



**GSK Lactam Building - Egypt**  
**Full Roofing system (TPO membrane) Works**

<b>Project Name:</b>	GSK Lactam Building
<b>Scope:</b>	Full roofing system TPO membrane
<b>City:</b>	Giza
<b>Country:</b>	Egypt
<b>Main Contractor:</b>	ECIP
<b>Applicator:</b>	Sodeco Specialties S.A.E
<b>Construction Period:</b>	2013
<b>Owner:</b>	GSK Factory



<b>Products Used:</b>	TPO membrane ISO tapered insulation board Light Weight concrete
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**Areas Treated:** 3500 m<sup>2</sup>

❖ **Material Used**  
**Lightweight cellular concrete**

- Making the guide lines with sand cement mortar, according to required slopes.
- Pouring the lightweight cellular concrete between the guide lines.
- Smooth the surface, and then leave it to dry.
- Making cure for 3 days.



**ISO tapered insulation board**

- Insulation shall be neatly fitted to all roof penetrations, projections and nailers. No more insulation shall be installed than can be covered with membrane and completed before the end of each day's work or before the onset of inclement weather.



## Firestone Ultra Ply TPO

- TPO is a flexible Thermoplastic Polyolefin roofing membrane that is produced with polyester weft-inserted reinforcement.



## ❖ Method of statement :

### **JOB SITE PREPARATION:**

Prior to the installation of the roofing membrane the roof substrate should be checked

- Substrates must be clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials that may damage the membrane.
- All roughened surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
- All surface voids greater than (6.3 mm) wide shall be properly filled with an acceptable fill material.

### **JOB SEQUENCE**

- Removal of existing roofing layers over whole roof area
- Make the necessary cleaning removing all dust, loose parts, clean oil, and Spillagegrease if any.
- Leveling of concrete surface in all pouring area of the bays to be filled with Light weight concrete (LWC) to be the same smoothly finished using "Aercel formula" foaming agent.
- Supply and install new tapered insulation board" Firestone ISO 95+ GL Flat and Tapered" by using "I.S.O. Twin Pack Adhesive".
- Supply and installation single ply waterproofing membrane " Firestone Ultra Ply TPO" 1.5 mm thick fully bondedy using " Firestone Ultra Ply Bonding Adhesive"
- Supply and install "Ultraply TPO premium walkway pad at all required routes

