



ASAP Testing Reports

The following is a summary of test reports verifying the strength and durability of ASAP's pallets and skids in a laboratory and industrial environment.

Heavy Gauge Modular Recyclable Pallet - Fastener Evaluation Study

Performed by: Robert J. Tichy, Ph.D.
Performed at: Washington Technology Center
Wood Materials and Engineering Laboratory
Washington State University
Pullman, WA 99164

Performed: July 1997

Summary and Conclusions: The testing determined the type of fastener and flat washer, along with specific pre-drill hole size and depth; to give ASAP the optimum pull-out, pull-through and shear properties for plastic skid and pallet construction.

Performance Evaluation of All Service All Packaging (ASAP) 48x48 Coil Pallets

Performed by: John G. Conway, Research Associate
Marshall S White, Director
Performed at: William H. Sardo Jr. Pallet and Container Research Laboratory
Department of Wood Science and Forest Products
Virginia Polytechnic Institute & State University
Blacksburg, Virginia 24061

Performed: September 3, 1997

Summary and Conclusions: Conduct a study of the strength and durability of the ASAP's modular designed coil pallet. The ASAP coil pallet was determined to function safely and effectively based on the given material handling conditions, pallet design, and flatness and rigidity of the coil load. No compression failures were observed during any of the FasTrack or pallet strength testing. The FasTrack test determined the fastening area of the stringer/leading edge deckboard joint was the only area of concern. To address this issue, ASAP using this test data, modified the drill hole pattern from inline to diagonal, from a 3/8" fastener to 1/2", and from a 2 1/2" fastener length to 3 1/2" for greater shear and pull-out resistant properties.

A Comparative Performance Evaluation of All Service All Packaging (ASAP) 48x48 HDPE Coil Skids

Performed by: John G. Conway, Research Associate
Marshall S. White, Director

Performed at: William H. Sardo Jr. Pallet and Container Research Laboratory
Department of Wood Science and Forest Products
Virginia Polytechnic Institute & State University
Blacksburg, Virginia 24061

Performed: May 3, 2000

Summary and Conclusions: The comparative performance evaluation determined the compression strength of the ASAP skids is very high, with each skid able to support a rigid load of over 100,000 pounds, with the total load not to exceed 100,000 pounds in multiple stacking. The impact resistance is over 3-times the previously tested skids. Corner drop and top deck impact results helped predict improved durability over the previously tested pallets. The enhanced lag bolt bending and withdrawal performance improved the new skids durability when compared to the skids tested in September, 1997.

Structural Steel Area Pallet Analysis

Project at: National Steel and Shipbuilding Company (NASSCO)
Project Sponsor: Director Warehousing & Production Control Manager Fabrication
Team Leader: Dave Samudio, Staff Engineer Production Control
Team Members: Production Control Analyst
Production Control
Supervisor Production
Supervisor Structural Steel
Sr. Material Support Technician

Recommendation: NASSCO performed a case study to compare wooden pallets to ASAP pallets, resulting in ASAP's pallet out performing wood pallets. This study determined that ASAP's RPL pallets eliminated the ongoing costs of purchasing, replacing, repairing, disposing and handling wooden pallets.

Complete final reports are also available at www.asapskids.com.