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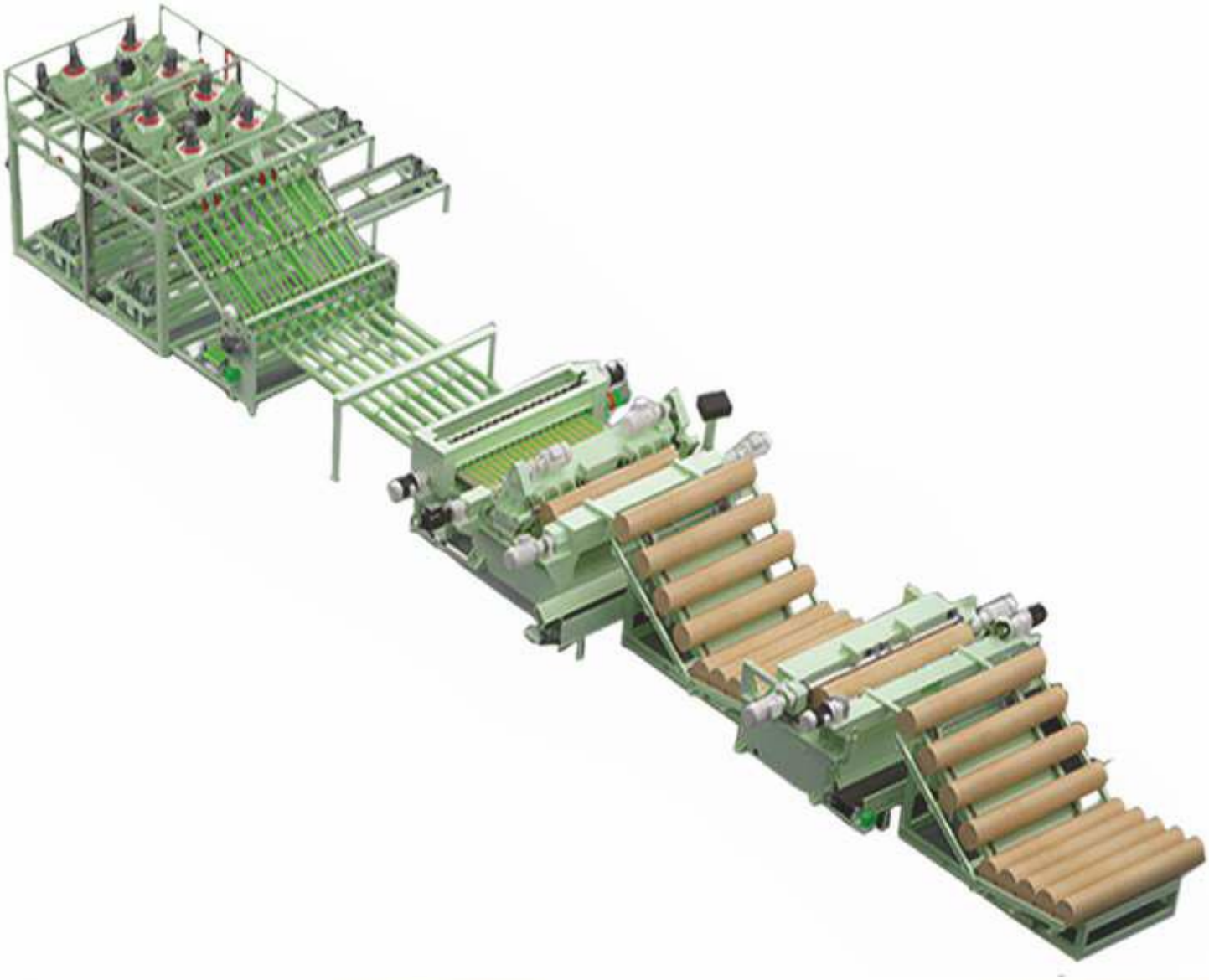
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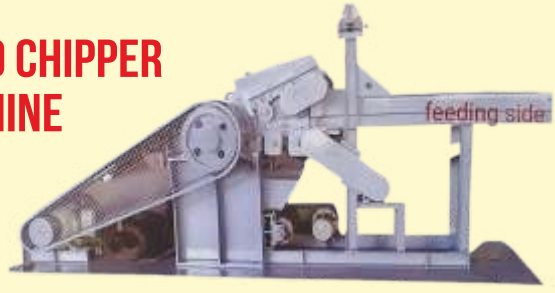
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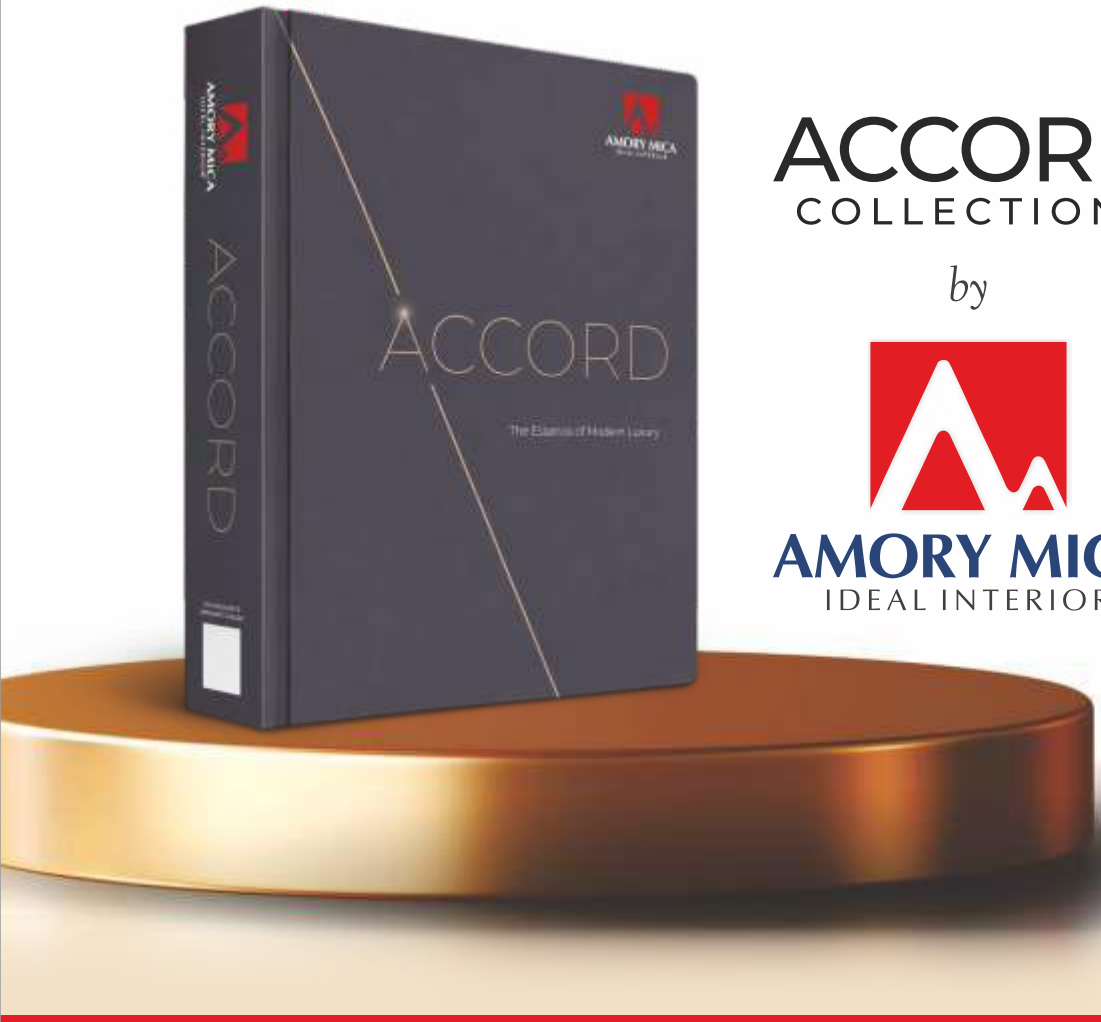


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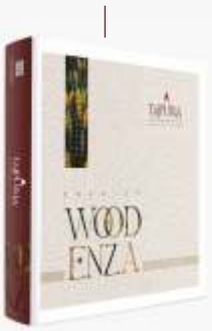
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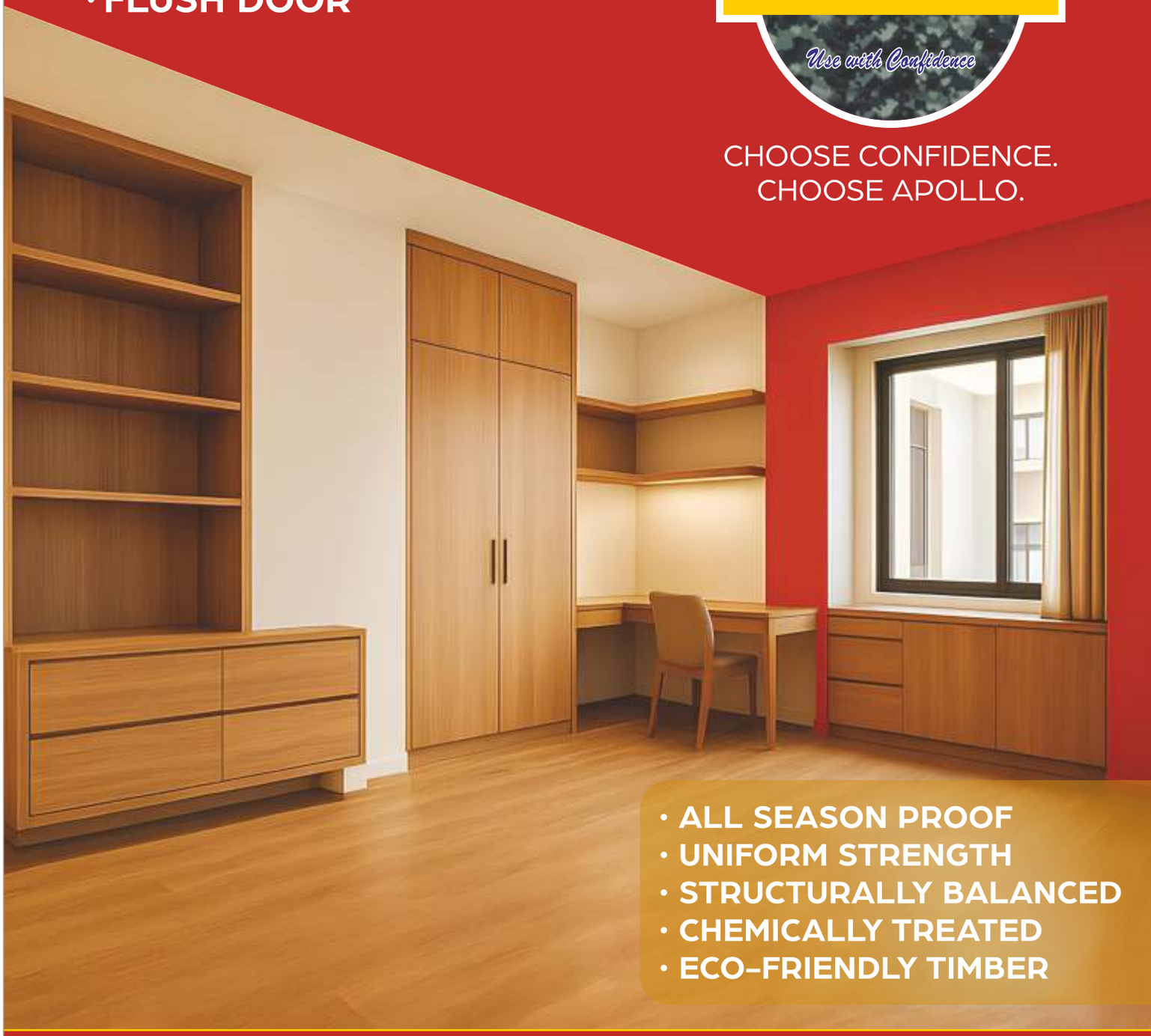
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CenturyPly

Sets Sights on High Revenue by Fy31, Bets on Housing and Exports

Kolkata-based Century Plyboards (India) is targeting revenue of more than ₹12,000 crore by FY31, as it prepares for the next phase of expansion across plywood, laminates, MDF and particle board. Executive Director Keshav Bhajanka said the company expects a roughly 20% CAGR, supported by rising housing demand, increased consumption and greater manufacturing capacity.

CenturyPly is adding plywood capacity through new facilities in Hoshiarpur, Punjab, and Uttar Pradesh, while retaining scope to expand MDF capacity in Uttar Pradesh and plywood capacity in Andhra Pradesh. Odisha could subsequently accommodate particle board capacity, although these projects have not yet been finalised.

K Bhajanka said capacity would not be the principal constraint on growth. Alongside manufacturing investments, the company is continuing to spend on brand building and strengthening its teams, arguing that product quality has increasingly become a basic market expectation.

Technology and digitisation are also becoming central to the company's strategy. CenturyPly has implemented sales-force automation over the past five years, improving sales productivity. In manufacturing, advanced machinery is already generating data on usage, runtimes and consumption, while the company is working with three technology firms to explore broader applications of artificial intelligence.

Exports represent another significant growth opportunity, particularly in laminates. India, according to Keshav Bhajanka, enjoys a competitive advantage in laminate manufacturing because of its labour-intensive production base and ability to deliver quality products. CenturyPly has created a larger dedicated laminate export team and added three large-size presses at its Andhra Pradesh facility, with the third becoming operational recently.

The company expects India's growing affluence and housing demand to create a long-term demand cycle for wood-based products and furniture. Bhajanka also highlighted the substantial capacity gap between India and China in plywood, MDF and particle board, suggesting considerable room for domestic industry expansion.

For CenturyPly, the strategy is therefore clear: build capacity, deepen brands, harness technology and pursue overseas markets as India's building-materials consumption expands.

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Greenply

Plans 60% MDF Capacity Expansion, Targets Sustained Growth

Greenply Industries is preparing for a significant expansion of its medium-density fibreboard (MDF) manufacturing capacity as the Kolkata-based plywood major looks to sustain growth over the next two to three years.

Recently, Chairman and Managing Director Rajesh Mittal outlined the company's strategy in the National Capital, where Greenply showcased new products and customer-focused initiatives.

Mittal said the company is approaching MDF as an engineered performance system rather than simply a construction material. MDF, manufactured from refined wood fibres and adhesive, is widely used in furniture and interior applications and offers a cost-effective alternative to hardwood plywood.

The company's MDF business has already been recording strong momentum. Gourav Khandelwal, Chief Operating Officer, said the division registered year-on-year growth of between 35 and 40 per cent in the latest quarter.

Greenply's second MDF production line is currently under construction and is expected to commence commercial operations in the first half of next year. The new facility will add 650 cubic metres per day to the company's existing capacity of 1,000 CBM per day, representing an overall capacity increase of approximately 60 percent.

Khandelwal said the expansion would provide Greenply with a strong platform for sustained growth over the coming two to three years.

Alongside capacity expansion, Greenply is strengthening its product portfolio with Club 700 premium plywood, Termivax, new XPro colours and its "Never Before Teak" proposition. The company is also promoting its Gold plywood range through a "Double Assurance" warranty designed to cover the complete cost of rectifying an issue.

Recent interactive demonstrations included a Japanese sumo wrestling activation highlighting MDF's load-bearing capabilities and an AI-enabled zone showcasing technology-driven product discovery.

Sustainability remains another major focus. Greenply said it has planted more than 90 million trees and is pursuing a 100-million-tree target through its "One Sheet, One Tree" initiative.

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Canada

B.C. Plywood Maker Readies for 50% U.S. Tariff Shock

A British Columbia plywood manufacturer is warning that a proposed 50 per cent U.S. tariff could severely disrupt its business as Canadian and American officials race to reach a trade agreement before the Wednesday deadline.

Richmond Plywood, which supplies a significant volume of high-end plywood to the U.S. market, says it cannot absorb the additional cost. About 20 per cent of the company's sales would be affected if the tariff takes effect.

"A 50 per cent tariff is not a margin we can absorb, nor is it something U.S. customers will be willing to pay," says Bhavjit Thandi, chief financial officer of Richmond Plywood.

The proposed duties would affect approximately C$28 billion worth of Canadian exports. Their impact could extend well beyond individual manufacturers, with British Columbia expected to face particularly strong exposure because of its reliance on U.S. markets.

Brian Yu, associate vice-president and chief economist at Central 1 Credit Union, estimated that around 13 per cent of B.C. 's exports to the United States could be affected by the new measures, a larger exposure than in Ontario or Quebec.

Canadian officials are continuing negotiations in Washington. Trade Minister Dominic LeBlanc met U.S. Trade Representative Jamieson Greer and Commerce Secretary Howard Lutnick as the deadline approached. Prime Minister Mark Carney was also expected to speak with U.S. President Donald Trump.

For B.C.'s forestry industry, however, uncertainty remains particularly acute. Premier David Eby has argued that softwood lumber must be a central element of negotiations, noting its importance to the Canadian economy. Sources indicated that U.S. officials have so far shown little interest in discussing the issue.

While there is still hope that the tariffs could be delayed or withdrawn, manufacturers are preparing for a potentially damaging new barrier to their largest export market.

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CenturyPly

Launches Total Cover, Bets on India's Plywood Growth Potential



CenturyPly has launched Total Cover, a 10-year warranty programme that goes beyond replacing defective plywood to cover furniture-related costs arising from product failure, as the company targets sustained growth in India's expanding wood-panel market.

Unveiled in Kolkata after 2.5 years of research, Total Cover reimburses eligible costs associated with defective plywood, including laminates or veneers, adhesives, labour and transportation. Customers can register purchases online within 90 days, receive a digital warranty certificate and



initiate claims through the company's warranty portal or customer support.

Keshav Bhajanka, Executive Director, CenturyPly, said the initiative was designed to address the complete customer problem rather than simply replace a defective sheet. He said the company had doubled its business over the past five years despite the pandemic and economic challenges, supported by manufacturing, distribution, go-to-market strategies and product innovation.

Bhajanka also pointed to the substantial growth opportunity in India's plywood industry. He estimated China's plywood capacity at approximately 160 million cubic metres annually, compared with around 10 million cubic metres in India. China's MDF capacity, meanwhile, is about 55 million cubic metres, against less than four million cubic metres in India.

CenturyPly is therefore continuing to invest across plywood, laminates, PVC, MDF and particle board, alongside talent development. A new manufacturing facility in Uttar Pradesh is scheduled to become operational by October.

The company has retained an ambitious growth target of approximately 20 per cent annually and aims to reach revenue of ₹12,000 crore by FY31.

Nikita Bansal, Executive Director, CenturyPly, said customer-focused innovation had consistently driven the company's growth, citing termite-resistant and fire-retardant plywood among earlier initiatives.

Initially available on premium plywood products, Total Cover incorporates digital verification and technical inspection, including photographs, video calls and physical site visits where required. The programme excludes products used outside their intended applications.



Century Plyboards

Reports Record Q1FY27 Revenue, PAT Surges 57%

Century Plyboards (India) Limited has reported a strong start to FY27, posting record consolidated quarterly revenue for the quarter ended 30th June, 2026, a 33.5 per cent year-on-year increase.

The performance was supported by robust plywood volumes, improved realisations and tighter operational efficiency. EBITDA margin, excluding forex losses, in Q1FY26.

Plywood remained the company's principal growth engine, with revenue rising and volumes increasing. EBITDA margin for the segment stood solid.

Laminate revenue increased despite a decline in volumes, reflecting a strategic shift towards higher-thickness products. Average selling prices increased significantly, supporting an EBITDA margin.

MDF revenue grew, while volumes increased. Sequential performance was affected by a planned plant shutdown linked to capacity expansion. Particle Board emerged as the fastest-growing segment, with revenue jumping, although the business remains in an investment phase.

Century Plyboards is also expanding manufacturing capacity. Its 60,000-CBM annual greenfield plywood plant at Hoshiarpur is scheduled to begin operations in Q3 FY27. The Chennai expansion is progressing, while the Andhra Pradesh MDF facility has increased capacity from 700 to 950 CBM per day.

The company has implemented price increases across plywood, MDF and laminates to offset higher input costs. It has also introduced a Total Cover Assurance Programme for Club Prime Plywood, offering enhanced consumer protection.

Meanwhile, working-capital efficiency improved, with the cash conversion cycle in Fy26.



Duroply

Marking Seven Decades of Legacy, Quality and Dealer Trust

Duroply Industries Limited is marking seven decades of its journey in the wood panel industry, celebrating a legacy built around quality, consistency, innovation and strong relationships with its dealer network.

Founded in 1957 as Sarda Plywood Industries Private Limited, the company has established itself as a manufacturer of plywood, veneers, blockboards and doors, supplying wood products for residential and commercial applications across India.

For Duroply, the milestone is as much about relationships as it is about products. Long-standing dealers say the company's ability to maintain close partnerships through changing market conditions has been central to its enduring presence.

Dealers who have been associated with Duroply for around two decades, describe the relationship as "family-like", saying dealers have consistently received support from the company. They also highlight Duroply's emphasis on quality and its prompt response to customer and dealer complaints.

Consistency has been one of the brand's defining strengths. They note that many companies have entered and exited the market over the decades, while Duroply has maintained its commitment to quality, creating what can be described as a benchmark for reliability in the wood industry.

Other dealers bring an even longer perspective. They say their experience has remained consistently positive and describe Duroply as synonymous with quality plywood.

They also credit the company with introducing new products and setting trends in the wood panel market. In their view, the brand's seven-decade journey reflects strong fundamentals and provides a foundation for future growth.

As Duroply celebrates the milestone, the testimonies of its long-standing channel partners underline a central theme of its journey: enduring brands are built not merely through products, but through trust, consistency and relationships that survive generations.

PLY GAZETTE
MONTHLY REPORT ON THE INDIAN PANEL AND SURFACE INDUSTRY

Bamboo Plywood

Moving Towards Mainstream Construction and Industrial Applications

Bamboo plywood is steadily moving beyond its niche status, emerging as a broader material choice for construction, interiors, furniture and specialised industrial applications as sustainability requirements reshape procurement decisions.

According to market projections cited by IndexBox, the global bamboo plywood panels market could expand at an annual rate of around 6–8 per cent through 2035, with a baseline growth estimate of approximately 6.8 per cent. The expansion reflects growing demand for lower-carbon alternatives to conventional wood-based panels.

Bamboo plywood is increasingly being specified for cabinetry, flooring, wall panels, doors, furniture components and interior cladding. Its combination of strength, appearance and environmental credentials is helping it gain acceptance in commercial interiors and renovation projects across Europe, North America, the Middle East and Southeast Asia.

Electronics and controlled-environment applications are opening another avenue for growth. Bamboo plywood is finding use in workstations, modular cleanroom furniture, anti-static flooring underlays and packaging, where emissions, cleanliness and functional performance can be important considerations.

Sustainability remains a major market driver. Construction and manufacturing buyers are increasingly evaluating materials against carbon footprints, VOC emissions, traceability and broader ESG requirements.

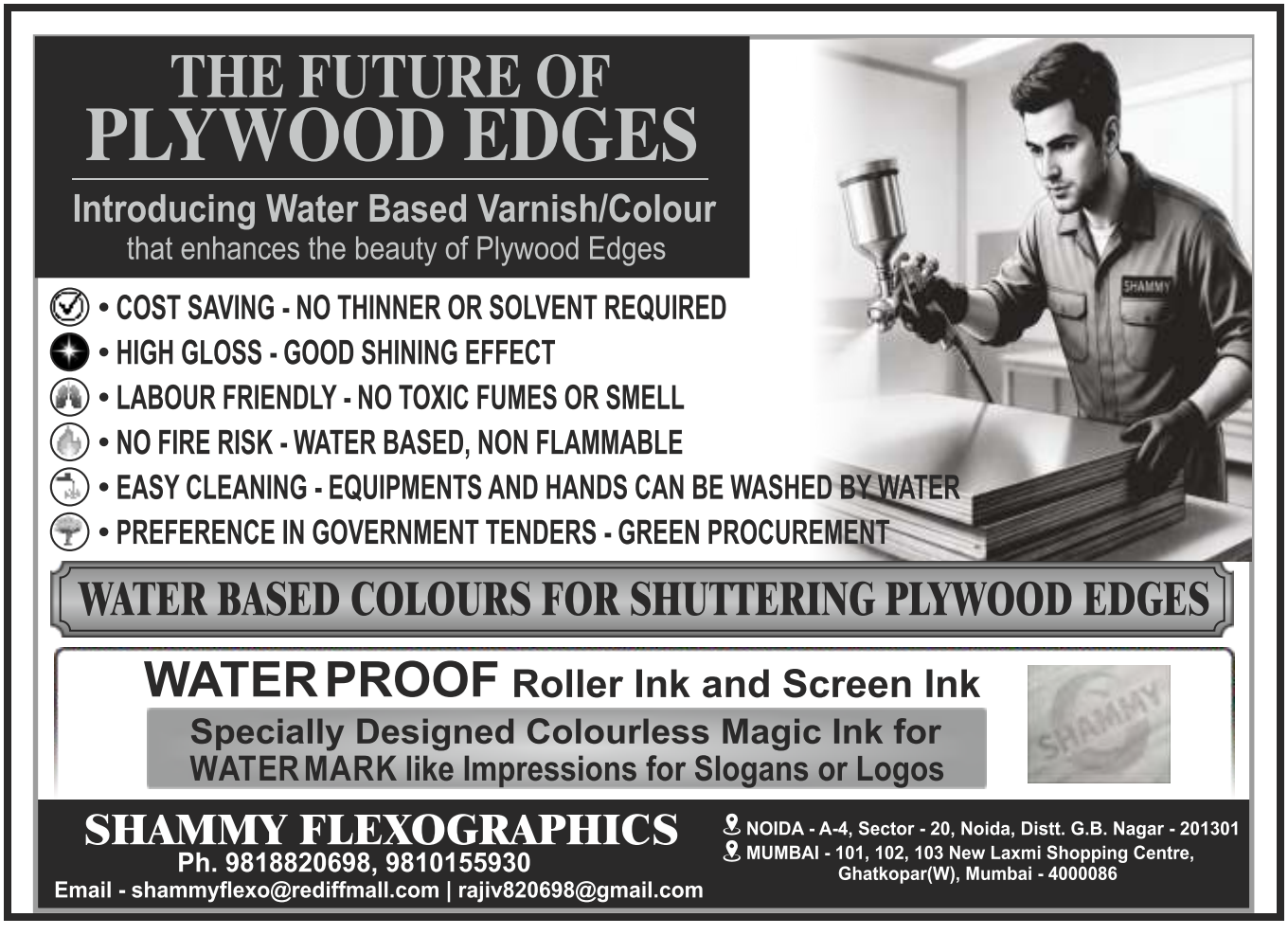


Certified, low-emission products can therefore gain an advantage as environmental standards become more demanding.

Supply, however, remains concentrated. Asia-Pacific accounts for roughly two-thirds of global bamboo plywood volume, with China leading production while Indonesia and Vietnam expand their processing capabilities. The diversification could eventually offer buyers greater sourcing flexibility, although regional supply chains remain exposed to logistics disruptions, raw-material costs and quality variations.

The market also faces challenges from rising bamboo and adhesive costs, fragmented certification standards and long lead times for premium panels. For procurement teams, sustainability credentials alone are no longer sufficient; consistent colour, moisture resistance, dimensional stability, certification and dependable delivery are increasingly important.

The market's evolution therefore signals a broader shift from bamboo plywood being marketed primarily as an eco-friendly design material to becoming a performance-oriented industrial panel. If suppliers can combine reliable quality with certification and resilient supply chains, bamboo plywood could secure a much larger role in mainstream construction and specialised manufacturing.



Federation of Industry & Trade (FIT)

Calls for New Industrial Park, Cluster-Based Development

The Federation of Industry & Trade (FIT) held its monthly meeting at a hotel in Jalandhar, bringing together industrialists, traders and healthcare representatives to discuss industrial growth, cluster development and welfare initiatives for the business community.



Addressing the gathering as chief speaker, Naresh Tiwari, Chairman of the All India Plywood Board Association, stressed that forming industrial clusters is the need of the hour. He said clusters would help small and medium industries gain access to new technology, modern machinery, government schemes and shared facilities, drawing on his own experience with engineering estates and small cluster models. Tiwari underlined the city's urgent need for a government industrial



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park spread across at least 25 acres, noting that the Punjab Small Industries and Export Corporation had last developed a focal point extension in Jalandhar back in 1994, with no new government industrial park built since. In its absence, he pointed out, new factories are increasingly coming up on agricultural land in industrial zones, outside approved town planning norms.

FIT President Sunil Sharma welcomed all attendees and said the organisation's members would take up the matter and work towards addressing it.

On the healthcare front, the Fortis Hospital Jalandhar team, led by GDM Shantanu Kumar Sachet, briefed members on the hospital's advanced treatment technologies, world-class facilities and affordable care options, including EMI-based payment facilities. FIT and Fortis Hospital jointly felicitated several members, along with their families and employees, reaffirming continued support for the community's health and wellbeing.

The meeting also saw FIT members welcome industrialist Rajan Gupta as the newly appointed Chairman of the Aryavart Welfare Board.



Sukhwinder Singh, Chairman of the Traders Commission for the Jalandhar North assembly constituency, addressed the gathering, assuring that long-pending issues concerning industry and trade would be pursued firmly with the government, with full support extended toward their resolution.

As part of the event, Naresh Tiwari, Rajan Gupta and Sukhwinder Singh were felicitated by FIT President Sunil Sharma, along with Manindra Sharma and Ranjeev Wadhwa.

A large turnout of industrialists, traders and FIT office-bearers reflected strong engagement around the twin priorities of industrial development and healthcare welfare.



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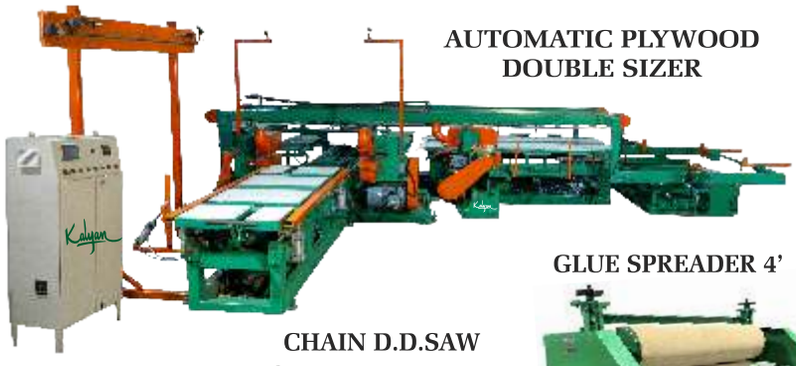




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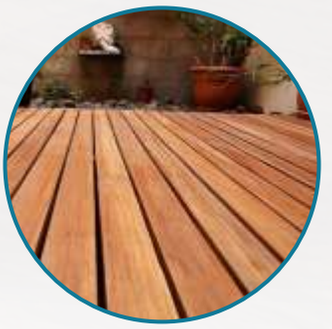
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U.S. Trade Panel

Backs Duties on Chinese, Indonesian and Vietnamese Plywood

The United States International Trade Commission (USITC) has cleared the way for new antidumping and countervailing duty orders on imports of hardwood and decorative plywood from China, Indonesia and Vietnam, delivering a fresh trade-policy setback to exporters in the three countries.

In affirmative injury determinations issued on 19th August, the USITC concluded that U.S. producers had been materially harmed by imports of the covered plywood products. The decision applies to hardwood and decorative plywood but excludes softwood structural plywood.

The Commission identified three domestic like products in the investigations. Chairman Brett W. Doyle and Commissioners Jason S. Kearns and Peter-Anthony Pappas voted in favour of the affirmative determinations, while Commissioners Bart Thanhauser and David Foley Jr. did not participate.

Following the findings, the U.S. Department of Commerce is expected to issue antidumping and countervailing duty orders covering the affected imports from China, Indonesia and Vietnam. Such orders can impose additional duties designed to counter alleged unfair pricing or government subsidies and protect domestic manufacturers from trade-distorting competition.

The investigation also produced a significant distinction between product categories. The USITC determined that imports of softwood structural plywood, including stamped and certified softwood structural plywood, from the three countries were negligible. The Commission consequently terminated the related antidumping and countervailing duty investigations.

Import volumes were a key factor in the broader investigation. According to the USITC report, subject imports increased 37.1 per cent by quantity in 2024, following a sharp 55.1 per cent decline in 2023. During the investigation period, imports covered by the proceedings accounted for between 77.9 percent and 83.7 percent of total U.S. imports in the relevant categories.

The final public version of the USITC's investigation report is scheduled for release by 28th September, 2026, providing further detail on the evidence and findings behind the determinations.



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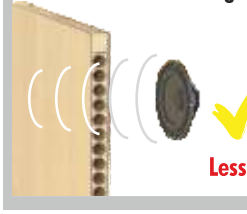
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Canadian Wood

Product Prices Reach 12-Month High

Canadian wood-product prices climbed sharply in July, reaching their highest level in 12 months as producers recorded another month of strong gains, according to Statistics Canada.

Prices for wood products increased 6.0 per cent from June, following a 5.7 per cent rise in the previous month. On an annual basis, prices were 12.0 per cent higher than in July 2025, matching their highest level since March 2025.

The latest figures point to sustained price momentum across Canada's wood-products sector, although the increase remains marginally below the performance of the broader manufacturing economy.

Canada's overall industrial product price index, which measures prices received by manufacturers at the factory gate, rose 0.6 per cent in July from the previous month. Compared with a year earlier, factory-gate prices were 12.4 per cent higher.

The 0.4-percentage-point gap between wood products and the broader factory-gate benchmark indicates that, despite the sector's strong monthly performance, wood prices are still slightly lagging overall industrial price growth.

July's increase nevertheless represents a notable acceleration. Wood-product prices have now recorded two consecutive months of substantial monthly gains, with the June increase itself following a



period of comparatively moderate movement.

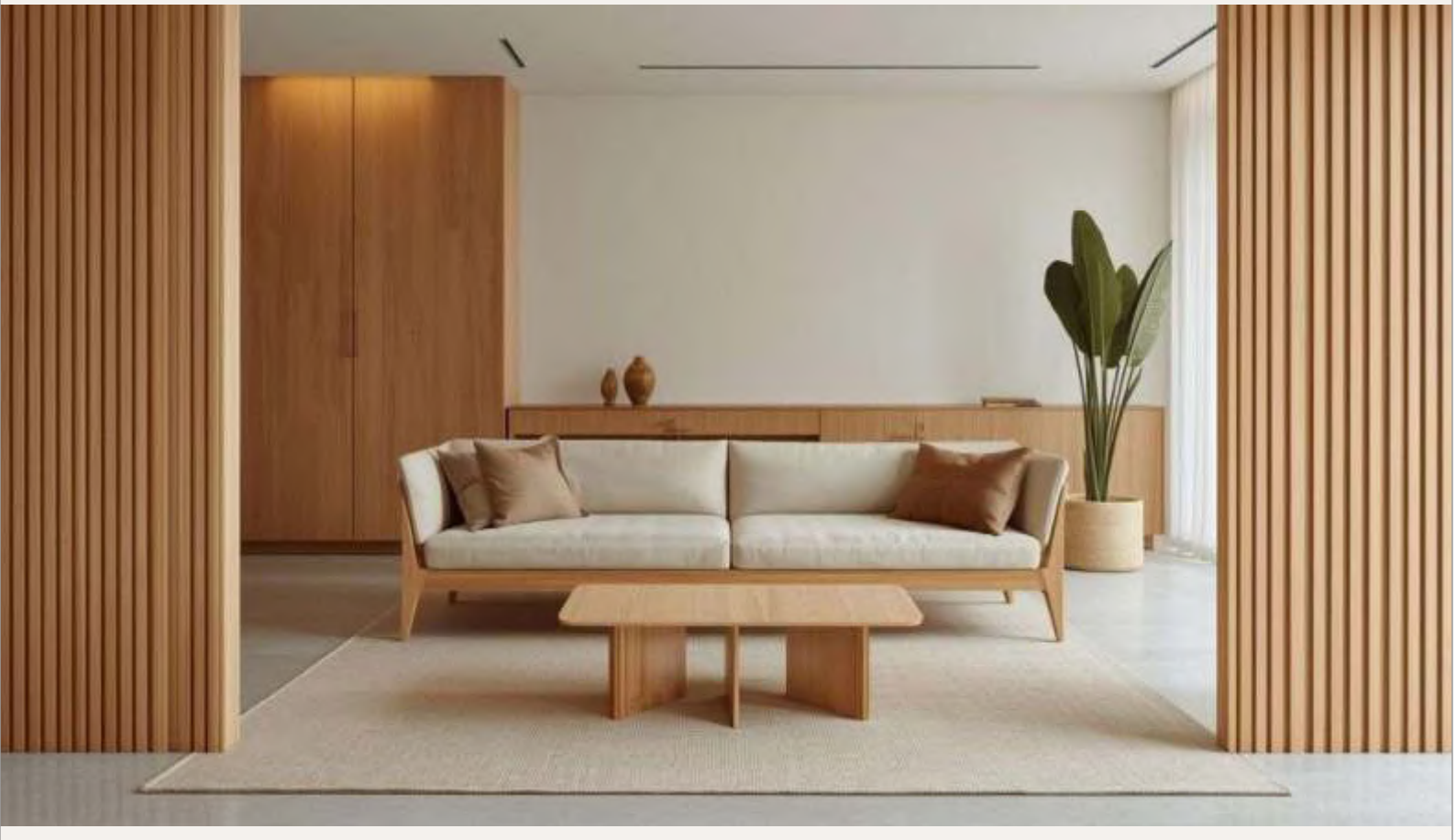
The price recovery comes against a backdrop of changing conditions across North American construction, manufacturing and housing markets, where demand, production costs and trade flows continue to influence lumber and panel prices.

For Canadian producers, the latest figures offer evidence of firmer pricing conditions after a period of volatility. However, the comparison with the overall industrial index suggests that wood products have yet to fully match the pace of price increases elsewhere in Canadian manufacturing.

The July data will be closely watched by manufacturers, distributors and construction companies as they assess input costs and market conditions for the remainder of 2026.

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E3 Group

Showcases Made-in-India Surface Solutions at INDEXPLUS 2026

E3 Group, one of India's leading manufacturers of interior and exterior surface solutions, showcased its latest product range at INDEXPLUS 2026, one of the country's leading trade fairs for furniture, interiors and design. This three-day exhibition was held from 7th to 9th August, 2026, at Yashobhoomi (IICC), Dwarka, New Delhi.

The 2026 edition brought together more than 300 exhibitors from India and overseas, including international pavilions, alongside over 500 hosted buyers from India, SAARC and the MENA region. Across its editions, INDEXPLUS has hosted exhibitors from more than 10 countries and drawn over 21,000 trade visitors, with conferences and knowledge sessions facilitating dialogue between manufacturers, architects, designers and policymakers shaping the built environment.

At the exhibition, E3 Group presented a comprehensive portfolio of surface solutions developed for residential, commercial and institutional applications, with an emphasis on design, functionality, durability and quality.

Speaking on the participation, Ajay Garg, Managing Director, E3 Group, said the Indian interior & exterior industry is entering a phase where innovation extends beyond aesthetics, with architects and designers now



seeking materials that combine performance, longevity and design versatility alongside a preference for locally manufactured solutions. He added that platforms like INDEXPLUS enabled meaningful exchange of ideas and offered valuable insight into evolving market needs.

The exhibition also gave E3 Group the opportunity to engage with architects, interior designers, furniture manufacturers, dealers and distributors, opening avenues for collaboration across the value chain.

Founded in 1990 by Chairman and Managing Director Sanjay Garg, E3 Group offers a diverse portfolio including E3 HDMR MDF Boards, Edgebands, HPL & ACP Sheets, Plywood, Hardware, Pet Acoustic Panels, Exterior & Interior Clad Panels, and Sports Grass, serving customers through a network of over 6,000 dealers, distributors and retailers nationwide.

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Income of Shadow Agriculturists Deepens Distress of Agroforestry and Agriculture Farmers



T D Khurana



R C Dhiman

Introduction

T D Khurana, Proprietor, Khurana Tax Associates, (Ex-Unit Finance Head, Wimco Seedlings-ITC PSPD,);

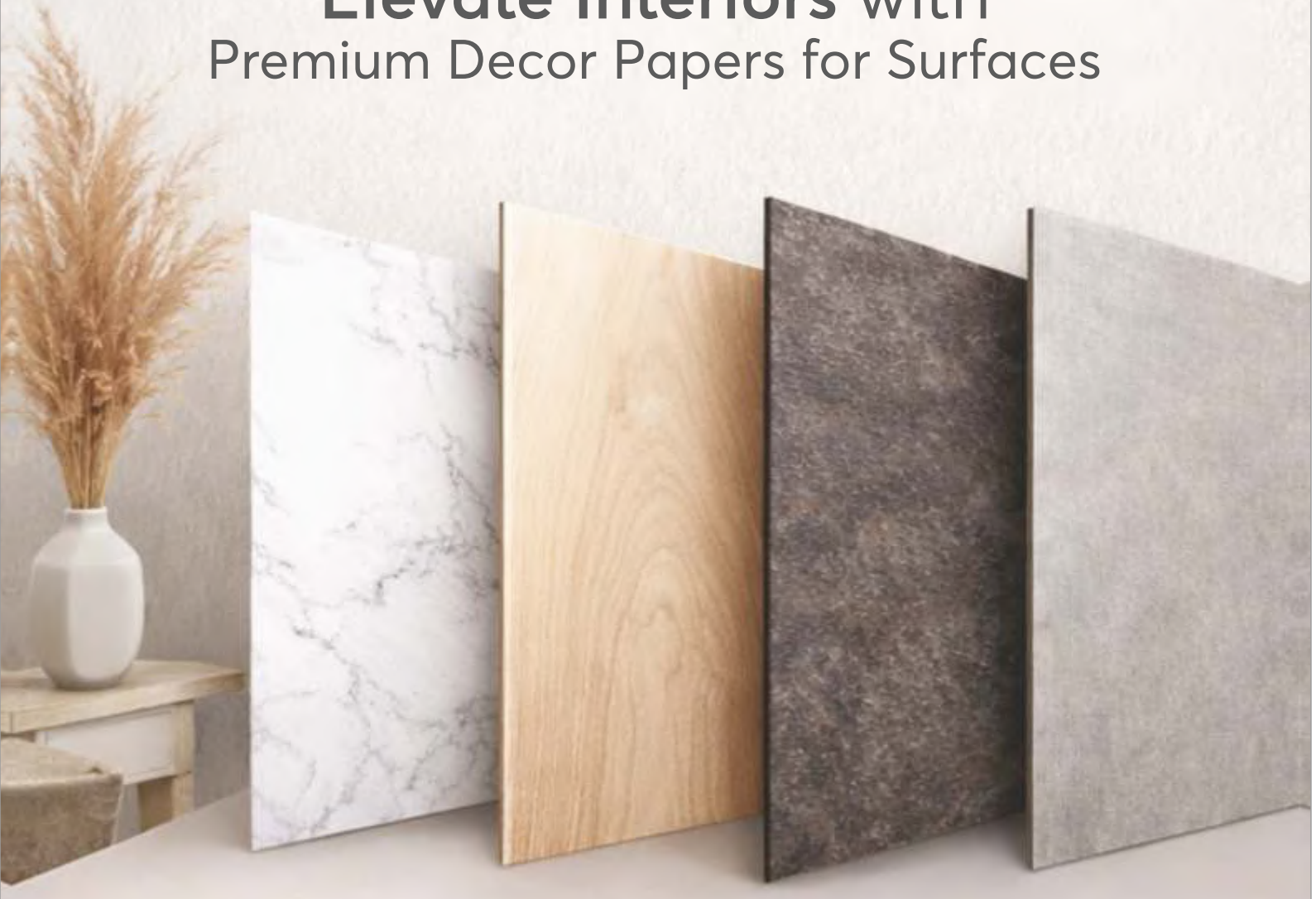
R C Dhiman, Advisor-Sustainable Agroforestry Initiatives, Greenlam Industries Ltd. (Ex-Unit Head, Wimco Seedlings ITC-PSPD Rudrapur, Uttarakhand

Land and its related assets and activities are one of the attractions for economically well off persons who have been increasingly investing their surplus money in land, real estate, resorts, and farms with an intention to multiply invested money. These new assets are often created with shadow & inflated valuations in purchase and sale to cover up unaccounted money. Among farming assets, agroforestry grown plantations have gradually evolved as a potential sector for managing and manipulating unaccounted money. Agroforestry and agriculture income earned by a taxpayer is exempted under Section 10(1) read with section 2(1A) of the Income Tax Act, 1961 (ITA), without any monetary limits. The exemption of agricultural income from Income tax, was originally intended in the constitution to protect the subsistence farmers and promote agrarian growth. However, the provision has increasingly become a conduit for tax evasions and avoidance. Income Tax Department (ITD) is now closely securitising heavy claims of agriculture income including that from agroforestry not in consonance with recent history of claims of similar nature. This paper

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investigates the paradoxical dynamics of legal provisions meant to relieve agrarian distress which have been repeatedly misused as witnessed in the recent tax assessment trends, legal precedents, and field-level agrarian realities.

While Section 2(1A) of the ITA broadly refers three distinct categories of agriculture income but it does not include the definition of term “agriculture”. The Hon'ble Supreme Court of India, in the matter of Raja Benoy Kumar Sahas Roy v/s Commissioner of Income Tax (CIT 1957) which is a leading case on agriculture, ruled that for any activity to qualify as "agriculture," there must be some basic operations such as tilling of land, sowing of seeds, planting with similar human intervention performed on the land itself. The Telangana High Court (in A.G. Biotech Laboratories vs. PCIT) and various Income Tax Appellate Tribunals have ruled that tissue-cultured plants are also treated as agriculture activities. The explanation (3) in the section 2 of the ITA, inserted by the Finance Act, 2008, effective from 1st April, 2009 confirms that the nursery income is also agriculture income.

According to the agriculture defined by the various courts, the term "agriculture" is not limited to food grains or vegetables; it extends to any product of the land including agroforestry tree-based production systems of plantations and associated nurseries. In contrast, income generated from sale of agricultural produce for which basic operations for growing such produce is not done by the assessee, will not qualify for agriculture income. For instance, if a farmer purchases standing trees of another farmer and sells these trees in the same form or as wood by harvesting these trees, the income generated from this activity will not fall under the gambit of agricultural income. Similarly, Income derived from trees of spontaneous growth will also not be considered agricultural income.

The distinct categories of agriculture income referred in section 2(1A) are (i) rent or revenue derived from land situated in India, (ii) Income from growing and selling crops including grain, trees, nursery, fruits and vegetables, and (iii) Earning from farm building near agricultural land that is occupied by the cultivator and used solely for agricultural operations. The term “derived from land” used in the provision provides an essential test to examine that rent and revenue have immediate and direct nexus with the land. For instance, if a landowner imposes 'interest' for late payment of rent, the 'interest' cannot form part of the agricultural income as it has no direct nexus with land. Similarly, rent received against renting nursery plants for office beautification purpose cannot form part of agriculture as such rent received also has no direct nexus with land. The term “land situated in India”, denotes that rent or revenue derived from land situated outside the geographical boundaries of the country cannot be claimed as agriculture income. The phrase “used for agricultural purposes” makes it mandatory that the land is used for agriculture purpose. For instance, the farmer, who gives his agricultural land on lease for growing of plantations or nurseries, rent received will be

considered agricultural income but if the agricultural land has been given on lease for parking plaza or other commercial purpose, rent received will not be considered agriculture income.

There are two categories of agricultural land i.e. rural and urban under the income tax law. The rural agricultural land is the agricultural land situated in the area which is outside the jurisdiction of the municipality or cantonment board having population less than 10,000 and If the population of the municipality or a cantonment board is 10,000 or more, then situated outside the distance mentioned in column B with reference to population mentioned in column C of the below table.

Serial No	Shortest aerial distance from the local limits of a municipality or cantonment board	Population as per the last preceding census
A	B	C
1	Outside the distance more than 2 kms	More than 10,000 but less than 1,00,000.
2	Outside the distance more than 6 kms	More than 1,00,000 but less than 10,00,000.
3	Outside the distance more than 8 kms	Population exceeding 10,00,000

Gain on sale of rural agricultural land will not fall under the gambit of capital gain and is exempted from income tax as it is not considered capital asset. Whereas gain on sale of urban agricultural land is taxable under income tax law subject to certain deduction and exemptions.

Reportedly, there have been many cases in the past where prominent people with political links claimed fake agricultural income to legitimise black money. However, the Government of India and the ITD have never officially made public the specific names of individual political leaders who claimed fake agricultural income to evade taxes. During the year 2016, the than Finance Minister announced in the Rajya Sabha that many prominent people with political links were under investigation for concealing taxable income as agricultural earnings. He however, refused to share details, (https://economictimes.indiatimes.com/news/politics-and-nation/prominent-people-concealing-taxable-income-as-agricultural-earning-government/). As per third Tax Administration Reform Commission Report (2014), agricultural income of non-agriculturists is being increasingly used as a conduit to avoid tax and for laundering funds. Further, the Audit Report No. 9 of 2019 of Comptroller and Auditor General (C&AG) on Assessment of Agricultural income highlighted certain inconsistencies and errors in the assessment of agricultural income.

Consequent to the above reports, the Central Board of Direct Taxes (CBDT) issued a circular (F. No. 173/49/2022-ITA-I) dated October 29th, 2025 and advised Assessing Officers to independently verify the documentary evidences before allowing exemption with regard to agriculture income. The assessing officers are also advised to

verify the correct characterisation of income derived from land claimed to be agricultural land.

According to Times of India dated 22nd May 2026, the Income Tax authorities have uncovered a major scam involving fake agricultural income claims related to over 300 individuals who claimed fake agricultural income of Rs 2,038 Crore. In these cases the exempt income claimed by individuals varied between Rs 50 Lakh and Rs 400 Crore, but their size of land holdings was zero. This data is based on tax returns filed for financial year 2020-21 to 2022-23. These claims were used to evade taxes and legitimise black money. In several cases, capital gains arising from land sales were reportedly passed off as agricultural income to avoid taxation. Officials found instances where land sold to real estate developers was falsely projected as farm-related earnings. This was allegedly done not only to evade taxes but also to legitimise unaccounted or black money. The tax authorities used high-resolution satellite mapping and ISRO crop tracking data to prove that lands declared as highly productive fields were actually barren plots or vacant factory sites and successfully denied the exemptions of agriculture income. During the course of further probing, Income Tax Authorities found cases where there was no documentary evidence to establish any farming activity and in some instances, the income declared was disproportionately high compared to the size of land holdings (http://timesofindia.indiatimes.com/articleshow/131251812.cms?utm_source=contentofinterest&utm_medium=text&utm_campaign=cppst).

Due to these developments, ITD is now more vigilant in granting exemption on account of agricultural income and is asking number of documents and evidences related to agricultural income from genuine farmers also. The farmers who are not able to submit evidences of agriculture income during the course of assessment proceedings are facing tax demands and are bound to spend money on litigation. On the other side, the farmers, who are able to submit the necessary evidences, are successfully getting assessment orders in their favour. For instance, a progressing farmer of northwest India poplar growing region, cultivating 37 acres land including land in the name of his two sons who are residing abroad filed his ITR for the financial year 2023-24 supported by the necessary evidences (This case study was reported by the authors in Indian Wood & Allied panels in 2026 (20(1):68-72). The farmer had harvested large number of Poplar and Eucalyptus trees and his agricultural income was near one Crore. He was asked by assessing office (AO) to submit around 3 dozen complimentary and supplementary documents and quarries to substantiate the claimed agriculture income. This assessee farmer has had well maintained relevant documentary proofs under the guidance of his counsel (author of this article) and did not face any problem in getting favorable assessment order.

In contrast, another farmer claiming agriculture income of Rs. 48.45 Lakh from sale of poplar wood during 2020-21 could not

submit the necessary evidences to prove that the transactions of money received were related to the sale of wood produced by harvesting trees grown by him. In this case, the AO denied exemption on the ground that the assessee farmer did not submit undertaking or lease agreement entered with his son and wife for cultivating their land, the detail of trees and wood sold, evidences with regard to genuineness of buyers, invoices for expenses incurred for farming activity and discrepancies in evidences submitted to substantiate wood sale. The AO alleged that entire income of Rs 48.45 Lakh is income from undisclosed sources under section 68 and is taxable @ 60% as per provisions of section 115BBE of the ITD. Accordingly, this farmer was served with a demand notice for Rs. 51 Lakh including interest for late payment of tax. This case study was reported by the authors in Ply Gazette in May issue of 2026 (pp.59-69).

The authors, based on decades of experience in the field of managing agroforestry business and handling associated income tax cases, have compiled essential evidences and records required to substantiate claim for tax-exempt agricultural income which may serve as a comprehensive information resource for readers. Every farmer and nursery grower must have three types of evidences (i) Proof of agricultural land and its possession and official cultivation records, (ii) Evidences of cultivation of land; (iii) Sale proceeds related evidences, and genuineness of buyers.

(I) Proof of agricultural land and its possession

- Khasra and Khatauni are the primary documents to prove the ownership of agricultural land and area wise crop grown. While Khasra is the record of ownership, area and crop grown and is issued by the Patwari/Lekhpal, the Khatauni is record of continuity of ownership, inheritance patterns and land mortgage records which can be downloaded from the website of the respective state. In case, the farmer is cultivating land which is in the name of his relative, undertaking or affidavit of the relative is also required in addition to Khasra and Khatauni.
- If the land is taken on lease, the lease agreement should be entered with the landlord and proof of rent payment should be obtained. It is also advisable to pay rent through banking channels. Tax deduction is not required for land rent payment upto Rs 6 Lakh per annum to a single person from the financial year 2025-26.

(ii) Evidences of cultivation of land

- Khasra of the land should have genuine record of crop like Wheat, Paddy, Nursery, Poplar and Eucalyptus trees and it should be obtained from the revenue department, every year. Many Poplar Nursery growers take land on lease but invariably fail to get

entry of nursery recorded in Khasra from Lekhpal. This may create trouble in assessment of agriculture income. The farmer, who gives his agricultural land on lease for agricultural purposes including growing of plantations or nurseries, will also need Khasra with crop records besides Khatauni to substantiate that the leased land is being used for agricultural purpose and the rent received by him is the genuine agricultural income.

- Proper bills/invoices of expenses like fertiliser, pesticides, insecticides, HSD, electricity, plants and seed should be obtained and payment (especially Rs 10,000 and above) should be made preferably through banking channels.
- Bank statement including Kissan credit card should also be kept in record.
- In addition, the nursery should maintain memorandum record of all financial transactions.

(iii) Sale proceeds related evidences and genuineness of buyer

- In case of wood sale, farmer's copy of Mandi Receipt (6R) reconciled with amount received against sale of wood should be obtained from the buyer.
- For sale of wood and other agricultural produce both, account statement or agreement or any other document confirming purchase with address and PAN/GST number of the buyer are the basic evidences to prove the genuineness of buyer and agricultural sale.
- Agricultural produce/nursery sale proceeds should be received preferably through banking channels. As per Section 269ST of ITA, one cannot receive cash of Rs. 2 Lakh or more from a single person in a day, in a single transaction, or for a single event/occasion. Violating this limit may attract a 100% penalty

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on the amount received. Hence, it is better to make a habit to receive payments through banking channels against high value sales. Farmers and nursery growers should not receive cash exceeding Rs 1,99,999 Lakh from a single person in a single day or issue any bill exceeding Rs. 199,999 against part or full cash payment to a single person in a single day.

- In case of nursery, bill of supply with complete address and signature of the buyer should be issued and sale register with complete address of the buyers should be maintained. The person registered under GST and supplying exempt goods or services is mandatory required to issue bill of supply with unique serial number but unregistered person is legally not bound to follow GST rules. As the nursery plants are normally sold to the farmers and it is not possible to obtain Mandi Receipt (6R) or any other document confirming purchase from the buyer, unregistered nursery may issue bill of supply or sales bill with unique serial number with complete address and signature of the buyer which may work as evidence of the genuineness of buyer and plants sale. If plants are sold to a trader, company or firm and agreement is executed, copy of the same should also be kept in record.

The ITD is also watching the large financial transactions as due to evolving digitalisation, every financial transaction is visible, now. The ITD has developed digital platforms for capturing and storing heavy transactions including on both income and investment or property purchase by any individual. The ITD tracks investment and property purchases to ensure the investment is proportional to individual's declared income. In case someone has purchased high value property or has done some other investment which is proportionally higher to the declared income, he should be prepared to

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explain the source of funds used for the purchase/investment. In case, purchase value is over Rs 30 Lakh, the information of property purchase reaches the ITD through the Sub-Registrar's Statement of Financial Transactions (SFT). If the purchase value is Rs 50 Lakh or more, TDS @ 1% is deducted under Section 194-IA of the ITA and the ITD gets the information automatically. In case, purchase value of the property is higher in proportionate to person's declared income the data driven system of ITD automatically sends notices to explain the source of funds paid to the seller. While shadow agriculturists have over exploited the existing provisions of tax-free agriculture income, actual farmers are growing high value crops including agroforestry plantations, associated nurseries and other similar crops are unnecessarily getting exposed to strict scrutiny of their agriculture income,

The two instances of income tax cases related to FY 2023-24 and 2019-20 are in contrast to each other but indicate that middle and higher group agricultural income claim is no longer accepted at face value by the ITD, It requires robust records, evidences and transparent financial transactions. Unfortunately, uninformed farmers and nursery growers, by operating outside the banking network, inadvertently forfeit the legal benefits of holding verified, tax-exempt capital and expose themselves to litigation. In the evolving digitalised era, farmers and nursery growers also need to change themselves and legally protect their tax-free incomes and effectively mitigate the risk of disallowances and severe penalties by maintaining necessary records and evidences, transitioning from traditional, cash-dominant informal practices to disciplined and banking channel financial transactions.

The evidences and records required substantiating agricultural income are suggested by the authors to assist farmers and nursery growers which may be treated as a baseline framework; the ITD reserves the right to seek additional disclosures based on specific cases and inferences drawn by the AO during active assessment proceedings.



Amulya Mica

Unveils SAKET 1mm Premium Laminate Collection at Delhi Launch

Amulya Mica has launched its latest laminate collection, the SAKET 1mm Premium catalogue, titled "One & Only - When One Is All You Need," at an event held at The Leela Ambience Convention Hotel in Delhi on 11th August, 2026.



The new catalogue expands the company's design portfolio with 383 pieces across 43 finishes, spanning 7 new textures and 23 décor papers. The collection ranges from nature-inspired stone and reimagined wood grain textures to bold abstract patterns and soft pastel tones, aimed at giving designers and homeowners a wider palette for projects of varying scale and style.

A standout addition is the introduction of Synchro Textures to the SAKET line for the first time, five textures paired with 11 décor papers using Colour Registered Emboss (CRE) technology, which aligns visual pattern with tactile surface for a more authentic finish. The catalogue also features five limited-edition prints, including Mareb Oak, Fortress Oak, Antrim Oak, Toscano Stone and Rough Oak, designed for spaces seeking a distinctive character.

To support the retail and design experience, Amulya Mica has integrated technology into the collection's presentation: a QR-code-enabled 360-degree visualisation tool lets users explore laminate surfaces virtually, while the company's Click & Look web application offers an online browsing experience for customers, architects, contractors and homeowners alike.

Speaking to the collection's positioning, the brand emphasised its continued focus on merging innovation, aesthetics and durability, reinforcing the idea that "every surface is a statement."

With this launch, Amulya Mica reaffirms its position in the premium laminate space, offering a design vocabulary intended to help India's evolving interior and architecture landscape find surfaces that are, as the campaign name suggests, singular and sufficient in themselves.

Argentine Wood

Prices Hit a One-Year High but Continue to Lose Ground

Argentina's wood-products sector is facing a widening gap between price growth and the broader wholesale economy.

Producer prices for wood products rose 0.9 per cent in July, taking the annual increase to 20.7 per cent, according to the National Institute of Statistics and Censuses (INDEC). The increase remained below the 31.1 per cent rise in the general wholesale price index.

The figures underline the sector's loss of purchasing power. Wood prices increased 9.9 percent during the first seven months of 2026, compared with 16.6 per cent for the wholesale index. In real terms, Wood Central calculations put the annual decline at 7.9 percent and the year-to-date decline at 5.7 per cent.

Industry representatives say the pressure is becoming difficult to absorb. FAIMA, Argentina's federation representing the wood and furniture industries, has warned that rising labour and energy costs, expensive financing and weakening domestic demand are eroding competitiveness. It estimates that industrial wages are significantly higher than in Brazil and China, while energy tariffs have surged sharply.

Employment has also suffered. FAIMA reports an 8.57 per cent year-on-year decline in registered employment within the wood industry, with particularly heavy losses in panels, veneers, joinery, prefabricated timber housing and turneries.

Yet export markets offer a contrasting picture. During the first half of 2026, sawn pine shipments rose 34.58 per cent, mouldings 16.65 percent and plywood 93.59 per cent, supported by demand from Mexico and the United States.

Meanwhile, investment is continuing, including a timber plant being developed in Corrientes by HS Timber Group and Forestcape. The contradiction is stark: Argentina is adding productive capacity and winning overseas orders even as domestic manufacturers struggle with costs, financing and shrinking employment.

For the sector, July's price rise is therefore less a sign of recovery than a pause in a prolonged squeeze.

Parkwood Chicago

Celebrates 70 Years with New Ownership and Growth Strategy

Architectural materials supplier Parkwood Chicago is marking its 70th anniversary, with new ownership under Chemetal, expanded sales leadership, and fresh investments in digital infrastructure to strengthen its presence in the commercial design and architectural surfaces market.

Founded in 1956, Parkwood Chicago has built a reputation as a trusted supplier of architectural materials and interior surface solutions across Illinois, Wisconsin, Indiana, and neighbouring Midwest states. The company serves architects, interior designers, fabricators, and manufacturers in commercial, hospitality, healthcare, education, and workplace projects.

A major milestone in the company's anniversary year is its acquisition by Chemetal, the Massachusetts-based manufacturer and distributor of decorative metal laminates and architectural metal designs. The acquisition follows a partnership spanning more than 25 years and is expected to strengthen Parkwood Chicago's role as a key Midwest sales channel for Chemetal's expanding portfolio of surface materials.

Alongside the ownership transition, Parkwood Chicago's new sales experts bring extensive experience in architectural materials. They are expected to enhance the company's engagement with architects, designers, and manufacturing partners throughout the region.

The company has launched a redesigned website showcasing its portfolio of leading architectural surface brands, including Chemetal, Kerfkore, Treefrog Veneer, Lab Design Laminates, ALPI/Brookside, InteriorArts, Parklex Prodema, and Felt Right Acoustical, as well. Parkwood has also invested in new software systems and internal processes aimed at improving customer service, operational efficiency, and product accessibility.

According to sources, Chemetal's top management say Parkwood Chicago's experienced team and strong customer relationships make it an important part of Chemetal's long-term growth strategy. They note that the company's commitment to quality service and fair pricing will continue under its new ownership.

The developments reflect growing investment in specification-driven architectural materials as demand rises for decorative metals, veneers, laminates, acoustical panels, and specialty interior finishes. With seven decades of industry experience and a renewed focus on technology and customer support, Parkwood Chicago is positioning itself for continued growth in the evolving architectural surfaces market.

Testing and Evaluation of Properties of Plywood

M Venugopal Naidu

*The article reproduced below is Chapter 40 – "**Testing and Evaluation of Properties of Plywood**" from the book entitled **Plywood Manufacturing Practices in India - 2nd Edition.** The book has been compiled and edited by Dr. S.K. Nath, Joint Director (now Retd.), Indian Plywood Industries Research and Training Institute (IPIRTI), Bengaluru (Karnataka). The book covers the entire production line of plywood manufacture suitable for small and medium scale industry under the Indian conditions.*

In general testing of material facilitates the use, of right material for the right purpose. It is also required to build consumer's confidence on the material and to make sure that the product conforms to the specification.

Testing of composites has to be carried out for quality control in day to day production, routine verification of the conformation of the product to relevant specification and establishing the properties of the product. The number of test specimens, design and nature of tests will depend upon the purpose for which the tests are being carried out.

Thus, for quality control during plywood production, it is necessary to test the surface characteristics of the veneers, the components of the adhesive mixtures, the viscosity and other properties of the adhesive, pressing conditions, etc. For routine verification of the conformation of the product to relevant standard, the tests to be carried out and the procedure to be followed are given in the relevant standard specifications.

For establishing the properties of either a new product or a modified product, tests have to be planned as follows. The minimum number of test specimens required for each test has to be fixed. The procedure for choosing and preparing the specimens from the panels are verification of the accuracy in dimensions and numbering the test specimens, determining the properties of the test specimen chosen and statistical analysis of the data for obtaining the minimum standard value.

For routine inspection and testing of the quality of plywood, Indian Standard Specifications give sampling techniques and the number of panels to be chosen from a given lot. But, for testing of a new or modified product, the number of panels to be chosen depends entirely on the number of test specimens required to be tested for a given

confidence level. Further, the quantity of plywood needed will also depend on the variation in the property being determined and the accuracy level fixed for the tests.

For arriving at the minimum number of specimens required to be tested for attaining one hundred percent probability and a given accuracy, the following formula applies.

$$n = \frac{10V^2}{P^2} + 5 \quad \text{.....[1]}$$

where n is the minimum number of test specimens, viz. the coefficient of variation (V) for the property being determined and p is the percentage error involved in the determination.

However, for wood and composites from wood and other natural fibres including bamboo, such high probability of properties [i.e. 100%] is not required. Moreover, economy in time and the material dictates that an optimum probability be chosen. From experience, it has been found that a probability of 68.3 per cent (i.e., one sigma level) is good enough for obtaining representative values for all the properties of wood and wood composites. Then, the following simplified formula holds good for obtaining the minimum number of specimens to be tested.

$$n = \frac{V^2}{p^2} \quad \text{.....[2]}$$

For probabilities greater than 68.3 per cent and less than 100 per cent, the following formula should be used.

$$n = \frac{V^2t^2}{p^2} \quad \text{.....[3]}$$

where t is the standard normal variate, which is a quantity representative of the confidence level. The value of t for 68.3 per cent probability is 1. Hence, for this probability level [i.e. 68.3] formula [3] reduces to formula [2]. Other values of t can be obtained from standard statistical tables.

Let us consider the quantities involved in formula [2] in greater detail.

Variation Co-efficient

If we conduct 'n' number of tests to determine a property, then the average value of the property can be calculated by the formula

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$$M = \frac{\Sigma W}{n} \quad \text{.....[4]}$$

Where M is the average value or the arithmetic mean, ΣW is the sum of all the values recorded for the property.

However, the average value of the property alone is not representative of the true value of the property, especially for wood and wood based products where there is a large variation in the properties. The quantitative estimate of the oscillation of the values of the property about the arithmetic mean is given by the standard deviation , which can be calculated as a percentage, i.e.

$$\sigma = \pm \sqrt{\frac{(\Sigma[xi - M]^2)}{(n-1)}} \quad \text{.....[5]}$$

where, xi is the individual value of the property being tested for. The ratio of the standard deviation to the arithmetic mean is known as the variation coefficient V, and it is usually expressed as a percentage, i.e.

$$V\% = \frac{\sigma}{M} 100 \quad \text{.....[6]}$$

This quantity is determined for a given property after conducting a large number of initial experiments.

Table 1 gives the variation co-efficient for a few important properties of plywood.

Percentage Error [Precision]

The average error m, involved in the determination of the arithmetic mean can be calculated from the formula

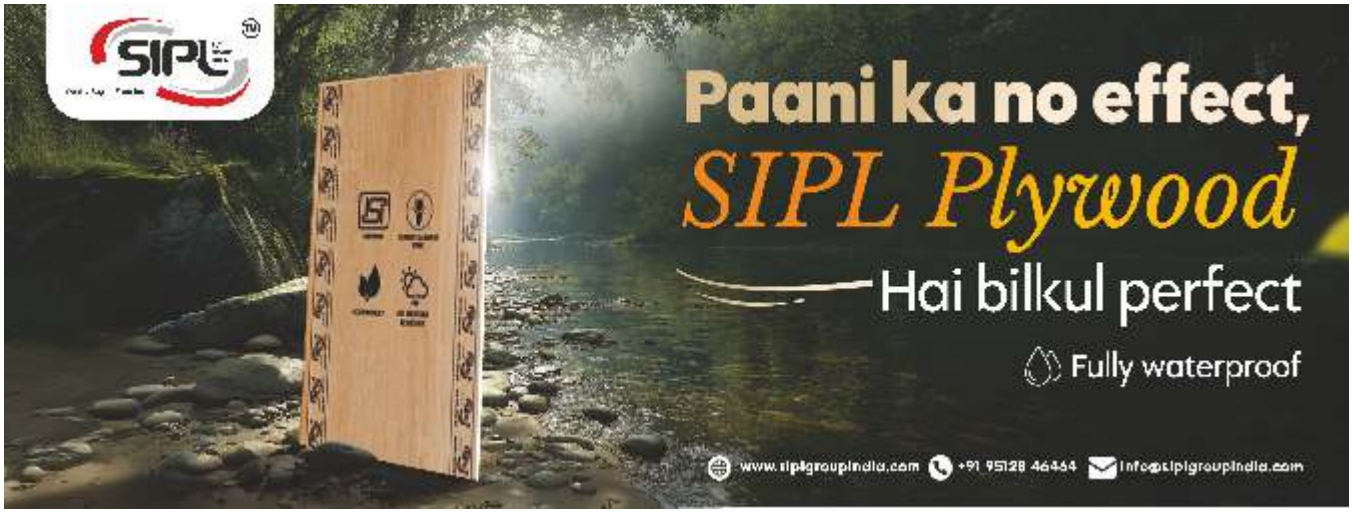
$$m = \pm \frac{\sigma}{\sqrt{n}} \quad \text{.....[7]}$$

This quantity gives an idea of the error involved in testing only a limited number of samples for arriving at the average value of a given property. The ratio of the average error to the arithmetic mean serves as an index of accuracy in the determination of a given property with limited number of samples and is usually expressed as a percentage.

$$P\% = \frac{m}{M} 100 \quad \text{.....[8]}$$

Where, P is the percentage error.

Thus, knowing m and M, p could be calculated. However, while testing wood, plywood and other wood based materials, the



maximum allowable percentage error is 5 per cent.

Table 1: Variation coefficients for some important physical-mechanical properties of plywood

Sl. No.,	Physical / Mechanical Property	Variation coefficient, %
1	Specific gravity	13
2	Tensile strength along the grain	15
3	Compressive strength along the rain	13
4	Static bending strength	15
5	Nail holding power	17
6	Impact bending	20
7	Modulus of elasticity in tension, compression and bending	15
8	Poisson's ratio	13
9	Cleavage resistance	16
10	Static hardness	17
11	Glue shear strength	21

Dimensions of Plywood Panel

The dimensions of the panel have to be measured is given below:

- Length
- Width
- Thickness
- Squareness
- Edge straightness
- Flatness
- Planeness

Length and width shall be measured of each panel along two lines parallel to and at a distance 100 mm from the edges to an accuracy of 1 mm. Thickness measurements shall be taken 25 mm or 50 mm away from the edges at points located in each corner and in the middle of each side i.e. at eight points in all to accuracy of 0.01 mm. Squareness shall be measured using mechanical square having two arms each of having length 1000 ±1mm.

Place one side arm of the square against one side of the panel as shown in figure. At a distance of 1000 mm ±1mm from the corner of the panel, measure the deviation between panel edge and the side of the other arm of the square by means of one of the measuring devices [feeler gauges or dial digital calipers]. Follow the same procedure for each of the other corners.

Edge straightness shall be measured using metal straight edge having length of at least equal to the length of the panel or wire of constant cross section and flexible enough to be stretched to ensure linearity.

Place the straight edge against a panel

edge or locate the wire and stretch it. Measure the largest deviation between the straight edge [or wire] and the edge of the panel using one of the measuring devices. Follow the same procedure for each of the other edges.

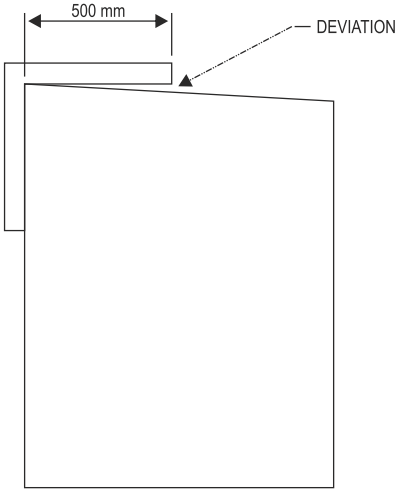


Fig. 40.1 Determination of Squareness

Expressing the Results

For each panel test, the arithmetic mean for the measurements shall be calculated and expressed to the nearest 0.01 mm for thickness, 1 mm for length and width. Squareness and edge straightness is expressed in mm per meter.

Preparation of Test Specimens

Test specimens for the determination of various properties of plywood should be chosen from panels conditioned after production. A scheme for choosing test specimens from plywood panels is given in Fig. 40.2 The edges of the test specimens should be smooth and their surfaces at right angles to the upper and lower surfaces of specimen. All the test specimens prepared for testing should be conditioned to an atmosphere maintained at a temperature of 27 ± 2^{0}C and at a relative humidity of 65 ± 5 per cent until they are substantially constant in mass. All the test specimens should be rectangular with smooth edges and uniform thickness. Dimensions of test specimens are measured along the sides at two points with a minimum accuracy of 0.1 mm. The thickness of the specimens is measured at least at four points with a minimum accuracy 0.01 mm. If the weight of the specimens is required, specimens should be weighed with an accuracy of 0.01g. The right angled corners should be verified with a square. Each and every specimen should be code numbered for identification.

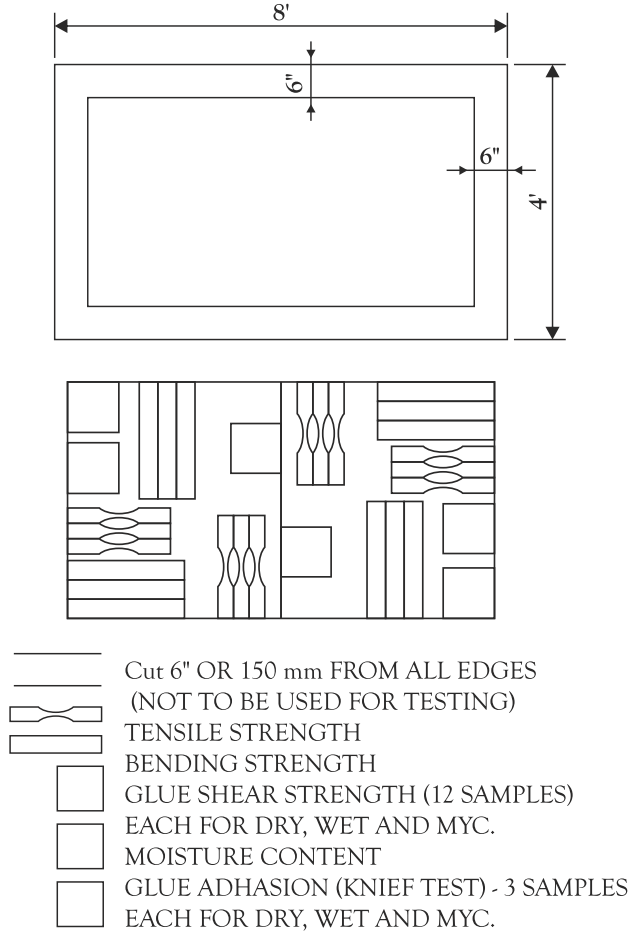


Fig. 40.2 Scheme of choosing test specimens from plywood

Determination of Bond Quality of Plywood

The integrity of plywood as a panel depends mainly on the tenacity with which constituent plies of the panel are held together by the adhesive. The bond quality or bond strength of plywood could be evaluated by qualitative as well as quantitative tests. The tensile glue shear strength test was originally developed for testing adhesive bond quality and the same was adopted for testing the conformity of plywood manufactured in the various standard specifications for different grades and types of plywood. 3 ply plywood test specimen with notching is shown in Fig. 40.3

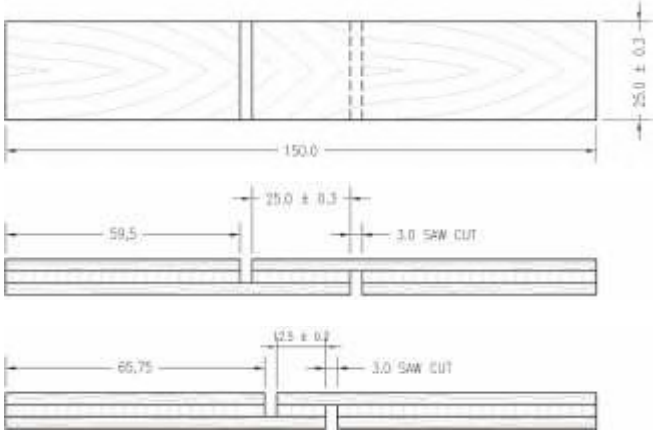


Fig. 40.3 Tensile Glue Shear Test Specimen for 3 ply with 25 mm and 12.5 mm shear length (all dimensions are in mm)

For determining the quality of the adhesive bonding between the veneers of multiply plywood, the stripping method has many disadvantages and to avoid this drawback, a different method of notching the specimens as shown in Fig. 40.4 is suggested.

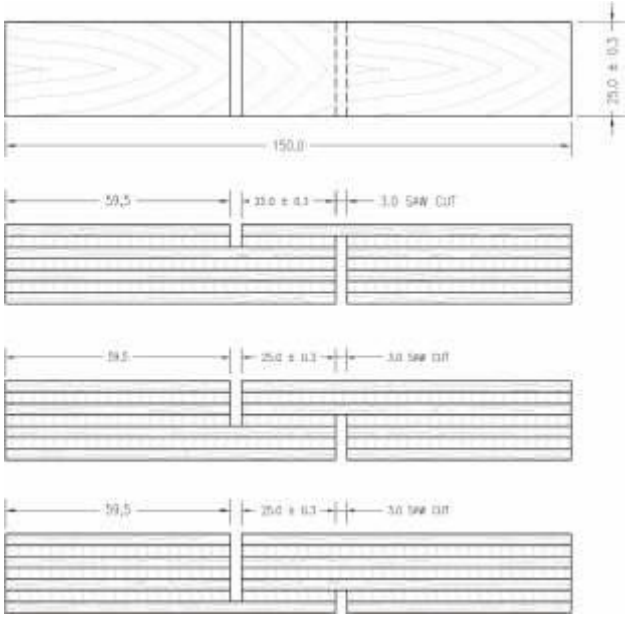


Fig. 40.4 Tensile Glue Shear Test Specimen for 7 ply according to American method (all dimensions are in mm)

Qualitative Tests

Cyclic Tests

This test is suggested for general purpose plywood. Specimens of size 150mm x 150mm were subjected to cyclic tests of

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boiling and drying. This is an endurance test consisting of three cycles wherein each cycle constitutes 8 hours boiling and 16 hours drying at 65 ± 2°C. At the end of 3 cycles, specimens were examined for delamination by forcible separation by using the knife specified in IS:1734 [Part 5] – 1983.

Knife Test

This test is carried out as per IS: 1734 [Part 5] – 1983.

Quantitative Tests

Tensile Glue Shear Strength

This test is suggested for higher grades of plywood i.e. speciality grades like marine, shuttering and structural.

Statistical Design of Tests

All the tests were statistically designed for a probability of 68.3% [one sigma level] and an experimental precision of 5%. The minimum number of test specimens was determined from the co-efficient of variation earlier established for various tests. A check back should also be carried out to confirm the validity of these co-efficient of variation.

Physical Properties

1. Determination of Moisture Content

Take 3 specimens of size 150 mm x 75 mm from each of the plywood sample for which moisture content has to be determined. Using an electronic single pan balance determines the weight of the specimen to the accuracy of 0.001g and denotes as W1. Keep the specimen in a thermostatic air ventilated oven at a temperature of 103 ± 2°C for drying. Note down the weight of the specimen at regular intervals. The drying is considered is complete when the difference between last two weights does not exceed 0.002g. Denote the oven dry weight as W0 in gms. Calculate the moisture content by using the formula.

$$M.C.\ \% = \frac{W_1 - W_0}{W_0} \times 100 \quad \text{.....[9]}$$

Repeat the above procedure for the other two specimens of the plywood sample. Find the average of all the three specimens and this value is the moisture content of the sample.

2. Determination of Density

Take 3 specimens of size 150 mm x 75 mm from each of the plywood samples for which density has to be determined. Condition the specimens to constant weight by keeping them under conditions at 27 ± 2°C and 65 ± 5% relative humidity. After conditioning, using the digital slide calipers measure the length, width and thickness to an accuracy of 0.01 mm at a minimum of three positions in the dimension and note down the average length, width and thickness as l cm, b cm and t cm respectively.

Place the specimen in an air ventilated thermostatic oven [forced air circulation to maintain uniform temperature] at a temperature of 103 ± 2°C for drying. Note down the weight of the specimen at regular intervals. The drying is considered complete when the difference between last two weights does not exceed 0.02g. Denote the oven dry weight as WO. Calculate the Density by using the formula.

$$\text{Density}\ [g/cm^3]\ \% = \frac{W_0}{L \times b \times t} \quad \text{.....[10]}$$

Where W_0 is the oven dry weight in g, l is length in cm, b is the width in cm and t is the

thickness in cm.

Repeat the above procedure for the other two specimens of the sample. Find the average of all the three specimens and this value is the density of the sample. In case the density has to be expressed as kg/m^3, multiply the value by 1000.

Mechanical Properties

Determination of Tensile Strength

[a] Parallel to Face Grain

Take 3 specimens of size and shape [depends on the thickness] as shown in the Fig. 40.5 from each sample. The test specimens shall be properly shaped, using a template in conjunction with a vertical-spindle wood working shaper or in a vertical band saw machine. Condition the specimens in a conditioning, chamber to constant weight by keeping them under conditions at 27 ± 2^{0}C and 65 ± 5% relative humidity. After conditioning using digital slide calipers, measure the width and thickness to an accuracy of 0.01 mm at a minimum of three positions at the central portion of the specimens and note down the average width and thickness is 'b' and 't' respectively.

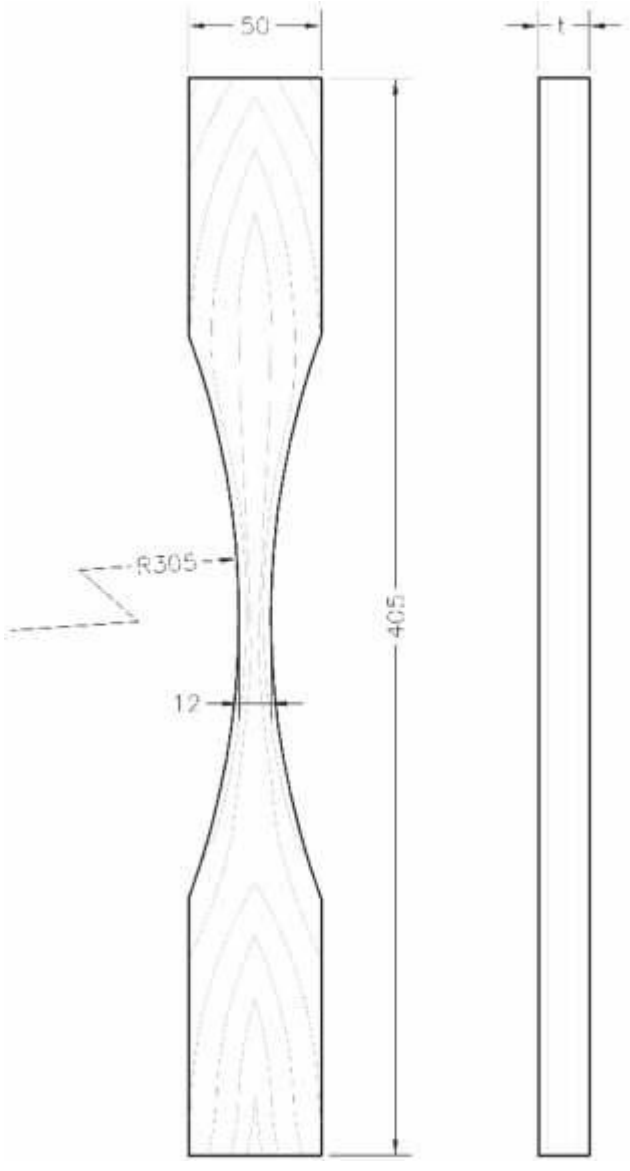


Fig. 40.5 Shape and Dimensions of Tensile Strength Test Specimen

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Tensile test is carried out on a universal testing machine with suitable grips preferably wedge type self tightening and self aligning grips. Fix the specimen in the grips firmly so that there won't be any slip during the test. Apply the load continuously at a constant rate of cross head movement of 1 mm per minute till failure. Note down the failing load.

Tensile strength is calculated by using the formula below:

$$\text{Tensile strength, } N/mm^2 = \frac{P}{bt} \quad \text{.....[11]}$$

where P is the failing load in Newtons, b and t are the width and thickness respectively measured at the centre of the specimen in mm. Repeat the above procedure for the other two specimens of the sample. Find the average of all the three specimens and this value is the tensile strength parallel to grain of the sample.

[b] Perpendicular to the Face Grain

Take 3 specimens of size and shape as shown in the figure from each sample. Repeat the procedure as described in parallel to the face grain. Find the average of all the three specimens and this value is the tensile strength perpendicular to face grain of the sample.

Determination of Compressive Strength

[a] Parallel to Face Grain

Take three specimens of size 100 mm in length and 35 mm in width and the thickness equal to that of the material. Condition the specimens in a conditioning chamber to a constant weight by keeping them under conditions at 27 ± 2^0C and $65 \pm 5\%$ relative humidity. After conditioning, using digital slide calipers measure the width and thickness to an accuracy of 0.01 mm at a minimum of three positions in the dimension and note down the average width and thickness as 'b' and 't' respectively.

Compression test is carried out in a universal testing machine. Place the specimen on the compression table in such a way that the loading head is vertically above the centre of the cross section of the specimen. Apply load continuously at a constant rate of cross head movement of 0.5 mm per minute irrespective of specimen size, till failure and note down the failing load. Compressive strength is calculated by using the formula

$$\text{Compressive strength, } N/mm^2 = \frac{P}{bt} \quad \text{.....[11]}$$

where, P is the failing load in Newtons, b and t are width and thickness of the specimen in mm respectively.

Repeat the above procedure for the other two specimens of the sample. Find the average of all the three specimens and this value is the compress strength along the grain of the sample.

[Care has to be taken to see that the ends of the specimen are smooth and parallel to each other and perfectly at right angles to the length of the specimen].

[b] Perpendicular to Face Grain

Take 3 specimens of size 100 mm length and 35 mm in width and the thickness each to that of the material. Repeat the procedure as described in parallel to the face grain. Find the average of all the three specimens and this value is the compressive

strength perpendicular to face grain of the sample.

Determination of Static Bending Strength [Modulus of Rupture]

[a] Parallel to Face Grain

Take three specimens of [20 t + 50] mm in length and 25 mm as width for t < 6 mm and 50 mm as width for t ≥ 6 mm from each sample. Condition the specimens in a conditioning chamber to constant weight by keeping them under conditions at 27 ± 2°C and 65 ± 5% relative humidity. After conditioning, using digital slide calipers measure the width and thickness to an accuracy of 0.01 mm at a minimum of three positions in the dimension and note down the average width and thickness as 'b' and 't' respectively.

Bending test is carried out on a universal testing machine. Place the specimen on the bending anvil supported in such a way that it is free to follow the bending action and will not be restrained by friction. Apply load at the centre, on a span [distance between the supports] of 20 times the thickness at a constant cross head movement of X as given below:

$$X = \frac{Zl^2}{6t} \quad \text{.....[13]}$$

where X = cross head movement in mm/min.

Z = unit rate of fibre strain in mm/mm of outer fibre length per minute = 0.0015

L = span in mm and

t = thickness in mm

Note down the deflection at the centre using dial gauge of accuracy of 0.01 mm in case the testing machine is not having the in-built facility for measuring deflection. Note down 10 to 12 readings within the limit of proportionality at suitable load intervals. Remove the dial gauge when the load is about to cross the limit of proportionality. Otherwise the dial gauge may be spoiled. Continue the loading upto failure. Note down the failing load.

Calculate modulus of rupture and modulus of elasticity by using the following formulae.

$$\text{MOR, N/mm}^2 = \frac{3PL}{2bt^2} \quad \text{.....[14]}$$

where P is the failing load in N

L is the span in mm

b is the width of the specimen in mm

t is the thickness of the specimen in mm

$$\text{MOR, N/mm}^2 = \frac{P'L^3}{4bt^3y'} \quad \text{.....[15]}$$

where P'/y' denotes the slope of the load deflection curve, P' load in newtons and y' deflection in mm. L, b, t are same as above.

Repeat the above procedure for the other two specimens of the sample. Find the average of all the three specimens and these values are the MOR and MOE of the sample.

[b] Perpendicular to Face Grain

Take 3 specimens of [(20 x thickness (t)) + 50] mm in length and 25 mm as width for thickness (t) < 6 mm and 50 mm as width for t ≥ 6 mm from each sample. Repeat the above procedure as described in parallel to the face

grain. Find the average of all the three specimens and these values are the MOR and MOE of the sample.

Determination of Modulus of Rigidity by Plate Shear Method

Take three specimens of size 300 x 300 mm from each sample. Condition the specimens in a conditioning chamber to constant weight by keeping them under conditions at 27 ± 2°C and 65 ± 5% relative humidity. After conditioning, using digital slide calipers measure the thickness to an accuracy of 0.01 mm at 4 corners of the specimen and note down the average thickness at `t'. Length and width are also measured to an accuracy of 0.5 mm.

Plate shear test is carried out on a universal testing machine. Place the specimen opposite ends of a diagonal on rounded supports and loaded in a similar manner on the opposite ends of the other diagonal. The loading and supporting frame shall be rigid and is shown in Fig. 40.6. Apply the load continuously at a constant rate of cross head movement of 0.5mm per minute till failure. Deflection is measured to the nearest 0.01 mm at two points on each diagonal equidistant from the centre of the plate. These measurements shall preferably be made at the quarter points of the diagonals. The plate shall not be stressed beyond elastic range and increments of load shall be chosen so that not less than 12 and preferably 15 load deformation readings are taken. To eliminate the effects of slight initial curvature in the specimen, two sets of load deformation data are to be obtained, the second set with the panel rotated 900 about an axis through the centre of the plate and perpendicular to the plane of the plies. The two results shall be averaged to obtain the shear modulus for the specimen.

The modulus of rigidity ς was computed by using the formula:

$$\varsigma = \frac{1.5 p u^2}{t^3 y} \quad \text{.....[16]}$$

where ς is the modulus of rigidity in N/mm², p is the load applied at each corner of the specimen in N, t is the thickness of the specimens in mm, u is the distance from the centre of the specimen to the point where the deflection is measured in mm and y is the deflection relative to the centre in mm.

Repeat the above procedure for the other two specimens of the sample. Find the average of all the three specimens and this value is the modulus of rigidity of the sample.

Determination of Panel Shear Strength

Take 3 specimens of size 407 x 407 mm from the sample. The size and thickness of the reinforcing blocks with specimen are shown in figure. The thickness of the specimen is measured with digital slide calipers to an accuracy of 0.01 mm. Condition the specimens after preparation in a conditioning chamber to constant weight by keeping them under conditions at 27 ± 2°C and 65 ± 5% relative humidity. The experimental set up is shown in Fig. 40.7. The load shall be applied by compression across a diagonal. Apply the load continuously at a constant rate of cross head movement of 2 mm per minute till failure and note down the load at failure [The test is carried out on a universal testing machine with the help of a jig as shown in figure].



Fig. 40.6 Loading and Supporting Frame for Plate Shear Test

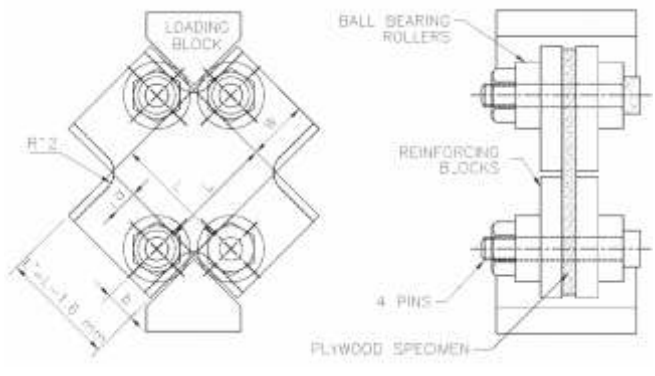


Fig. 40.7 Experimental set of panel shear strength test

The panel shear strength is calculated by using the formula

$$\tau \text{ [Shear strength, N/mm}^2\text{]} = \frac{0.707\,p}{L\,t} \quad \text{.....[17]}$$

Where τ is the panel shear strength in N/mm², p is the failing load in N, L is the side dimension of the specimen in mm and t is the thickness of the specimen in mm.

Repeat the above procedure for the other two specimens of the sample. Find the average of all the three specimens and this value is the panel shear strength of the sample.

Determination of Nail/Screw Withdrawal Strength

Take specimens of size 250 x 50 mm from the sample and glue them one over the other so as to give total thickness of more than 50 mm. Condition the specimens in a conditioning chamber to constant weight by keeping them under conditions at 27 ± 2°C and 65 ± 5% relative humidity.

Two nails of 50 mm length and 2.5mm shank diameter and two screws of No.8 and of length 50 mm are used. Nails are driven exactly at right angles to the face of the specimen to a total penetration of 25 mm. In the case of screws, drill a pre bone 2.5 mm in diameter. Nails/screws are driven in such a way to the specimen at a regular distance of 50 mm on the middle line of the surface. Nail/screw is withdrawn on a testing machine with a suitable grip. Fix the sample in the jig. Apply the load continuously at a constant rate of cross head movement of 2 mm per minute till the nail/screw tests come off. Note down the load at failure. This load is the nail/screw withdrawal strength of the specimen/sample.

Repeat the above procedure for the other nail/screw. Find the average of the two nails/screws and this value is the nail /screw withdrawal strength of the sample.

Determination of Rolling Shear Strength

Plywood alone is rarely used in construction. Sometimes it is glued either to wood or other wood based materials or sometimes to plywood itself as in box beams,

I-beams, etc. If a shear force acts on such a glued construction, a special kind of failure occurs in the veneers of the plywood as shown in Fig. 40.8. Rolling shear failure occurs in the effected veneer in planes perpendicular to the surface of the veneer such that a square element in one of these planes distorts into a rhombus under the action of rolling shear stress. Rolling shear strength of plywood was determined on a double lap tension specimen shown in figure. The specimen comprises two 25 mm wide central strips of plywood having face grain parallel to their length, to which are glued two 25 mm wide cover plates, the cover plates having face grain perpendicular to their length. The cover plates are positioned so that there is a 25 mm double lap joint at one end and a 50 mm double lap joint at the other. The gap between the ends of the central strips is 6 mm. Similar procedure is followed to make two more specimens. Condition the specimens in a conditioning chamber to constant weight by keeping them under conditions at 27 ± 2°C and 65 ± 5% relative humidity. After conditioning, using digital slide calipers measure the smaller area i.e. width and length of the lap to an accuracy of 0.01 mm at a minimum of three positions in the dimension and note down the average width and length of lap.

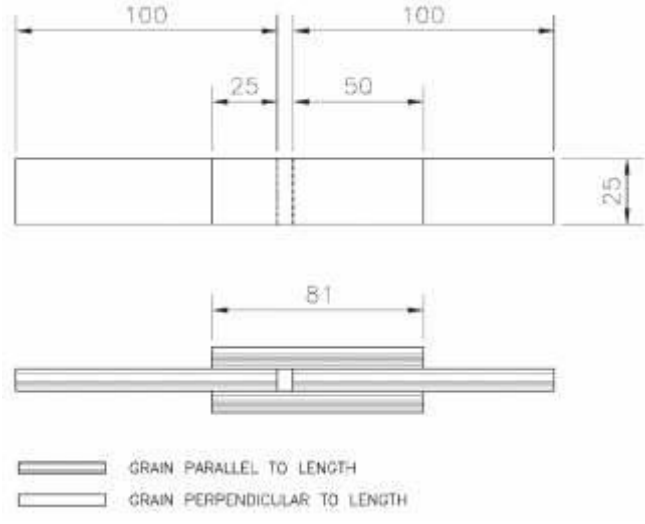


Fig. 40.8 Rolling shear test specimen

This test is carried out on a universal testing machine with suitable grips. Fix the specimen in the tension grips firmly so that there won't be any slip during the test. Apply the load continuously at a constant rate of cross head movement of 1 mm per minute. Each test specimen after failure shall be examined to make sure that the failure is due to rolling shear. If the failure is not due to rolling shear, the values obtained with such

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specimens shall be discarded. Note down the failing load. Rolling shear strength is calculated by using the formula below:

$$\text{Rolling shear strength, N/mm}^2 = \frac{P}{2A} \quad \text{.....[18]}$$

where P is the failing load in Newtons and A is the smaller area of overlap in mm² [625 mm²].

Determination of Sustained Load

If plywood is kept and the action of a constant load, the instantaneous deflection observed does not remain constant, but goes on increasing till either it reaches a constant value or increases to such a great extent that the plywood fails. For structural applications of plywood, it is important to know the critical load below which the material will not fail, however long the constant load may be. The ratio of this limiting load to the load at which the material fails instantaneously is known as the co-efficient of sustained loading. It is the aim of the present test to evaluate this co-efficient [eg. in bending] for plywood used for structural purposes.

The specimen for this test is a rectangular plywood strip whose width is 25mm for plywood upto 6 mm thickness and 50 mm for greater than 6 mm thick plywood. The length is 20 times the thickness plus 50 mm, the grain direction of the face plies being along the length. The breaking load of the plywood should be determined in bending with preferably a two point loading device, keeping a quick rate of loading. Several percentages of this breaking load should be used as constant loads for obtaining the times upto failure of the strips under these constantly acting loads. The constant load versus time up to failure shall be drawn in graph and shown in Fig. 40.9. An asymptote to the sustained load curve should be drawn and this asymptote intercepts the load axis at a load known as the limit of sustained loading. The ratio of this limiting load to the breaking load for quick rate of loading is known as the coefficient of sustained loading. The coefficient of sustained loading Ks was calculated by the formula.

$$K_s = \frac{\sigma_{sust}}{\sigma_{br}} \quad \text{.....[19]}$$

Where, K_s is the coefficient of sustained loading, σ_s sust is the stress indicated by the sustained load curve in N/mm² and σ_s br is the breaking stress or the modulus of rupture in N/mm². The coefficient of sustained loading was found to be 0.64 for 6 mm structural plywood.

The physical significance of the limit of sustained loading is that for loads below this, failure will not occur in the plywood, however long the duration of the action of the constant load may be. For loads higher than the limiting sustained load, failure is bound to occur sometime or the other.

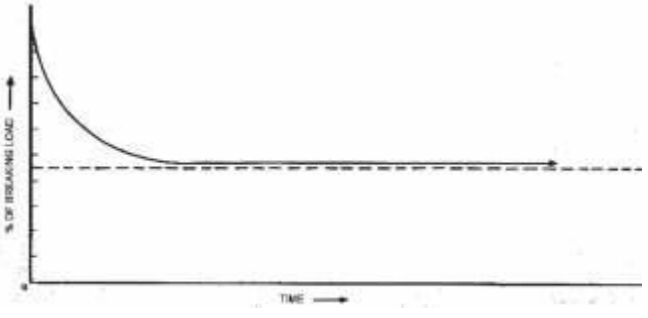


Fig. 40.9 Sustained load behaviour of plywood

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Interzum 2027 11th - 14th May, Cologne

Putting Strategic Resilience in Global Furniture Industry



Interzum 2027 will place strategic resilience at the centre of its programme as the international furniture supplier industry confronts geopolitical uncertainty, volatile markets, rising energy costs and increasingly complex regulatory requirements.

Taking place from 11th to 14th May, 2027, in Cologne, the world's leading trade fair for furniture production and interior design has announced "Beyond Boundaries: Elevating Strategic Resilience" as its key theme.

The theme will provide a common framework for exhibitors to demonstrate how companies can adapt to rapidly changing market conditions while strengthening long-term competitiveness. Interzum will examine resilience not simply as the ability to withstand crises, but as the capacity to anticipate change, reshape business models and build more adaptable value chains.

Three developments will receive particular attention: collaboration, regionalisation and diversified procurement. Collaboration highlights new partnerships and networks across the value chain, enabling companies to combine expertise, improve efficiency, develop integrated solutions and

shorten delivery times.

Regionalisation reflects the growing movement towards locating production and supply structures closer to key markets. Establishing or expanding local manufacturing capabilities in strategically important regions is increasingly being viewed as a competitive advantage, particularly amid supply-chain disruptions and geopolitical uncertainty.

Diversified sourcing, digitalised processes and long-term partnerships form the third pillar. These approaches can reduce procurement risks while strengthening operational efficiency and competitiveness. Interzum also expects technological expertise and regulatory competence to become increasingly important as businesses navigate evolving market





requirements.

The resilience agenda will extend beyond these three areas, encompassing themes including the circular economy, automation, miniaturisation and adaptive approaches to product and process development.

For trade visitors, Interzum 2027 aims to provide a structured view of the transformation underway across the global furniture supplier industry, while offering practical inspiration through innovative solutions spanning the entire value chain.

The exhibition is expected to bring together international manufacturers, suppliers and industry professionals seeking new strategies for a more uncertain and rapidly changing marketplace.

ChennaiWood 2026, 18th–20th Dec., Chennai Trade Centre

Bringing South India's Woodworking Industry Under One Roof

Chennai is set to become the new focal point for India's woodworking and furniture manufacturing industry with the inaugural edition of ChennaiWood, scheduled for 18th to 20th December 2026 at the Chennai Trade Centre. Presented by the team behind INDIAWOOD, MUMBAIWOOD and KOLKATAWOOD, the trade fair aims to connect global technology leaders with the rapidly expanding manufacturing markets of South India.

Positioned in Chennai, one of India's major manufacturing hubs, the exhibition will focus on woodworking, furniture, upholstery and mattress manufacturing technologies. Organisers expect the event to bring together more than 100 brands from over 10 countries, alongside more than 6,000 woodworking professionals, across 7,000 sq. metres of exhibition space.

The show comes at a time when South India is witnessing strong growth in furniture manufacturing, construction, commercial interiors and OEM production. Chennai's industrial ecosystem, port connectivity and proximity to major markets in Tamil Nadu, Kerala, Andhra Pradesh and Telangana provide a strategic platform for exhibitors seeking to expand their regional presence.

ChennaiWood will showcase





machinery and technology, materials and supplies, fittings, hardware, components and industry services. More than 100 woodworking machines are expected to feature in product and technical demonstrations, offering visitors opportunities to evaluate technologies and production solutions first-hand.

The visitor profile spans furniture, kitchen and wood-product manufacturers, architects, interior designers, builders, developers, sawmillers, timber and plywood traders, hardware and furniture-fitting dealers, as well as mattress and upholstered-furniture manufacturers.

The organisers also plan workshops and interactive platforms for architects, interior designers, builders and mattress-industry professionals, adding a knowledge-sharing dimension to the business-focused exhibition.

With South India emerging as an important centre for furniture exports, timber processing and OEM manufacturing,





ChennaiWood 2026 is positioned not merely as a new exhibition, but as a strategic industry platform connecting technology, manufacturing and markets.

FIMMA + Maderalia 2026, 10th - 13th Nov., Feria Valencia

Bringing Global Woodworking and Interior Industry Together in Valencia

The international woodworking and interior design industry will converge in Spain, from 10th to 13th November, 2026, as FIMMA + Maderalia 2026 opens its doors at Feria Valencia.

Held biennially, FIMMA + Maderalia is positioned as an international meeting point for professionals across furniture manufacturing, carpentry, interior design and contract projects. The exhibition brings together materials, technology, components, machinery and tools, providing industry professionals with an opportunity to explore developments shaping the future of the sector.

The 2026 edition will focus on a broad spectrum of technologies and products, including woodworking machinery for first and second processing, portable tools, environmental protection systems, energy-generation solutions, software and engineering services. The Maderalia segment will showcase furniture hardware, locksmithing, lumber, veneers, decorative



boards, chemical products such as varnishes and glues, and newer materials including resins, PVC and methacrylate.

Sustainability, digital solutions, advanced manufacturing processes and emerging design trends are expected to form important themes of the exhibition, alongside the latest developments in production technology and interior materials.

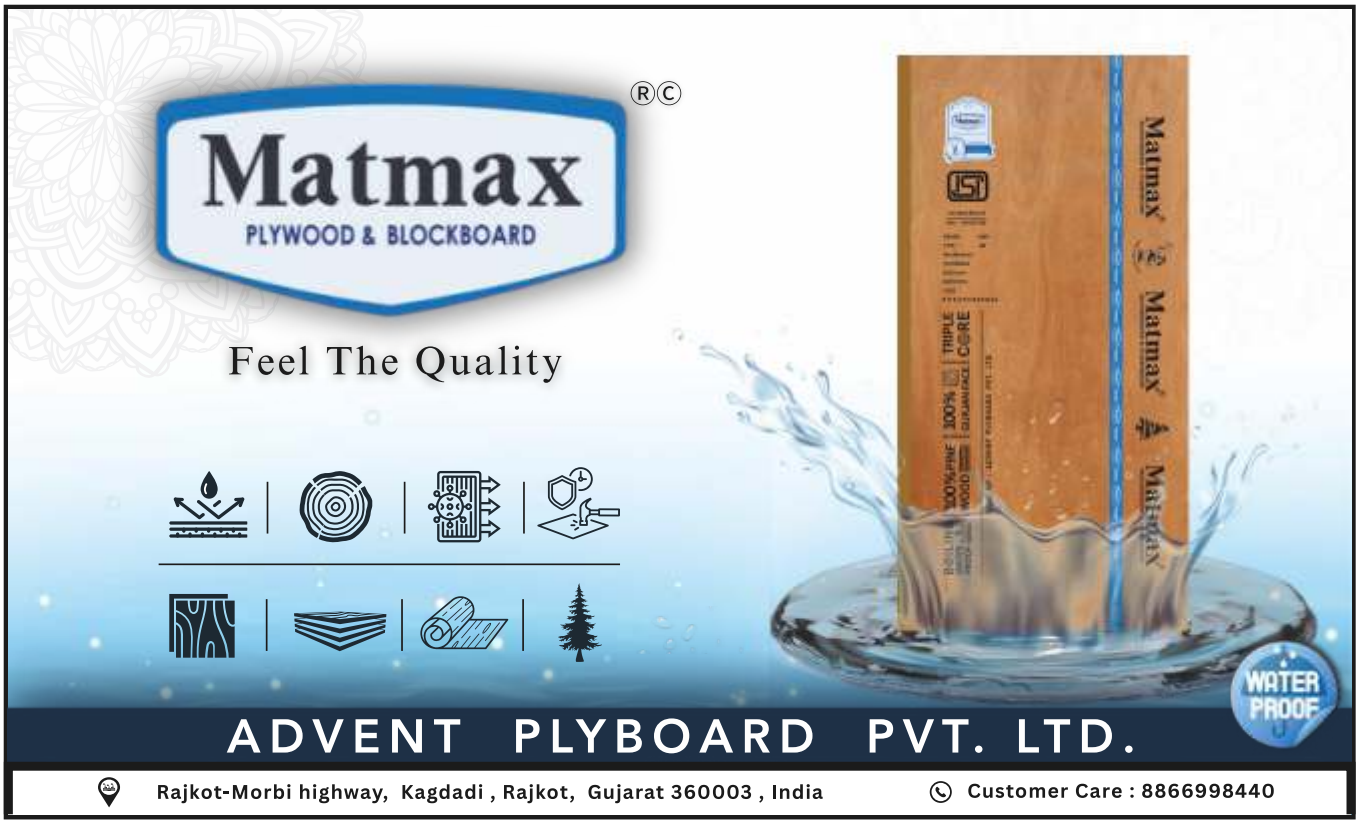
The event is aimed at a diverse professional audience. Furniture manufacturers, carpenters, interior designers, architects and decorators will be joined by industry specifiers and project managers working in the contract sector, including hotels, offices and retail. Distributors, engineers and purchasing managers from more than 35 countries are also expected among the trade visitors.

With its combination of machinery,



materials, components, tools and design solutions, FIMMA + Maderalia seeks to connect manufacturers, suppliers, technology providers and industry decision-makers under one roof.

Organised by Feria Valencia, the four-day trade fair is set to provide a platform for business networking, technology discovery and market engagement across the international woodworking, furniture and interior sectors.



Algeria WoodTech 2026, 21st-24th Nov., Safex Exhibition Centre, Algiers

Spotlight on Wood Processing and Technology in Algiers

The Algerian wood and wood-processing industry will take centre stage at 5th edition of Algeria WoodTech 2026, scheduled from 21st to 24th November, 2026, at the Safex Exhibition Centre in Algiers.

Positioned as an international trade fair for the wood, joinery, equipment and technology industries, the four-day event is expected to bring together major industry players, technology providers and business professionals from Algeria, Africa and international markets.

Algeria WoodTech is designed as a specialised platform for showcasing products, services and technological innovations across the wood and wood-processing value chain. Its scope extends beyond woodworking to sectors closely connected with the industry, including furniture manufacturing, construction, interior design and forestry.

The exhibition will feature more than 200 exhibitors and brands, and a broad product profile covering raw materials, wood materials and panels, machinery and processing technologies, furniture and layout solutions, software and institutional services. This diverse range reflects the growing intersection of manufacturing technology, materials, design and digital solutions within the modern wood industry.

The event will primarily target business visitors, including buyers, sellers, industry professionals and key decision-makers, offering opportunities for companies to present their capabilities, explore new technologies and develop business relationships.

Algeria WoodTech has established itself as a recurring industry platform, with previous editions held in 2022, 2023, 2024 and 2025. The 2026 edition continues this annual engagement with the Algerian and wider African wood-processing markets.

The Safex Exhibition Centre, located approximately 3 km from Algiers International Airport and 10 km from the city centre, provides dedicated infrastructure for exhibitions, trade shows and seminars, along with exhibitor support facilities including a press centre, information services and technical assistance.

Organised by CG Com Event, Algeria WoodTech 2026 is set to serve as a meeting ground for manufacturers, suppliers, technology companies and professionals seeking opportunities in one of Africa's important emerging wood and interior markets.

LESDREVMASH 2026, 23rd - 26th Nov., Crocus Expo

Showcasing Global Woodworking Technology in Moscow

The international timber and woodworking industry will converge in Moscow this November as LESDREVMASH 2026 taking place from 23rd to 26th November, 2026, at the Crocus Expo International Exhibition Center.

Positioned as an international exhibition for machinery, equipment, fittings, tools and instruments, LESDREVMASH brings together the technologies and solutions supporting the logging, woodworking, furniture, timber, pulp and paper industries. Held biennially, the exhibition is positioned as a major industry platform for Russia, the Commonwealth of Independent States and Eastern Europe.

The exhibition will cover the entire wood-processing value chain. Its scope includes logging and sawmilling, wood-panel production, woodworking, house building, furniture manufacturing, automation and bioenergy. Packaging, tools, paints and varnishes will also feature among the showcased product categories.

For manufacturers and industry professionals, the event offers an opportunity to examine machinery and technologies, identify new suppliers and engage directly with companies operating across international markets. The exhibition is aimed at a professional trade audience, with face-to-face interaction and business development forming an important part of its proposition.

According to the exhibition profile, 81% of participants are regular exhibitors, reflecting its established position within the sector. It also describes LESDREVMASH as a leading Russian exhibition in the timber and lumber industry, citing its market coverage, international recognition, professional interest and exhibition scale.

Beyond woodworking machinery, the event will connect related sectors including forest industries, carpentry, equipment and tools, cellulose and paper, plastics and industrial technology. This broad scope reflects the increasingly integrated nature of modern forest-product manufacturing.

Organised by Expocentre Moscow, LESDREVMASH 2026 will provide a platform for Russian and international companies to present products, technologies and industry developments to a specialised professional audience.

With the global timber and woodworking sectors increasingly focused on productivity, automation and technology-driven manufacturing, the Moscow exhibition is set to offer an important meeting point for businesses looking to understand the direction of the industry and explore new commercial opportunities.

Cairo WoodShow 2026, 26th - 29th Nov., Cario International Convention Centre

Where Wood, Technology and Business Will Meet



The Cairo WoodShow 2026, one of the leading trade platforms for the wood, furniture and woodworking machinery industry in the MENA region, will take place from 26th to 29th November 2026 at the Cairo International Convention Centre, Egypt.

Now in its 11th edition, the exhibition aims to bring together manufacturers, suppliers, distributors, designers, investors and industry decision-makers from Egypt, the wider Middle East and international markets. Building on the success of its previous edition, the show is positioned as a business-focused platform for technology, innovation, knowledge exchange and commercial partnerships.

The exhibition will cover the entire wood-processing and furniture value chain. Product categories include MDF, veneer, decorative laminates, hardwood and softwood, OSB, particleboard, HDF, WPC, engineered wood and structural timber products, alongside woodworking machinery, tools and wood coatings.

Furniture manufacturers, interior designers, architects, contractors, traders and purchasing professionals will also find solutions spanning furniture components, kitchen cabinets, wardrobes, doors, windows, flooring, decking, cladding, mouldings and other applications.

Beyond product displays, Cairo WoodShow emphasises B2B engagement. One-to-one meetings, direct business discussions, conferences and technology showcases are designed to help exhibitors connect with potential buyers and partners and convert business conversations into opportunities.

The exhibition's growing international profile is reflected in the reported participation of 451 exhibitors, 736



international and national brands and representatives from 68 countries in its previous edition. Organisers also report 18,195 professional visitors, with 90% identified as decision-makers or buyers.

For an industry being reshaped by automation, engineered materials, sustainable production and increasingly sophisticated design requirements, Cairo provides a strategic meeting point between established manufacturing capabilities and emerging market opportunities.

With its strong regional focus and international participation, Cairo WoodShow 2026 promises to be more than a display of machinery and materials. It is a marketplace where technology meets craftsmanship, manufacturers meet markets, and the future of woodworking takes shape.





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Woodex Moscow 2026, 1st - 4th Dec., Crocus Expo

Eurasia's Woodworking Industry Heads to Moscow

Woodex 2026, one of Eurasia's leading exhibitions for woodworking, wood processing and furniture production, will be held from 1st to 4th December at Crocus Expo in Moscow, Russia. The four-day international trade show will bring together manufacturers, suppliers, buyers and industry professionals from across the woodworking and furniture-production value chain.

The exhibition will showcase a comprehensive range of solutions, including woodworking machinery, furniture-production equipment, tools, components, coatings, adhesives, sealants, wood-protection products and equipment for wood-waste utilisation. Logging machinery, door-production equipment and auxiliary systems will also feature prominently.

Woodex is positioned as a business-focused platform for companies seeking new customers, distributors and technology partners. According to the organisers, the previous edition attracted more than 7,320 visitors and 180 exhibitors from eight countries, covering 12,200 sq m of exhibition space. A significant 79% of visitors were involved in purchasing decisions, underlining the event's commercial importance.

The 2026 edition will also expand the Woodex ecosystem beyond the exhibition



floor through conferences, industry discussions and networking opportunities. Its digital Woodex Connect platform will support matchmaking, contact exchange and lead management, enabling exhibitors and visitors to plan meetings and sustain business conversations before and after the event.

For international manufacturers, Woodex offers access to Russia's woodworking and furniture-production market as well as wider Eurasian opportunities. Indian companies, in particular, can explore opportunities in machinery, CNC technologies, furniture hardware, fittings, panels, laminates, coatings, adhesives and other production solutions.

Organised by ITE Group, Woodex 2026 is expected to reinforce Moscow's position as an important meeting point for the Eurasian woodworking industry.

WOFX 2026, 8th - 10th Dec., Bombay Exhibition Centre

Converging India's Furniture Industry Together in Mumbai

Mumbai will become the meeting ground for India's rapidly evolving furniture and design industry when the sixth edition of WOFX – World Furniture Expo takes place from 8th to 10th December, 2026, at the Bombay Exhibition Centre. Positioned as an industry-led B2B trade platform, WOFX is designed exclusively for furniture brands and manufacturers across categories.

The three-day exhibition will bring together manufacturers, dealers, distributors, wholesalers, importers, retailers, architects, interior designers, institutional procurement agencies, HORECA businesses, developers and corporate sourcing professionals. Its focus is firmly commercial: creating opportunities to discover products, establish partnerships, expand distribution networks and generate business.



WOFX 2026 will showcase a broad spectrum of furniture and allied categories, including home and office furniture, outdoor and institutional furniture, kitchen and wardrobes, kids' furniture, carpets and décor, as well as furniture for schools, colleges, hotels, restaurants, hospitals, airports, theatres and public spaces.

The organisers are positioning WOFX as a gateway to India's high-growth furniture

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market, with international and Indian brands expected to use the platform to introduce collections, identify new buyers and strengthen their market presence. Previous editions have established the exhibition as a focused B2B environment rather than a consumer-oriented furniture fair.

A key attraction will be its emphasis on business networking. Seminars, industry forums, award events and business meetings are intended to facilitate direct interaction between exhibitors and decision-makers. The event also extends participation beyond the physical exhibition through online business matchmaking.

With the Indian furniture sector undergoing rapid transformation driven by changing consumer preferences, organised retail, institutional demand and evolving design trends, WOFX 2026 arrives at an important juncture. For manufacturers seeking distributors, brands looking for market expansion and buyers searching for new sourcing opportunities, Mumbai will offer three concentrated days of industry engagement and business development.

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MyanmarWood 2026, 5th - 18th Dec., YCC

Set to Showcase Latest Woodworking Technology in Yangon

Myanmar's woodworking and furniture manufacturing sectors will gain an international technology platform when MyanmarWood 2026 is held from 15th to 18th December at the Yangon Convention Center (YCC). The specialised trade fair will bring together manufacturers, suppliers, professionals and decision-makers from across the wood-processing value chain.

Organised by Chan Chao International Co. Ltd., the event will focus on wood-processing machinery, cutting and hand tools, forestry equipment, primary and secondary processing technologies, and furniture fittings and accessories. The exhibition is designed to facilitate business connections while giving industry professionals access to new production technologies and manufacturing solutions.

The product profile extends across the entire processing chain, covering machinery for sawn timber, veneer, plywood, particleboard, MDF, OSB and other panel products. Visitors can also explore kiln-drying technologies, joinery and furniture machinery, finishing lines, handling systems, dust-extraction equipment, tooling and portable power tools.

Furniture hardware and accessories, including hinges, handles and other fittings, will form another important segment. The exhibition will also feature wood-based materials and consumables such as laminates, veneers, plywood, MDF, engineered wood, edge-banding materials, adhesives, lacquers, abrasives and coatings.

The visitor profile encompasses professionals from construction, architecture and design, forestry, furniture manufacturing, timber processing, sawmilling, panel production, imports and exports, as well as trade associations and government agencies.

MyanmarWood is also expected to provide opportunities for international companies seeking to explore the Myanmar market and establish relationships with local manufacturers, distributors and buyers. A conference and seminar programme is planned to complement the exhibition with industry knowledge and technology-focused discussions.

The 2026 edition will run from 10 am to 5.30 pm, closing at 4 pm on December 18. Visitors under 16 will not be admitted.

With its broad coverage of machinery, materials, tools and furniture components, MyanmarWood 2026 is positioned as a significant meeting point for the country's evolving woodworking and furniture-production ecosystem.

Maderalia 2026, 10th - 13th Nov., Valencia

Furniture Will Take Centre Stage

Furniture hardware will occupy a prominent position at Maderalia 2026, as the leading international exhibition returns to Feria Valencia, Spain, from 10th to 13th November.

The biennial event is building strong commercial momentum, with prominent international companies already confirming their participation. The growing presence of hardware specialists is expected to reinforce Maderalia's position as an important meeting point for furniture manufacturers, carpenters, distributors, interior designers, architects and other habitat professionals.

Hardware and components have evolved far beyond their traditional functional role. Hinges, runners, drawers, lift systems, opening and closing mechanisms, storage solutions and smart systems increasingly determine how contemporary furniture performs, interacts with users and adapts to changing lifestyles.

The sector has become a major driver of innovation across kitchens, bathrooms, wardrobes and contract furniture. Advances in ergonomics, space utilisation, automation and intelligent mechanisms are enabling manufacturers and designers to create products that combine functionality with improved comfort, efficiency and aesthetics.

Maderalia 2026 is expected to showcase companies operating at the forefront of these developments, offering visitors an insight into technologies and solutions that are influencing the next generation of furniture design.

The importance of the segment is reflected in the exhibition space being planned for hardware and components. Organisers expect more than 12,000 square metres to be dedicated exclusively to the sector, underlining its growing influence within the broader furniture and habitat industries.

The concentration of international suppliers will also strengthen FIMMA+ Maderalia's role as a major Mediterranean meeting point for the wood, furniture and carpentry sectors. The exhibition aims to bring together the entire value chain at a time when internationalisation, technological development and innovation remain key growth drivers.

For manufacturers and specifiers, the hardware showcase is likely to be one of the most closely watched sections of the 2026 edition, reflecting the sector's transformation into a technological engine for modern furniture.

IWF Atlanta 2026, 25th - 28th Aug., GWCC, Atlanta

Showcased the Future of Global Woodworking Industry

The global woodworking and panel industry geared up for one of its most anticipated events as the International Woodworking Fair (IWF) Atlanta 2026 returned to the Georgia World Congress Center, Atlanta, from 25th to 28th August, 2026. Recognised as North America's largest woodworking technology and design trade show, IWF attracted thousands of exhibitors, buyers, manufacturers, architects, designers, and industry professionals from around the world.

Widely regarded as the business hub of the woodworking sector, IWF Atlanta offered a comprehensive platform for discovering the latest innovations in machinery, engineered wood products, decorative surfaces, furniture manufacturing, cabinetry, flooring, doors, windows, tools, software, and automation technologies. The exhibition featured live machinery demonstrations, product launches, and manufacturing solutions to improve productivity, efficiency, and sustainability.

A major highlight of IWF 2026 was its dedicated focus on mass timber and prefabricated construction, showcasing the latest developments in cross-laminated timber (CLT), glue-laminated products, and sustainable building technologies. As demand for environmentally responsible construction continues to grow globally, this segment drew significant attention from architects, developers, and investors.

Alongside the exhibition, the IWF Education Conference offered an extensive programme of industry-focused sessions covering business management, manufacturing and design, marketing, workforce development, digital manufacturing, inkjet and 3D printing, and emerging business sectors. Guided innovation tours across the exhibition floor provided attendees with practical insights into next-generation woodworking technologies and production processes.

Networking remained a key feature of the event, with special business meetings, exhibitor engagement programmes, and the popular IWF Night at The Tabernacle bringing industry professionals together beyond the exhibition halls.

Visitors were encouraged to register in advance and use the official IWF mobile app for floor plans, exhibitor listings, education schedules, and real-time event updates.

As the woodworking industry continues to embrace automation, sustainable materials, and digital manufacturing, IWF Atlanta 2026 proved to be a global platform where innovation, design, and business converged, helping shape the future of woodworking and interior manufacturing worldwide.

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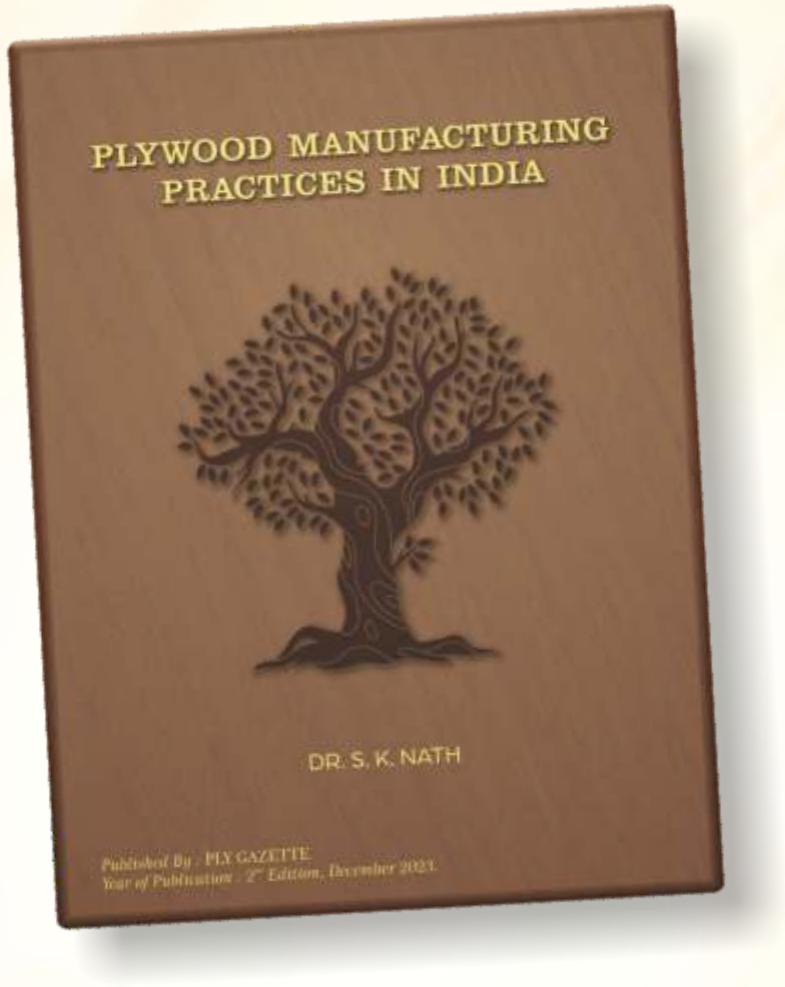
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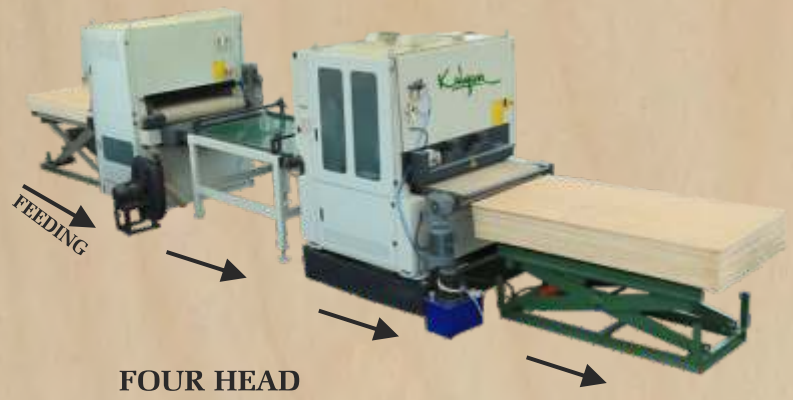
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- Ritesh Agarwal
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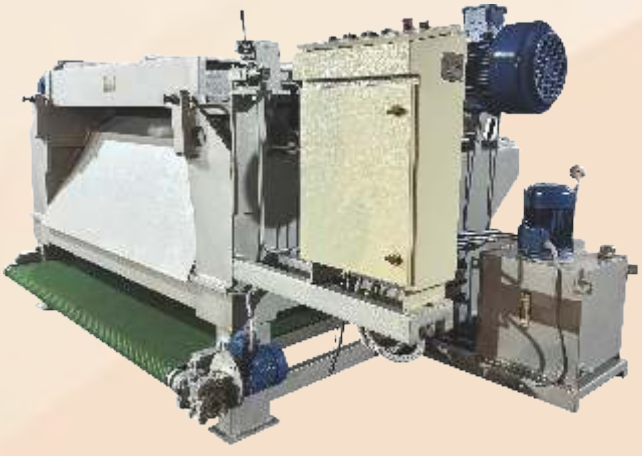
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