CASE STUDY

RETROFIT OF ARTIFICIAL LIGHTING & DAYLIGHTING SYSTEM

UNIVERSITY STUDY ROOM TRONDHEIM NORWAY
UNIVERSITY SITUATED IN TRONDHEIM
CONCEPT LIGHT CONTROL
CONCEPT ARTIFICIAL LIGHTING - SENSORS

Movement sensors

Daylight zone 1
Daylight zone 2
Daylight zone 3
CHALLENGES
DAYLIGHTING CONCEPTS - FENESTRATION

LIGHT REDIRECTING FOIL

OPTICAL FIBRE

SOLAR PANELS
DAILIGHTING CONCEPTS

PRISMATIC PANELS+ REVERSE FRESNEL/LASER CUT PANEL

REFLECTIVE FOUL+LASER CUT PANELS
LASER CUT PANELS
RESULT - RETRO FIT GLASS
RESULT - RETRO FIT GLASS + SILVER FOIL
RESULT - RETRO FIT GLASS + SILVER FOIL+LASER CUT PANEL 2
RESULT - RETRO FIT GLASS + SILVER FOIL + LASER CUT PANEL 2
Sun angle

15° +glass

30° +silver foil

45° +laser cut panel large circles

+laser cut panel small circles
+large circles