

LED Lightning With RGB Strips

Case Study
Living Room in Amersfoort
The Netherlands



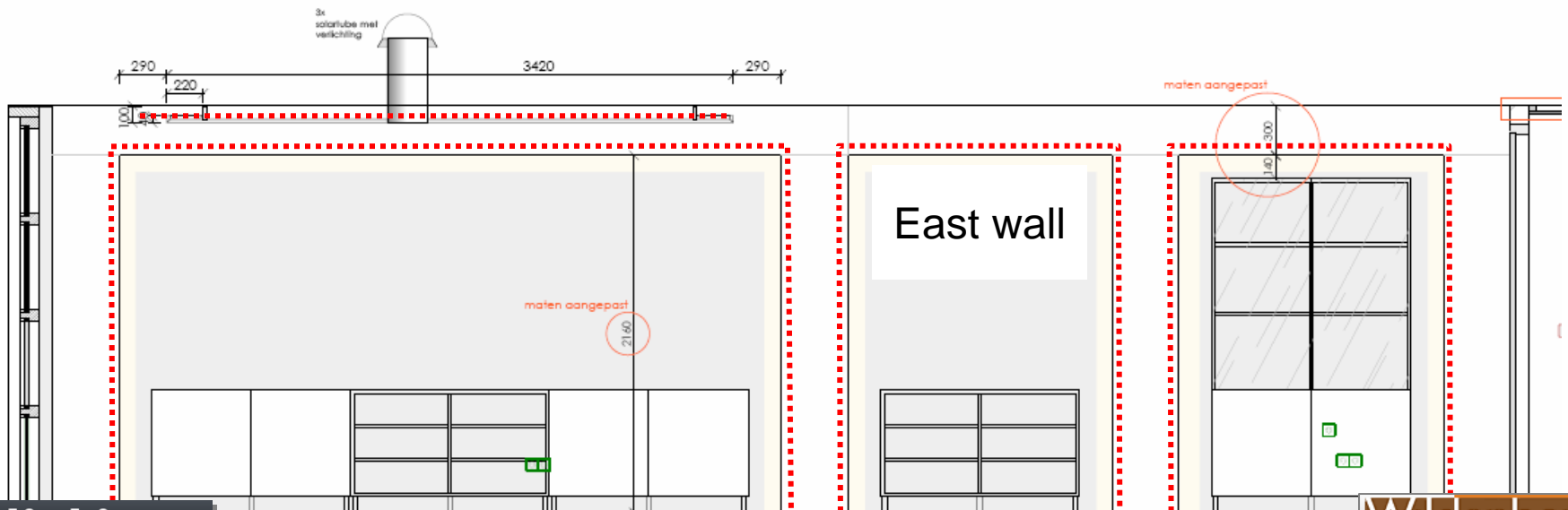
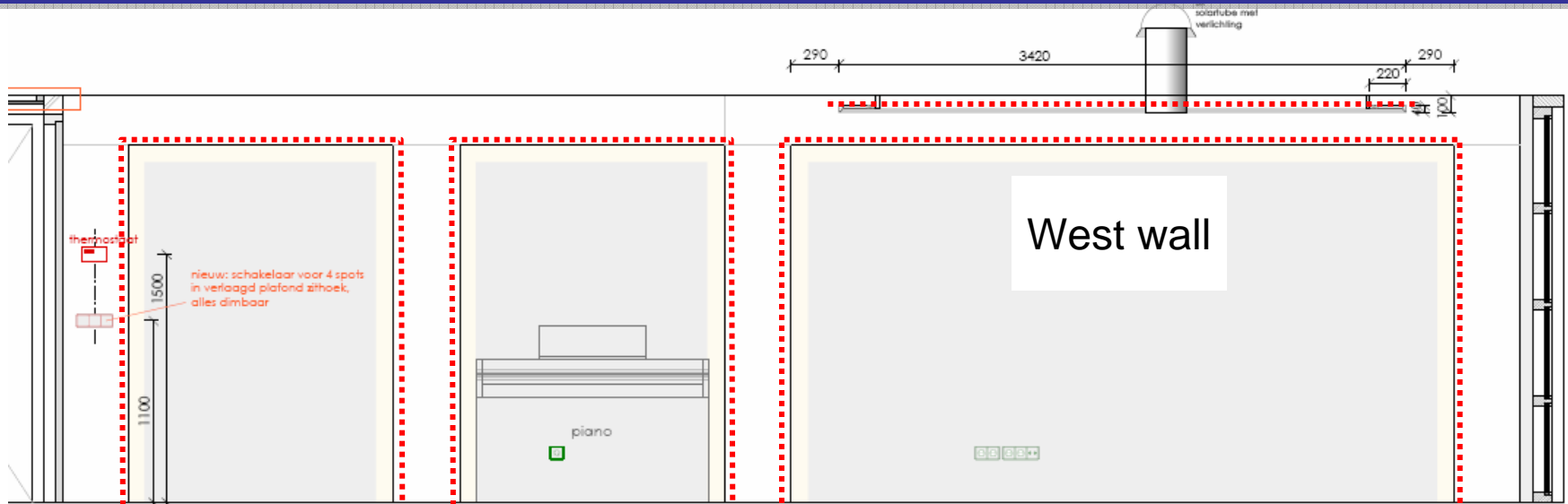
Copyright © T&T International, 2008

Objective

- Design a flexible modern back lighting for a large living room
- Provide for two separate zones of control
- Use state-of-the art technology and reliable products
- Provide for technically simple and cost effective solution



Position of the LED Stripes, Side Walls



Positioning of the Main Lighting Elements

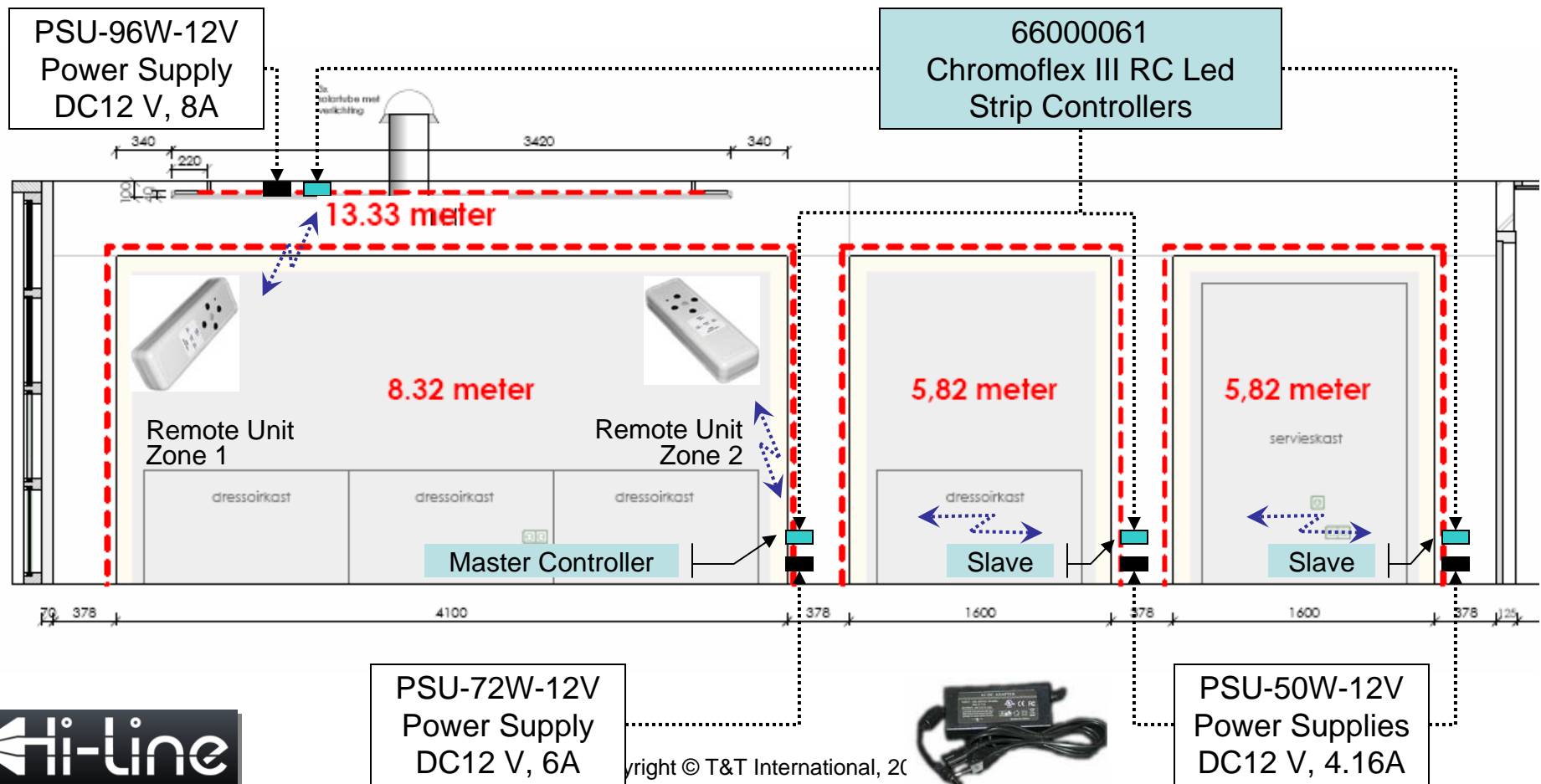
Total Length of the light strips: 54m

Two independently controlled zones: Zone 1(ceiling) and Zone 2 (side walls),

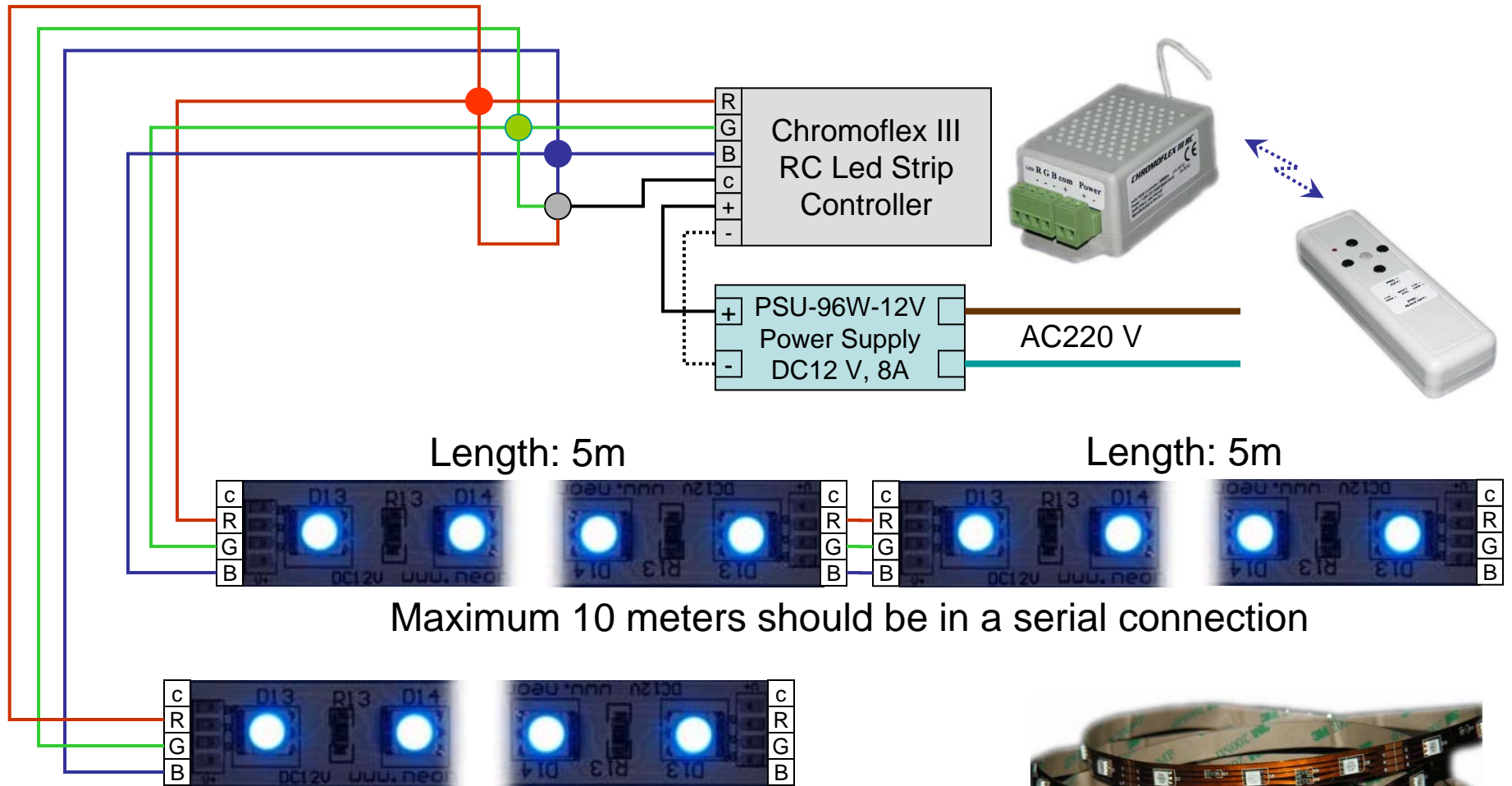
Each Zone is controlled by a remote control unit (two pieces in total)

Each of the 6 areas within Zone 2 (in the east and west wall) has separate controller and power supply

In Zone 2 one controller is assigned to be Master and the remaining 5 are Slaves



Wiring Example Details, Zone 1 (Ceiling, 13.33 m)



Maximum 10 meters should be in a serial connection

Length: 3.33 m (cutting unit = 3 LEDs = 10 cm)
Excess of 10 meters should be in a serial connection



Solution Benefits

- Flexible independent configuration of two Zones, each featuring
 - 12 coloring programs
 - Selection of 20 fixed colors (16 rainbow and 4 white colors)
 - Eight levels of “dimming”
 - Central ON/OFF switching
 - Memorizing of the latest settings
- System is
 - Expandable to 8 Zones (only additional Remote Units needed)
 - Using state-of-the-art technology and reliable products
 - Simple and suitable for “do-it-yourself” installation
 - Excellent value for money