

WISCONSIN STRUCTURES AND MATERIALS TESTING LABORATORY

SAFETY RULES

To be granted the privilege of using the Wisconsin Structures and Materials Testing Laboratory, you are required to be familiar with, and to observe, these safety regulations. Violation of any safe working methods may cause the loss of Laboratory use privileges, or disciplinary action.

Faculty investigators and students are to assume primary responsibility for safety compliance in projects they are conducting in the Wisconsin Structures and Materials Testing Lab. The Laboratory Technician and the Laboratory Director will intercede in any observed situation deemed unsafe and reserve the right to restrict access to the Laboratory or power tools for lack of compliance with these safety rules.

1. Good housekeeping and clean and orderly work areas and equipment are fundamental to accident and fire prevention.
 - i) Assigned work areas and equipment are to be **CLEANED** and placed in order by each user at the end of each work period. **RETURN TOOLS TO THE CABINETS WHERE YOU ACQUIRED THEM SO THAT OTHER USERS DO NOT HAVE TO SEARCH THE LAB TO LOCATE THEM.**
 - ii) **If you will generate dust, cover sensitive electronic equipment. Consider working outside if work will generate dust or fumes.**
 - iii) **Keep walkways clear of obstacles.** Access to outside doors must be maintained at all times.
2. Horseplay of any kind is forbidden.
3. **You are not to operate equipment for which you have not been cleared for use by the Laboratory Technician. This includes the forklift, overhead crane and hydraulic test equipment.**
4. There must be at least two individuals present at all times within the Laboratory when power tools are used or heavy equipment is moved with the crane or forklift. This also includes use of the masonry saw.

5. No use of power equipment such as masonry saw, load frames/actuators, or overhead crane past 4:00 pm unless cleared by the Lab Technician or Director.
6. All accidents, including minor injuries and all hazardous conditions, are to be reported immediately to the Lab Technician or the Director.
7. Eye protection is to be worn at all times by all individuals while mixing concrete, observing or operating power tools and testing machines or impact hand tools such as hammers. Goggles should be worn when sulfur capping or mixing concrete with motorized mixers.
8. Face shield, hard hat and ear protection are to be worn when using the masonry saw or grinders.
9. Dust masks should be worn when work creates dust due to aggregate shoveling or other processes.
10. Steel toe shoes or steel toe caps are to be worn when moving heavy equipment.
11. Hard hats are to be worn when moving equipment with the overhead crane or when using hydraulic equipment over 50-kip capacity.
12. Sulfur capping compound melting pot should be located in the fume hood or outside the lab when in use to reduce the buildup of sulfur gas in the lab. **SULFUR GAS BONDS WITH WATER TO CREATE SULFURIC ACID! GOGGLES and GLOVES REQUIRED. Clean up work area after use!**
13. Jewelry, ties and clothing which, in the opinion of the Lab Technician, is hazardous must not be worn while working with machinery in the Laboratory. **ALL USERS MUST WEAR FULL SHOES (NOT SANDALS) AND AT LEAST A SHIRT AND FULL-LENGTH TROUSERS.** Long hair must be held back securely with a head band or a net. Medallions or jewelry hanging from the neck must not be worn.
14. Machine guards are to be in place and in use at all times when equipment is in operation.
15. Compressed air is not to be used to blow debris off equipment, clothing or work areas.
16. Hand tools are to be used only for the purpose for which they were designed.
17. Defective tools or safety equipment must not be used. Turn them in for replacement.