

CASE STUDY



GOLDSMITH ARMS

LOCATION: LONDON

ROOFING CONTRACTOR:
PLAN CONSTRUCTION SYSTEM LTD

COMPLETION DATE: NOVEMBER 2023

SYSTEM:
ENKOPUR WATERPROOFING SYSTEM
PARO-MELT® HOT MELT SYSTEM

SECTOR: MIXED USE, NEW BUILD

ROOF AREA: 990M²





GOLDSMITH ARMS

BACKGROUND:

The derelict Goldsmith Arms site was demolished and redeveloped to provide 65 apartments and a commercial unit in Acton, London. The roof installed consisted of four different insulation types and two different liquid chemistries, Enkopur with cellular glass insulation was used on the warm roof build-up and Paromelt and Enkopur were used on the inverted roof areas.

CHALLENGES:

This project was specified and delivered to high standards, following the 'Premier Guarantee' Technical Standards, whilst reaching high levels of thermal efficiency. The development required the highest levels of technical support due to the various challenges posed by an array of flat, pitched, ballasted and PV roofs.

SOLUTION:

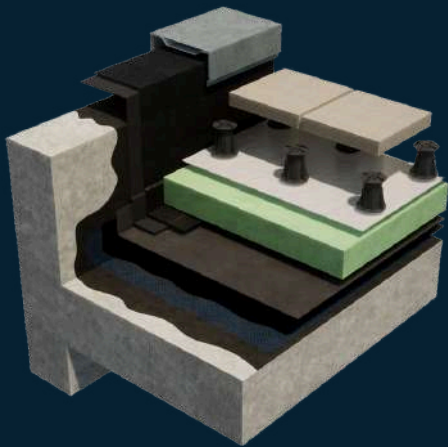
Plan Construction provided the highest level of install, delivering both a Hot and Cold liquid waterproofing system, providing finished details that integrated both the Paro-Melt and Enkopur liquid systems. The project also utilised four different insulation types including Cellular Glass, PIR, Inverted EPS and Stonewool insulation to overcome the various challenges set by Fire, Thermal, Loading and workability.

SYSTEM USED

MOY WARRANTY: 20 YEARS

- **Primer:** Paro-Melt Hot Melt Primer and Universal Primer 2K
- **Insulation:** Hardrock Multi Fix, Paratherm G, Cellular Glass and Inverted EPS
- **Waterproofing System:**

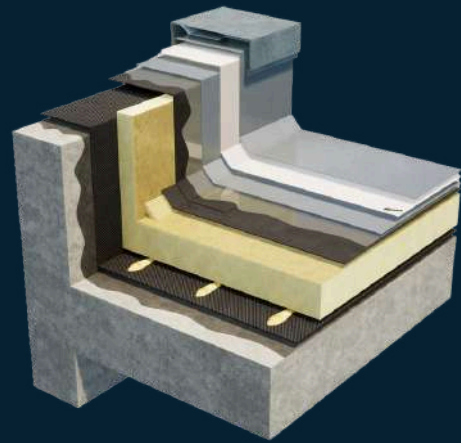
Paro-Melt® Hot Melt System



BENEFITS:

- Second generation hot melt system with fewer installation processes, compared to other Hot Melt systems, resulting in quicker application and easier detailing.
- Robust and extremely long-lasting, impact resistant, ideal for buried heavily trafficked applications such as inverted roofs, podium slabs and terraced applications.
- Available with extended system warranties covering elements such as design guidance, material performance and workmanship
- British Board of Agrément (BBA) certified, Irish Agrément (NSAI) certified, Durability in excess of 40 years
- BROOF (t4) Fire Certification Classed 'Unrestricted – Deemed to Satisfy' when buried with appropriate finishes.

Enkopur Waterproofing System



BENEFITS:

- Creates a monolithic, seamless membrane that minimizes the risk of leaks at joints or seams.
- Excellent flexibility and elasticity, allowing it to accommodate structural movements without cracking.
- Excellent adhesion to various substrates, ensuring a strong bond and reliable waterproofing.
- Allows moisture vapour to escape from the substrate while preventing water ingress, reducing the risk of blistering.
- Suitable for use in many applications, roofs, balconies, weathering of construction elements, gutters and repair work.
- Available with extended system warranties covering elements such as design guidance, material performance and workmanship.
- British Board of Agrément (BBA) certified, Irish Agrément (NSAI) certified, Durability in excess of 25 years
- Various TS 1187 BROOF Regional Fire Certification suitable for Ireland, UK and Europe.
- Multiple colour options (subject to specification) and skid-inhibiting surface finishes.

