

Problematic

In this **non-air-conditioned** storage warehouse, **workers suffer** from regular **heat peaks (up to 38°C)**, forcing them to exercise their **withdrawal right**. The **stocked merchandise** is also impacted.

The **metallic roof** is at the source of the overheating : it **absorbs the solar heat**, diffuses it by conduction into the building, warming-up the metallic subsurface, which radiates it inside, eventually raising the temperatures felt.



Solution implemented

Application of the **Cool Roof France coating** on the roof, allowing to **block 95% of solar gains**.

Measurement of room and inside surface temperatures from May, 28th 2019 to September, 30th 2019

Date of delivery : June 20th 2019

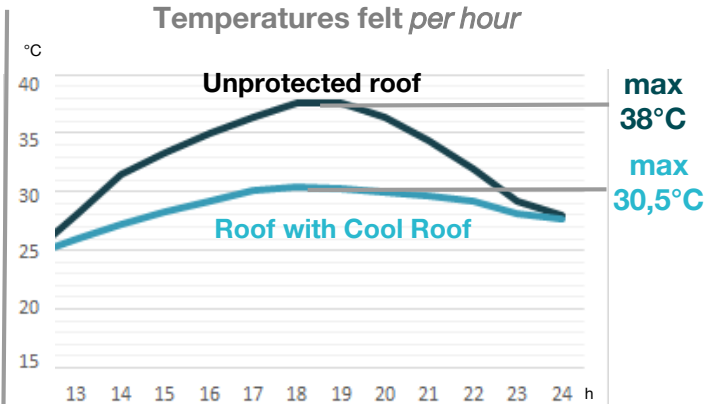
Duration of Cool Roof France's intervention : 3 days



Analysis

Temperatures felt (average between room temperatures and wall temperatures)

Comparison between two days of identical climate conditions (June 17th 2019 and July, 3rd 2019)



Average Temperatures felt

Unprotected roof = 35.5°C

Roof with Cool Roof = 29.4°C

Average gain = 6,1°C