

AWI SMA 0643 - Wood Stairs, Handrails and Guard Systems



PRESENTERS



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AWI Standards

0643 – Stairs

7/1/2020

0643–Stairs

- Drafted by the AWI Professional Staff and the SMA Quality Standards Committee Members
- Reviewed and approved by AWI Technical Committee
- Developed in collaboration with SMA
- Accredited through the ANSI process
- Overview
 - Purpose
 - Scope
 - Requirements
 - Figures/Illustrations
 - Supplemental Information



ANSI/ANS

- American National Standards Institute
 - Private, not-for-profit organization
 - Enhances both the global competitiveness of U.S. business and the U.S. quality of life
 - Facilitate the development of American National Standards(ANS)
 - Ensures openness, balance, consensus, and due process

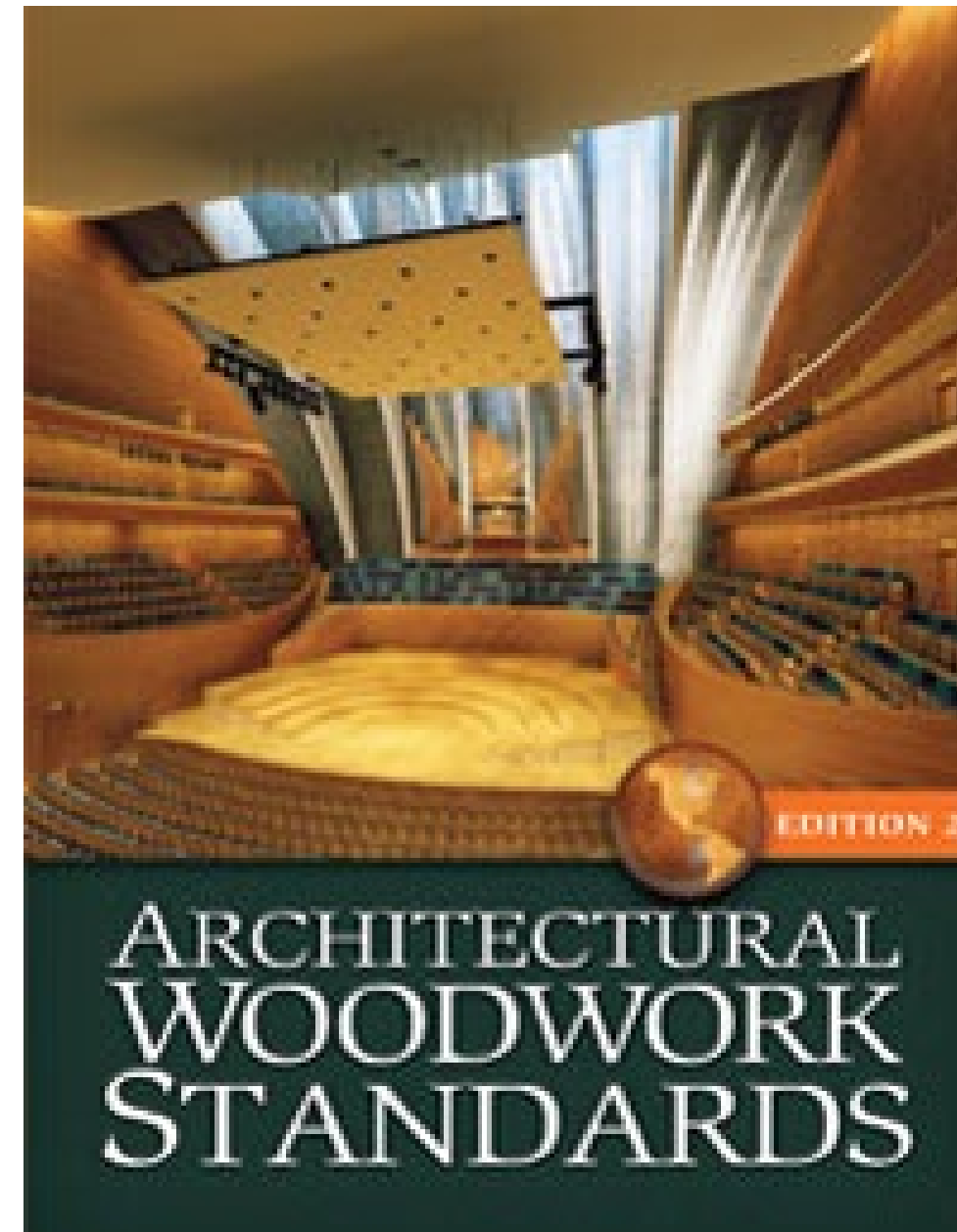
Why use the ANSI Process?

- Establishes industry-wide consensus
- Promotes transparency in the standards development process
- Provides design professionals, manufacturers, suppliers, installers, and users with more flexibility, value, and room for innovation



0643 Purpose

- Provide standards and tolerances
- Establish minimum aesthetic and performance requirements
- Succeeds, replaces, and supplants section 7 of AWI Standard Edition 2 (2014)



0643 Requirements

- Shall Govern unless otherwise specified by contract documents
- Written in Metric system of measurement
 - Followed by U.S. customary system
- Special Requirements
- Environmental Conditions
- Requirements for Installation
- Default Grade Requirements
 - Structural Performance: Duty Level 3
 - Aesthetic Performance: Custom Grade

3.1 General

- a) The following requirements shall govern unless a project’s contract documents require otherwise.
- b) Should a conflict be discovered within this standard, the least restrictive requirement shall prevail.
- c) When applicable, manufacturer/supplier shall verify field measurements.
- d) Unless otherwise indicated, requirements apply equally to all performance duty levels/aesthetic grades.

Premium	Custom	Economy
610 mm [24"]	1219 mm [48"]	1829 mm [72"]

0643 Aesthetic

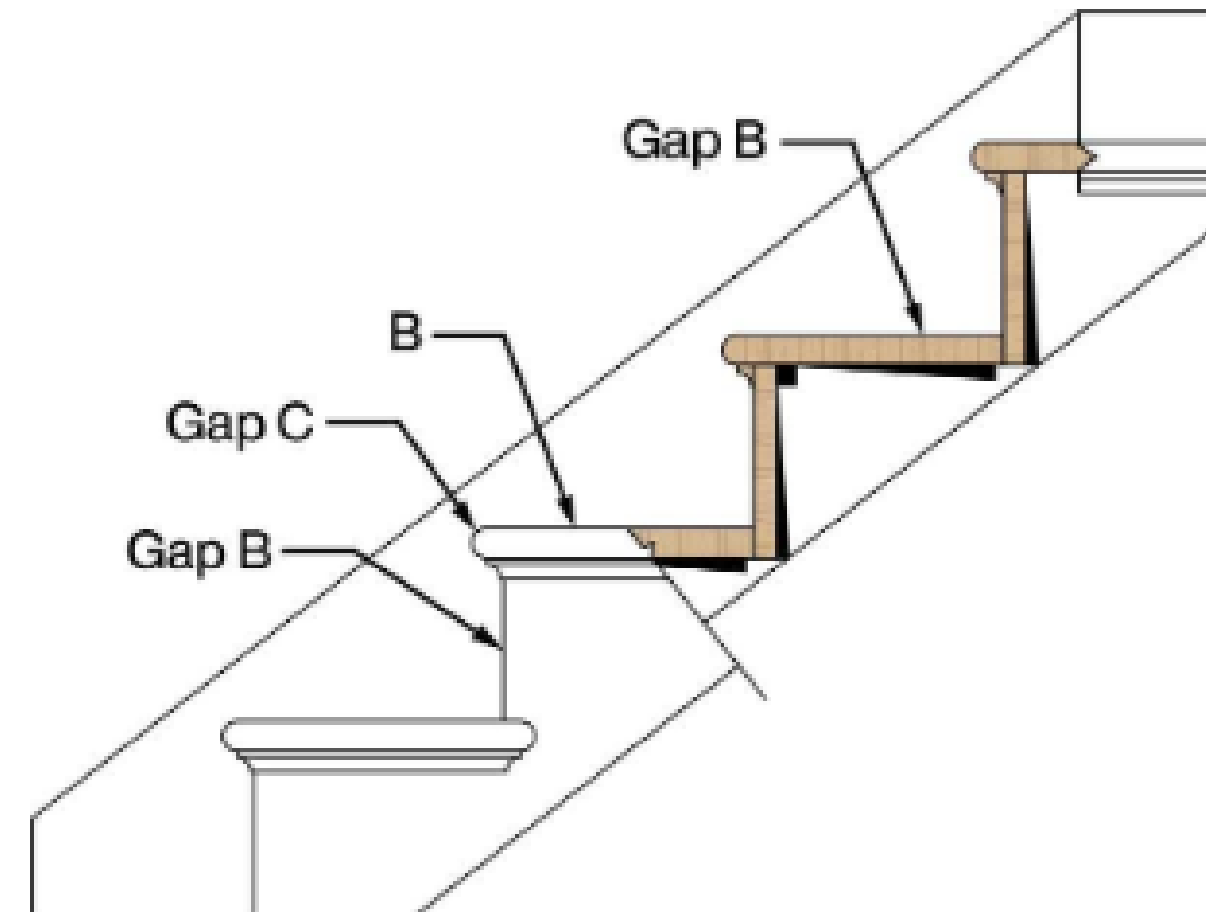
- Refers to exposed and semi-exposed surfaces
- Three levels of aesthetic grades
- Premium, Custom, Economy
- Provisions apply unless otherwise specified in contract documents

Premium Grade	Custom Grade	Economy Grade
The aesthetic grade defining the highest degree of control over materials, workmanship, and manufacture	The aesthetic grade defining a high degree of control over materials, workmanship, and manufacture	The aesthetic grade defining the minimum degree of control over materials, workmanship, and manufacture

Premium	Custom	Economy
Well-matched for grain and color	Compatible for grain and color	Compatible for color

0643 Figures & Illustrations

- References throughout standard to figures i.e. "See Figure XX"
- Figures found at back of standards booklet
- Figures can be seen throughout standard in online portal



0643 Supplemental Information

- Glossary available online
- Design Professional Responsibilities
- References

WOOD SPECIES	EXPOSED STRINGERS & SKIRT BOARDS		
	Maximum Number of Staves Per 12" Width		
	Premium	Custom	Economy
Cherry, American Black	4	S	S
Oak, English Brown	4	S	S
Oak, Red - rift sawn	4	S	S
Oak, Red - quarter sawn	4	S	S
Oak, White - rift sawn	4	S	S
Oak, White - quarter sawn	4	S	S
Pecan Group, Hickory	4	S	S
Walnut, American Black	4	S	S
*S - Requirements set forth in AWI/SMA 0643 - Wood Stair, Handrail, and Guard Systems (latest edition) shall apply			

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Contact Info

The Standard



WHY?

Why did the SMA join forces with the AWI to create a standard?

WHO?

Who will benefit from the proposed standard?

WHAT?

What does this mean to you, as a stairbuilder or manufacturer of stair parts?

WHEN?

When will the standard be published and available for use?



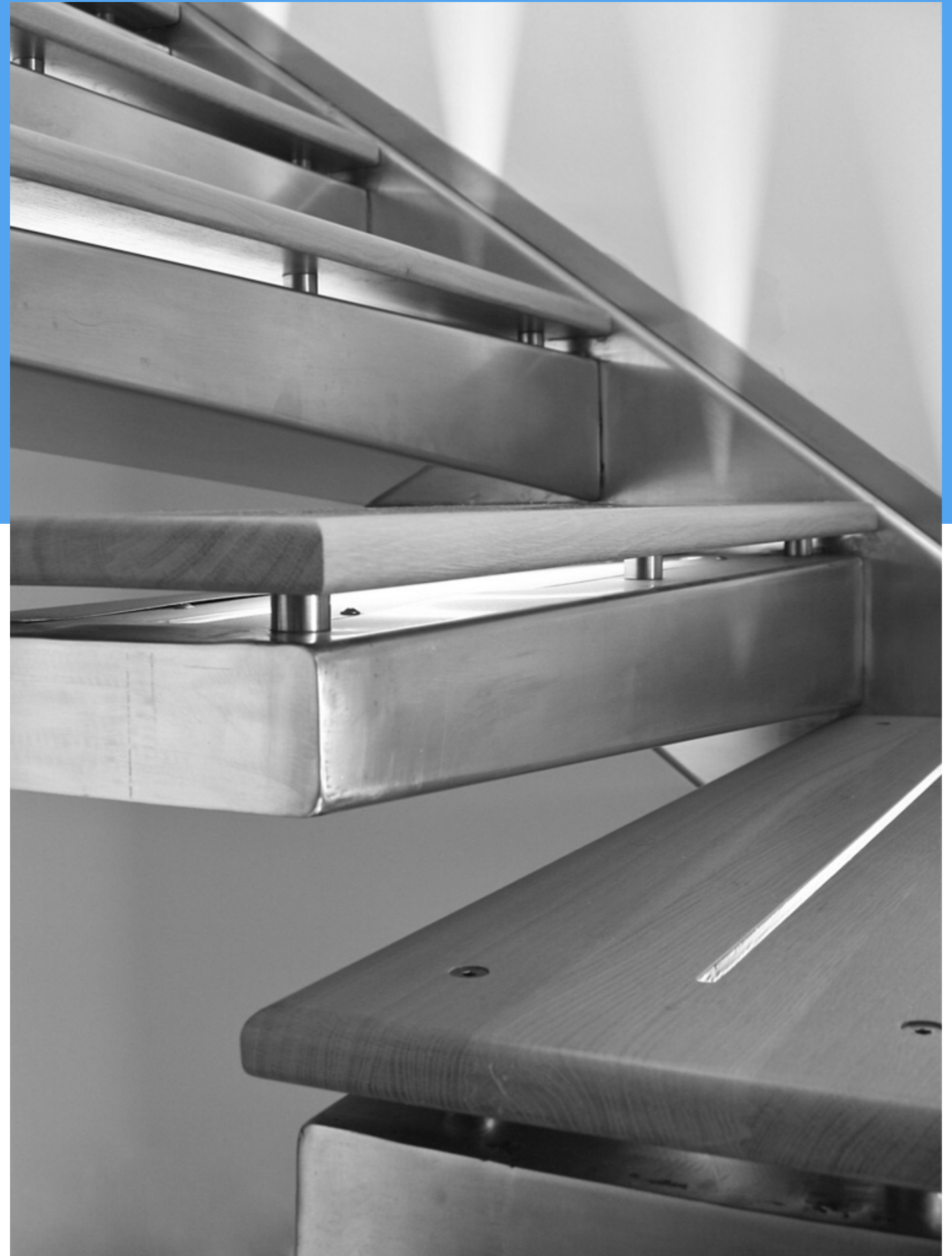
WHY?

- AWI
 - Accredited ISO through ANSI
 - Writing Staff to aid in Standard Creation
 - Existing format that works and is recognized in the woodworking industry
 - National recognition that the SMA can also gain presence in the AIA community by association
- Guide
 - Specifications for different levels of quality
 - Lessens the personal judgment call of quality of our product, in turn lessen disputes.
 - Levels the playing field when it comes to bidding jobs

WHO?

Multifaceted Benefit.

- Stairbuilders
- Manufacturers
- Architects
- Designers
- Engineers
- Consumers (End Users)





WHAT?

- Helps manage expectations
- Gives SMA members a Stair Standard to aid in bidding jobs
 - Premium
 - Custom
 - Economy
- Known product for end user
 - Serviceable
 - Visual Quality
 - Value for Years
- Aids in higher quality products
 - Leads to increased sales

WHEN?

NEXT STEPS

- Review by AWI Technical Committee
- Conduct Canvass (45 days)
 - Public Comment Period
 - Review by Canvass Group
 - Voting for Acceptance
- Evaluation by the ANSI Board of Standards Review



CANVASS

The proposed standard will start the CANVASS GROUP process soon.

Those that have signed up to review the standard will be contact by AWI Technical Projects Manager, Cheri Dermyre.

PUBLIC COMMENT

Review and Comment

This is Your Standard.





End Result of a GOOD STANDARD

- Member Benefits
 - Quality
 - Functionality
 - Consistency
 - Long Lasting
- Benefit to End User
 - Happy Consumer
 - Additional Sales of SMA Member Products and Services

THANK YOU!

THANK YOU TO OUR AWI SMA
STANDARD DRAFT TEAM.

Over the have contributed to this
standard. Their time and effort have
made this standard a reality.



CONTACT INFO



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