



CASE STUDY

San Francisco General Hospital

Location: San Francisco, California
Started: September 2012
Membrane: 2-ply modified bitumen & hot rubber
Total square feet: 121,185
Features: Healing gardens, VMG™
Status: Completed November 2014



Photo courtesy of Peretti & Park

The new San Francisco General Hospital is a state-of-the-art building designed to be technologically advanced, seismically sound and environmentally green. As the city's only Level-1 trauma centre, and a busy destination for emergency, critical and intensive care, it was also imperative that the structure be watertight.

Western Roofing Service hired ILD to conduct EFVM® integrity testing on all waterproofing membranes and supply Vector Mapping Grid™ for the two-ply roofs. Together we worked in lockstep, testing monthly from September 2012 until November 2014.

On several floors, temporary roofs had been installed so the trades could continue their work without compromising a finished roof system. ILD conducted initial testing and then returned months later to

retest after the exterior work had been done. Trade damage had indeed been extensive: 57 breaches were found. The contractor made the repairs, and final roofs were laid down.

ILD also tested the hot rubber waterproofing membrane under the hospital's newly created healing gardens. Our inspectors were able to accurately locate breaches through plants and soil without damaging the overburden. Permanent wire systems were installed to efficiently detect any leaks in the future. Recognizing the threat of water leakage to patient health and hospital operations, we did our utmost to ensure that we left the roof breach-free.

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