

Case Study: In-House Fabrication & On-Site Manufacturing Capability

Overview

Roof NQ identified a key inefficiency across large-scale roofing projects: the separation between installation and fabrication of custom flashings was creating unnecessary rework, increased labour costs, and avoidable quality risks. To address this, Roof NQ invested in in-house fabrication equipment and on-site manufacturing capability, enabling custom components to be produced and installed in real time.

The Challenge

- 1 Double handling of completed roof areas
- 2 Repeated cleaning cycles across large surfaces
- 3 Increased labour and remobilisation costs
- 4 Exposure of finished work to potential damage
- 5 Risk of inconsistencies between measured and installed conditions
- 6 Damage risk during transport and handling of pre-fabricated flashings

Our Approach

Roof NQ implemented a fully integrated fabrication and installation process, allowing flashings and custom components to be manufactured on-site as each section of roof is completed. This enables immediate fabrication to suit exact site conditions and eliminates the need for return visits and transport risks.

Key Outcomes

- 1 **Elimination of Double Handling:** Flashings installed during initial works with no re-accessing of completed areas.
- 2 **Reduced Cleaning & Labour Duplication:** Roof areas cleaned once, significantly reducing labour on large-scale projects.
- 3 **Improved Quality & Reduced Damage Risk:** Less handling reduces scratches and dents, no transport damage, and more consistent finishes.
- 4 **Increased Accuracy & Fitment:** Flashings fabricated to real-time conditions, eliminating discrepancies.
- 5 **Program Efficiency:** Continuous workflow with reduced delays and remobilisation.

Application in Practice

This capability is particularly valuable on large commercial roofing projects, complex geometries, staged installations in live environments, and cyclonic regions where precision and durability are critical.

Strategic Value

By integrating fabrication into installation, Roof NQ delivers lower labour costs, faster timelines, higher-quality outcomes, and greater control over project delivery. This removes common failure points associated with traditional workflows and ensures consistency across all components.

Conclusion

Roof NQ's investment in on-site fabrication represents a significant advancement in roofing delivery. By reducing handling, eliminating transport risks, and aligning fabrication with installation, the company

achieves superior accuracy, reduced damage risk, and more reliable project outcomes.