

# U.S. NAVY BATTLE STATIONS

GREAT LAKES, IL

*Galvanized and Stainless Steel Grating Specified for U.S. Navy's Battle Stations 21 Training Facility*



## THE SITUATION

The U.S. Navy Battle Stations 21 Training Facility is an \$82 million dollar, 157,000 square foot project designed and executed by engineering firm SmithGroup and James McHugh Construction Company, among 90 other sub contractors and six different Navy commands. The United States Navy Battle Stations 21 was built with 17 different life-and-death scenarios, designed to prepare trainees to become Sailors. Battle Stations 21 was planned to the greatest detail, such as salt in the air, lighting effects and actual gun fire to make the encounter very real for those trainees who experience it. The 12 hour intensive skill testing ranges from fires to floods to terrorist attacks. The building encompasses a 200 foot long reduce scaled replica of a portion of an Arleigh Burke-class guided missile destroyer in more than 90,000 gallons of water.

The facility is a first-ever, award winning training facility that is equipped with ship shaking effects, MP3 players, realistic dummies and much more. Once trainees complete the simulation successfully they earn the title of Sailor. While this facility is designed to show trainees the real life challenges they will be facing in the military, safety was a number one priority

during the design phase. Special rooms where spaces flood and compartments are engulfed in flames were designed in a controlled manner that balances safety and multi-sensory simulation. In these flood and fire rooms, a slip resistant grating was required to let the water drain (when necessary). SlipNOT® Metal Safety Flooring was the only material specified on the job, due to the high performance, durable and high traction surface.

## THE SOLUTION

SlipNOT® was specified for two areas of the training facility. SlipNOT® galvanized steel grating was chosen for the flood room. The flood room tests how recruits respond to a flood emergency on the ship by filling the compartment with real water. Galvanized steel grating was the preeminent choice for the application due to its corrosion resistance and durability. SlipNOT® galvanized steel grates remain slip resistant when completely submerged in several feet of water.

SlipNOT® stainless steel grating was utilized in the fire room on the ship. The fire room tests recruits on their response to a fire emergency on the ship by actual bursts of fire. SlipNOT® slip resistant stainless steel grating was selected due to the fact it will stand up to the extreme heat from the fire and is chemical resistant to the ash and dry chemicals from fire extinguishers utilized during the test stimulation. The stainless steel grating is also remarkably durable and will withstand heavy traffic.

## THE IMPACT

SlipNOT® Metal Safety Flooring was honored to be a part of Battle Stations 21, a facility that has created thousands of Sailors that will save lives based off of the initial training experiences at the facility. The SlipNOT® grates will help trainees keep traction while braving the high-impact simulations. In emergency situations, losing footing should not be a concern. With safety as a pinnacle concern, working/walking surfaces were contemplated carefully and SlipNOT® was the only material acceptable for this extreme environment. SlipNOT® Metal Safety Flooring aids military men and women in walking with confidence.