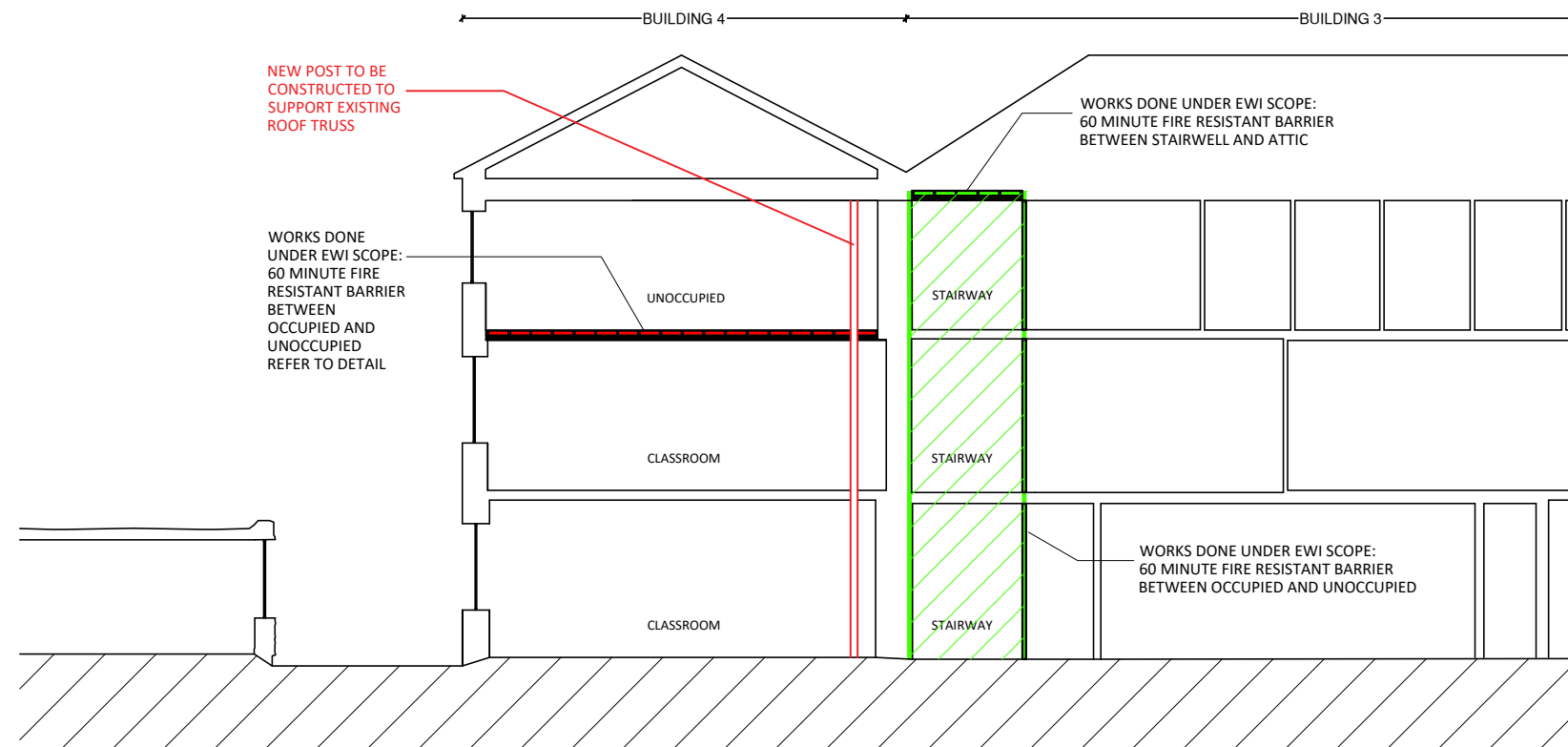




OUTLINE SECTION A-A @ 1:200

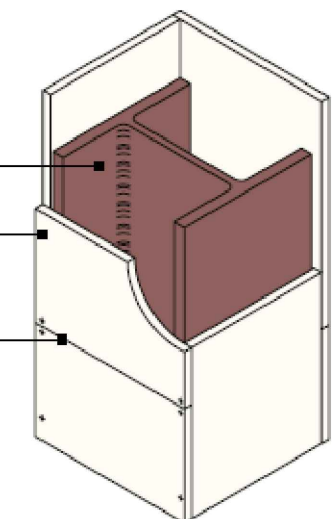
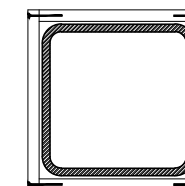
Steel columns: SHS 200x200x10 mm, exposed on four sides, section factor $H_p/A \approx 105 \text{ m}^{-1}$.
Provide 1 layer of 15mm Glasroc F FireCase to achieve 60 minutes fire resistance at a critical steel temperature of 550°C, in accordance with manufacturer's tested systems (valid up to 232 m¹).

Four-sided column encasement Single layer

Structural steel

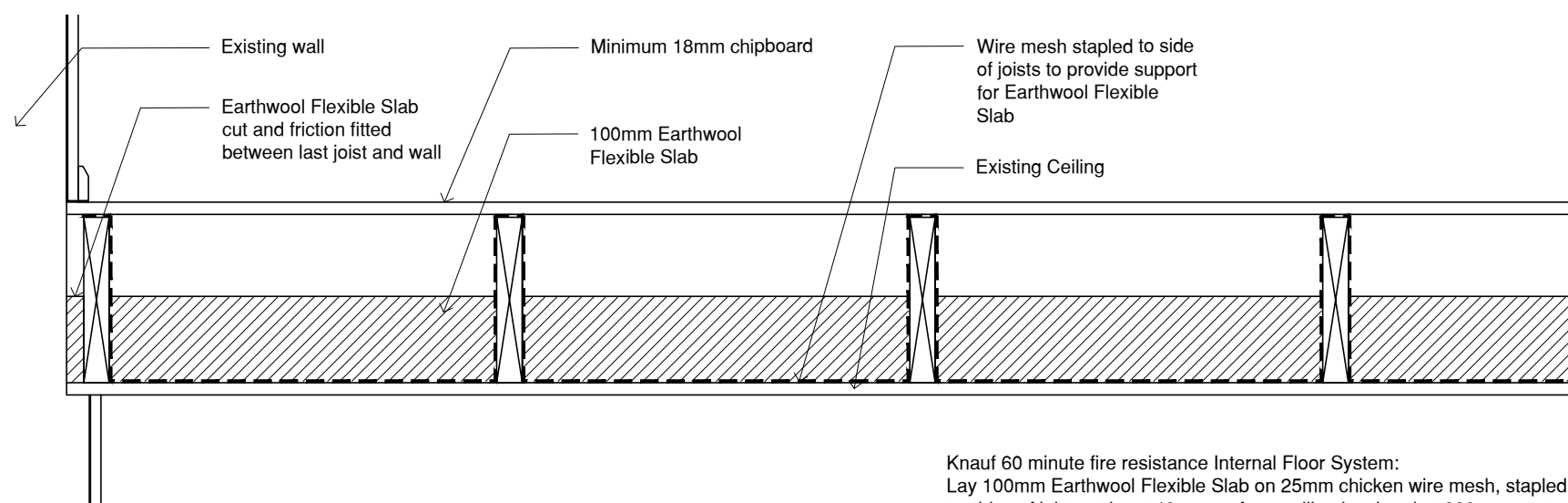
Glasroc F FireCase fixed together with
Glasroc F FireCase Screws

Board joints staggered by min. 600 mm
between adjacent sides



For illustrative purposes only.

PROPOSED POST DETAIL @1:10

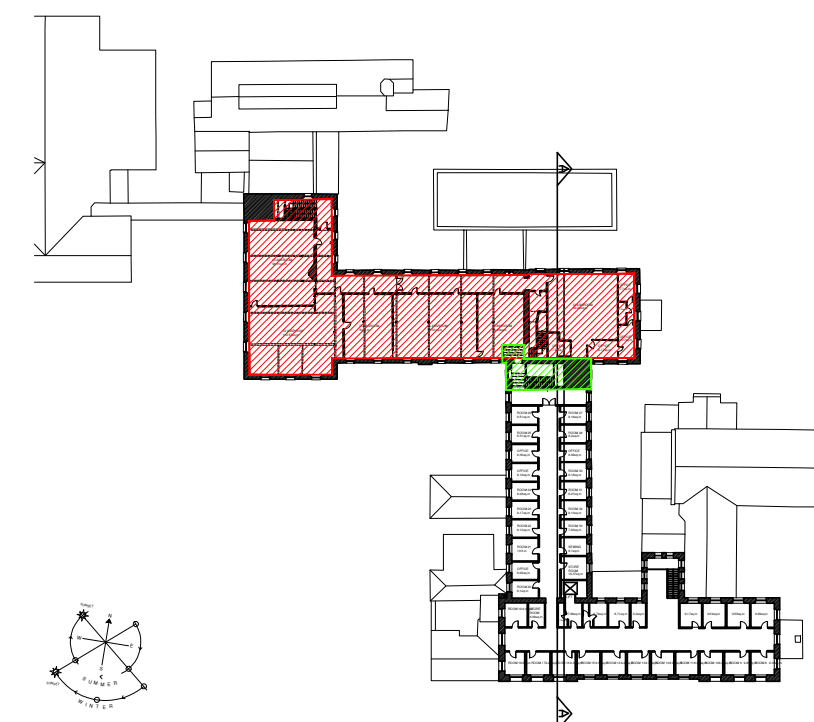


EXISTING DETAIL SECTION A-A @1:10

Knauf 60 minute fire resistance Internal Floor System:
Lay 100mm Earthwool Flexible Slab on 25mm chicken wire mesh, stapled to sides of joists at least 40mm up from ceiling level and at 600mm centres. The joists should be at least 200 x 37mm and spaced at not more than 600mm centres. The flooring board to be at least 18mm thick.

NOTES: Fire Compartment -Timber Floor Penetration

- Openings formed in the existing timber joist floor to accommodate new steel columns shall be kept to a minimum.
- All disturbed areas shall be made good to match the existing construction and reinstate the original 60-minute fire resistance.
- Provide tested fire-stopping around the column penetration, ensuring continuity of fire resistance, integrity and insulation.
- No gaps or voids to remain.



KEY PLAN - SECOND FLOOR

1. THIS DRAWING IS COPYRIGHT.
2. THIS DRAWING MUST NOT BE SCALED.
3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.

4. N.B. TRADE NAMES AND PRODUCT REFERENCES ARE INCLUDED PURELY TO DEFINE THE AESTHETIC AND TECHNICAL PERFORMANCE CRITERIA REQUIRED BY THE SPECIFIER. IT IS NOT THE INTENTION TO FAVOUR ONE PRODUCT OVER ANOTHER OR TO EXCLUDE OTHER PRODUCTS WHICH MEET THE PERFORMANCE CRITERIA. IN PROPOSING AN EQUIVALENT PRODUCT/MATERIAL/SYSTEM THE CONTRACTOR WILL NEED TO PROVIDE EVIDENCE OF COMPLIANCE WITH PERFORMANCE CRITERIA AND SUPPLY ALL NECESSARY DESIGN WARRANTIES AND ANCILLARY CERTIFICATION REQUIRED BY THE ASSIGNED CERTIFIER TO COMPLY WITH THE BUILDING CONTROL (AMENDMENT) REGULATIONS.

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DRAWING/PROJECT:
Fire Protection Details - Building 4
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Convent Road, Clonakilty, Co.Cork

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