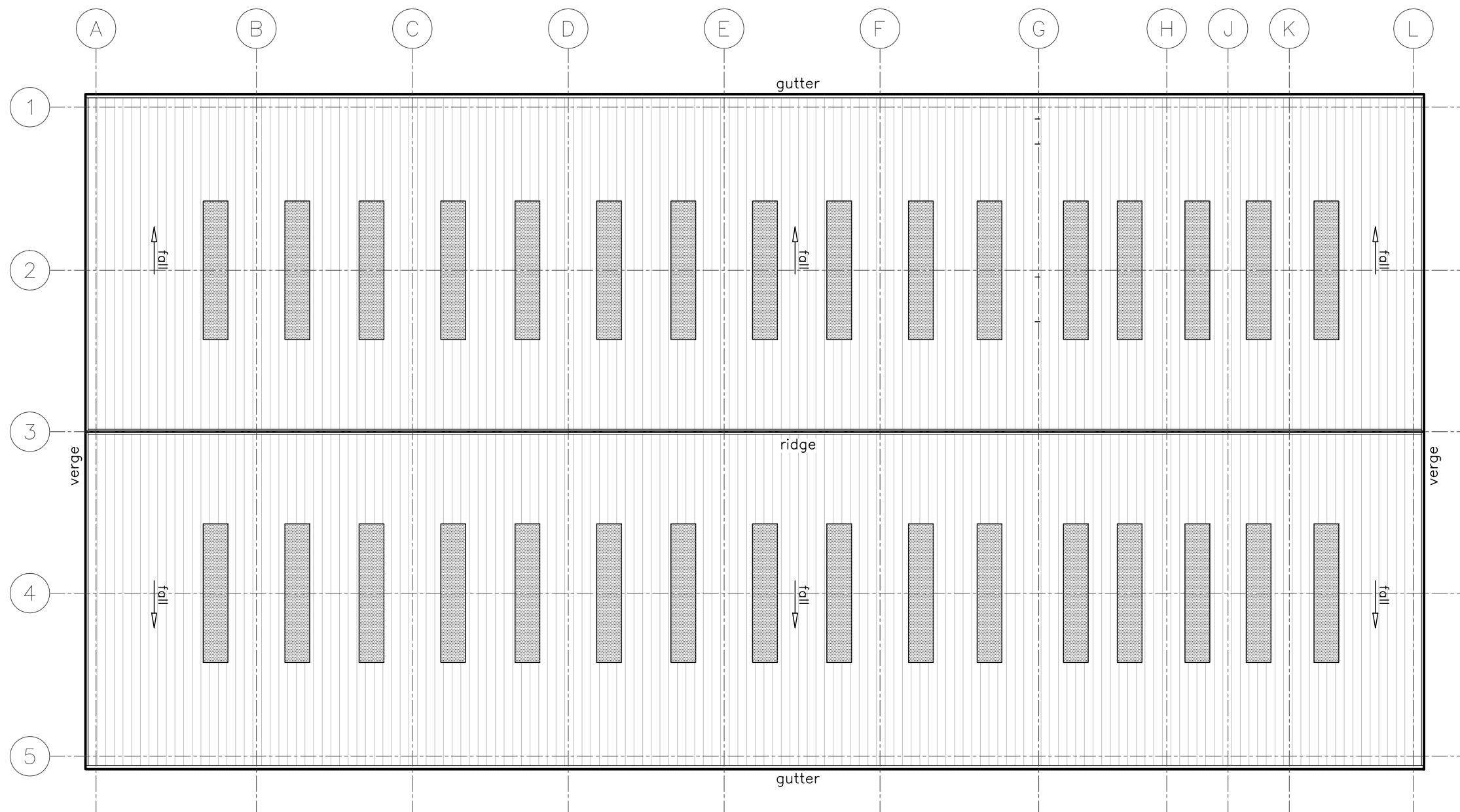




PROPOSED ROOF PLAN  
scale 1:200



**ROOF CONSTRUCTION :**  
Roof construction to be site assembled Euroclad Elite System 1 or equal approved comprising of Euroclad 32/1000 profile 0.7mm thick steel outer with Colorcoat HPS200 Ultra finish. Euroclad MW5L 0.7mm steel liner panels to be provided to internal face and self finished bright white, all laps to liner panel to be sealed with 50x1 Polyband. Over rail built up system incorporating Eurobar Extra spacer bars with halters and glass fibre insulation to achieve a specified U values. The overall construction is to include all additional soaker sheets, roof cowls, fasteners, flashings and fixings to provide a watertight installation. All cladding works are to be carried out strictly in accordance with the manufacturers printed instructions and to include all associated fixings, components and flashings.

**ROOFLIGHTS:**  
Site assembled non-fragile rooflights to be Brett Martin Daylight Systems Cleartherm or equal approved triple skin system incorporating GRP internal liner sheet, mid panel and Safelight non-fragile outer sheet. Overall Rooflight system to include all fillers, tapes and sealants to provide a weathertight construction achieving a 'U' value of 1.9W/m²K. Extent of rooflights to be as noted below:

- Provide equal to 10% of the overall total floor area.

**U-VALUES:**  
It is the contractors responsibility to demonstrate compliance with Approved Documents L2A of the current Building Regulations through the provision of all appropriate SBEM calculations illustrating Target CO<sub>2</sub> Emission Rate (TER) and final Building CO<sub>2</sub> Emission Rate (BER). The Contractor must provide a TER calculation for approval by Building Control prior to any work starting on site.

For initial design purposes, it has been assumed that U values to building elements will be as noted below, however it will be at the discretion of the Contractor to confirm these values in order to demonstrate compliance with the required TER and BER calculations.

- Roof construction : 0.18 W/m²K
- Roof lights : 1.9 W/m²K