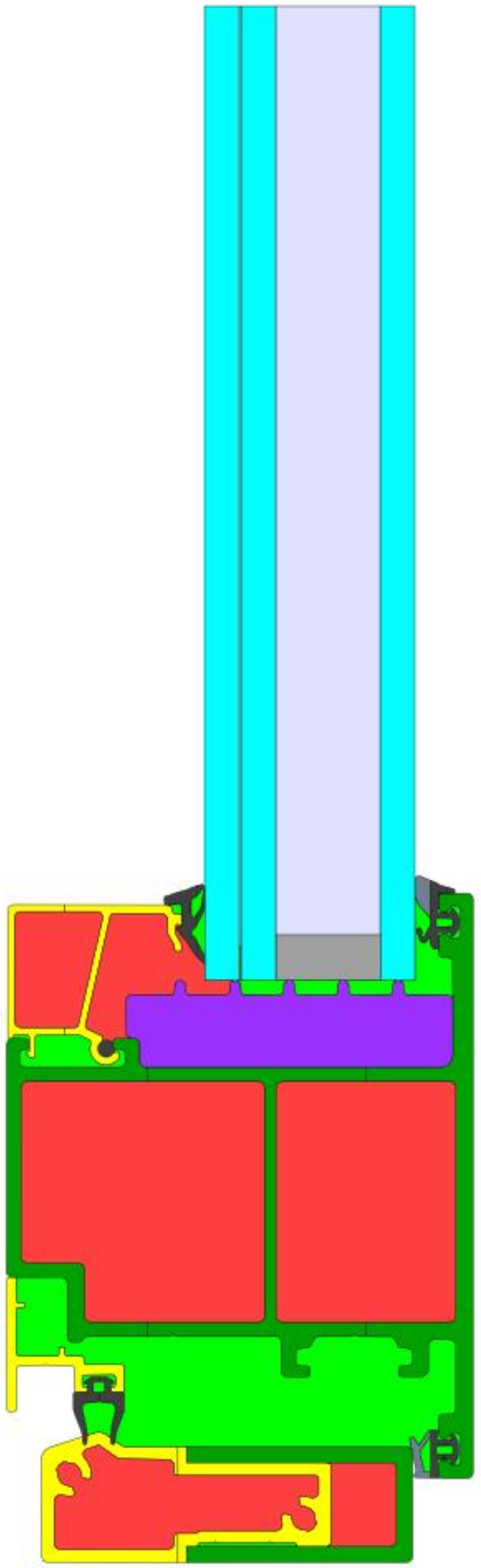
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



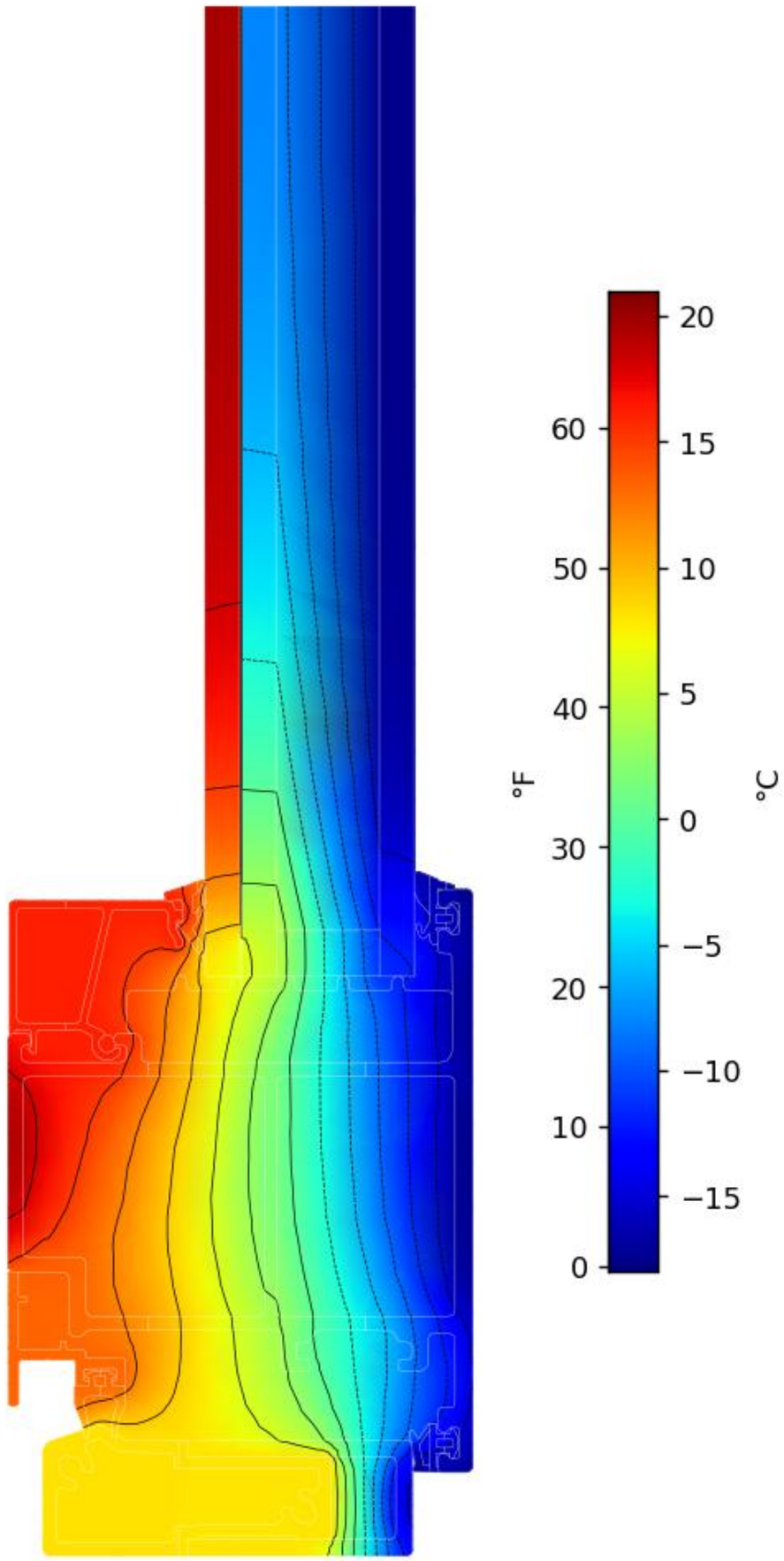
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- PU foam (standard insert), k 0.024 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR70 swing door · Sill | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.563 W/m²K over 116.0 mm | Edge U 0.690 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door at 960 x 2090 mm: KØLD 04 0.115 Btu/h·ft²·°F (R-8.7) · MILD 04 0.113 Btu/h·ft²·°F (R-8.8) · HEIT 04 0.113 Btu/h·ft²·°F (R-8.9)

Section and components



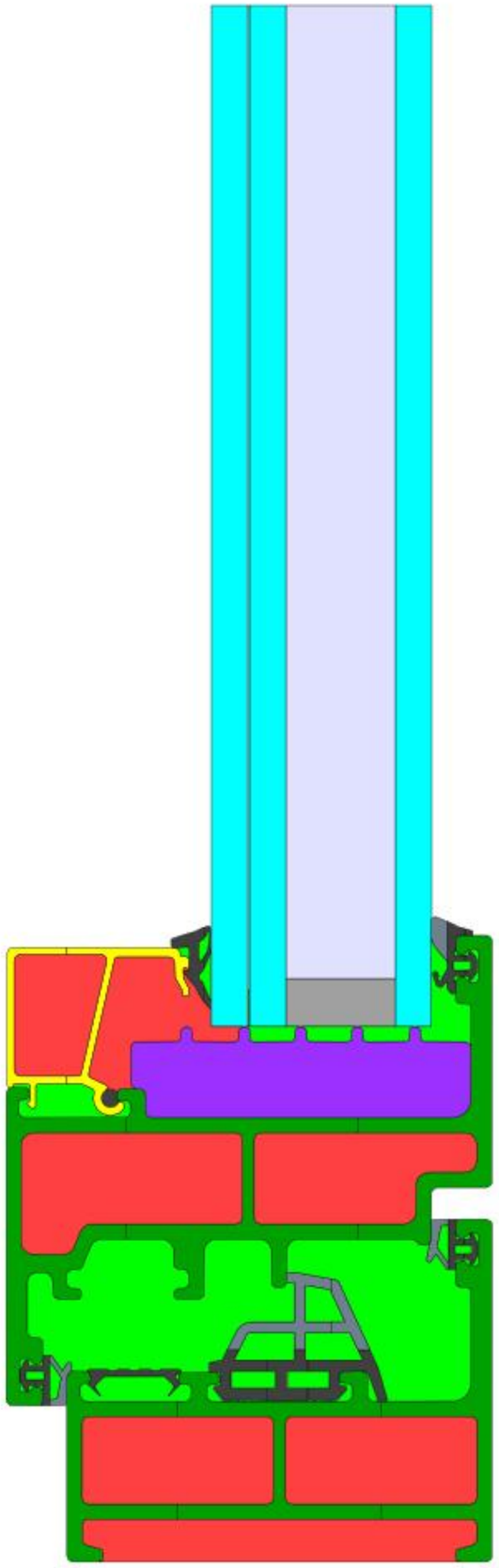
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



- Fiberglass frame (GFRPU), k 0.114 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR70 dual action · Sill | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.084 W/m²K over 103.6 mm | Edge U 0.688 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole window at 1200 x 1500 mm: KØLD 04 0.100 Btu/h·ft²·°F (R-10.0) · MILD 04 0.098 Btu/h·ft²·°F (R-10.2) · HEIT 04 0.098 Btu/h·ft²·°F (R-10.2)

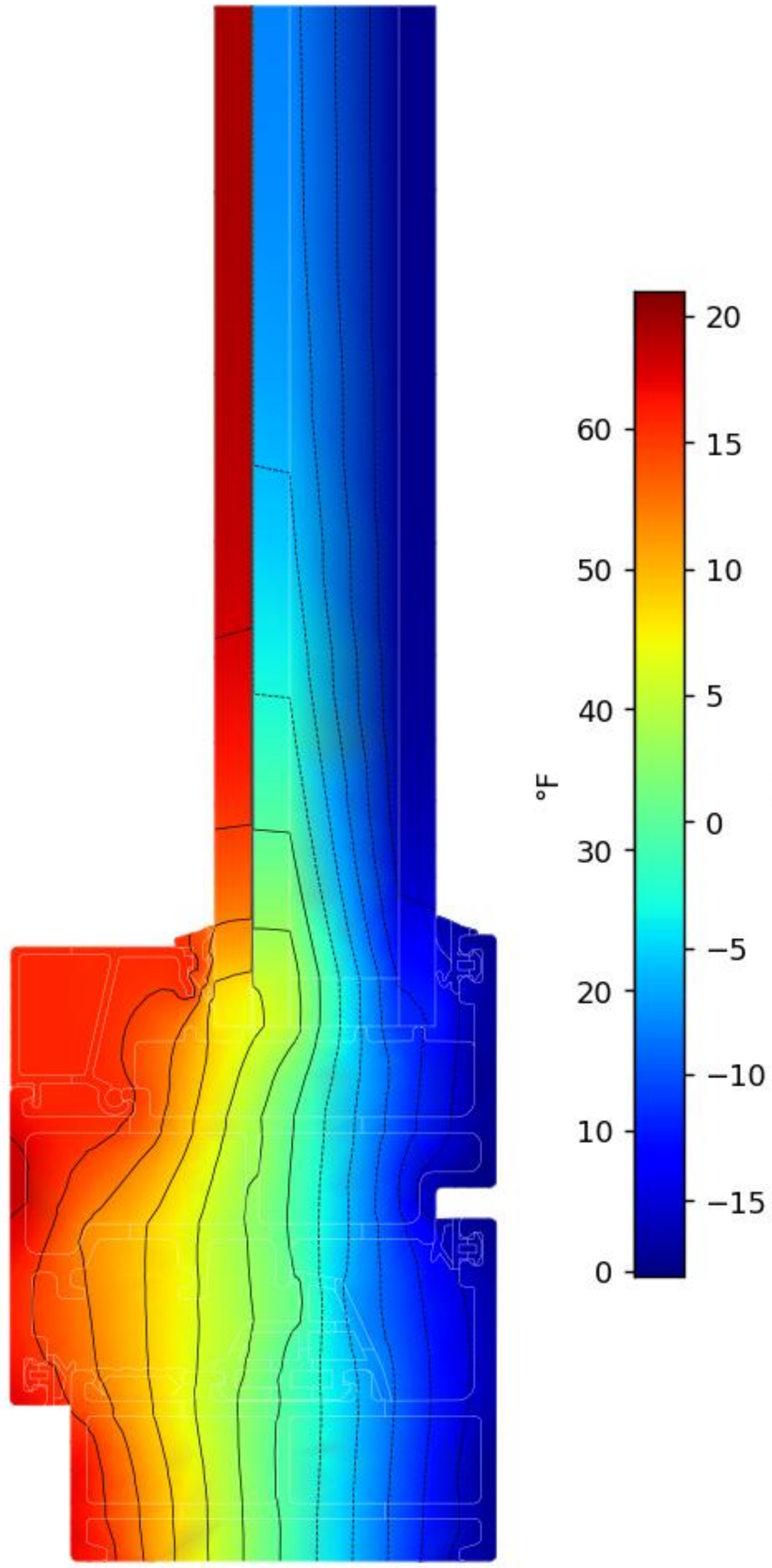
Section and components



ROOM
21 °C / 70 °F

OUTSIDE
-18 °C / 0 °F

Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



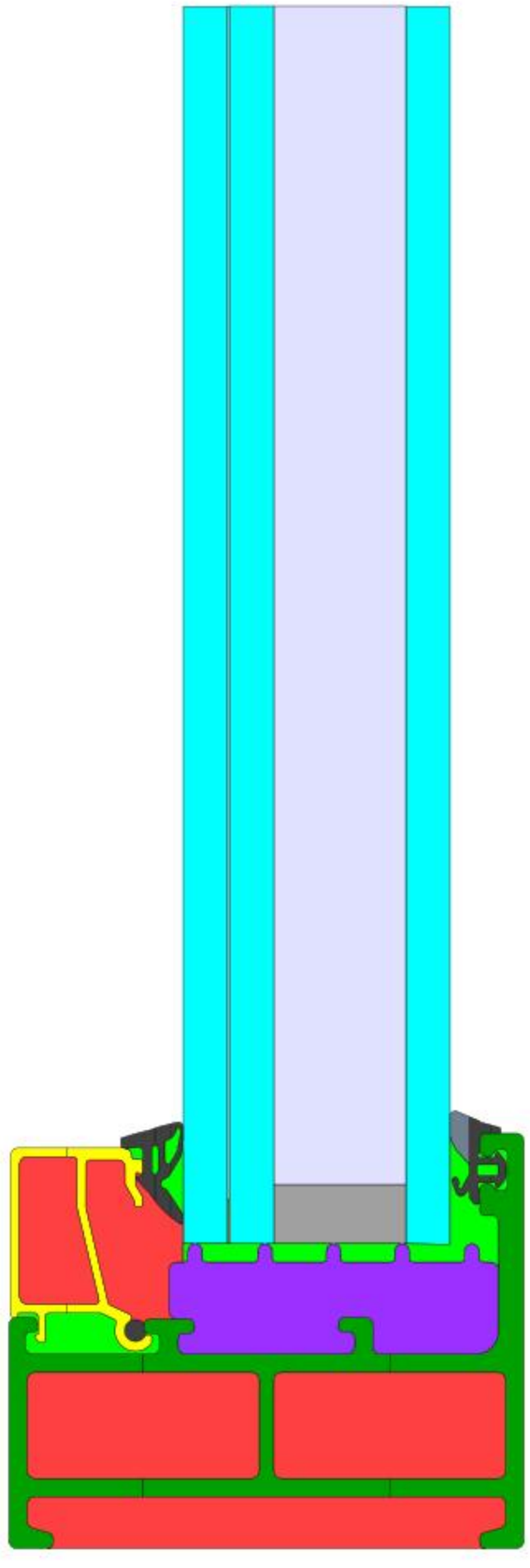
ROOM
21 °C / 70 °F

OUTSIDE
-18 °C / 0 °F

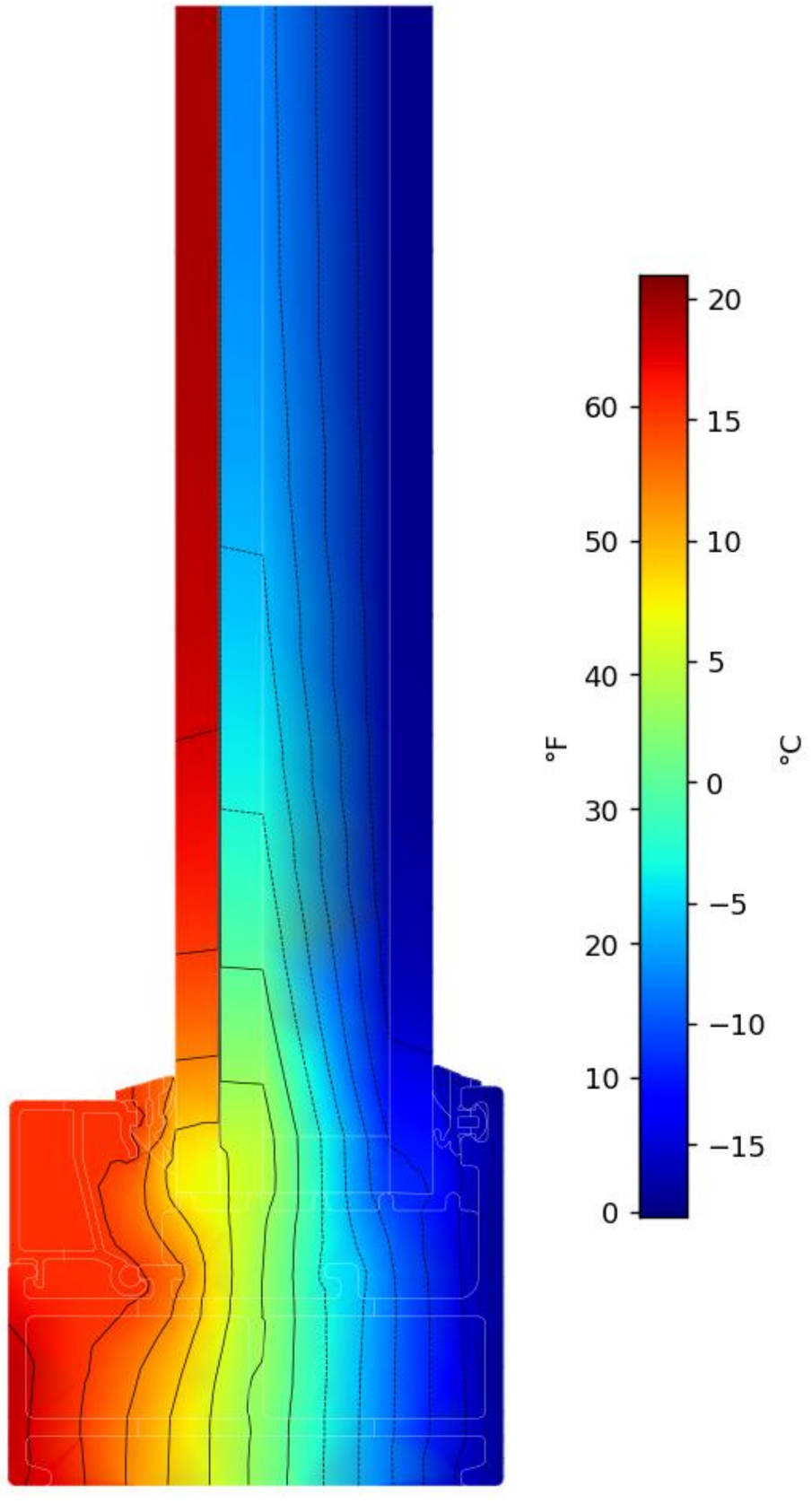
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- PU foam (standard insert), k 0.024 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR70 fixed · Sill | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.103 W/m²K over 56.9 mm | Edge U 0.733 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole window at 1200 x 1500 mm: KØLD 04 0.085 Btu/h·ft²·°F (R-11.8) · MILD 04 0.083 Btu/h·ft²·°F (R-12.1) · HEIT 04 0.082 Btu/h·ft²·°F (R-12.1)

Section and components



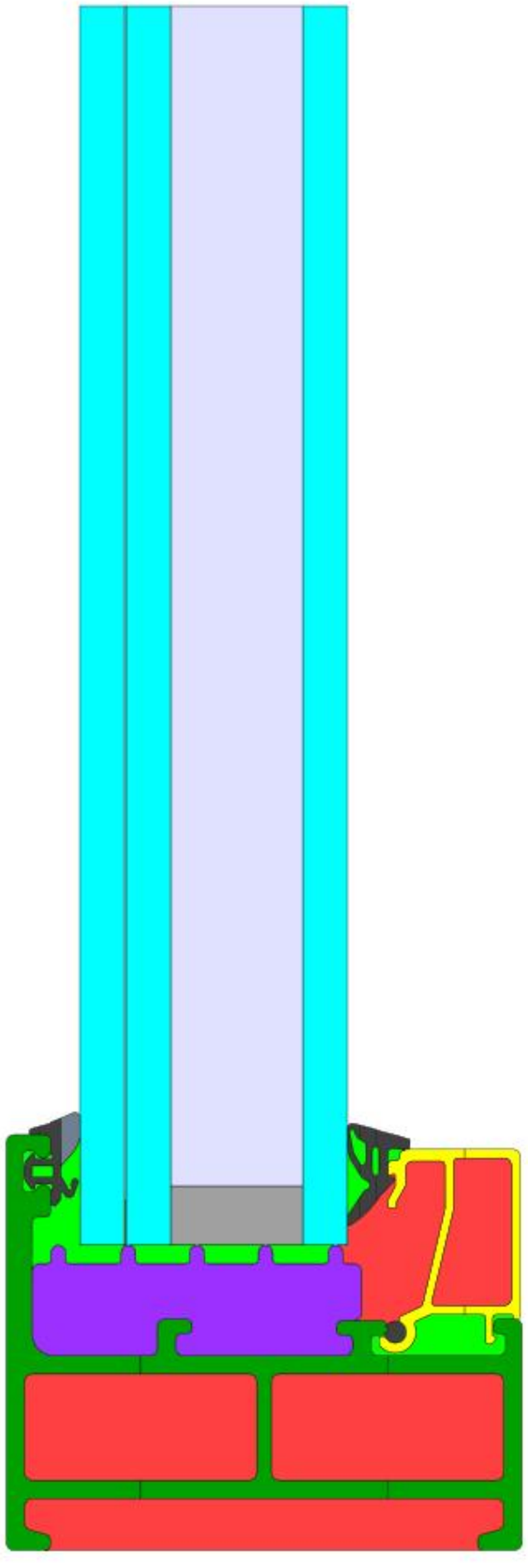
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- PU foam (standard insert), k 0.024 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR70 fixed (flipped) · Sill | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.001 W/m²K over 58.4 mm | Edge U 0.783 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole window at 1200 x 1500 mm: KØLD 04 0.084 Btu/h·ft²·°F (R-11.9) · MILD 04 0.082 Btu/h·ft²·°F (R-12.2) · HEIT 04 0.081 Btu/h·ft²·°F (R-12.3)

Section and components

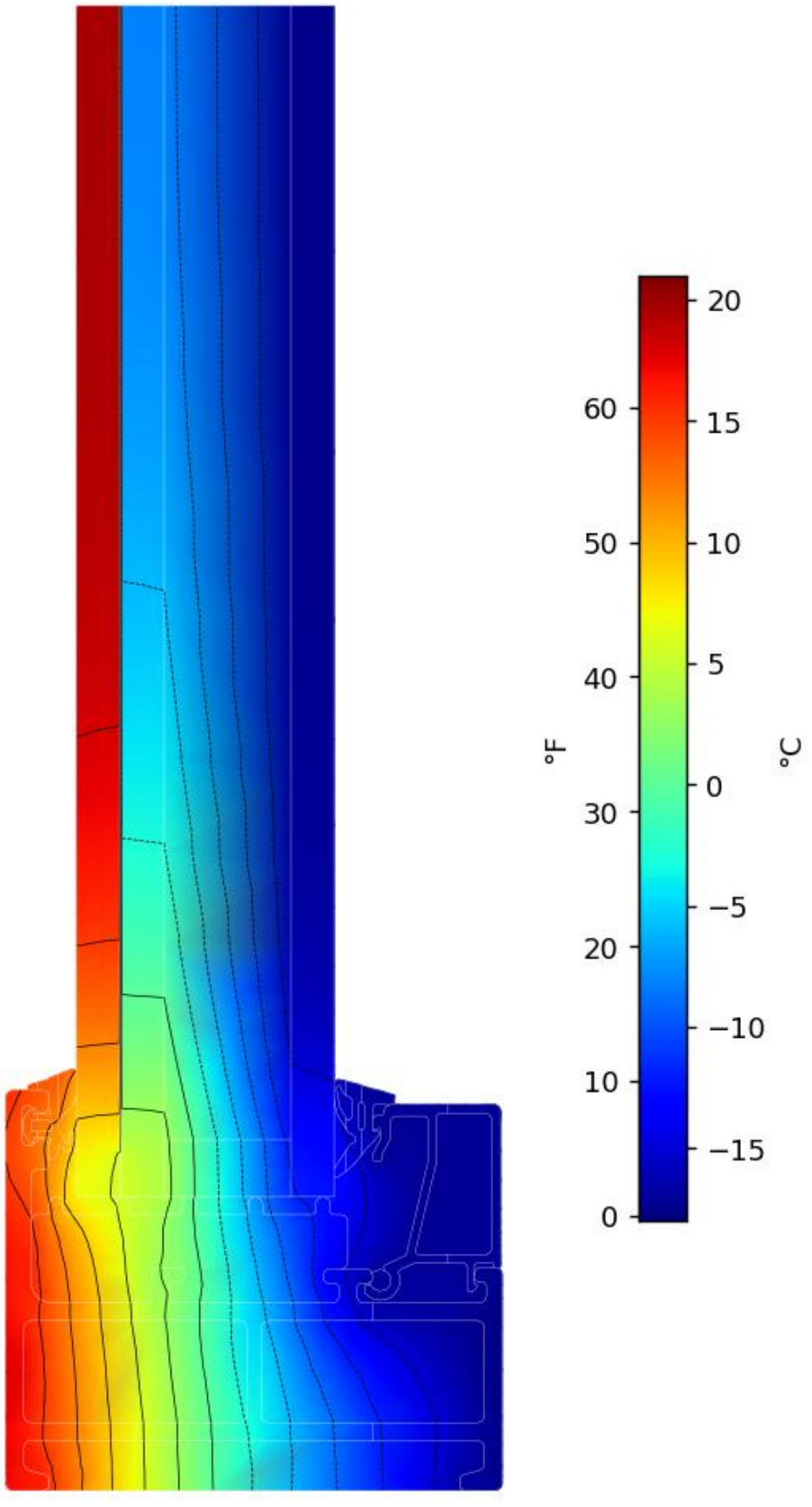


ROOM
21 °C / 70 °F

OUTSIDE
-18 °C / 0 °F

- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- PU foam (standard insert), k 0.024 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K

Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



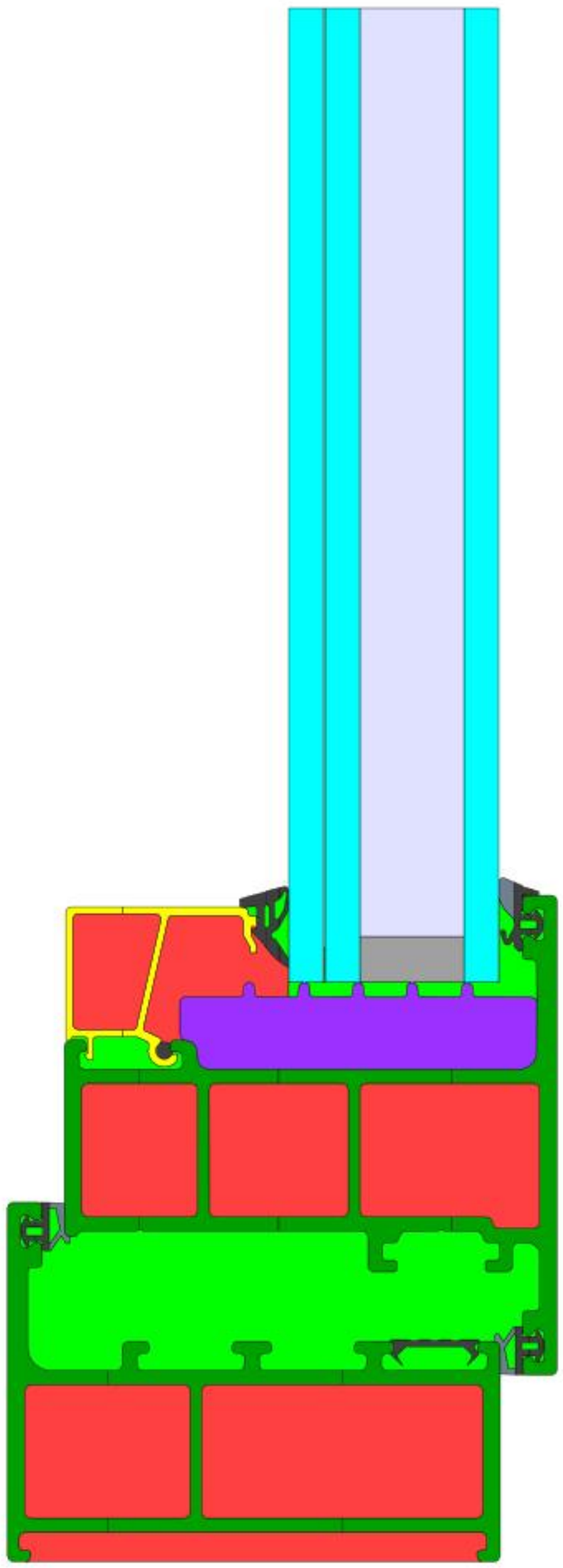
ROOM
21 °C / 70 °F

OUTSIDE
-18 °C / 0 °F

- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR85 casement · Sill | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.112 W/m²K over 115.5 mm | Edge U 0.724 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole window at 600 x 1500 mm: KØLD 04 0.136 Btu/h·ft²·°F (R-7.4) · MILD 04 0.135 Btu/h·ft²·°F (R-7.4) · HEIT 04 0.134 Btu/h·ft²·°F (R-7.4)

Section and components

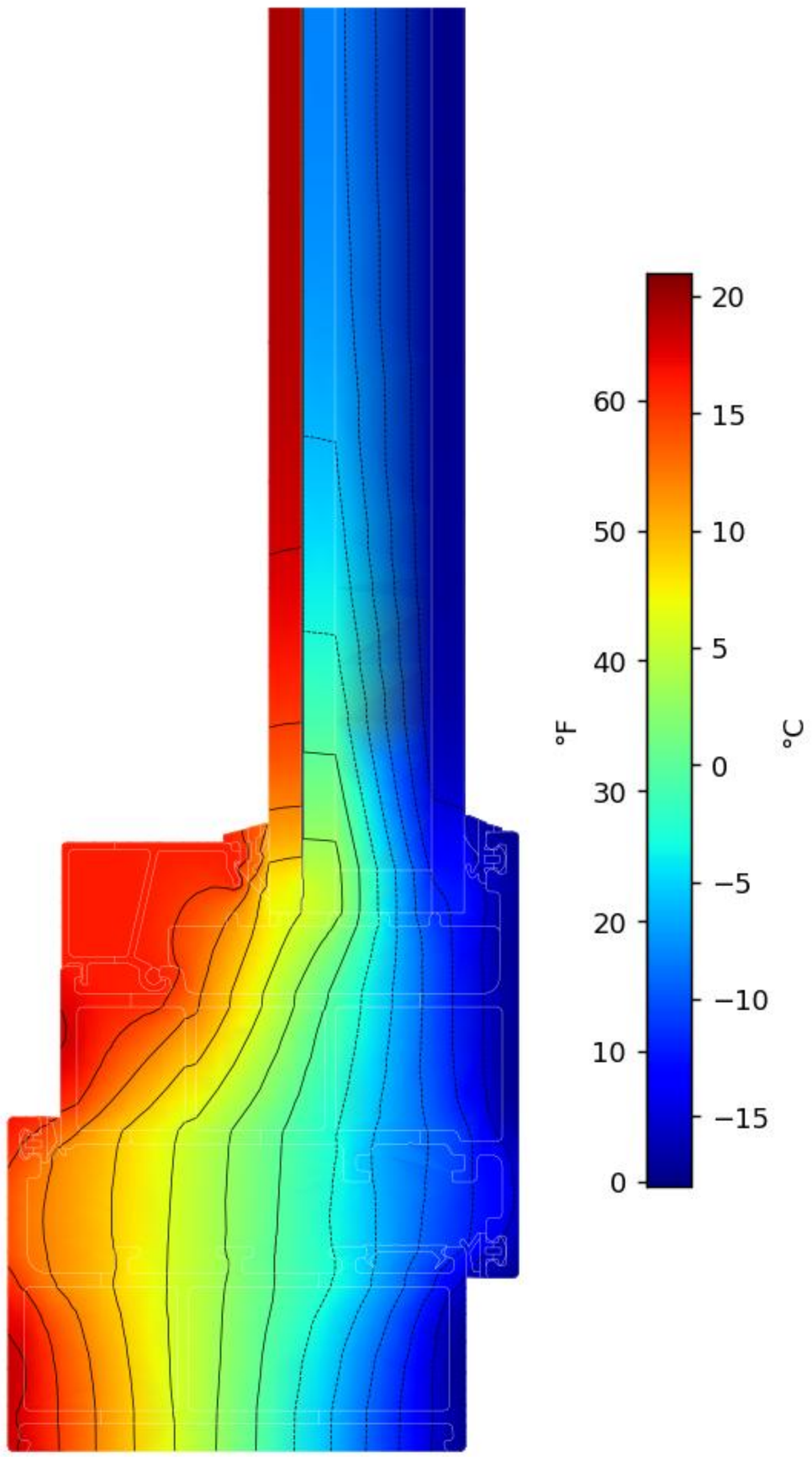


ROOM
21 °C / 70 °F

OUTSIDE
-18 °C / 0 °F

- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam (standard insert), k 0.024 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K

Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



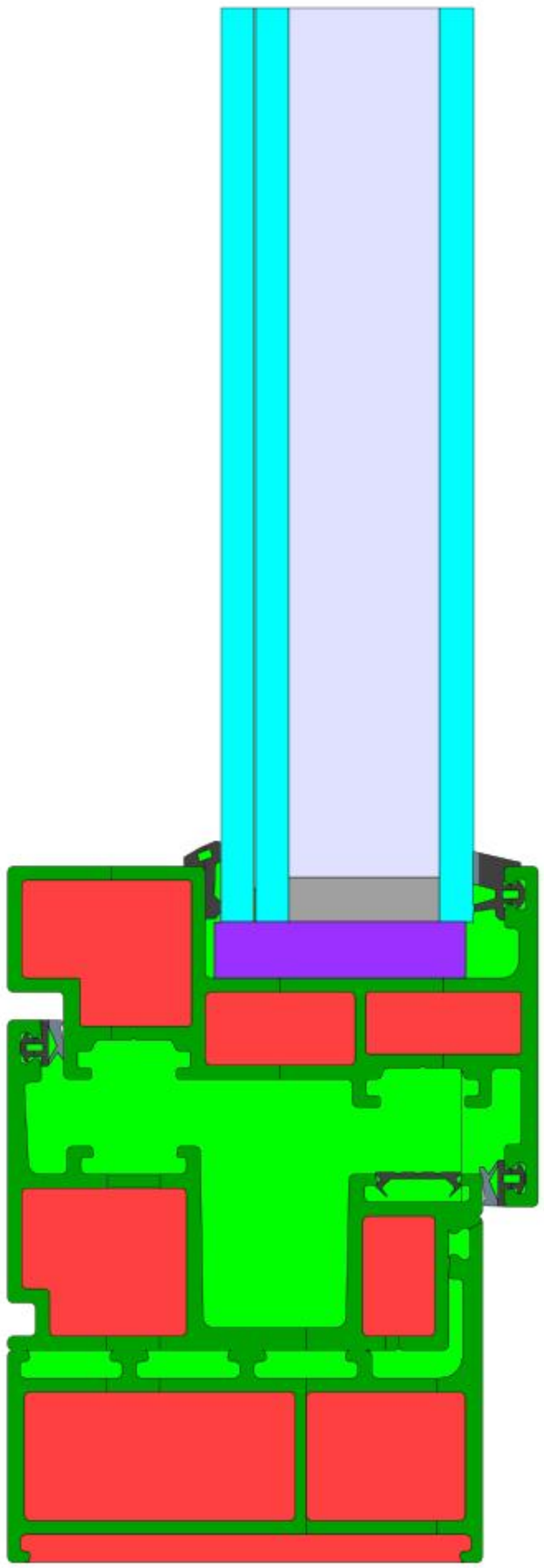
ROOM
21 °C / 70 °F

OUTSIDE
-18 °C / 0 °F

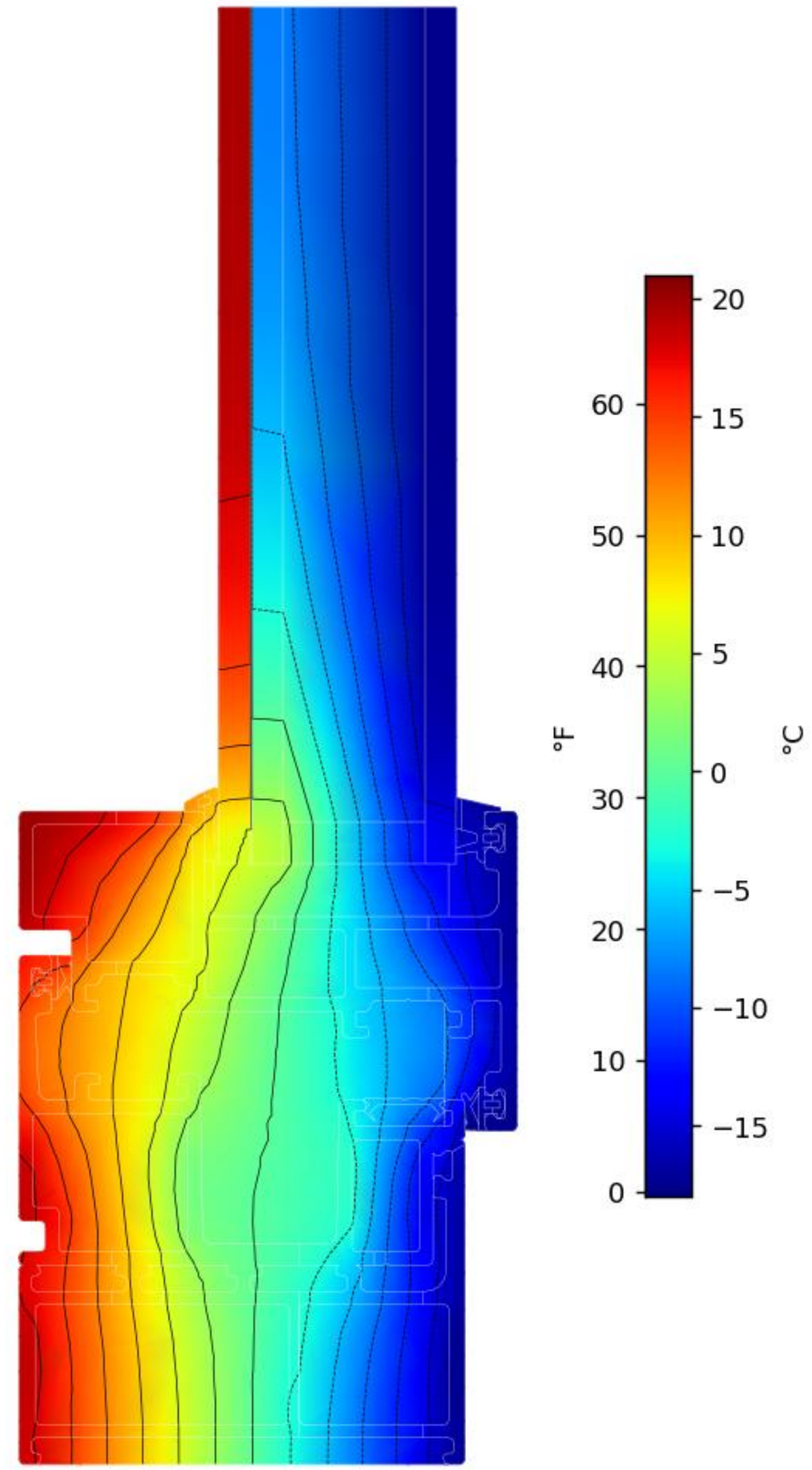
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR85 casement with screen · Sill | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (27 mm)
Frame U 0.907 W/m²K over 128.1 mm | Edge U 0.838 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole window at 600 x 1500 mm: KØLD 04 0.127 Btu/h·ft²·°F (R-7.9) · MILD 04 0.126 Btu/h·ft²·°F (R-7.9) · HEIT 04 0.126 Btu/h·ft²·°F (R-7.9)

Section and components



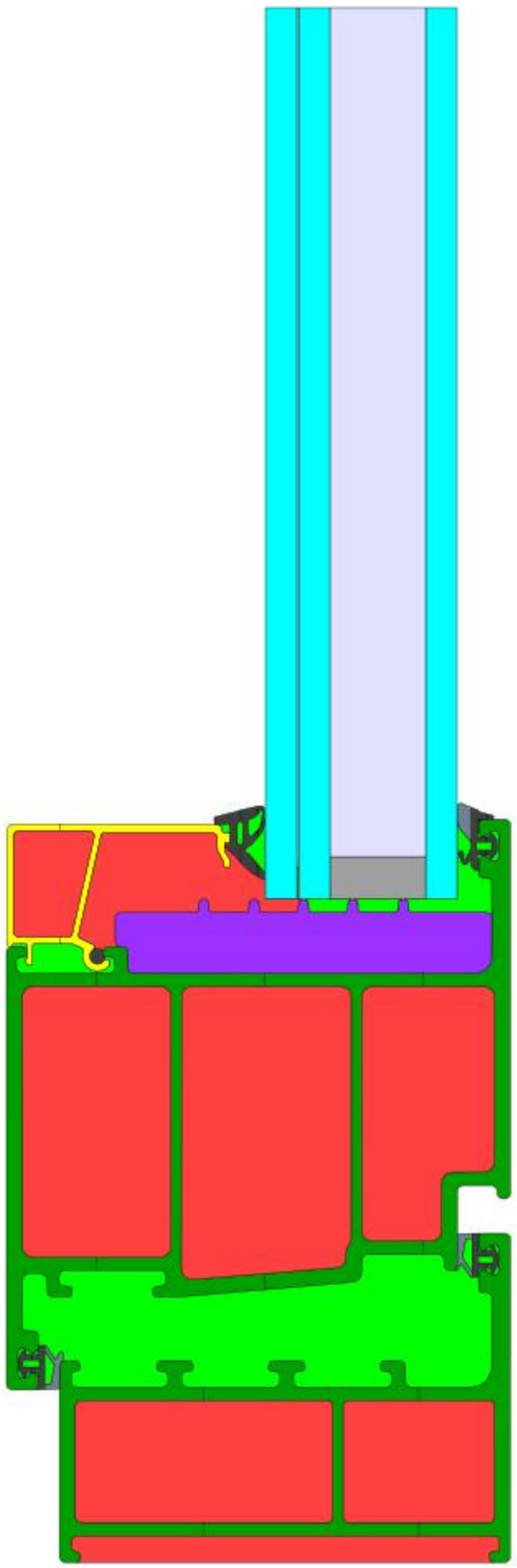
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



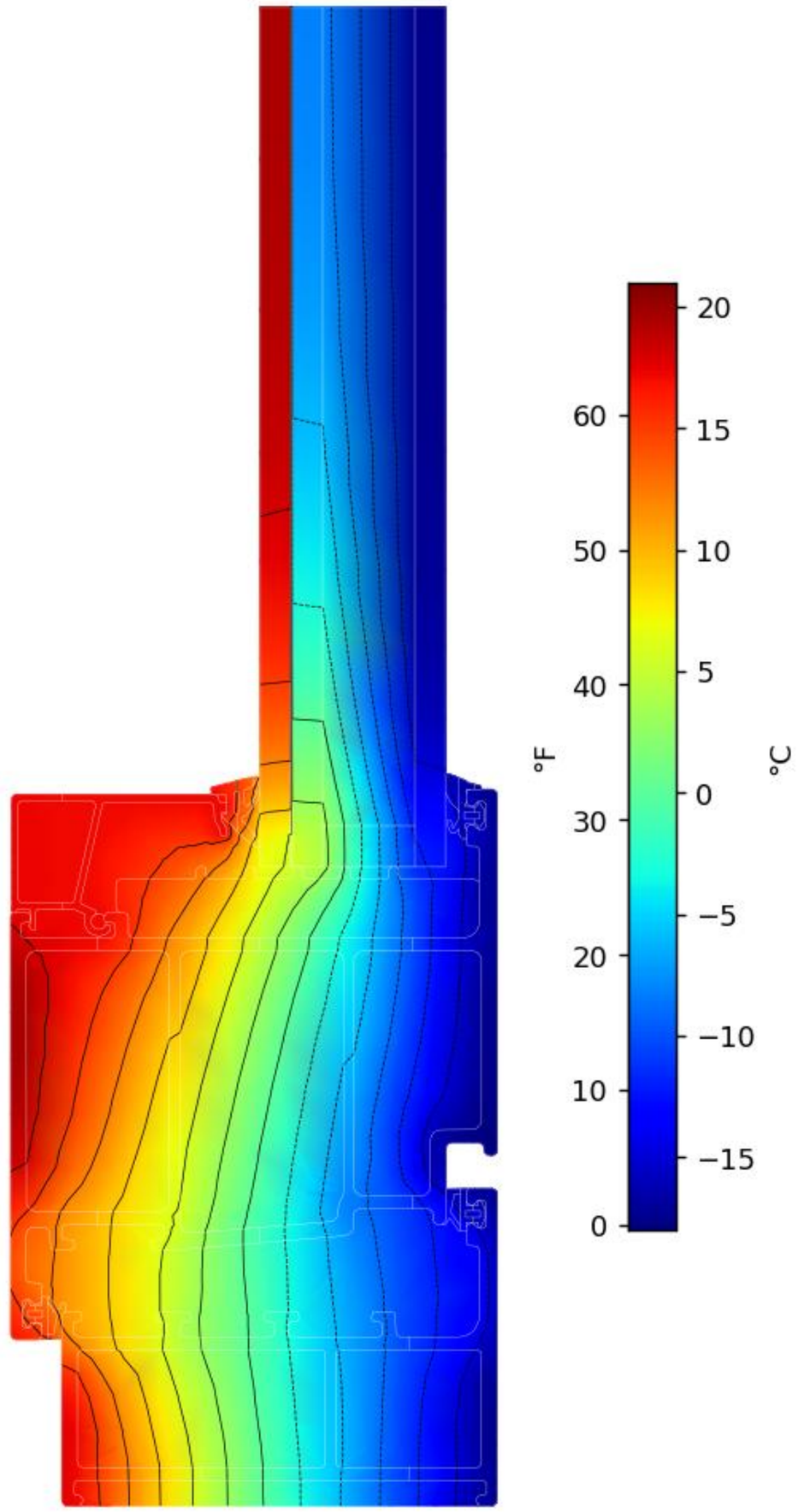
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- PU foam (standard insert), k 0.024 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Air cavities (NFRC 100 cavity model)
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 27 mm cavity, effective k 0.0387 W/m·K
- PU foam glazing pad, k 0.024 W/m·K

GR85 swing door · Head | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 0.916 W/m²K over 141.5 mm | Edge U 0.724 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door at 960 x 2090 mm: KØLD 04 0.105 Btu/h·ft²·°F (R-9.5) · MILD 04 0.104 Btu/h·ft²·°F (R-9.6) · HEIT 04 0.103 Btu/h·ft²·°F (R-9.7)

Section and components



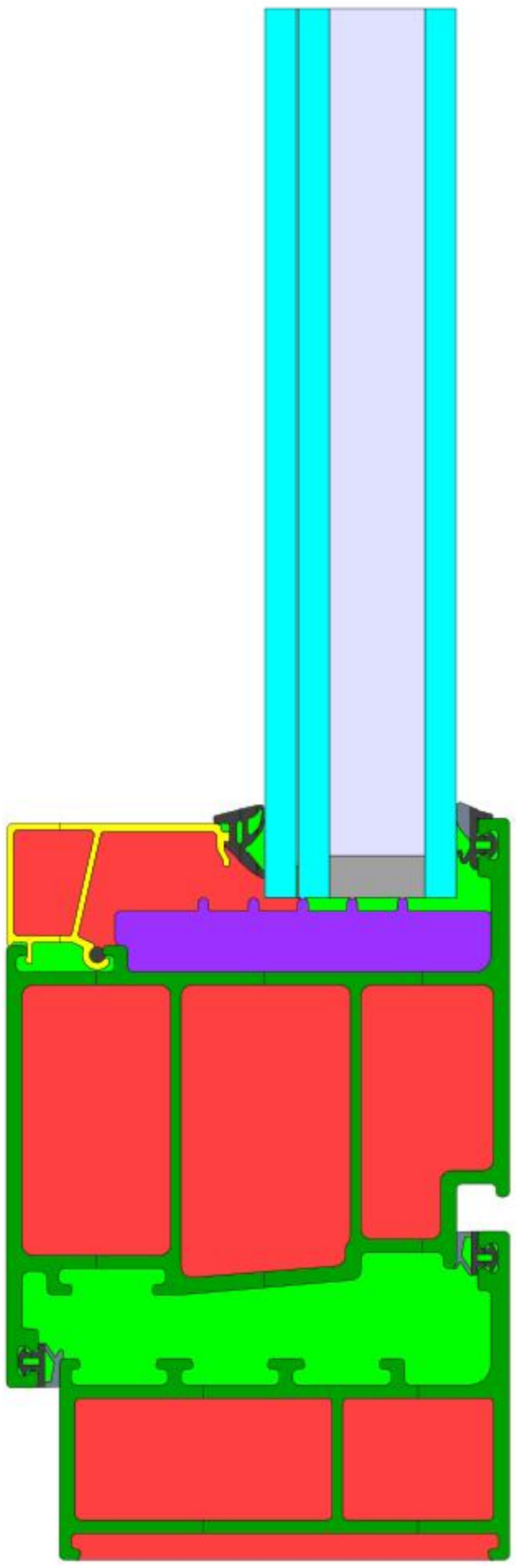
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



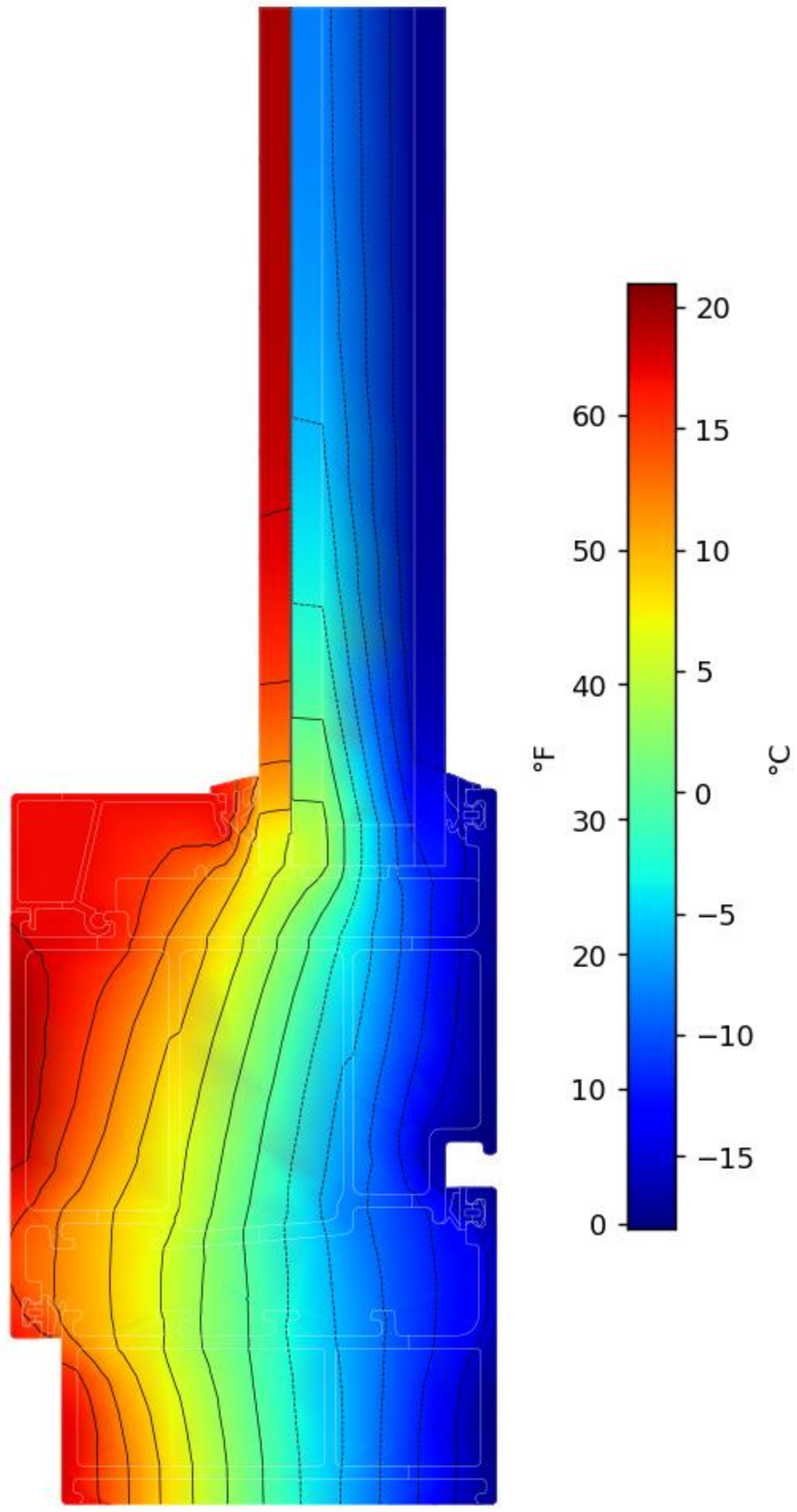
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam (standard insert), k 0.024 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR85 swing door · Jamb 1 | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 0.913 W/m²K over 141.5 mm | Edge U 0.722 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door at 960 x 2090 mm: KØLD 04 0.105 Btu/h·ft²·°F (R-9.5) · MILD 04 0.104 Btu/h·ft²·°F (R-9.6) · HEIT 04 0.103 Btu/h·ft²·°F (R-9.7)

Section and components



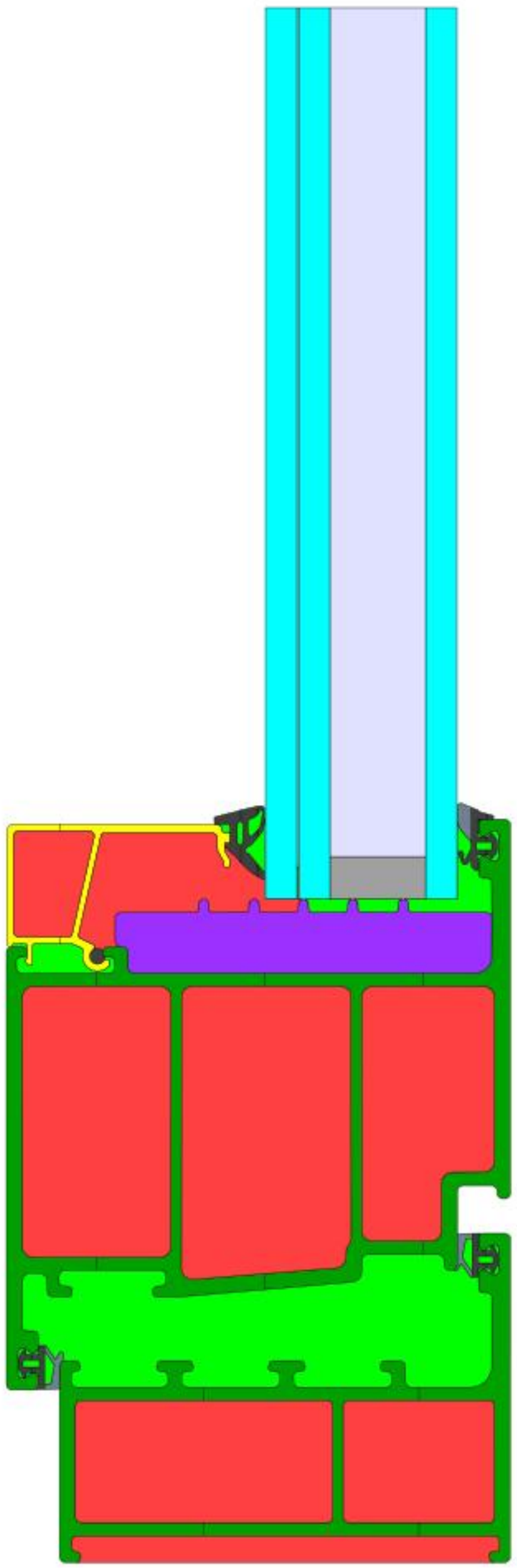
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



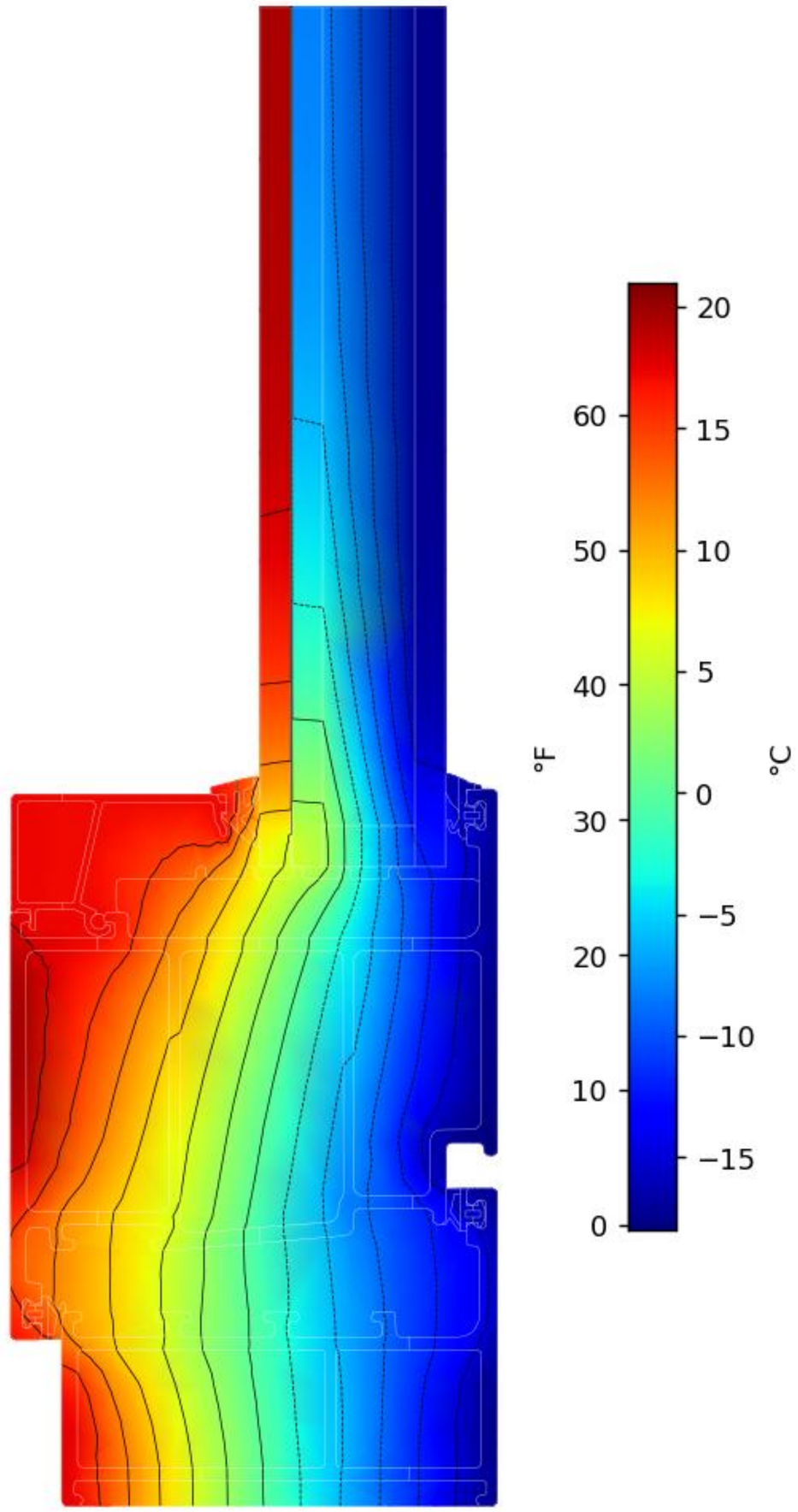
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam (standard insert), k 0.024 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR85 swing door · Jamb 2 | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 0.912 W/m²K over 141.5 mm | Edge U 0.723 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door at 960 x 2090 mm: KØLD 04 0.105 Btu/h·ft²·°F (R-9.5) · MILD 04 0.104 Btu/h·ft²·°F (R-9.6) · HEIT 04 0.103 Btu/h·ft²·°F (R-9.7)

Section and components



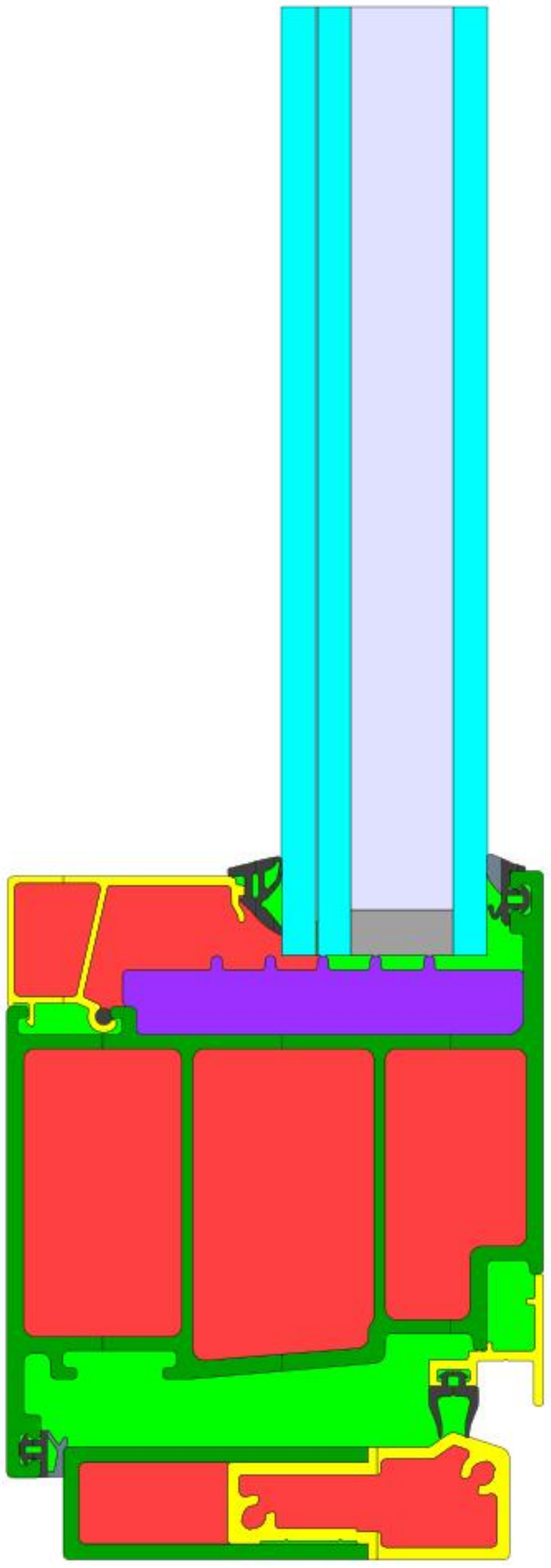
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



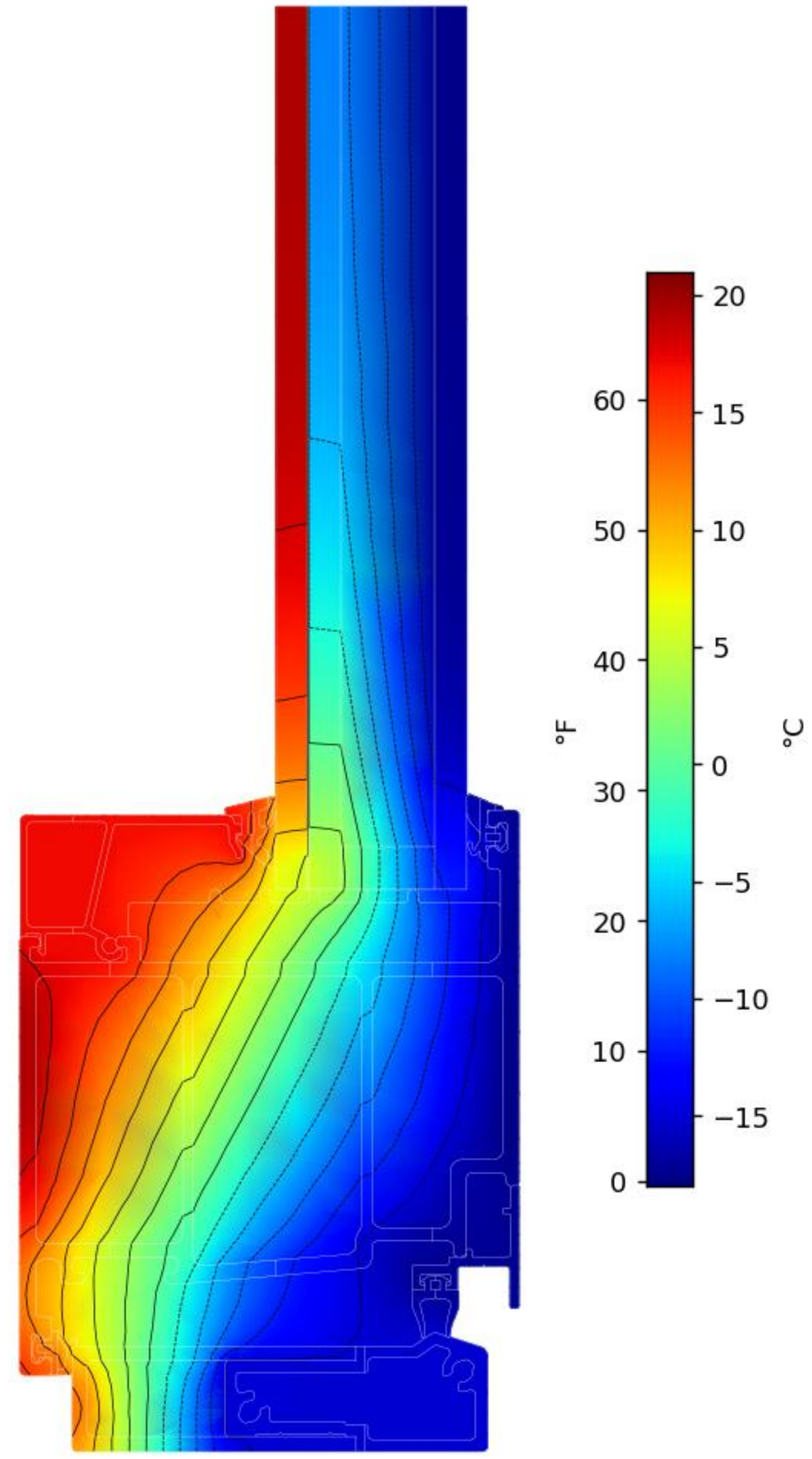
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam (standard insert), k 0.024 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR85 swing door · Sill | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.155 W/m²K over 123.5 mm | Edge U 0.727 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door at 960 x 2090 mm: KØLD 04 0.105 Btu/h·ft²·°F (R-9.5) · MILD 04 0.104 Btu/h·ft²·°F (R-9.6) · HEIT 04 0.103 Btu/h·ft²·°F (R-9.7)

Section and components



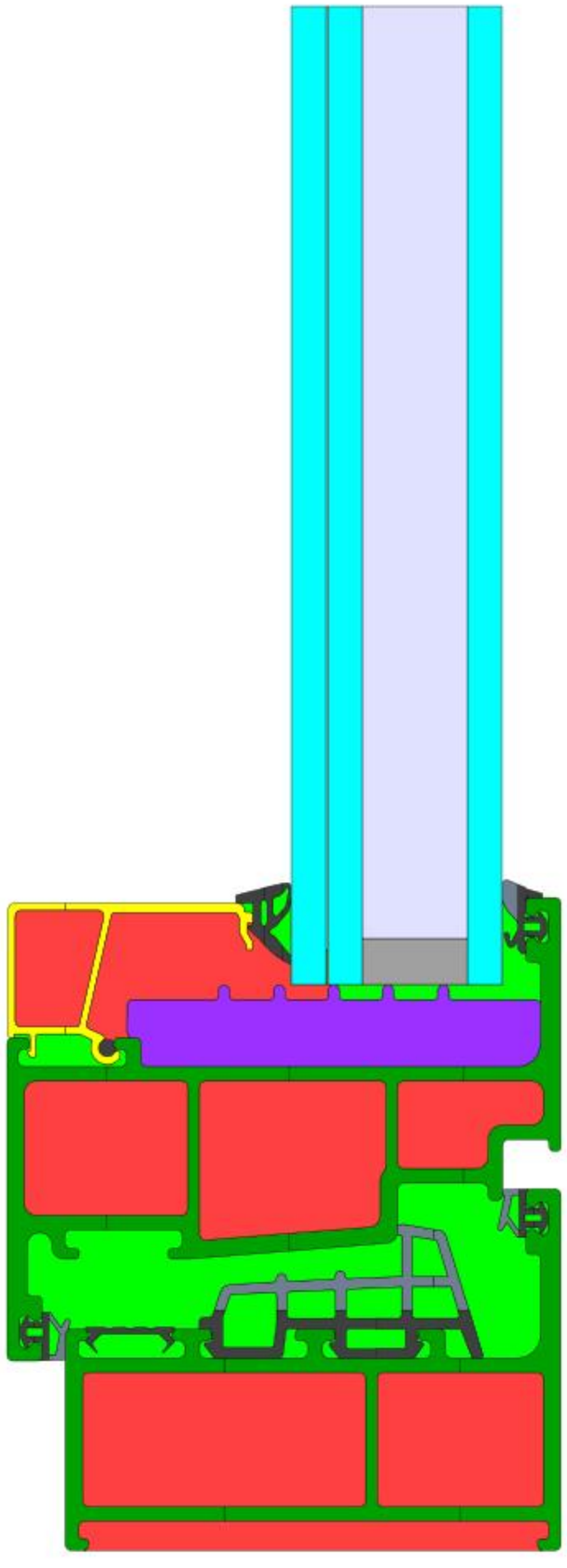
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



- Fiberglass frame (GFRPU), k 0.114 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR85 dual action · Sill | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 0.841 W/m²K over 113.5 mm | Edge U 0.724 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole window at 1200 x 1500 mm: KØLD 04 0.091 Btu/h·ft²·°F (R-11.0) · MILD 04 0.089 Btu/h·ft²·°F (R-11.2) · HEIT 04 0.089 Btu/h·ft²·°F (R-11.3)

Section and components

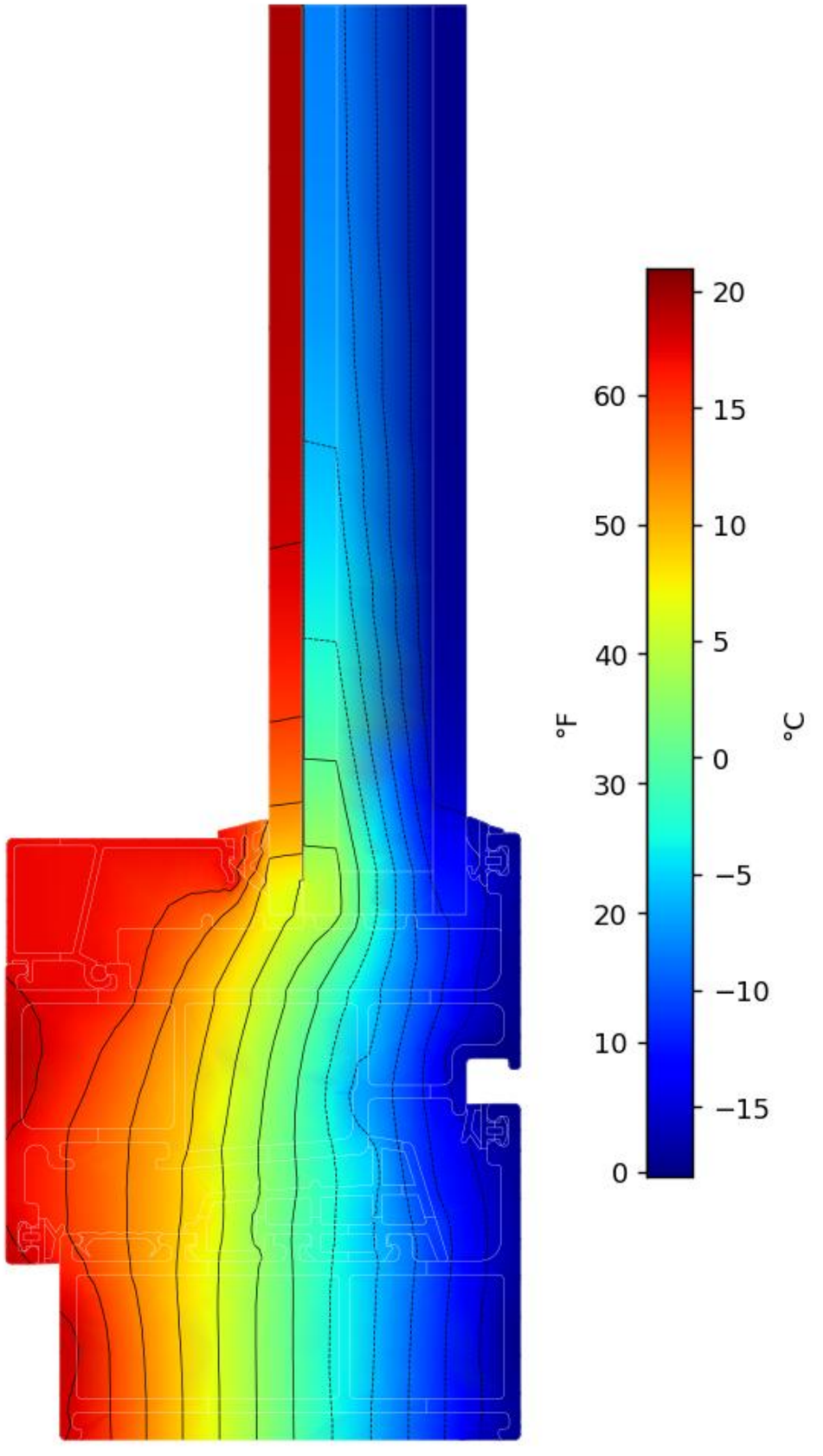


ROOM
21 °C / 70 °F

OUTSIDE
-18 °C / 0 °F

- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam (standard insert), k 0.024 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K

Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



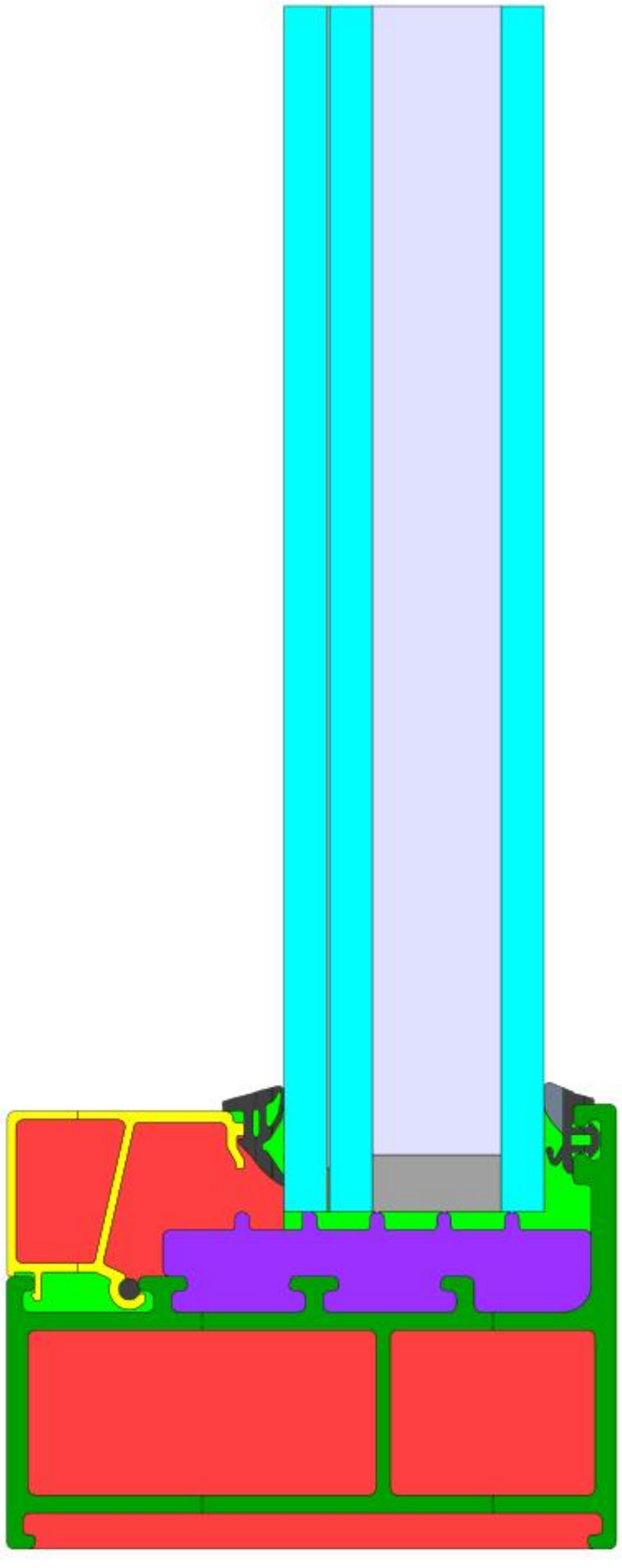
ROOM
21 °C / 70 °F

OUTSIDE
-18 °C / 0 °F

- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

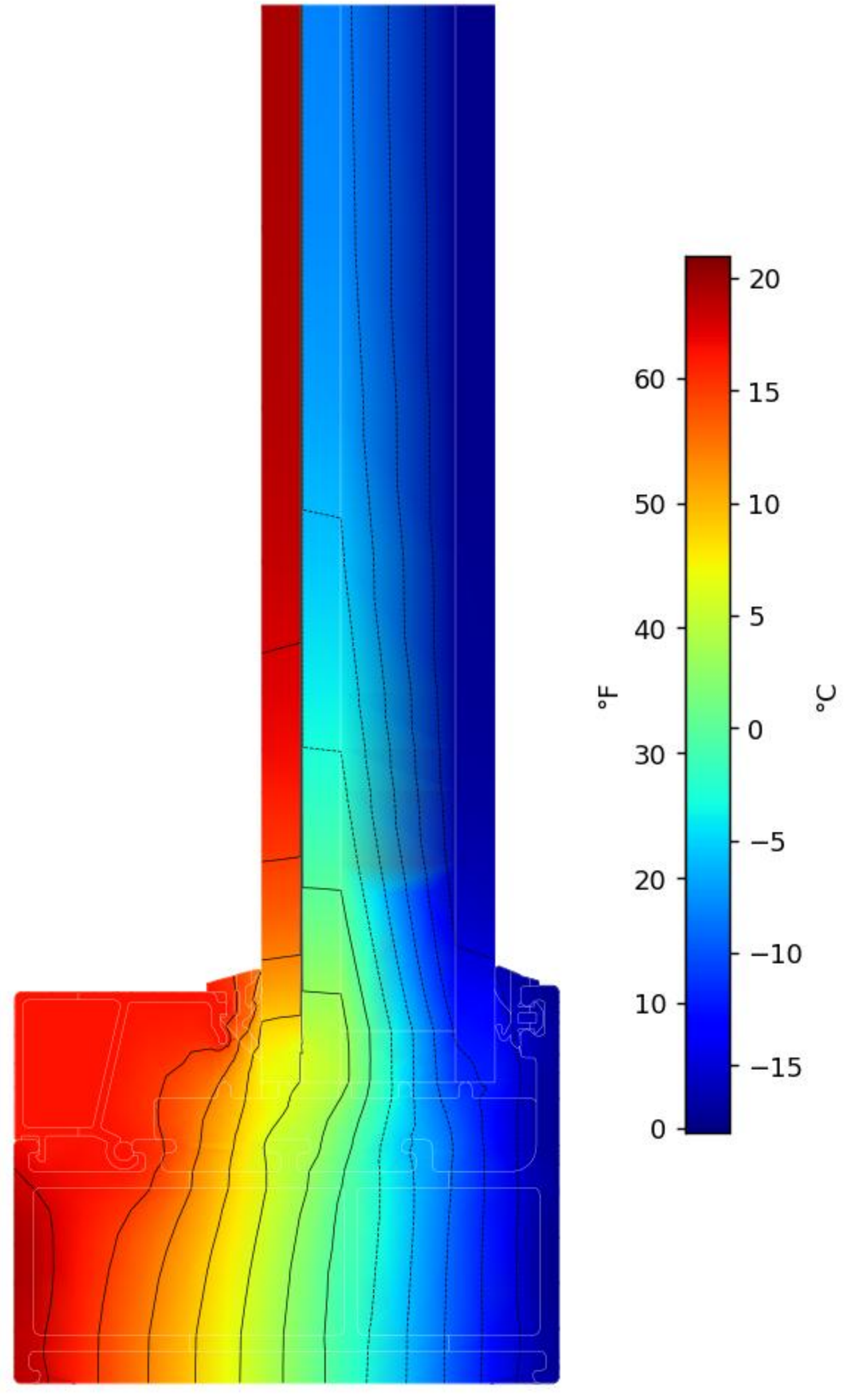
GR85 fixed · Sill | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 0.973 W/m²K over 63.5 mm | Edge U 0.709 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole window at 1200 x 1500 mm: KØLD 04 0.083 Btu/h·ft²·°F (R-12.1) · MILD 04 0.080 Btu/h·ft²·°F (R-12.4) · HEIT 04 0.080 Btu/h·ft²·°F (R-12.5)

Section and components



- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- PU foam (standard insert), k 0.024 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K

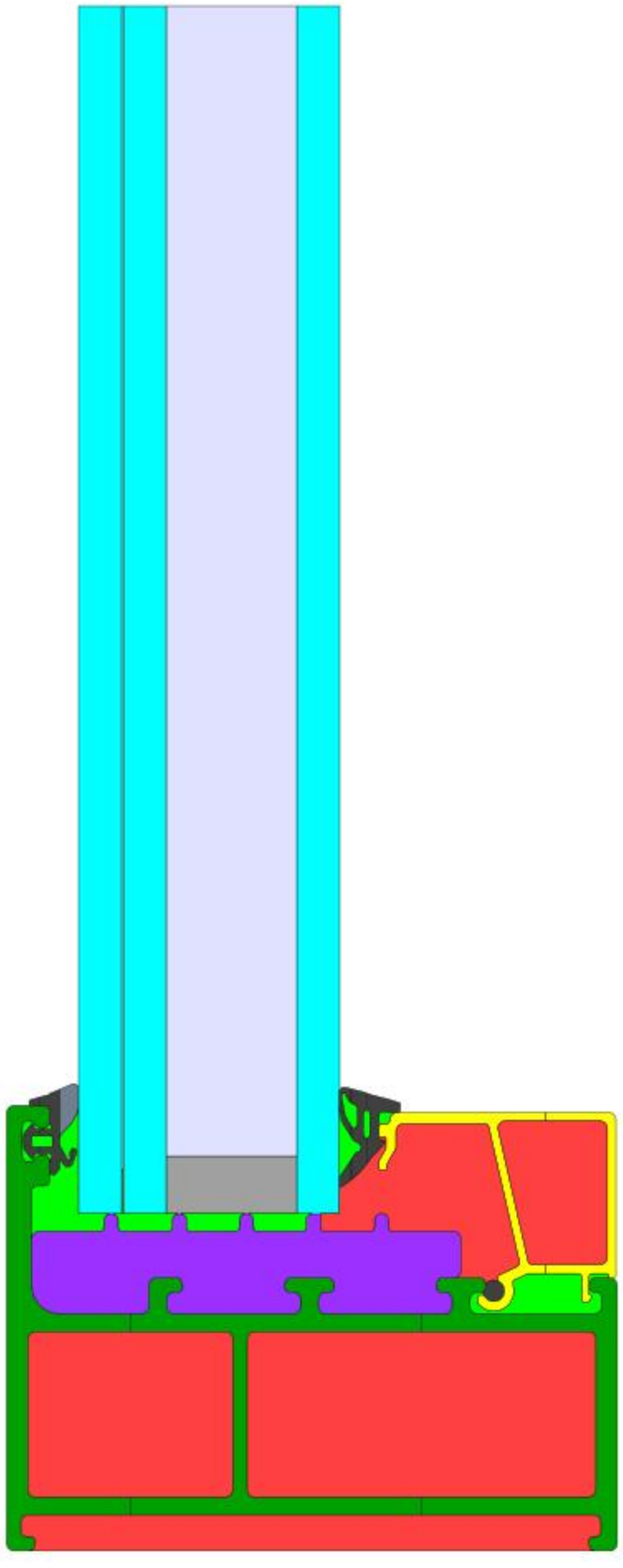
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR85 fixed (flipped) · Sill | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 0.908 W/m²K over 64.0 mm | Edge U 0.774 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole window at 1200 x 1500 mm: KØLD 04 0.082 Btu/h·ft²·°F (R-12.1) · MILD 04 0.080 Btu/h·ft²·°F (R-12.4) · HEIT 04 0.080 Btu/h·ft²·°F (R-12.5)

Section and components

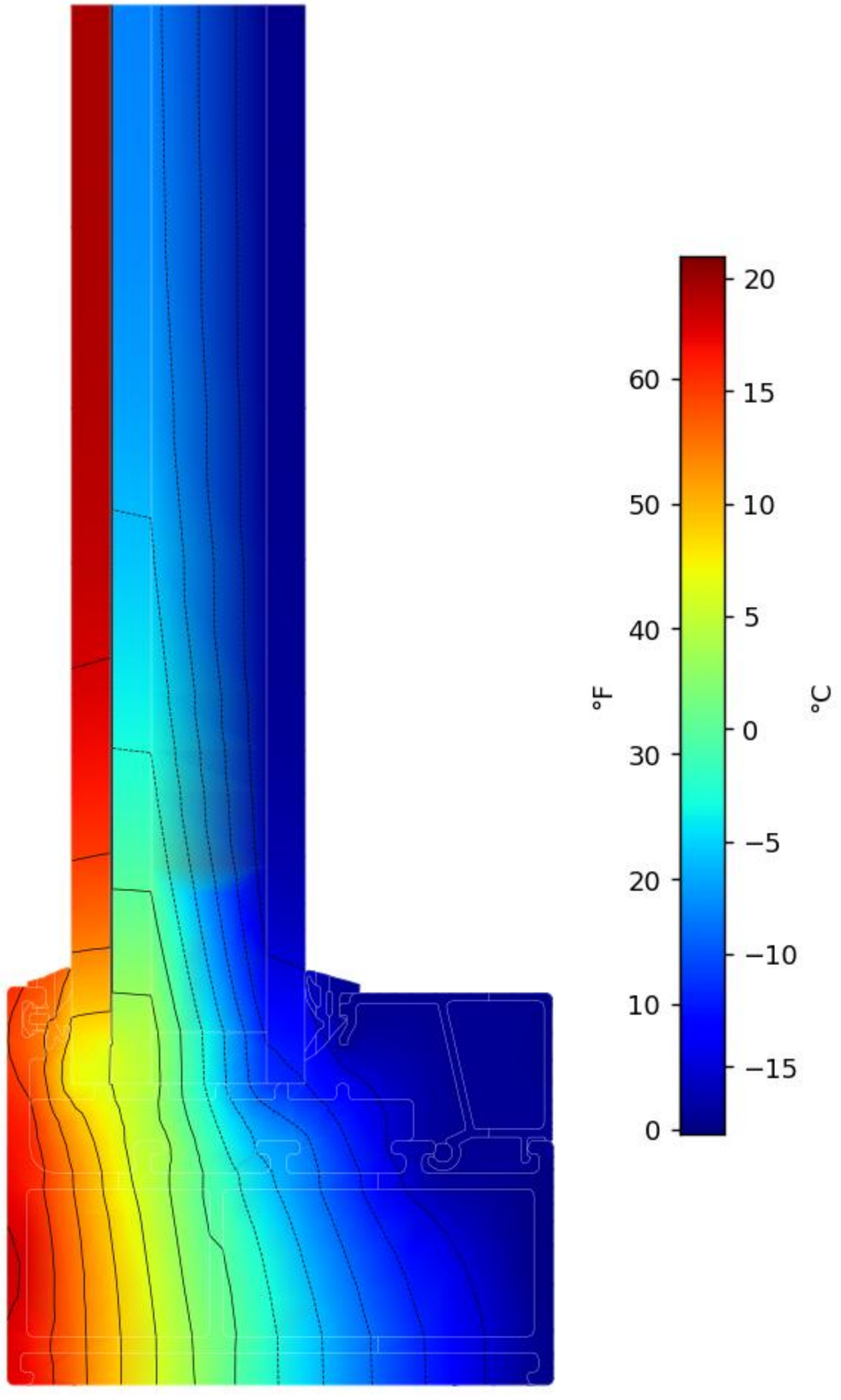


ROOM
21 °C / 70 °F

OUTSIDE
-18 °C / 0 °F

- Fiberglass frame (GFRPU), k 0.114 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- PU foam (standard insert), k 0.024 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Glass, outer lite (low-E #2), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K

Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



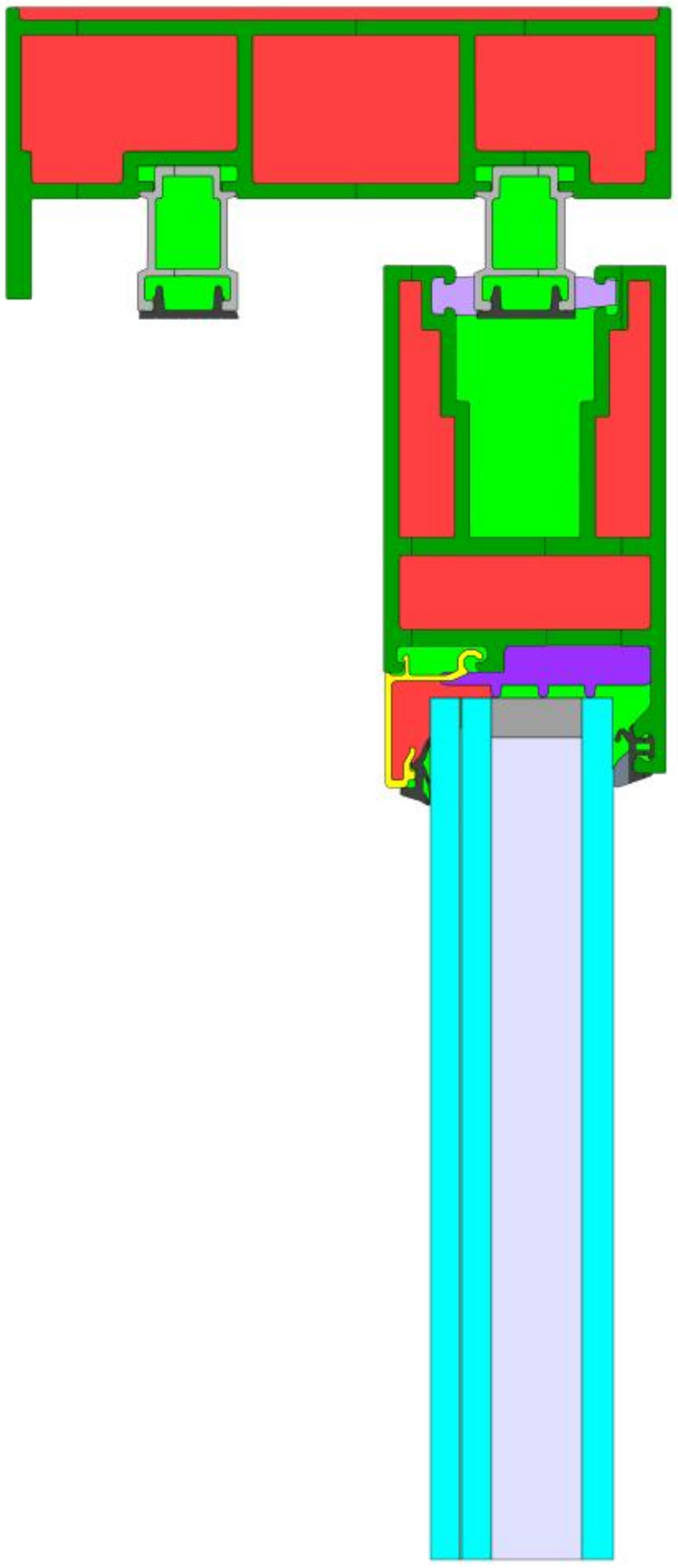
ROOM
21 °C / 70 °F

OUTSIDE
-18 °C / 0 °F

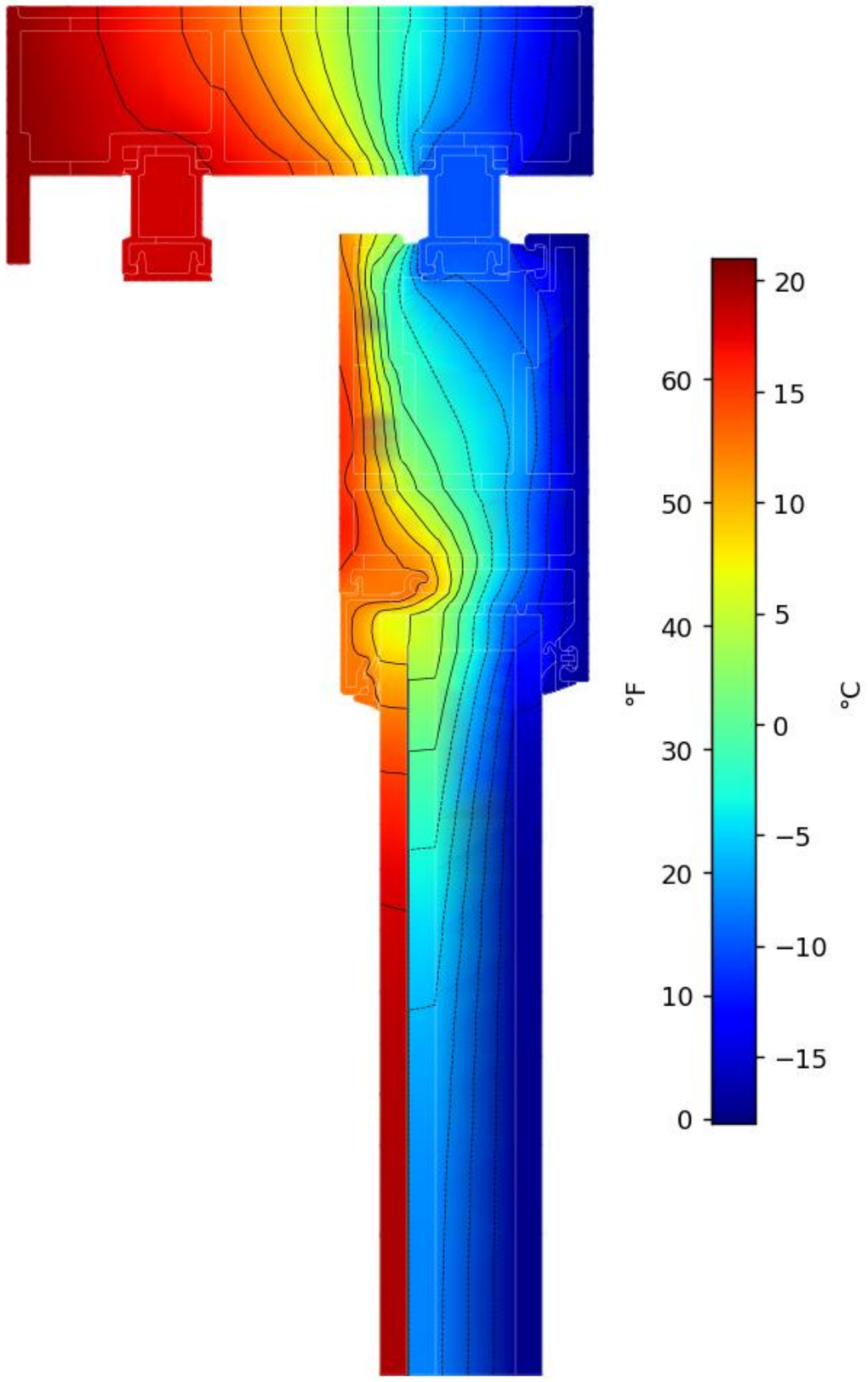
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Aluminum glazing bead, k 160 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR132 lift-slide door (XX) · Head (exterior sash) | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.605 W/m²K over 158.5 mm | Edge U 0.706 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door, two panels at 2000 x 2000 mm: KØLD 04 0.142 Btu/h·ft²·°F (R-7.0) · MILD 04 0.141 Btu/h·ft²·°F (R-7.1) · HEIT 04 0.140 Btu/h·ft²·°F (R-7.1)

Section and components



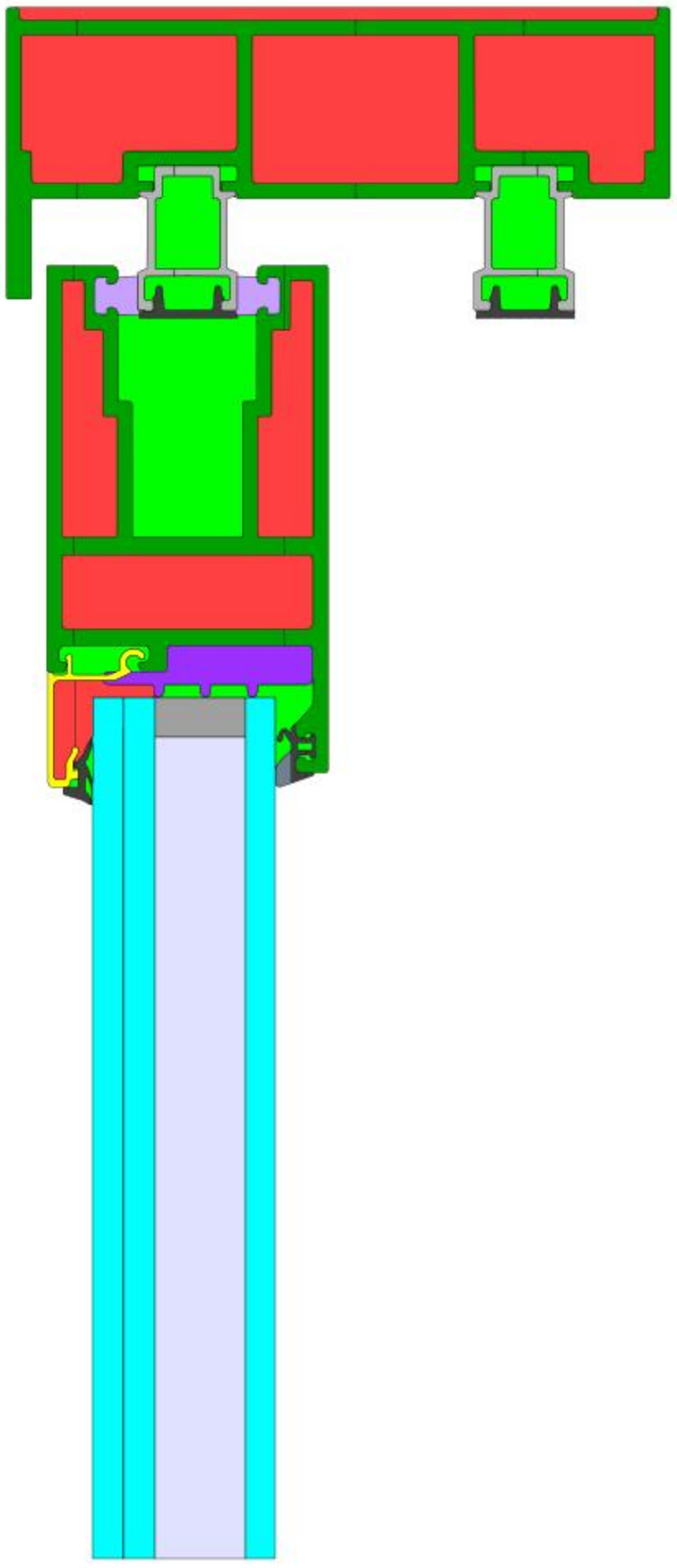
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



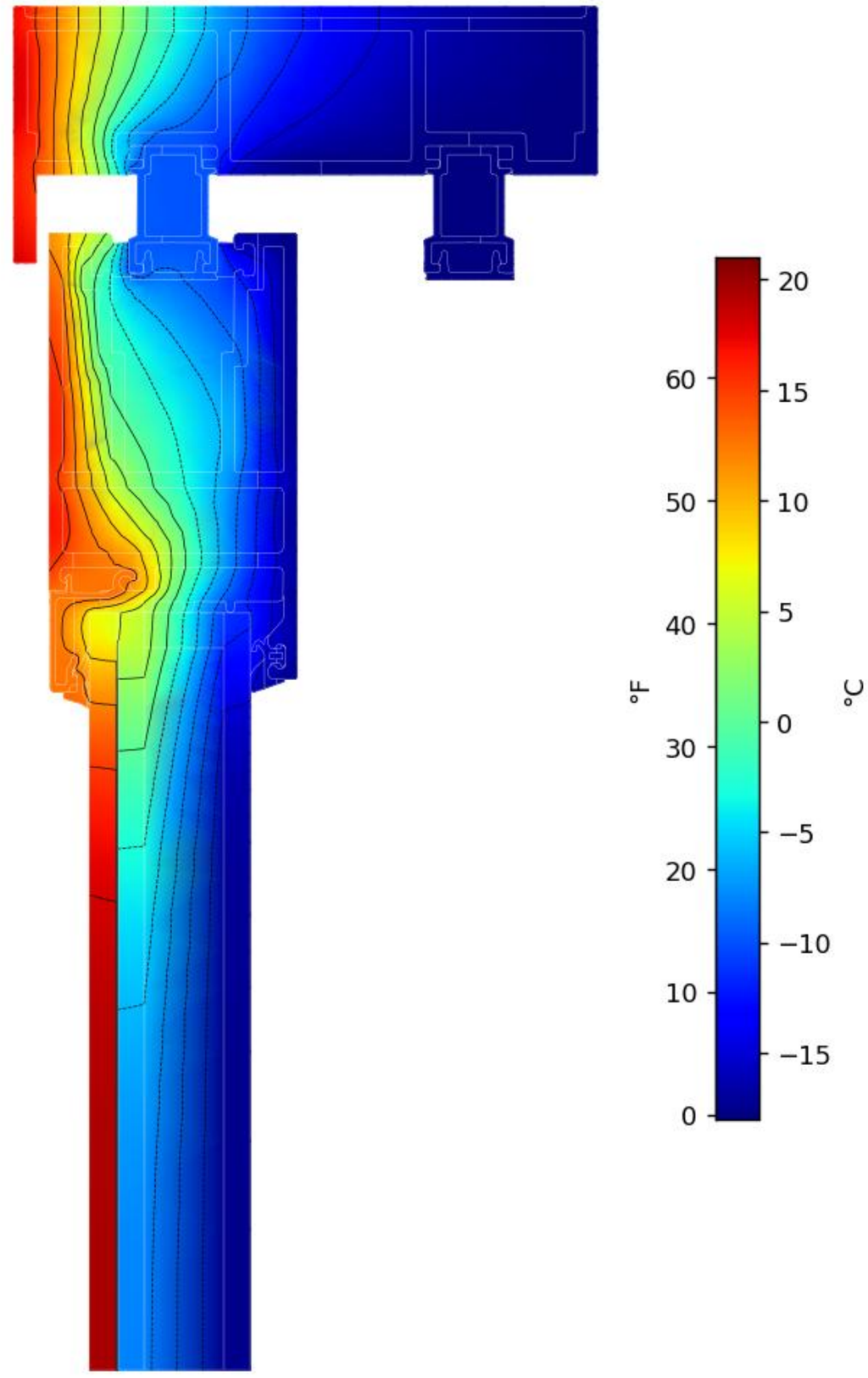
- Aluminum glazing bead, k 160 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Aluminum (track, covers, hardware profiles), k 160 W/m·K
- Air cavities (NFRC 100 cavity model)
- Still air at small openings, k 0.025 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K
- Brush pile weatherstrip (assumed), k 0.06 W/m·K
- PU foam glazing pad, k 0.024 W/m·K

GR132 lift-slide door (XX) · Head (interior sash) | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.620 W/m²K over 158.5 mm | Edge U 0.706 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door, two panels at 2000 x 2000 mm: KØLD 04 0.142 Btu/h·ft²·°F (R-7.0) · MILD 04 0.141 Btu/h·ft²·°F (R-7.1) · HEIT 04 0.140 Btu/h·ft²·°F (R-7.1)

Section and components



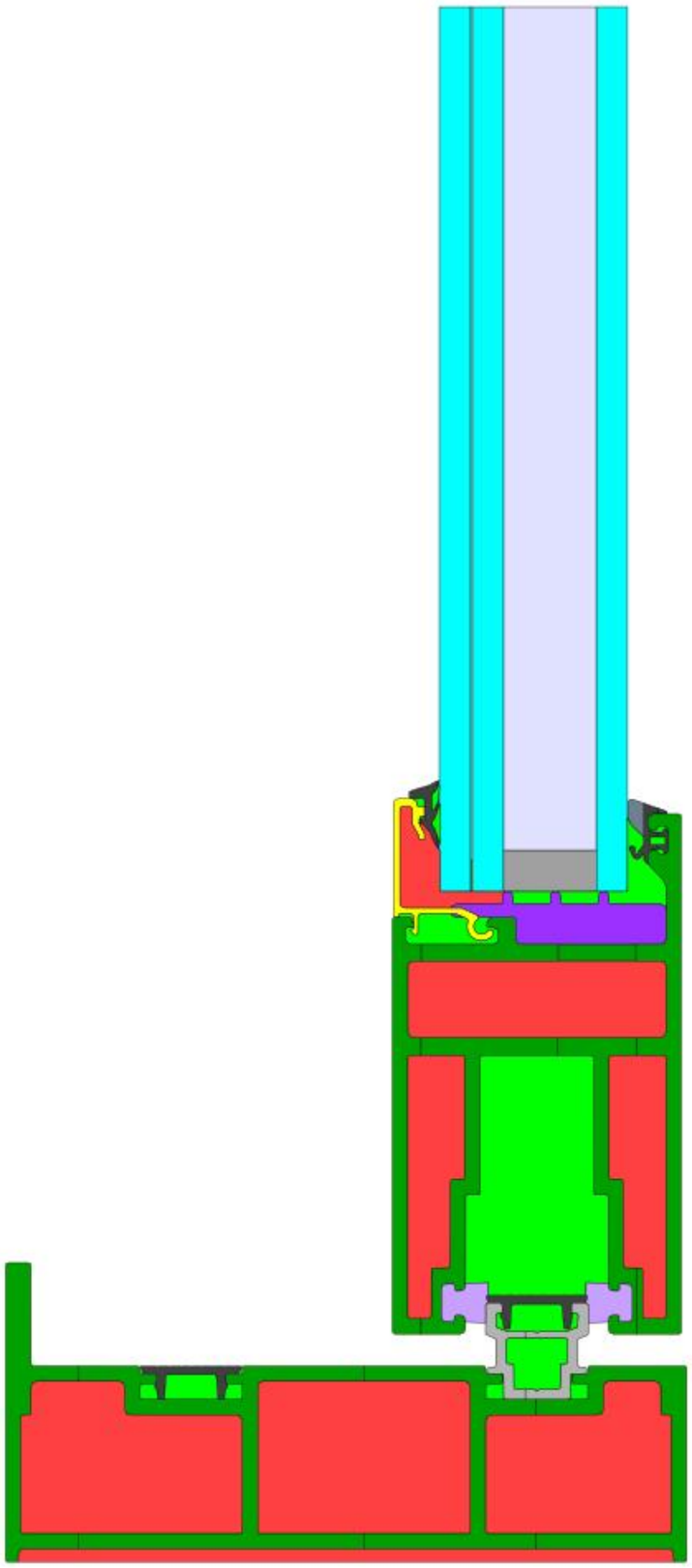
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



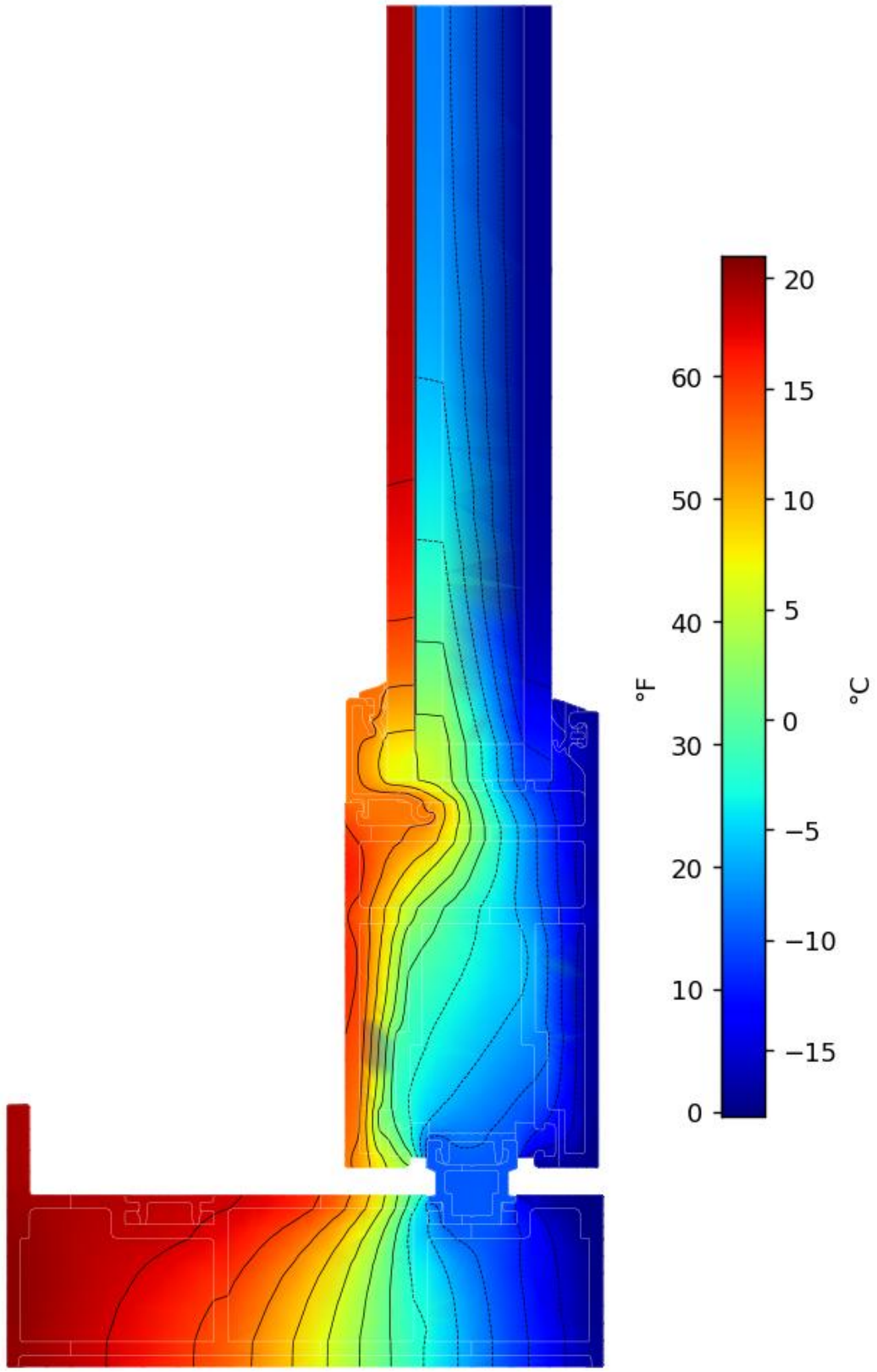
- Aluminum glazing bead, k 160 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Aluminum (track, covers, hardware profiles), k 160 W/m·K
- Still air at small openings, k 0.025 W/m·K
- Air cavities (NFRC 100 cavity model)
- PU foam (under glazing bead), k 0.024 W/m·K
- Brush pile weatherstrip (assumed), k 0.06 W/m·K
- PU foam glazing pad, k 0.024 W/m·K

GR132 lift-slide door (XX) · Jamb (exterior sash) | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.472 W/m²K over 151.5 mm | Edge U 0.703 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door, two panels at 2000 x 2000 mm: KØLD 04 0.142 Btu/h·ft²·°F (R-7.0) · MILD 04 0.141 Btu/h·ft²·°F (R-7.1) · HEIT 04 0.140 Btu/h·ft²·°F (R-7.1)

Section and components



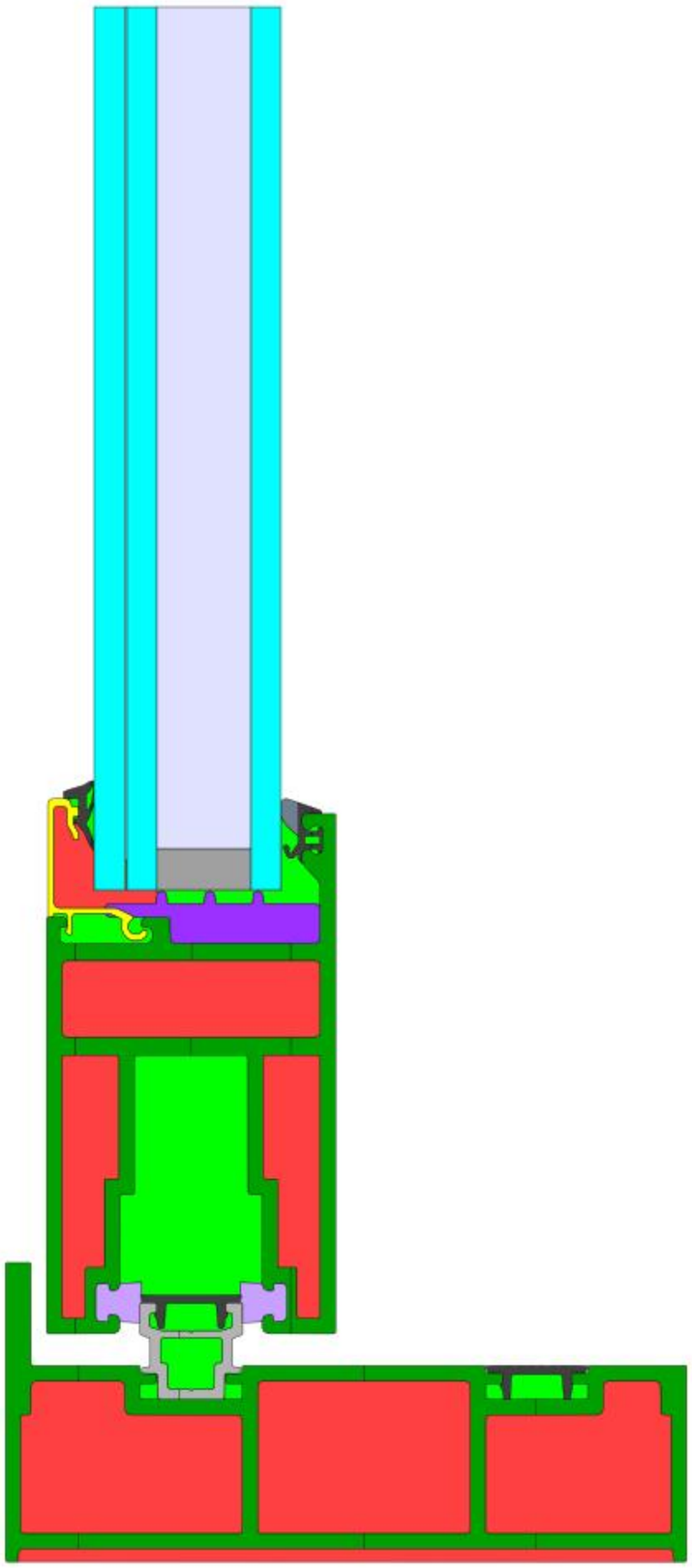
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



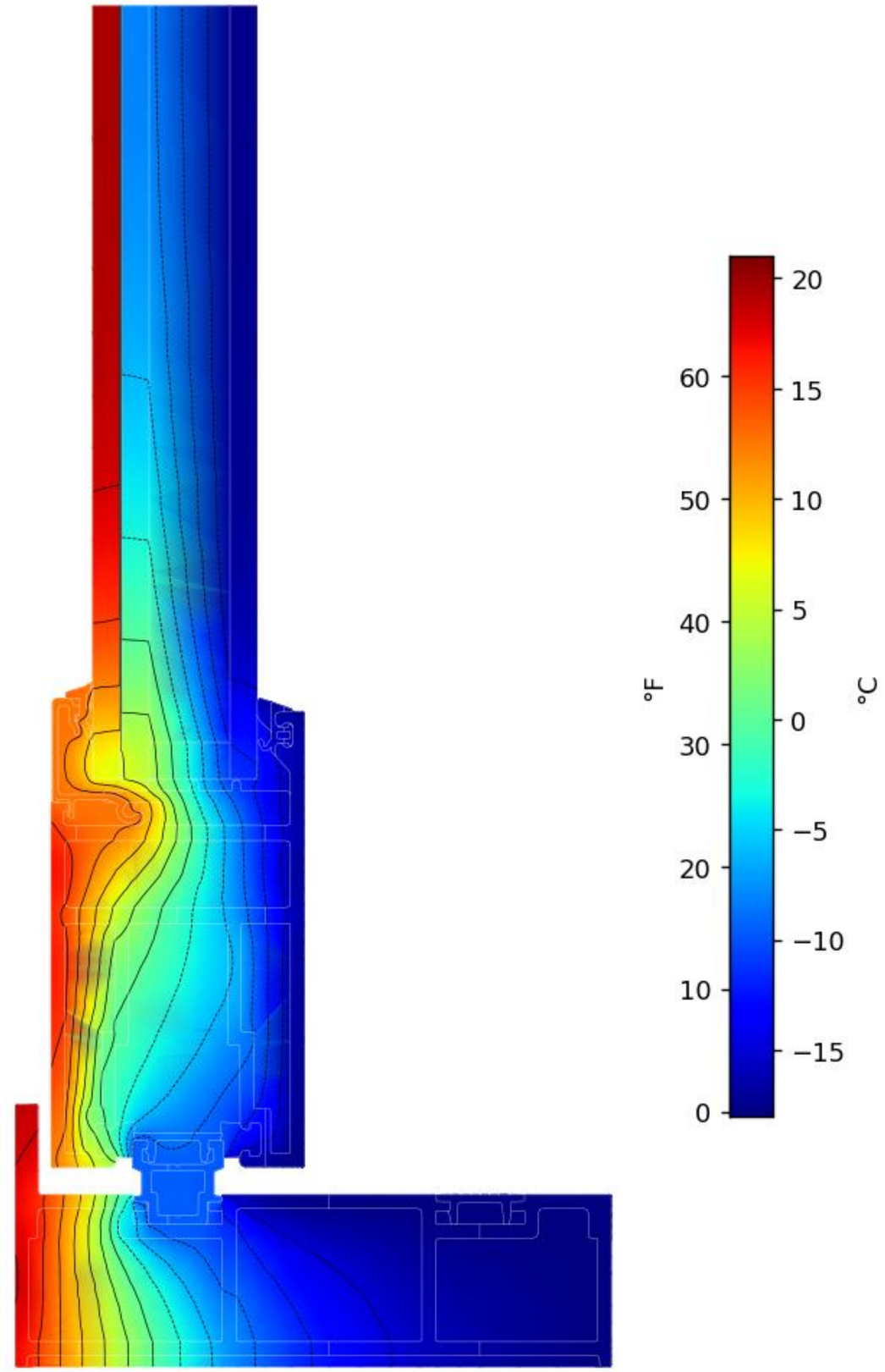
- Aluminum glazing bead, k 160 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Aluminum (track, covers, hardware profiles), k 160 W/m·K
- Air cavities (NFRC 100 cavity model)
- PU foam (under glazing bead), k 0.024 W/m·K
- Brush pile weatherstrip (assumed), k 0.06 W/m·K
- PU foam glazing pad, k 0.024 W/m·K

GR132 lift-slide door (XX) · Jamb (interior sash) | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.477 W/m²K over 151.4 mm | Edge U 0.705 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door, two panels at 2000 x 2000 mm: KØLD 04 0.142 Btu/h·ft²·°F (R-7.0) · MILD 04 0.141 Btu/h·ft²·°F (R-7.1) · HEIT 04 0.140 Btu/h·ft²·°F (R-7.1)

Section and components



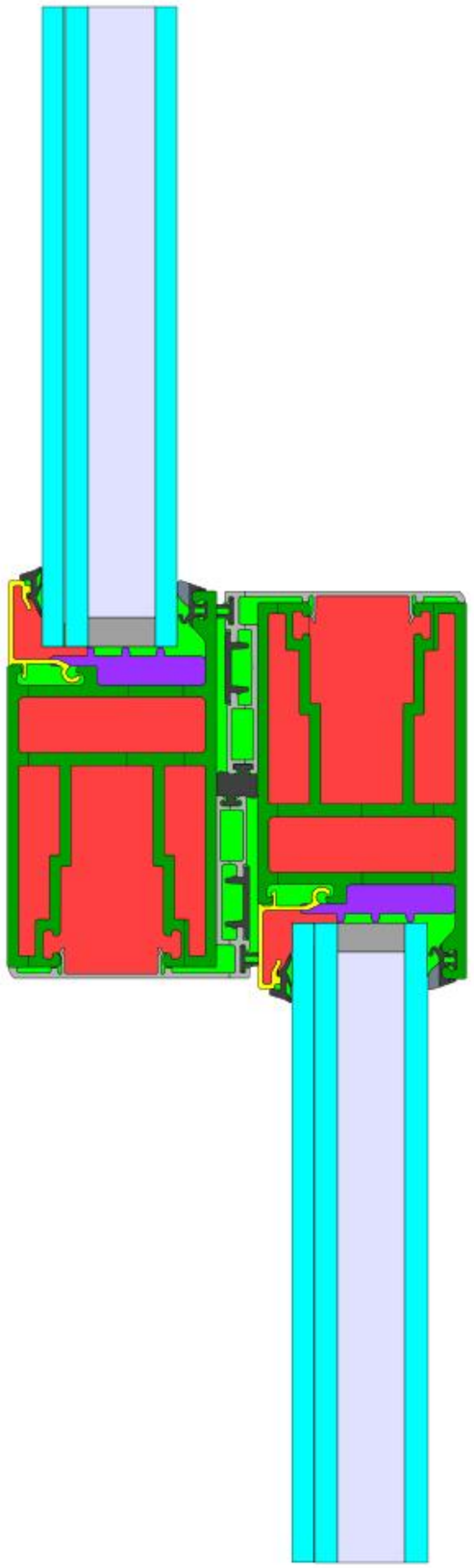
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



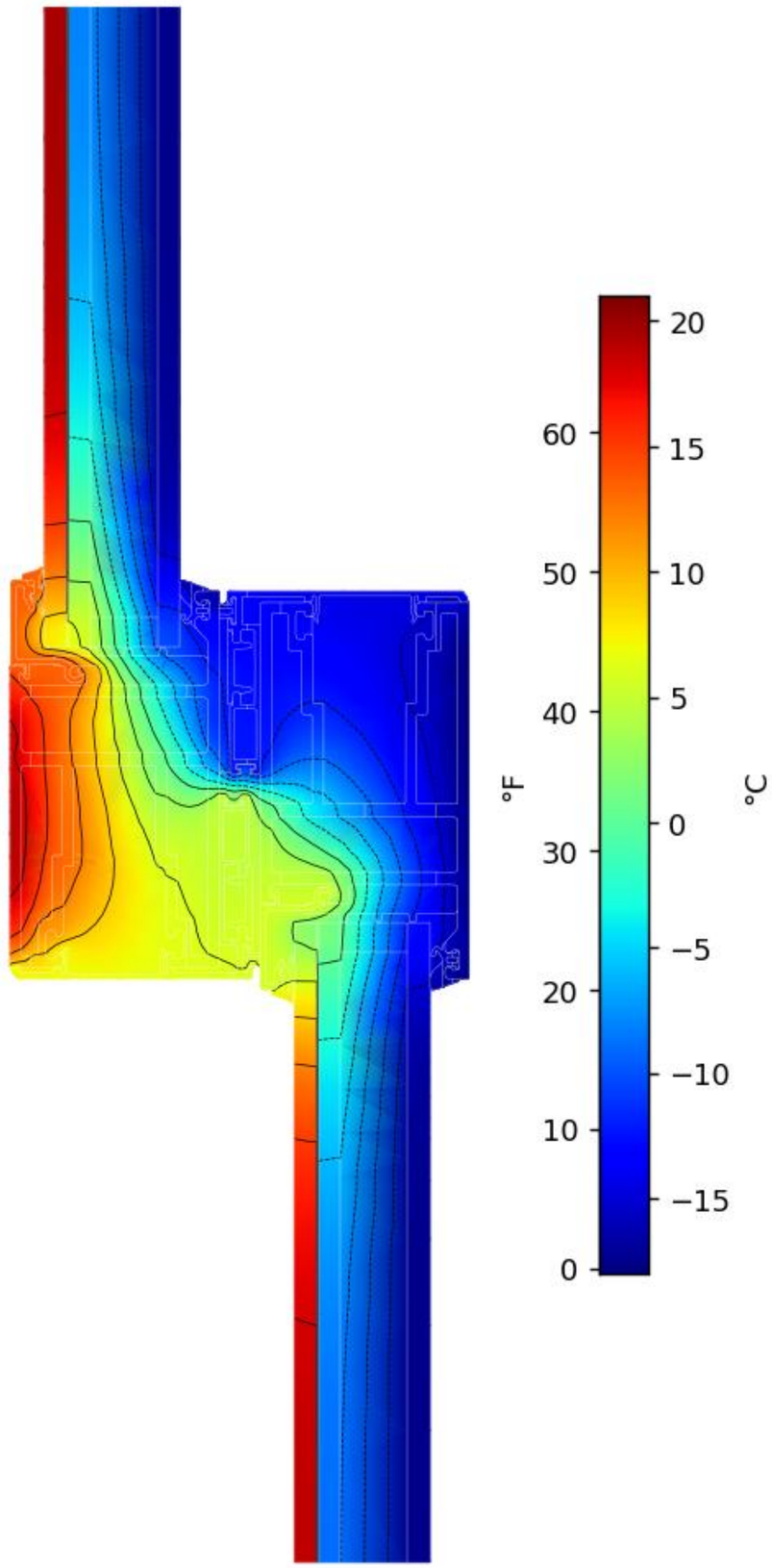
- Aluminum glazing bead, k 160 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Aluminum (track, covers, hardware profiles), k 160 W/m·K
- Air cavities (NFRC 100 cavity model)
- PU foam (under glazing bead), k 0.024 W/m·K
- Brush pile weatherstrip (assumed), k 0.06 W/m·K
- PU foam glazing pad, k 0.024 W/m·K

GR132 lift-slide door (XX) · Meeting (interlock) | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 2.580 W/m²K over 116.7 mm | Edge U 0.732 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door, two panels at 2000 x 2000 mm: KØLD 04 0.142 Btu/h·ft²·°F (R-7.0) · MILD 04 0.141 Btu/h·ft²·°F (R-7.1) · HEIT 04 0.140 Btu/h·ft²·°F (R-7.1)

Section and components



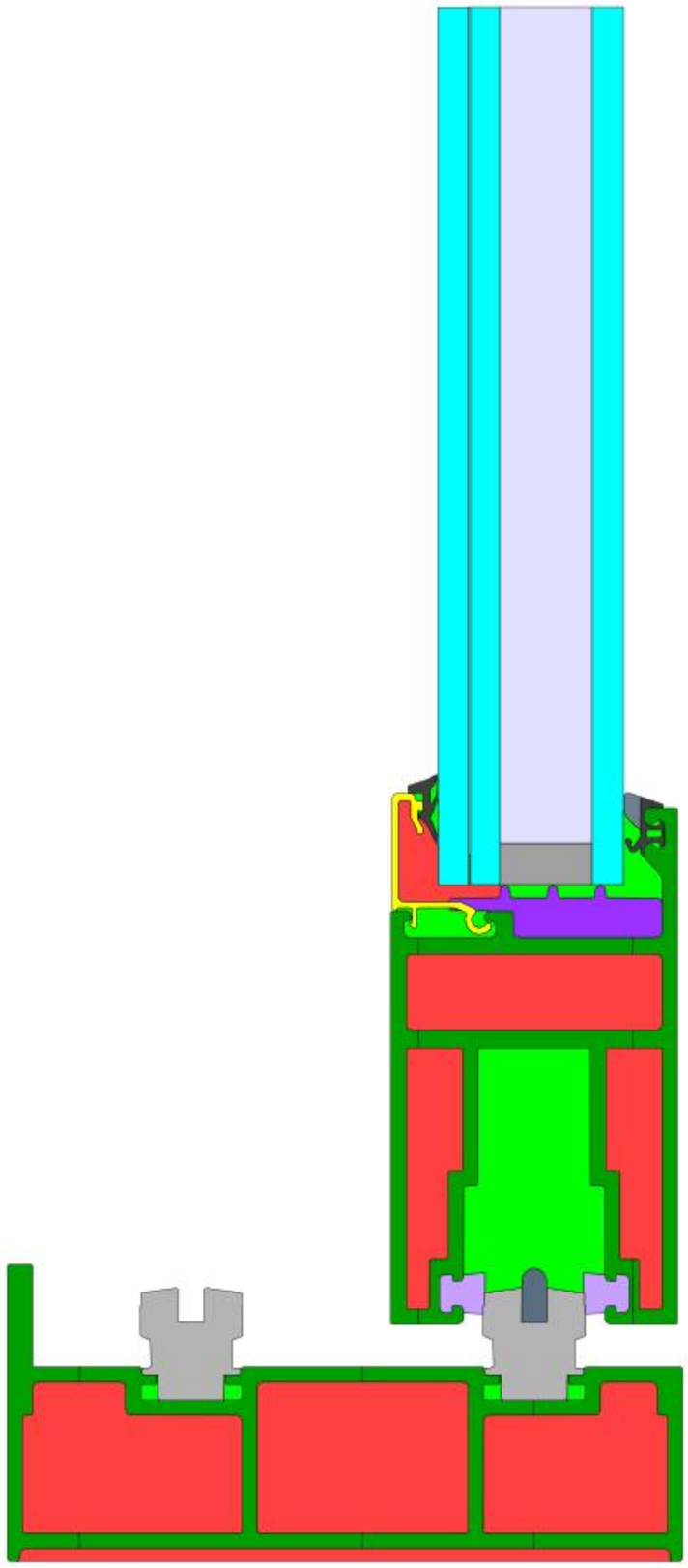
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



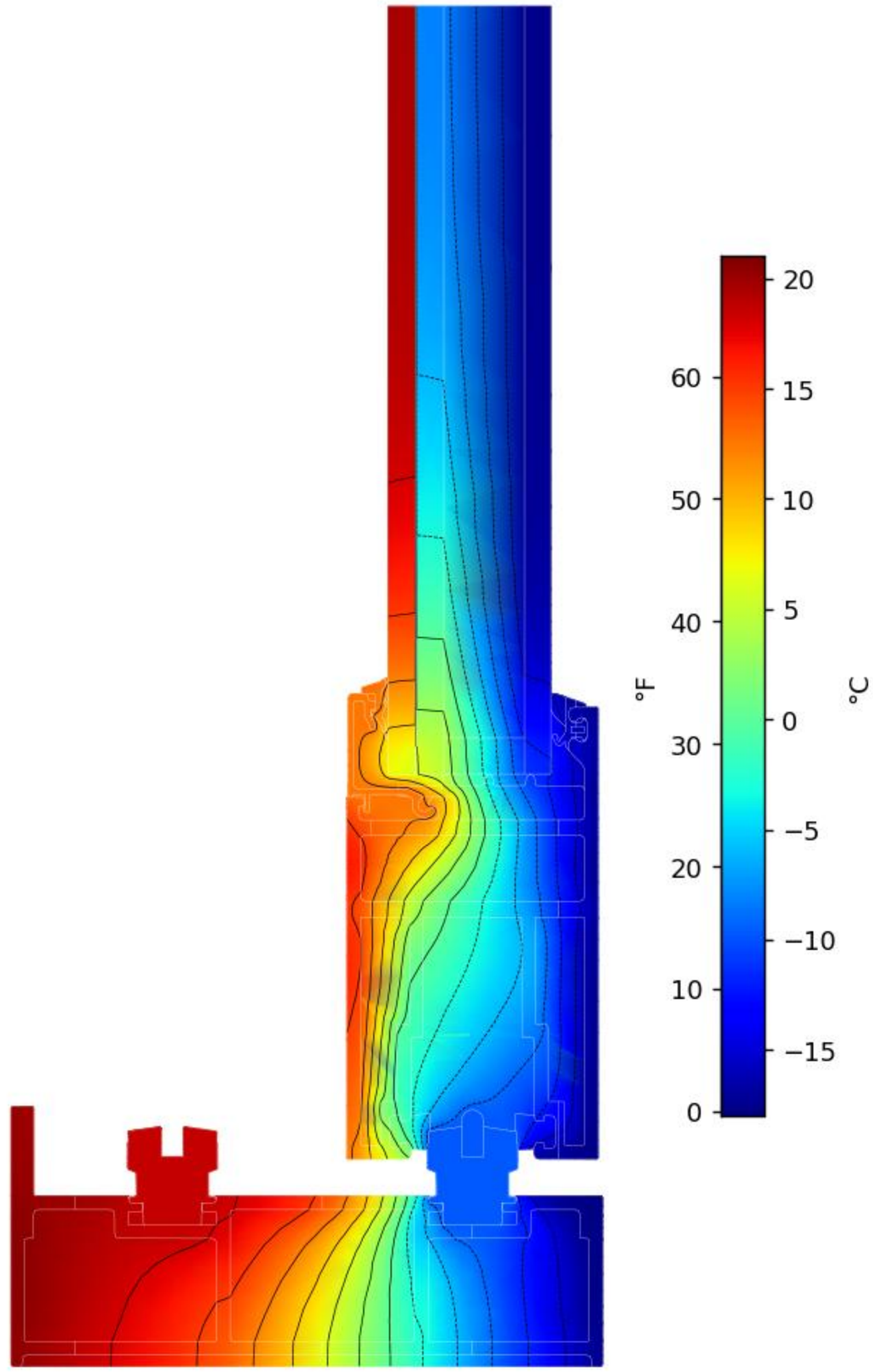
- Aluminum glazing bead, k 160 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Aluminum (track, covers, hardware profiles), k 160 W/m·K
- Air cavities (NFRC 100 cavity model)
- Still air at small openings, k 0.025 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K
- PU foam glazing pad, k 0.024 W/m·K

GR132 lift-slide door (XX) · Sill (exterior sash) | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.502 W/m²K over 153.6 mm | Edge U 0.704 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door, two panels at 2000 x 2000 mm: KØLD 04 0.142 Btu/h·ft²·°F (R-7.0) · MILD 04 0.141 Btu/h·ft²·°F (R-7.1) · HEIT 04 0.140 Btu/h·ft²·°F (R-7.1)

Section and components



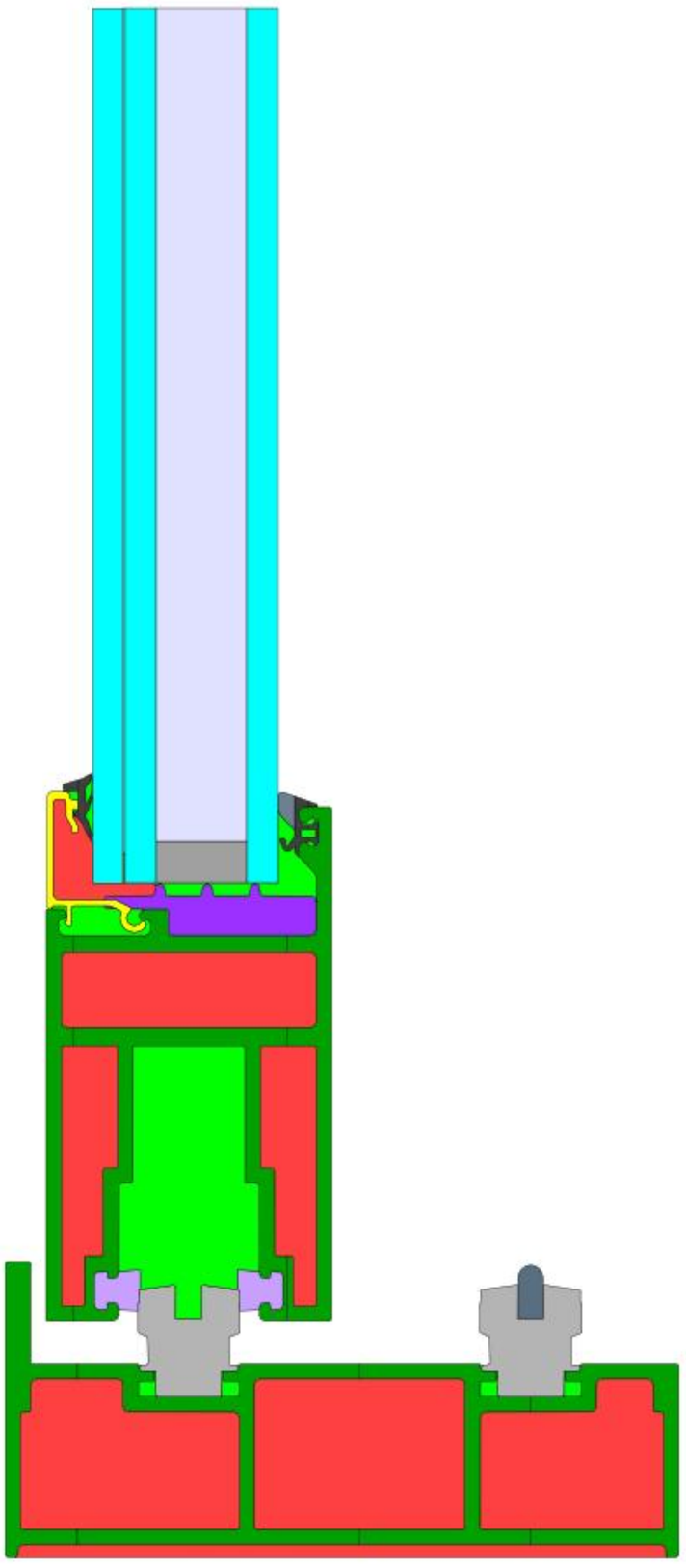
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



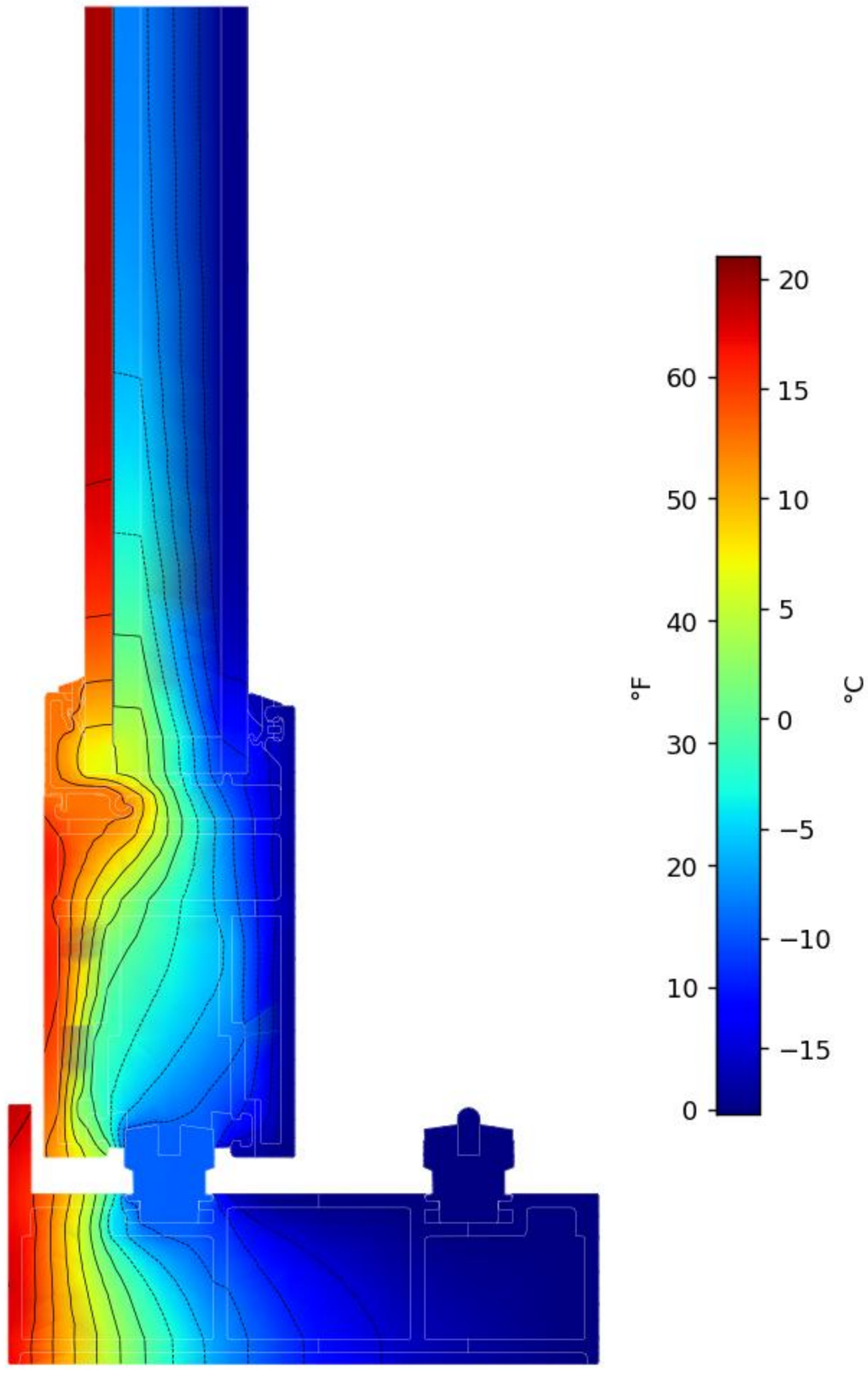
- Aluminum glazing bead, k 160 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Aluminum (track, covers, hardware profiles), k 160 W/m·K
- Steel guide rail, k 50 W/m·K
- Brush pile weatherstrip (assumed), k 0.06 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Still air at small openings, k 0.025 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR132 lift-slide door (XX) · Sill (interior sash) | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.530 W/m²K over 153.6 mm | Edge U 0.705 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door, two panels at 2000 x 2000 mm: KØLD 04 0.142 Btu/h·ft²·°F (R-7.0) · MILD 04 0.141 Btu/h·ft²·°F (R-7.1) · HEIT 04 0.140 Btu/h·ft²·°F (R-7.1)

Section and components



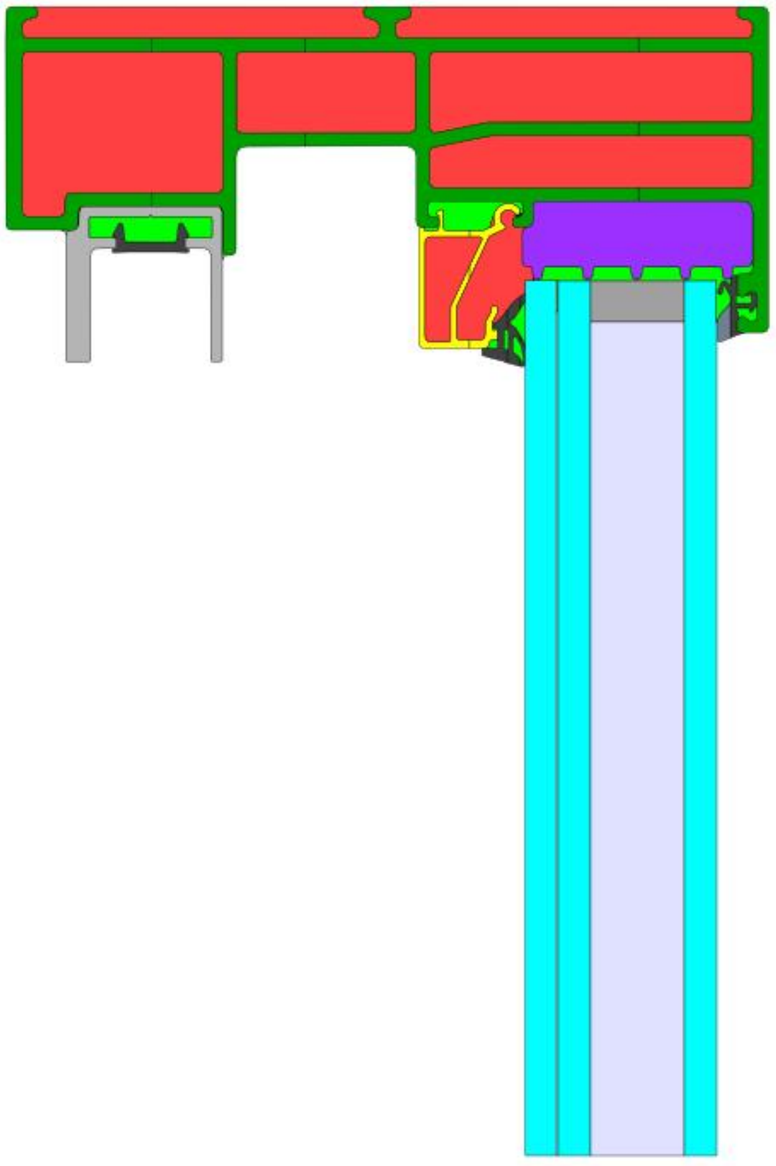
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



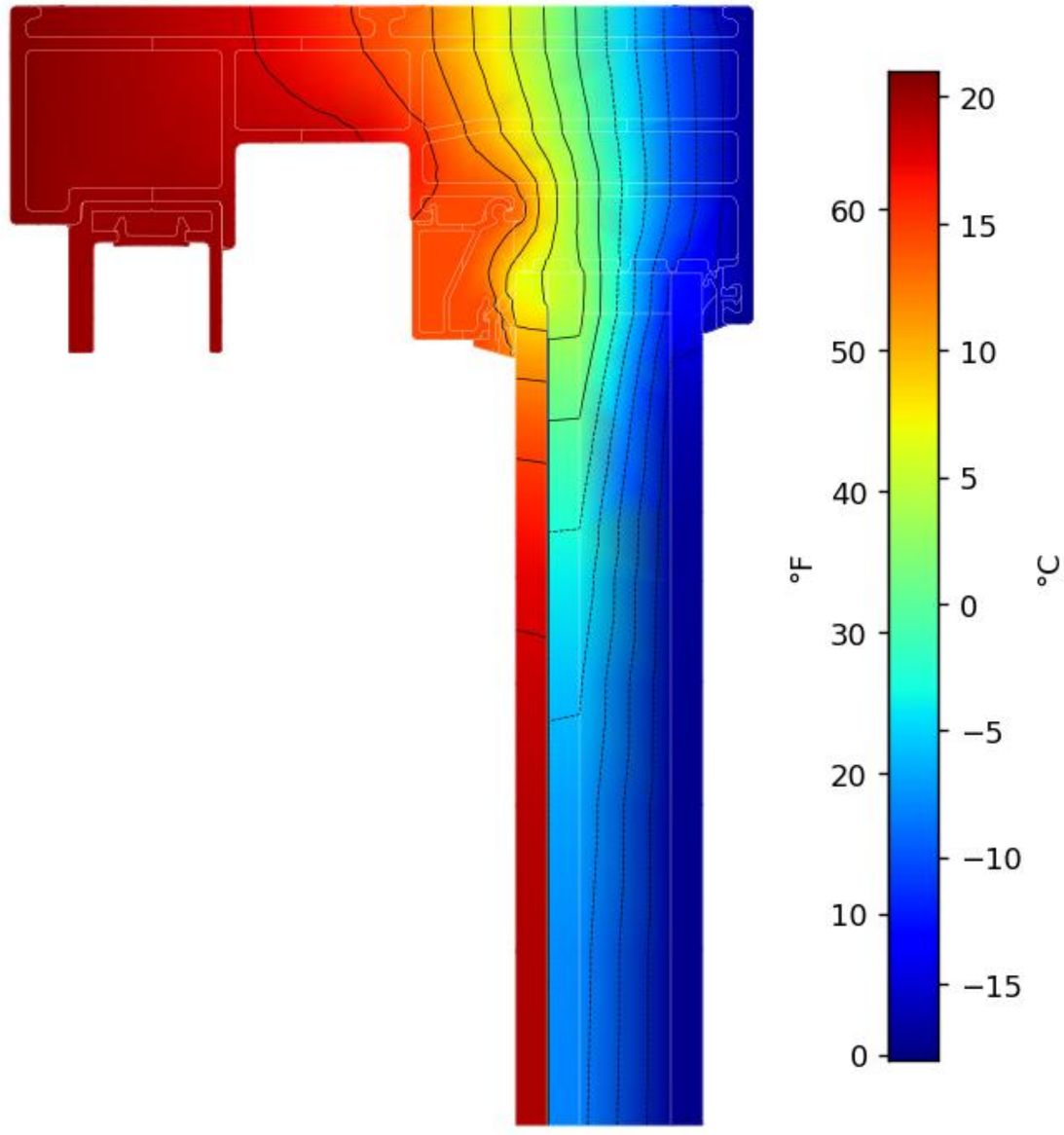
- Aluminum glazing bead, k 160 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- Aluminum (track, covers, hardware profiles), k 160 W/m·K
- Steel guide rail, k 50 W/m·K
- Brush pile weatherstrip (assumed), k 0.06 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- Still air at small openings, k 0.025 W/m·K
- Air cavities (NFRC 100 cavity model)
- PU foam (under glazing bead), k 0.024 W/m·K

GR145 sliding door (fixed + sliding, XO) · Head (fixed panel) | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 0.990 W/m²K over 68.4 mm | Edge U 0.750 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door, two panels at 2000 x 2000 mm: KØLD 04 0.113 Btu/h·ft²·°F (R-8.8) · MILD 04 0.111 Btu/h·ft²·°F (R-9.0) · HEIT 04 0.111 Btu/h·ft²·°F (R-9.0)

Section and components



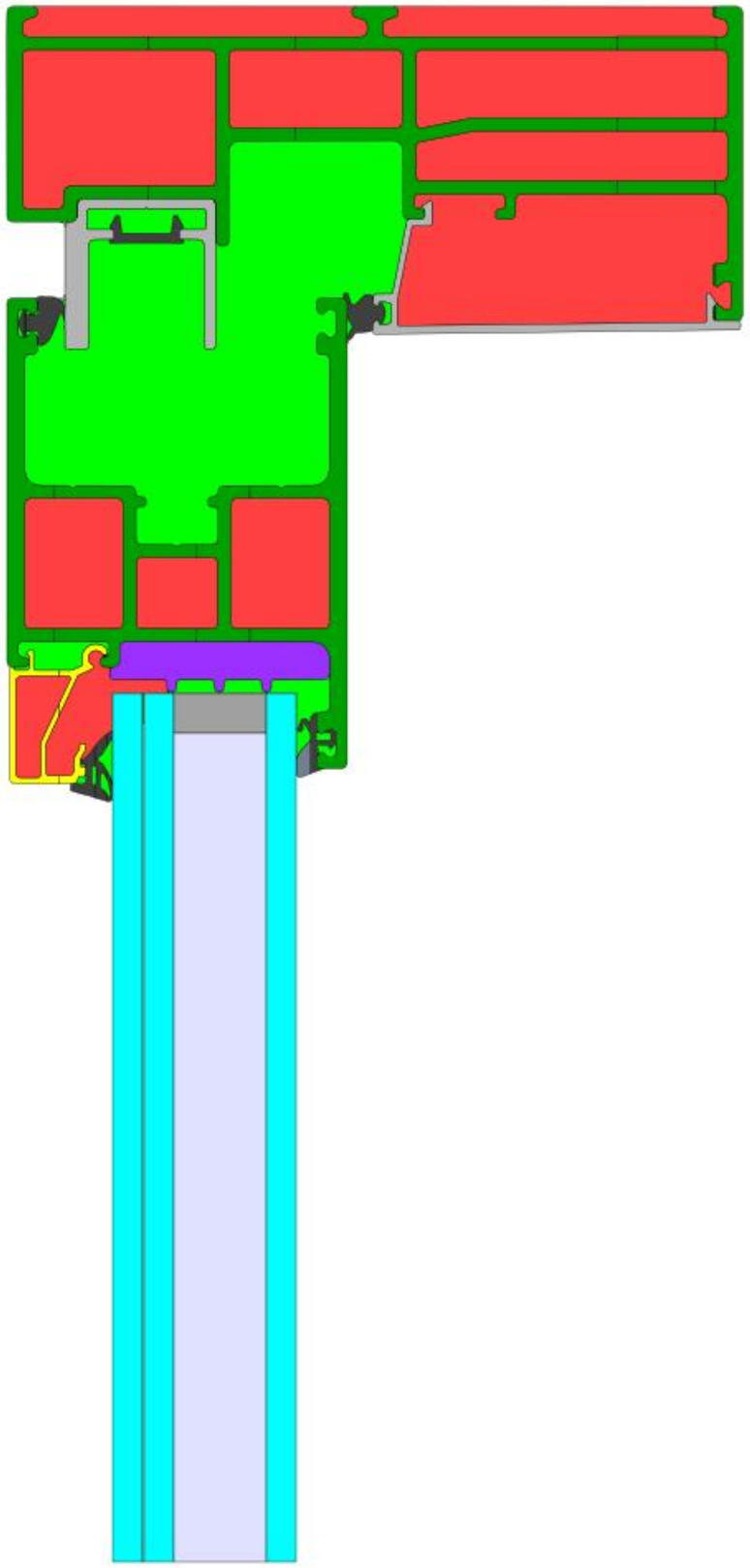
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



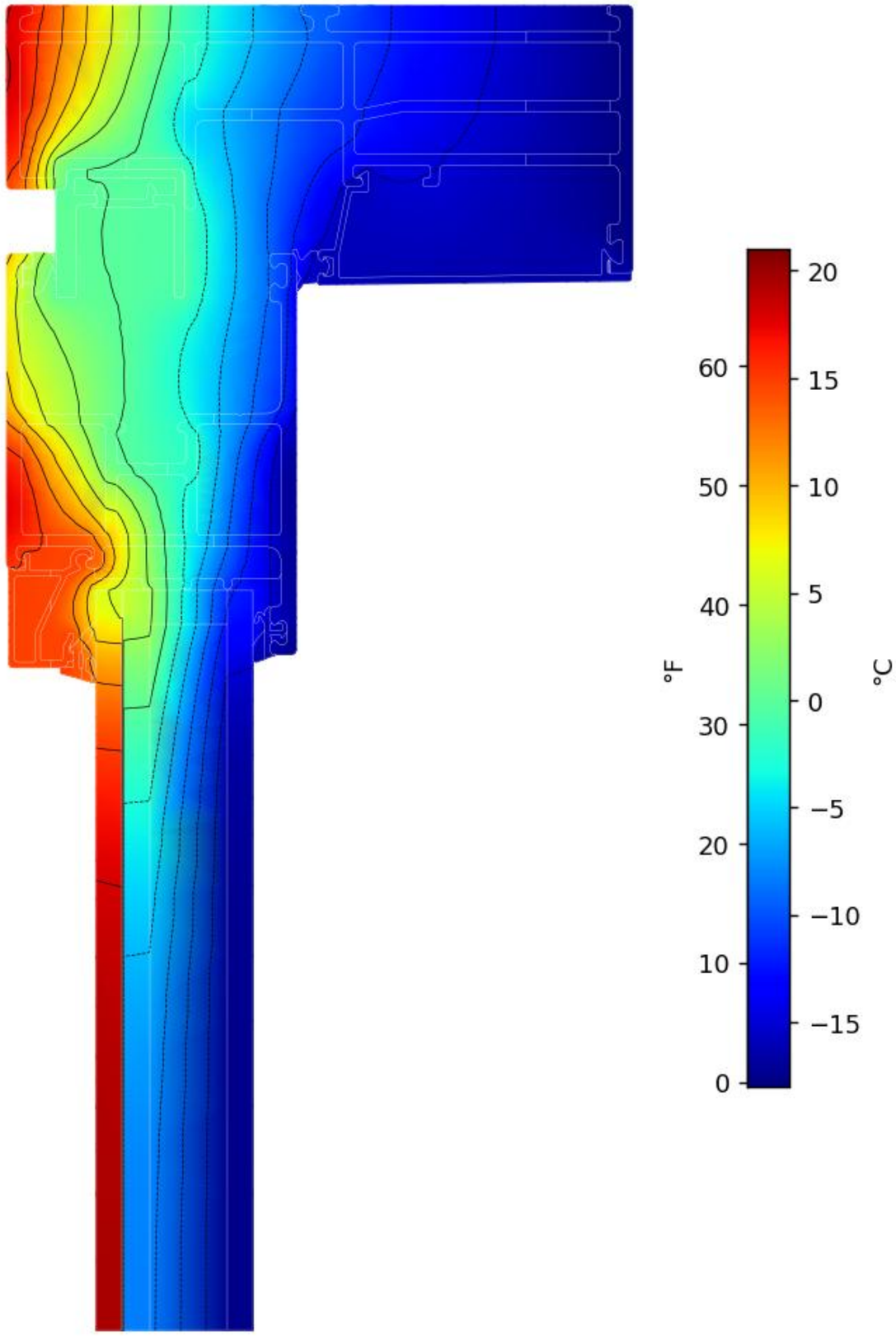
- Aluminum glazing bead, k 160 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- Aluminum (track, covers, hardware profiles), k 160 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Still air at small openings, k 0.025 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR145 sliding door (fixed + sliding, XO) · Head (sliding panel) | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.715 W/m²K over 156.7 mm | Edge U 0.700 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door, two panels at 2000 x 2000 mm: KØLD 04 0.113 Btu/h·ft²·°F (R-8.8) · MILD 04 0.111 Btu/h·ft²·°F (R-9.0) · HEIT 04 0.111 Btu/h·ft²·°F (R-9.0)

Section and components



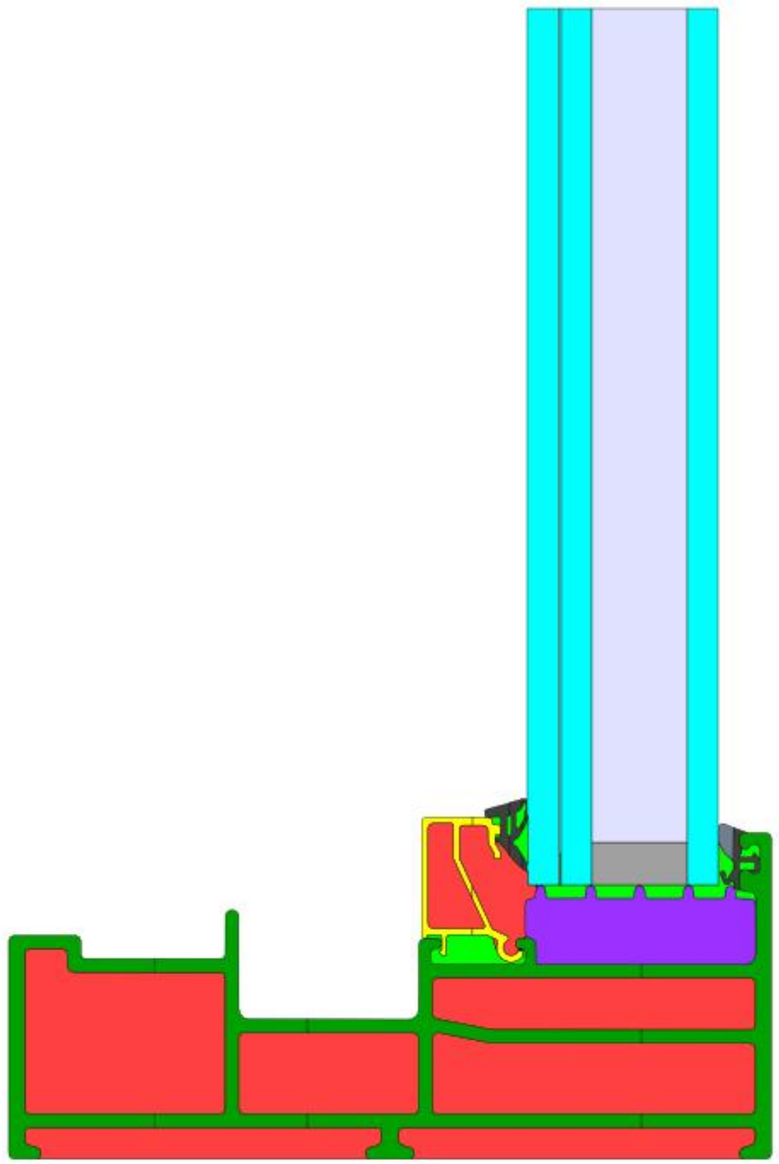
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



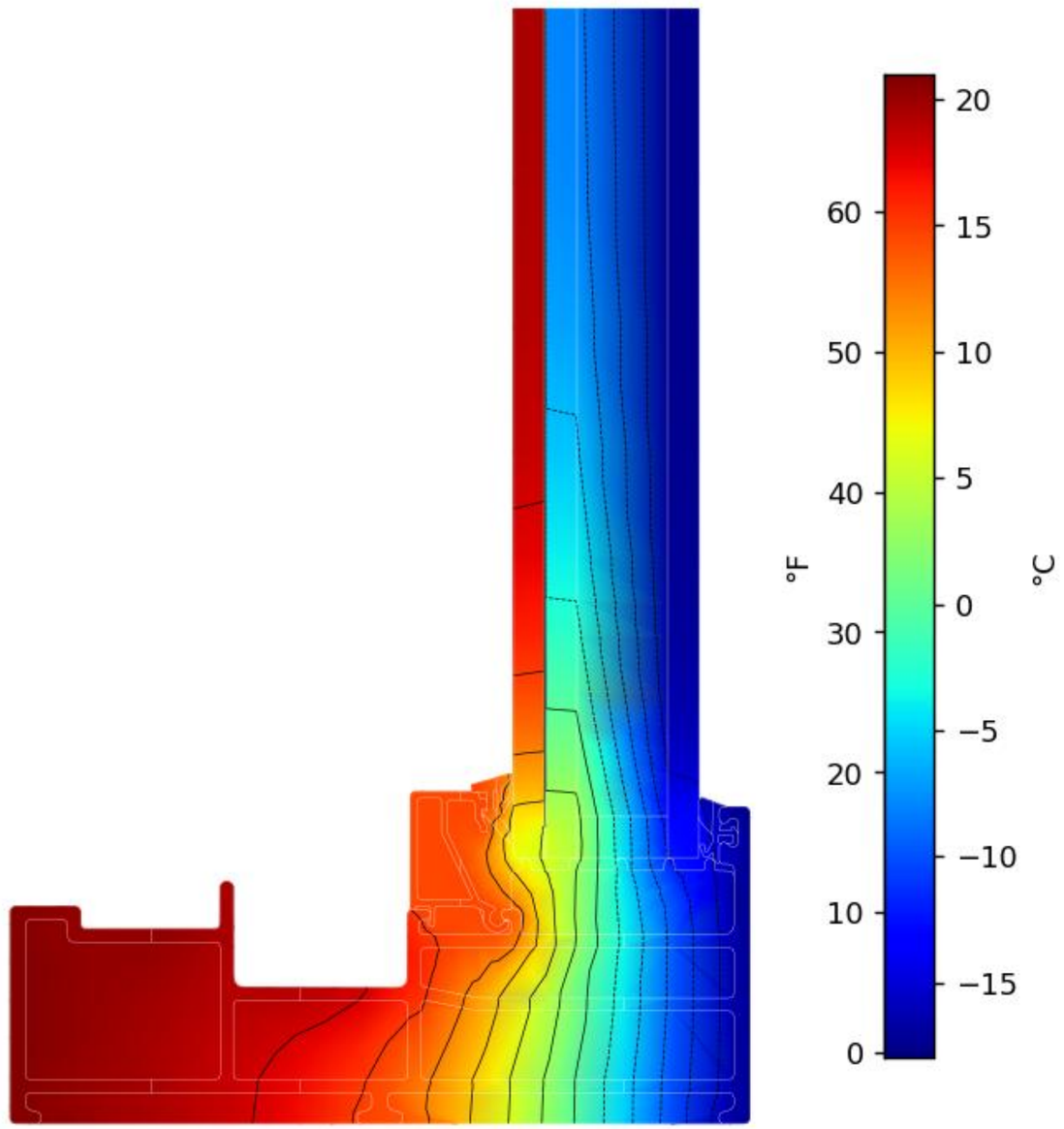
- Aluminum glazing bead, k 160 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- Aluminum (track, covers, hardware profiles), k 160 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Still air at small openings, k 0.025 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR145 sliding door (fixed + sliding, XO) · Jamb (fixed panel) | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 0.997 W/m²K over 68.5 mm | Edge U 0.754 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door, two panels at 2000 x 2000 mm: KØLD 04 0.113 Btu/h·ft²·°F (R-8.8) · MILD 04 0.111 Btu/h·ft²·°F (R-9.0) · HEIT 04 0.111 Btu/h·ft²·°F (R-9.0)

Section and components



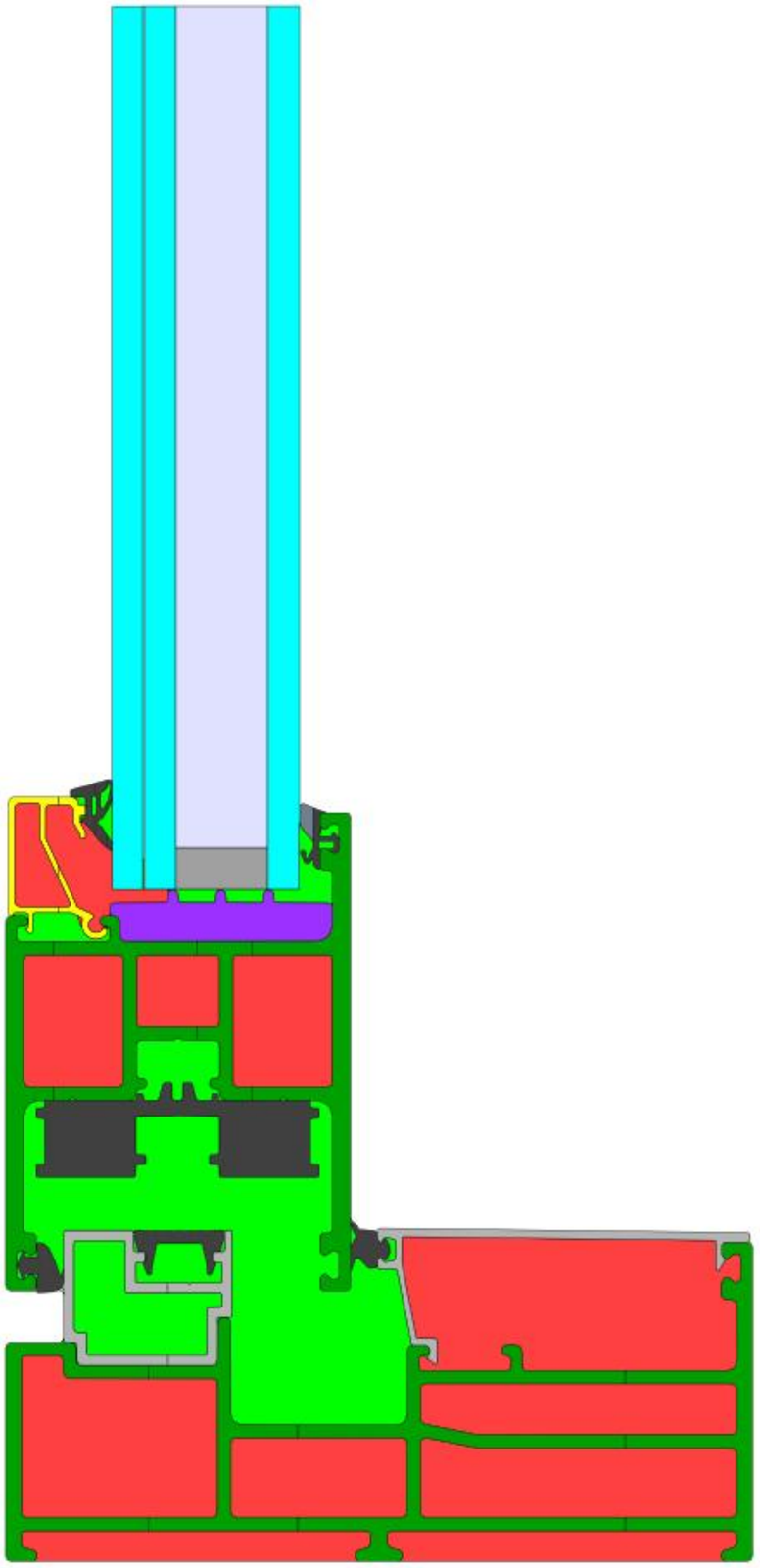
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



- Aluminum glazing bead, k 160 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- PU foam (under glazing bead), k 0.024 W/m·K

GR145 sliding door (fixed + sliding, XO) · Jamb (sliding panel) | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.526 W/m²K over 151.8 mm | Edge U 0.700 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door, two panels at 2000 x 2000 mm: KØLD 04 0.113 Btu/h·ft²·°F (R-8.8) · MILD 04 0.111 Btu/h·ft²·°F (R-9.0) · HEIT 04 0.111 Btu/h·ft²·°F (R-9.0)

Section and components

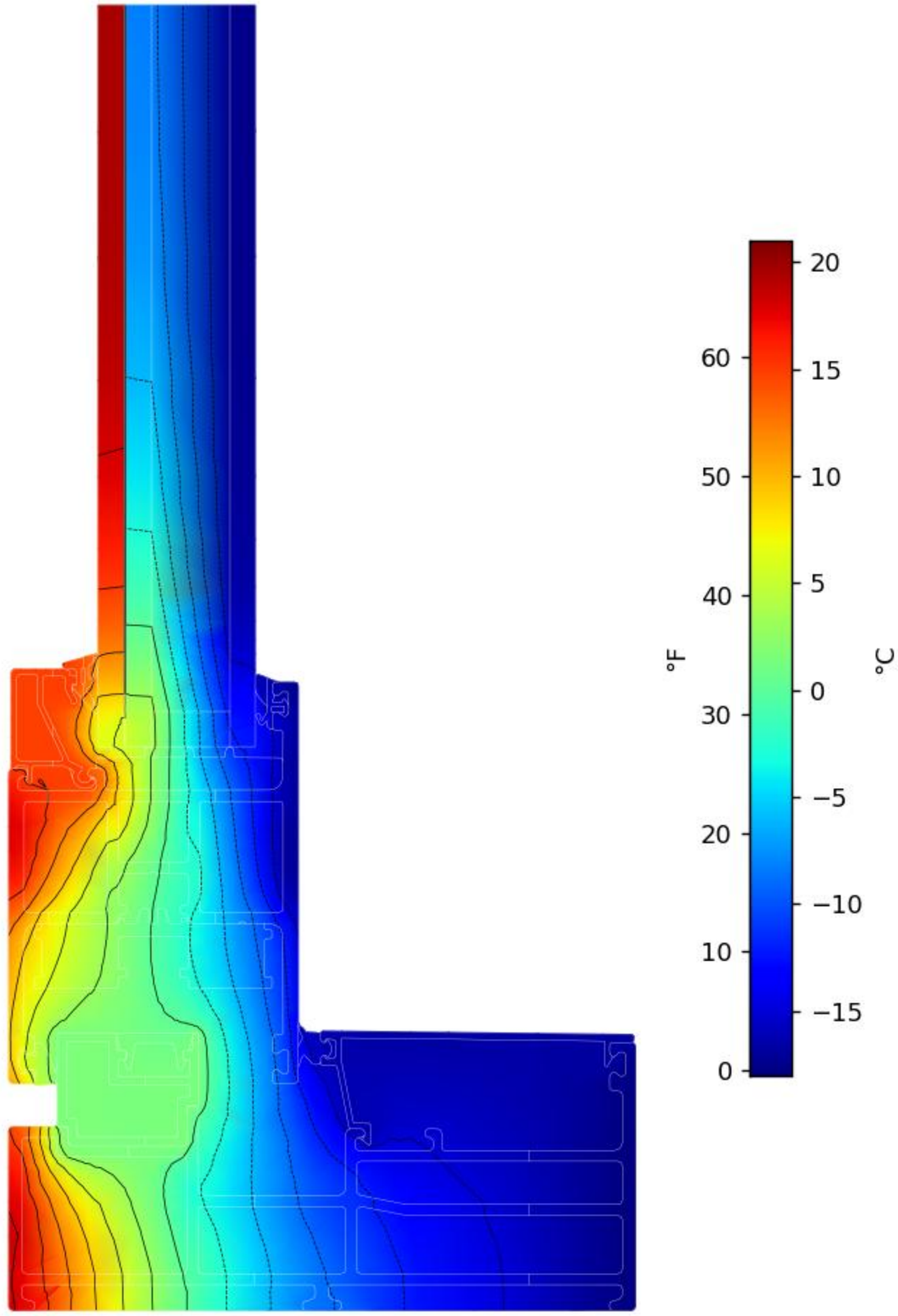


ROOM
21 °C / 70 °F

OUTSIDE
-18 °C / 0 °F

- Aluminum glazing bead, k 160 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- Aluminum (track, covers, hardware profiles), k 160 W/m·K
- Air cavities (NFRC 100 cavity model)
- Still air at small openings, k 0.025 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K
- PU foam glazing pad, k 0.024 W/m·K

Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)

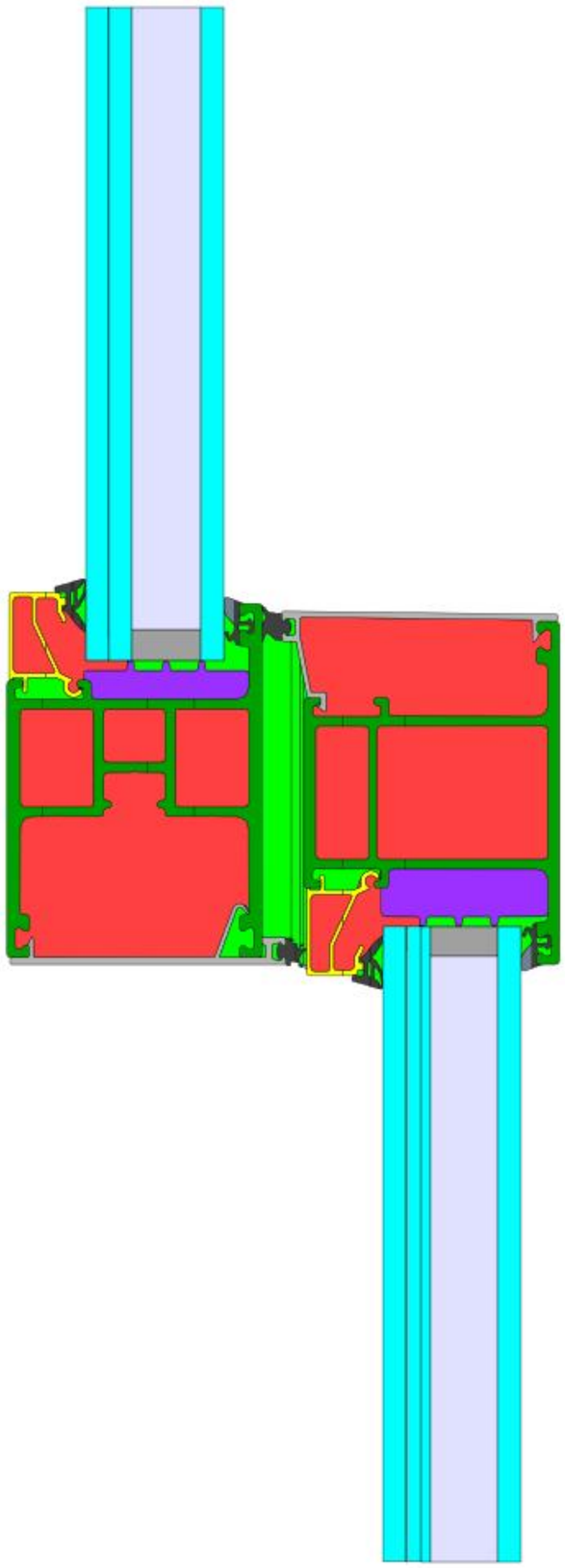


ROOM
21 °C / 70 °F

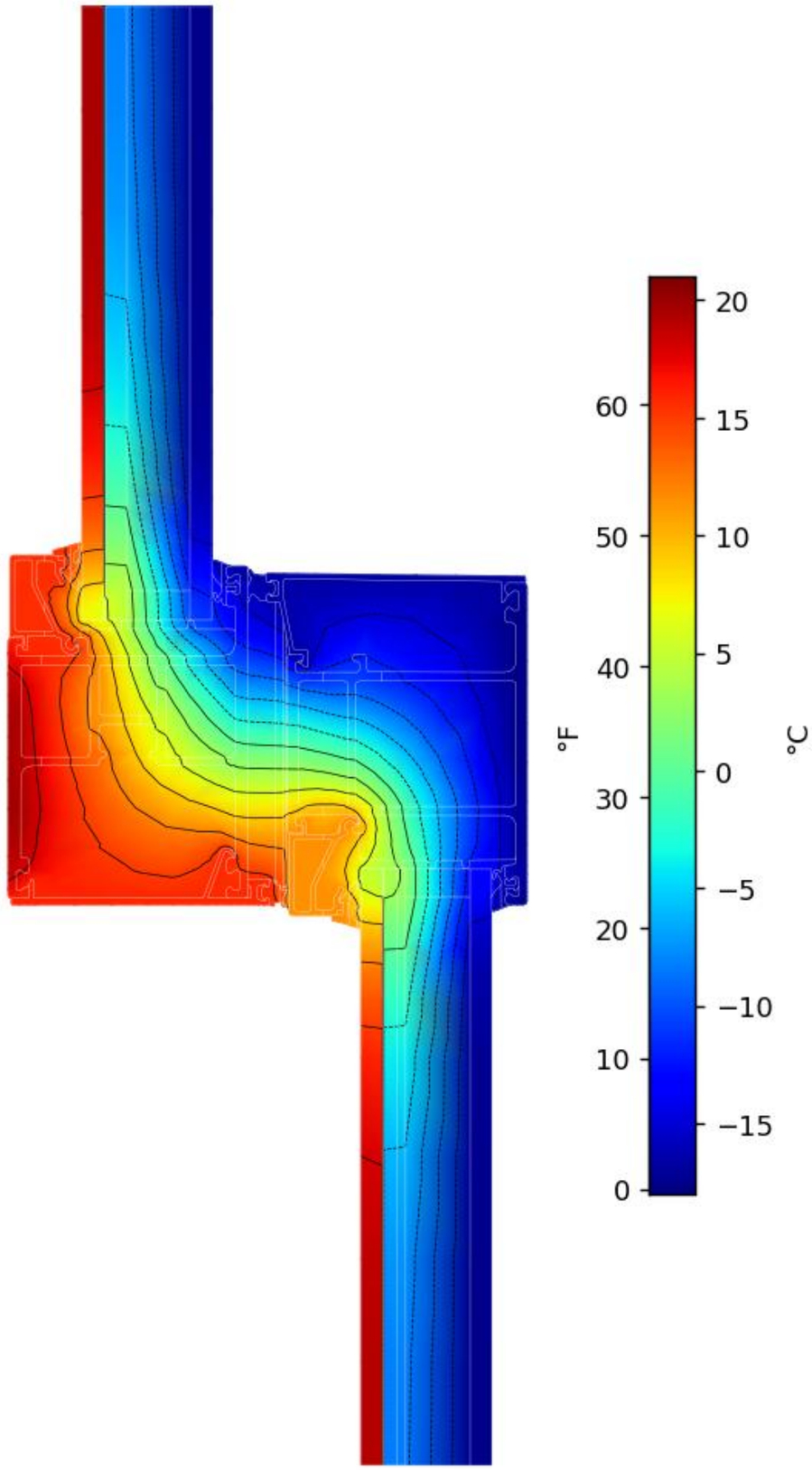
OUTSIDE
-18 °C / 0 °F

GR145 sliding door (fixed + sliding, XO) · Meeting (interlock) | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.619 W/m²K over 107.5 mm | Edge U 0.727 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door, two panels at 2000 x 2000 mm: KØLD 04 0.113 Btu/h·ft²·°F (R-8.8) · MILD 04 0.111 Btu/h·ft²·°F (R-9.0) · HEIT 04 0.111 Btu/h·ft²·°F (R-9.0)

Section and components



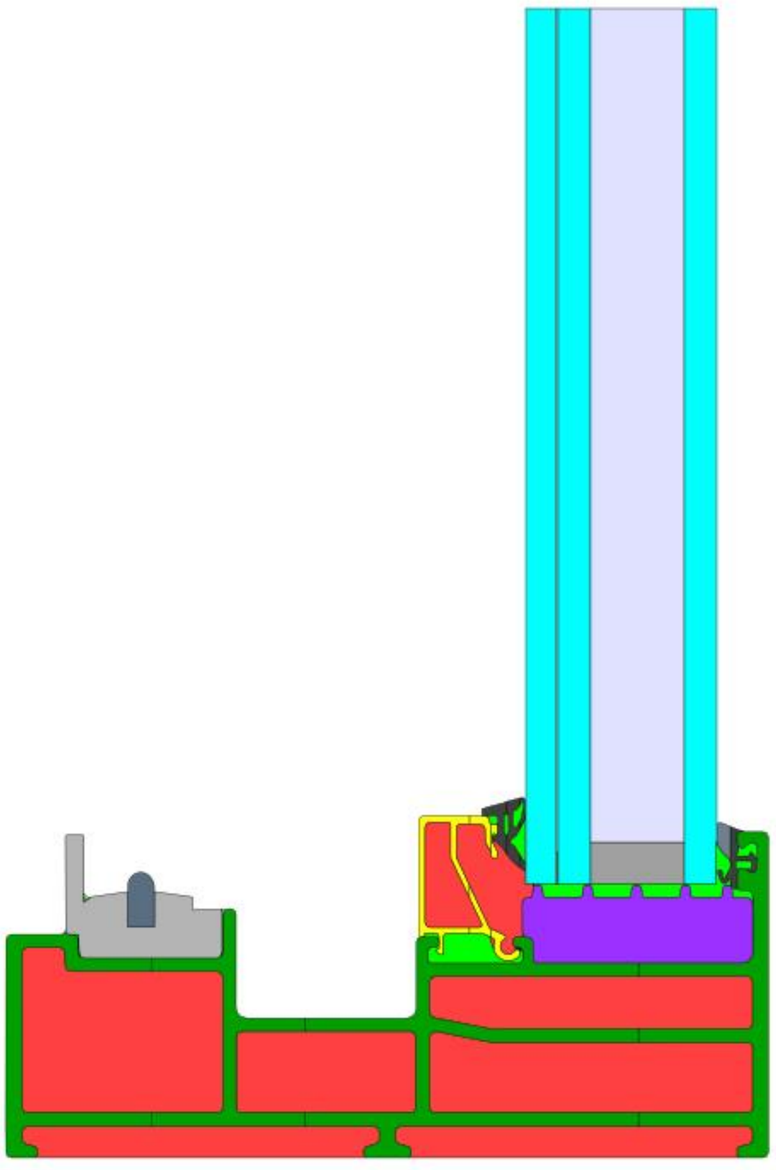
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



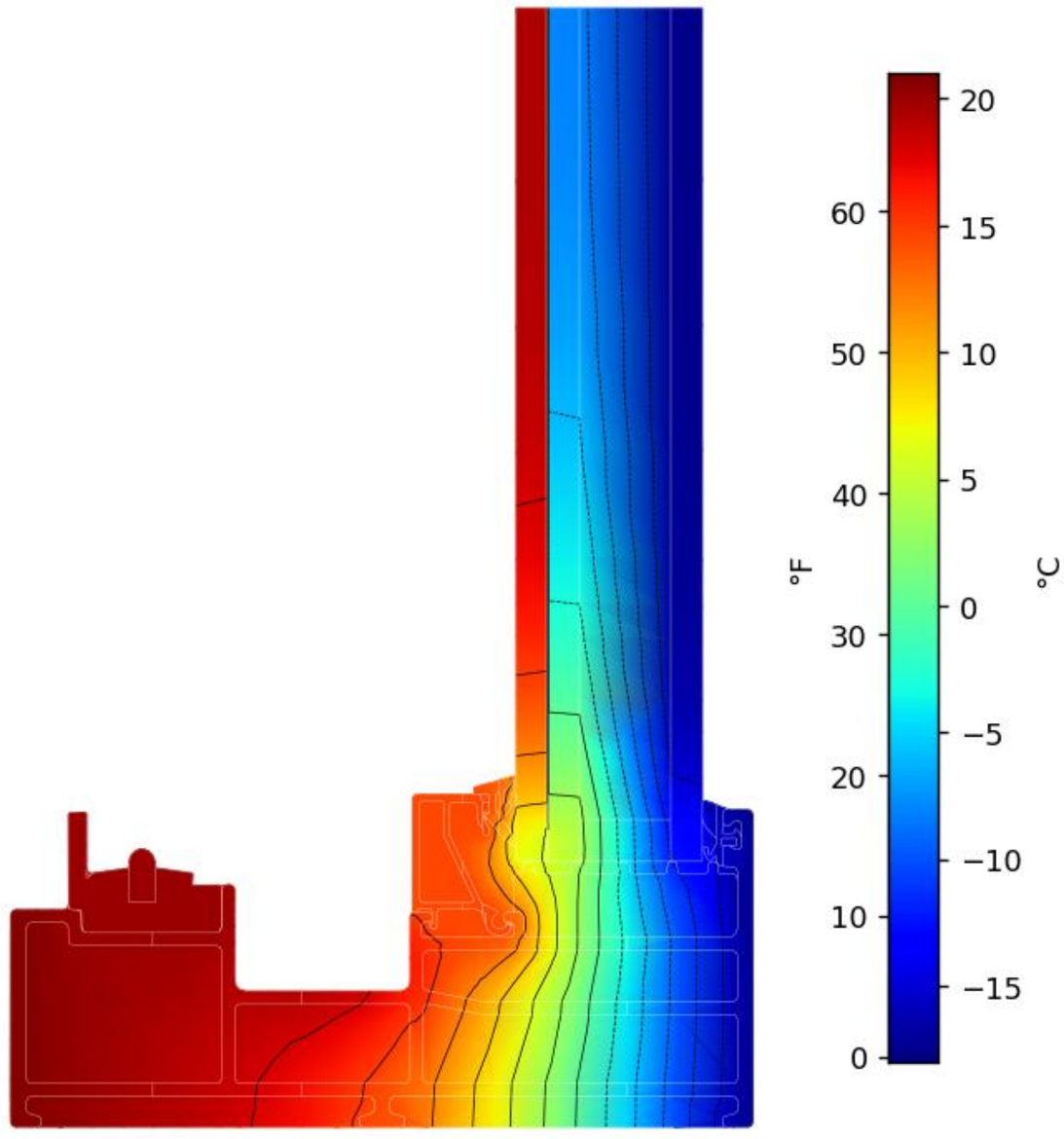
- Aluminum glazing bead, k 160 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- Aluminum (track, covers, hardware profiles), k 160 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Still air at small openings, k 0.025 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR145 sliding door (fixed + sliding, XO) · Sill (fixed panel) | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 0.995 W/m²K over 68.5 mm | Edge U 0.751 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door, two panels at 2000 x 2000 mm: KØLD 04 0.113 Btu/h·ft²·°F (R-8.8) · MILD 04 0.111 Btu/h·ft²·°F (R-9.0) · HEIT 04 0.111 Btu/h·ft²·°F (R-9.0)

Section and components



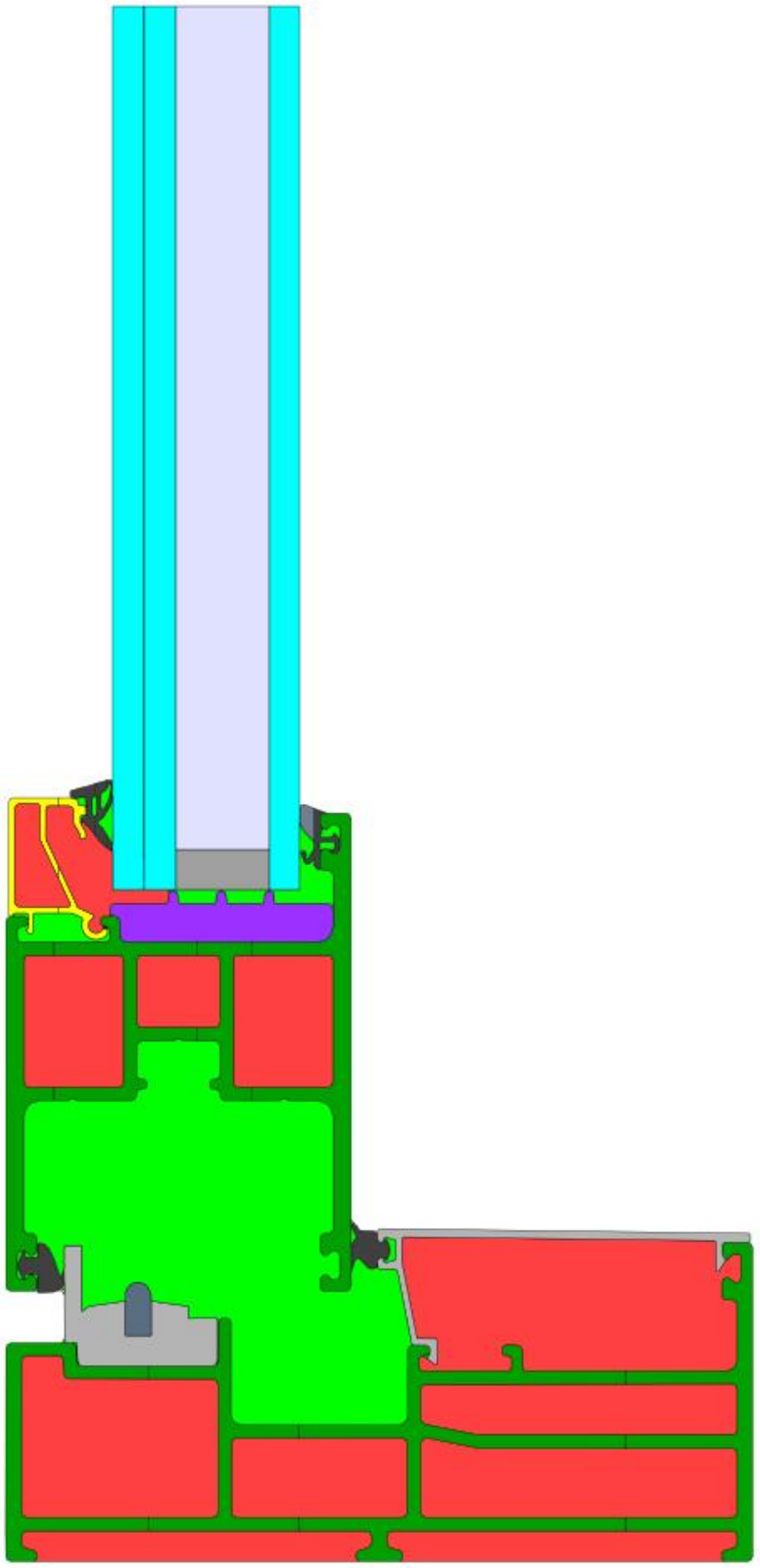
Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



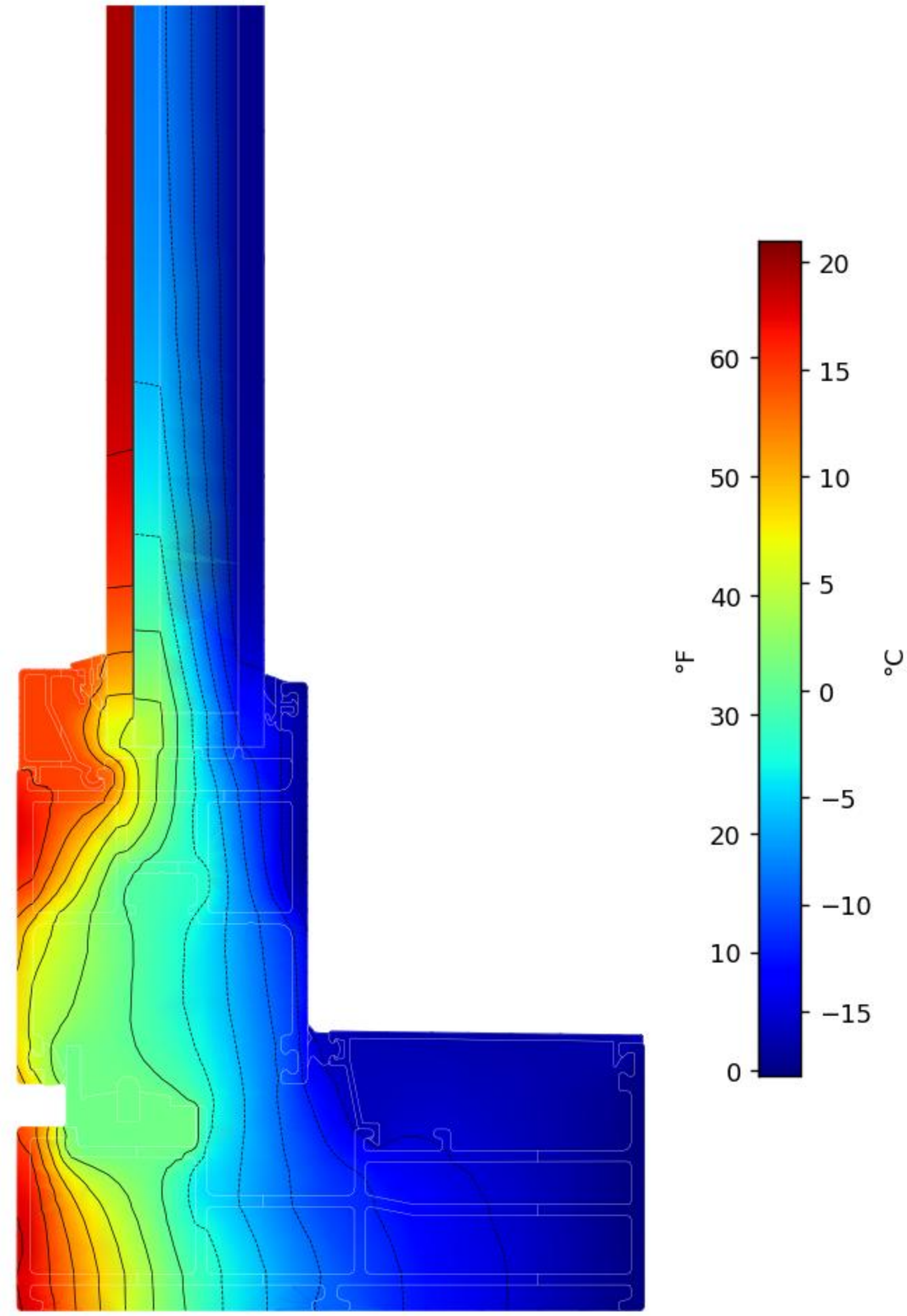
- Aluminum glazing bead, k 160 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- Aluminum (track, covers, hardware profiles), k 160 W/m·K
- Steel guide rail, k 50 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Still air at small openings, k 0.025 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K

GR145 sliding door (fixed + sliding, XO) · Sill (sliding panel) | ZERO 04 hybrid vacuum glazing, Super Spacer Premium + argon (18 mm)
Frame U 1.622 W/m²K over 151.8 mm | Edge U 0.700 W/m²K | THERM 8.1, NFRC 100 (-18 °C / 21 °C = 0 °F / 70 °F)
Whole door, two panels at 2000 x 2000 mm: KØLD 04 0.113 Btu/h·ft²·°F (R-8.8) · MILD 04 0.111 Btu/h·ft²·°F (R-9.0) · HEIT 04 0.111 Btu/h·ft²·°F (R-9.0)

Section and components



Temperature, °C / °F (isotherms every 3 °C / 5.4 °F)



- Aluminum glazing bead, k 160 W/m·K
- PU foam (chamber fill), k 0.024 W/m·K
- EPDM gaskets, k 0.25 W/m·K
- EPDM foam (gasket), k 0.039 W/m·K
- Glass, vacuum unit inner lite (low-E #5), k 1 W/m·K
- Vacuum unit edge seal (proprietary metallic), k 58 W/m·K
- Vacuum gap 0.3 mm, effective k 0.000101 W/m·K
- Glass, vacuum unit outer lite (low-E #4), k 1 W/m·K
- Super Spacer Premium warm-edge spacer, equivalent k 0.225 W/m·K
- Argon 90%, 18 mm cavity, effective k 0.02429 W/m·K
- Glass, outer lite (low-E #2), k 1 W/m·K
- Fiberglass frame (GFRPU), k 0.114 W/m·K
- Aluminum (track, covers, hardware profiles), k 160 W/m·K
- Steel guide rail, k 50 W/m·K
- PU foam glazing pad, k 0.024 W/m·K
- Air cavities (NFRC 100 cavity model)
- Still air at small openings, k 0.025 W/m·K
- PU foam (under glazing bead), k 0.024 W/m·K