

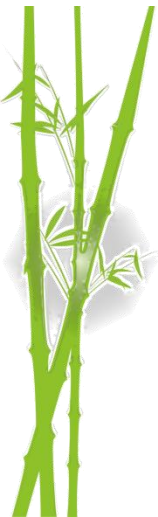


Introduction of New Work Item Proposal: Bamboo veneer

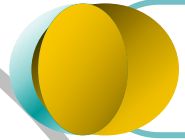
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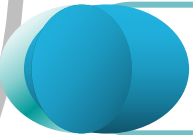
Outline



Background



Standardization Status



Proposed Contents



Work plan in future

Background

Brief introduction of Bamboo veneer



- Good appearance performance: straight grain and light color
- Strong cultural attribute



- Excellent bending strength and wear resistance: automobile decoration, plates
- High flexibility: packing box, straw, cups, etc.



Background

Brief introduction of Bamboo veneer

Rotary-cut bamboo veneer



Big taperingness



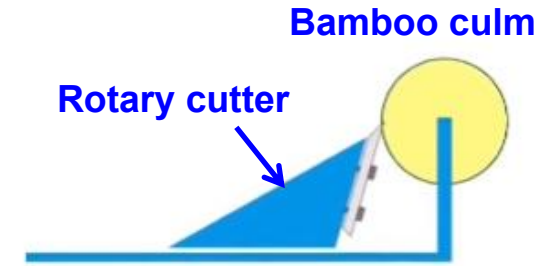
Bamboo culm cutting



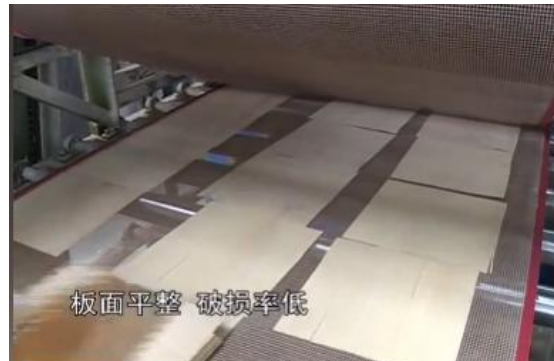
Bamboo culm softing



Bamboo culm rotary cutting



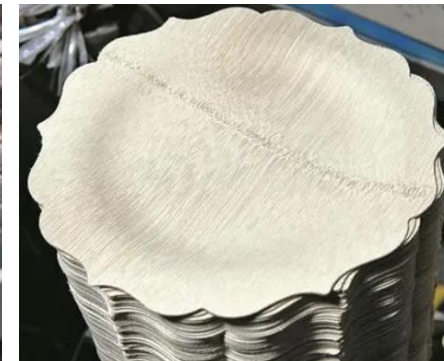
Bamboo veneer



Bamboo veneer drying



Mould pressing



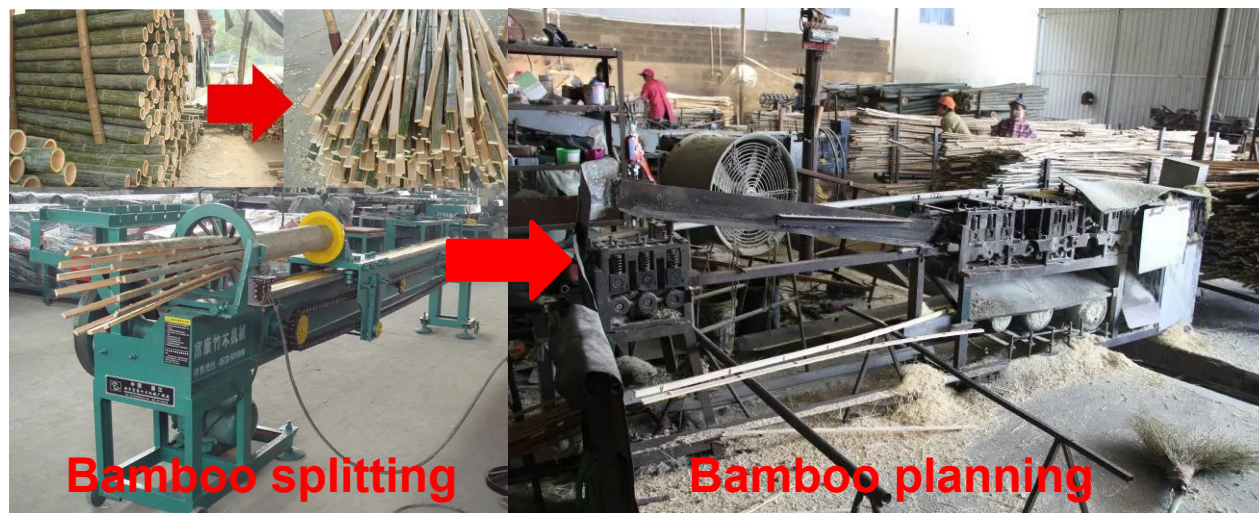
Bamboo veneer products



Background

Brief introduction of Bamboo veneer

Sliced bamboo veneer



Background

Brief introduction of Bamboo veneer

Sliced bamboo veneer



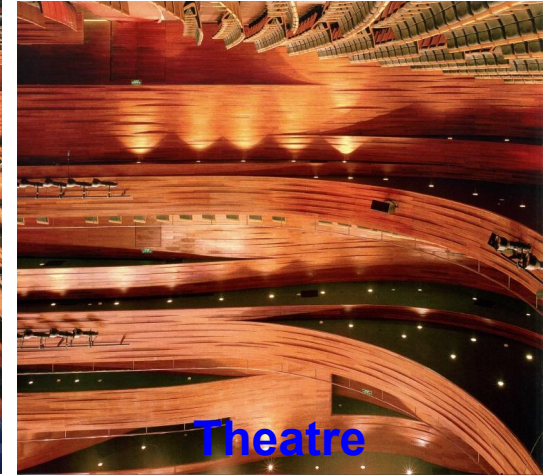
Furniture



Office



Theatre



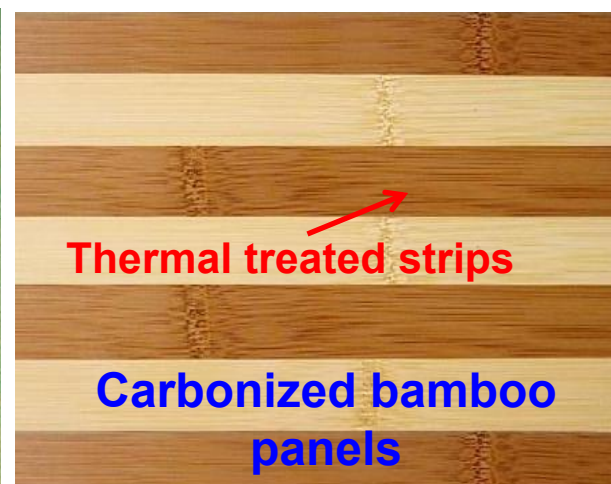
Theatre



Dyed bamboo panels



Dyed bamboo veneers



Thermal treated strips

Carbonized bamboo panels

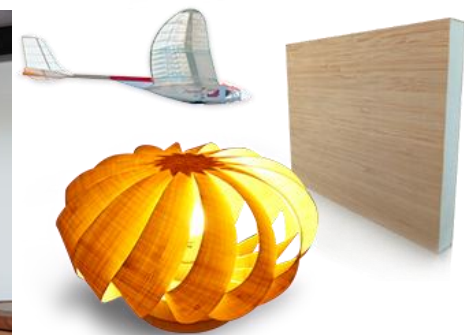


Carbonized bamboo veneers

Background

Brief introduction of Bamboo veneer

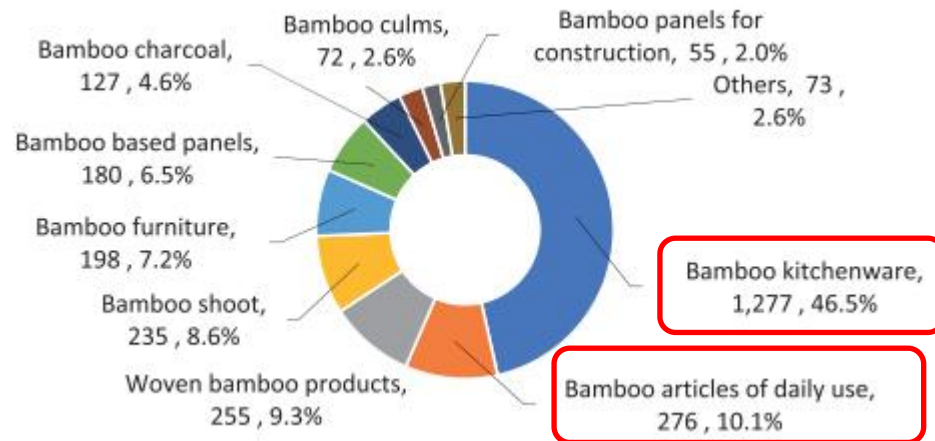
Sliced bamboo veneer



Background

Brief introduction of Bamboo veneer

Proportion of China's export of main bamboo commodities in 2022 (unit: USD million, %)



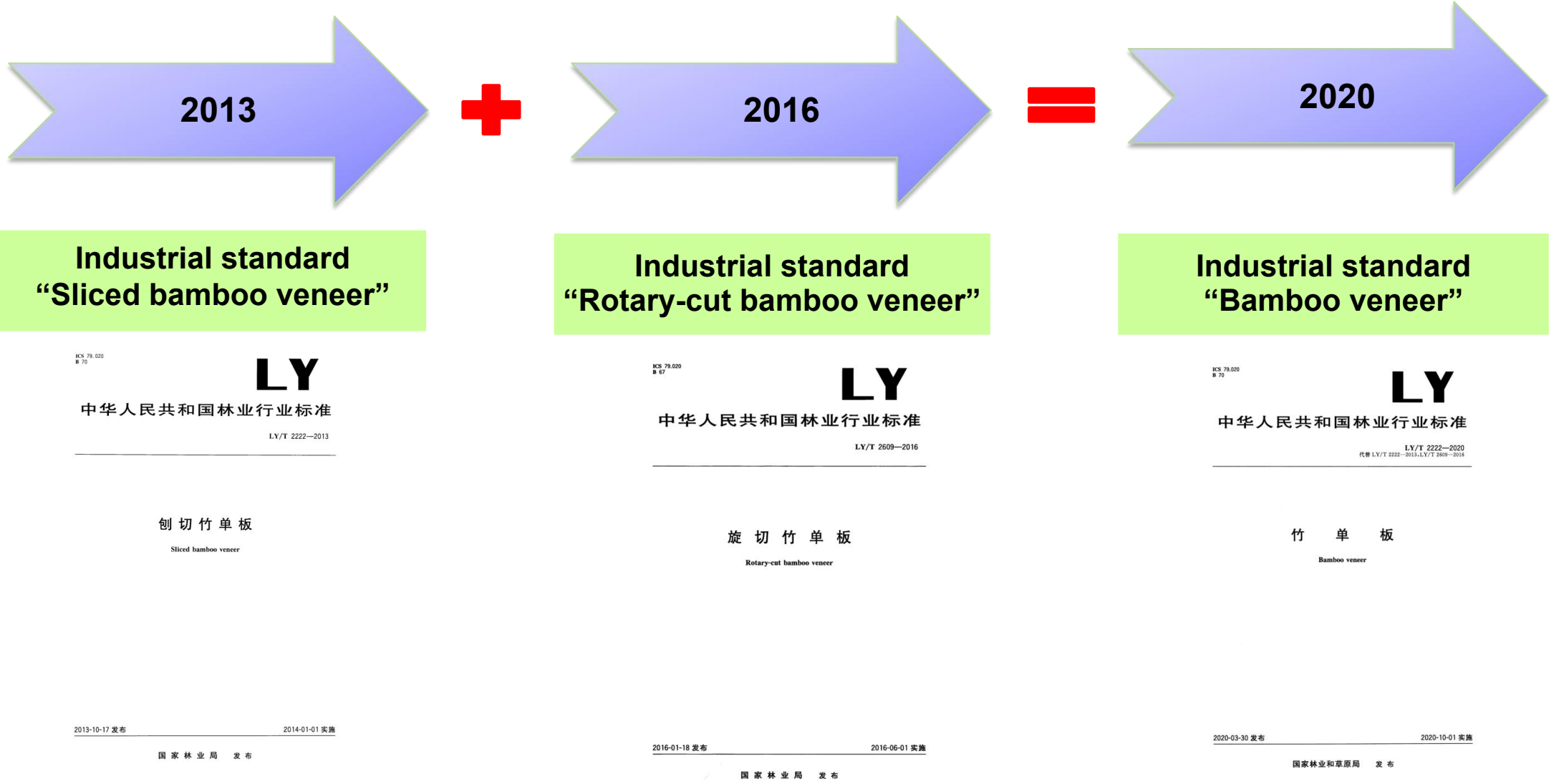
unit: USD million					
Category of Bamboo commodities	The USA	Japan	The Netherlands	Germany	India
Bamboo kitchenware	215.01	152.62	46.28	55.68	96.52
Bamboo shoot	15.76	141.29	5.64	5.93	0.24
Bamboo articles of daily use	67.60	11.90	16.54	22.06	1.56
Woven bamboo products	56.33	17.75	19.85	8.81	1.34
Bamboo furniture	57.63	9.70	10.18	22.54	0.52
Bamboo based panels	44.43	11.78	15.17	5.88	1.80
Bamboo charcoal	1.64	24.81	0.44	0.45	0.94
Bamboo culms	10.38	3.17	10.74	3.19	-
Bamboo panels for construction	8.72	0.02	11.90	0.32	1.17
Bamboo pulp and paper articles	14.01	1.24	0.04	2.28	0.10
Bamboo viscose fiber	0.18	0.20	0.15	0.25	12.12

Source: INBAR

■ As more countries around the world implement plastic bans and restrictions, the total export value of alternative commodities from China in alignment with the Bamboo as a Substitute for Plastic Initiative reached USD 1.79 billion, accounting for 62.2% of the total product exports.

Standardization Status

Standard Development in China



Standardization Status

Challenges

- There is no international standard for bamboo veneers.
- Great inconvenience for bamboo veneer manufacturing, quality management, and international trade.

FINAL
DRAFT

INTERNATIONAL
STANDARD

ISO/FDIS
18775

ISO/TC 89/SC 3
Secretariat: AFNOR
Voting begins on:
2020-09-08
Voting terminates on:
2020-11-03

**Veneers — Terms and definitions,
determination of physical
characteristics and tolerances**

*Placages — Termes et définitions, détermination des caractéristiques
physiques et tolérances*

RECIPIENTS OF THIS DRAFT ARE INVITED TO
SUBMIT WITH THEIR COMMENTS, INFORMATION
ON ANY RELEVANT EXISTING STANDARDS OF WHICH
THEY ARE AWARE, AND TO PROVIDE SUPPORTING
DOCUMENTATION.
IN ADDITION TO THEIR EVALUATION AS
BEING ACCEPTABLE FOR INTERNATIONAL, TECHNICAL,
LOGICAL, COMMERCIAL AND USER PERSPECTIVES,
DRAFT INTERNATIONAL STANDARDS MAY ON
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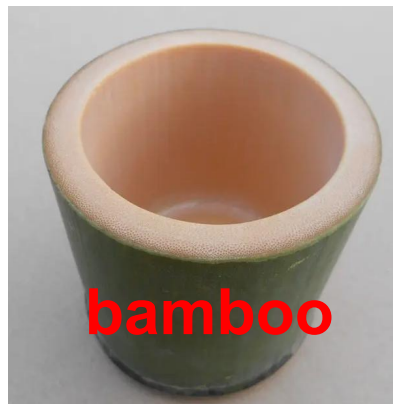


Reference number
ISO/FDIS 18775:2020(E)

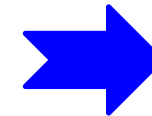
© ISO 2020



- ✓ Solid structure
- ✓ Transverse tensile strength
- ✓ Biological durability



- ✓ Hollow structure
- ✓ Transverse tensile strength
- ✓ Biological durability



- ✓ Common size
- ✓ Apperance: Crack, mildew, glue penetration, etc.

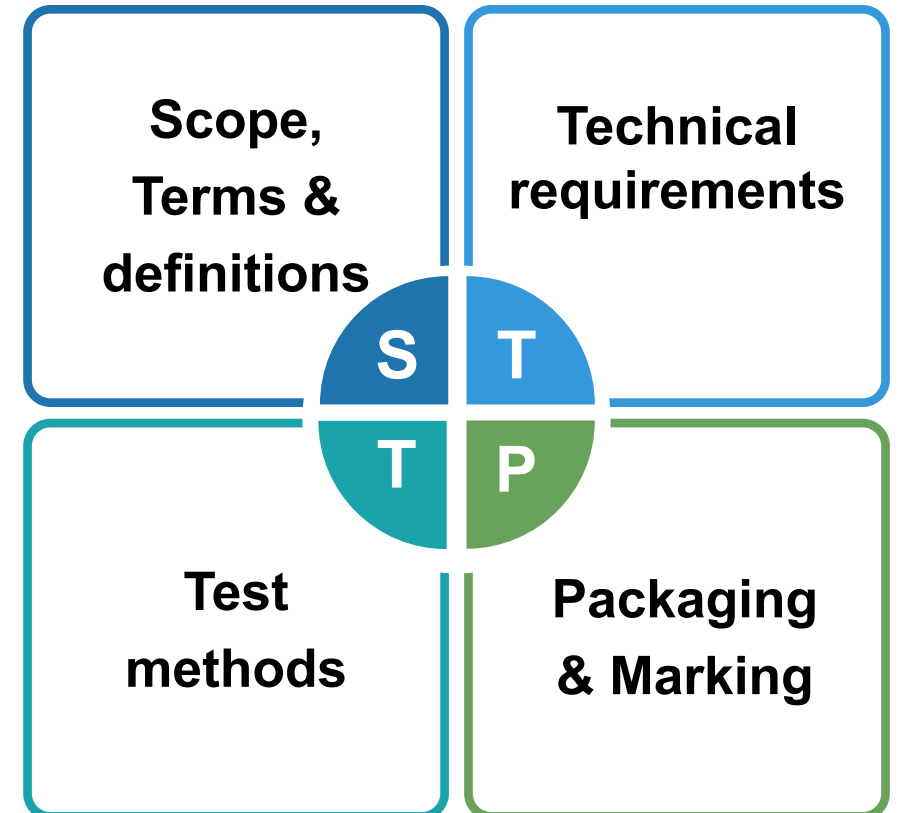
Proposed Contents

Principles & Main Contents

Principles



Main Contents



Bamboo veneers

- sliced bamboo veneer
- rotary-cut bamboo veneer
- sawed bamboo veneer

Requirement

- glue penetration
- glue marks
- etc.

Size and Tolerance

- Common sizes
- Tolerances on the length and width

Appearance

- Mildew
- Knife marks, scratches, sand marks
- Crack
- Glue marks
- Glue penetration
- etc.

Physical, mechanical, and chemical property

- Moisture content
- Formaldehyde emission