Annex 4.1

The general radiation heat transfer formula for the described case is:

Q= εσAT4 [W]

where:

Q – heat flux;

ε – emissivity coefficient;

σ – Stephan-Boltzmann constant: 5.67\*10-8 W/(m2K4);

A – total surface area [m2]; T – surface temperature [K].

Thermal resistance formula for radiation case is:

Rthrad = [K/W]

in which the radiative heat transfer coefficient is used:

αr=