

## Appearance and Texture

**Colour:** Yellowish, sapwood is pale yellow to white, heartwood is brown with a slight reddish tinge and a yellowish shade.

**Grain:** The grain is clear and relatively uniform, usually straight, with a clear difference in colour between earlywood and latewood, giving it a unique natural beauty.

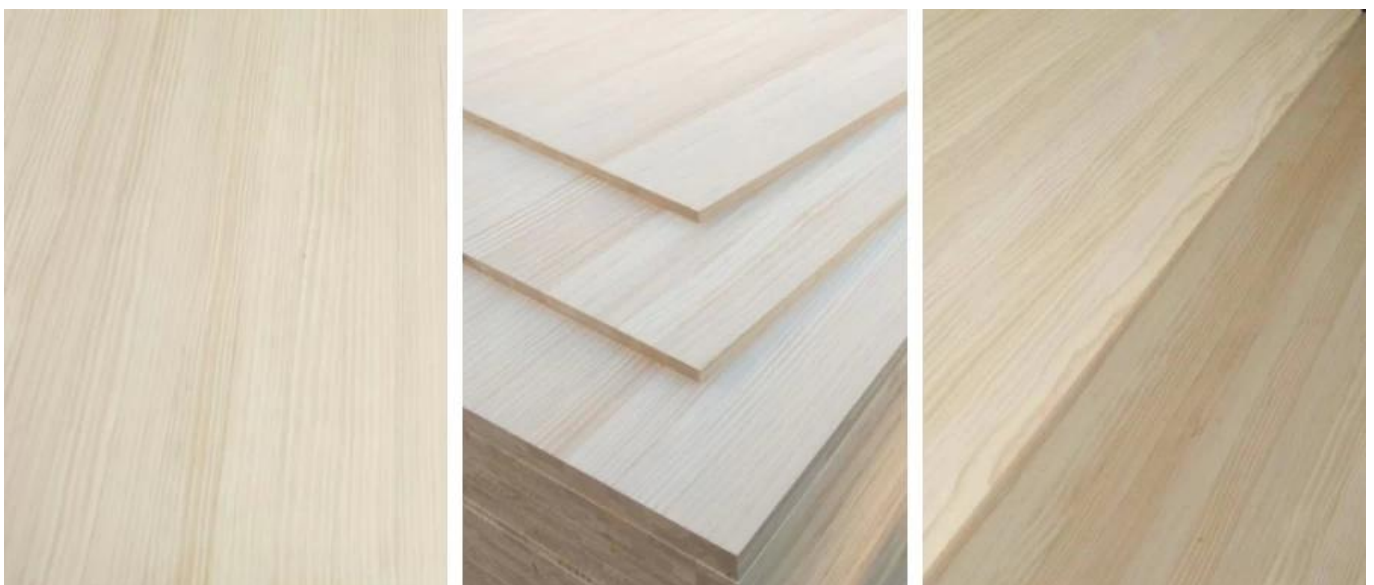
**Texture:** The material is light and soft, with good surface smoothness, giving people a warm and comfortable feeling.

## Physical Properties

**Strength and stability:** it has certain strength and toughness, uniform density, and the strength can meet the requirements of general construction and furniture manufacturing. It is not easy to have serious deformation and cracking after drying treatment, with average shrinkage efficiency and strong stability.

**Thermal insulation and sound absorption and noise reduction:** good thermal insulation properties, can effectively prevent heat transfer, reduce the temperature difference between indoor and outdoor. Sound absorption and noise reduction effect is good, can reduce the impact of noise on life, to create a quiet and comfortable living environment.

**Fireproof performance:** B1 level fireproof material, will not produce toxic fumes in case of fire, can effectively protect people's lives.



## Processing performance

Low processing difficulty, cutting, drilling, planing, nailing and other operations can be carried out smoothly, can obtain better processing accuracy and surface quality, can be easily made into a variety of complex shapes. The wood has good nail-holding power and strong permeability, which makes it very easy to be treated with anticorrosion, drying, curing and colouring.

## Environmentally Friendly Characteristics

Radiata pine [[radiata pine China processing plant](#)] in the growth process is not subject to chemical pesticides, fertilisers, pollution, the use of high-quality radiata pine timber as raw materials processed from the panel of environmental protection and pollution-free, is a kind of green building materials.

## Wide range of uses

**Construction field:** commonly used in building structural framework, roof trusses, wall keel, floor base, etc. Its good strength and stability can ensure the structural safety of the building.

**Furniture manufacturing:** It is suitable for making various kinds of furniture, such as tables, chairs, beds, cabinets, etc. It can present various styles through different surface treatment processes, which can satisfy the aesthetic demands of different consumers.

**Decoration:** It can be used for indoor decorative lines, door and window covers, skirting lines, etc. It can also be made into decorative panels to create a natural and warm indoor atmosphere.

**Packaging industry:** Due to its relatively low cost, easy processing and certain strength, it is often used to make all kinds of packaging boxes, trays and other logistics and transport packaging materials.



## Grades

**Industrial grade:** moisture content of 8-12%, sawn rough, smooth and flat on all sides, no defects, can have small imperfections on the back side. Mainly used for applications that do not require high appearance standards, such as packaging boxes or non-critical structural components.

**Furniture Grade A:** Ensures a 60 per cent yield, cut lengths of 600mm or more, allowing for knots up to 38mm in size. Moisture content averages 9 per cent, with a maximum of 12 per cent permitted, and is suitable for furniture fittings and solid timber components.

**Furniture grade B:** Ensures a 60% yield, cut lengths of 150mm or more, allowing for knots of up to 38mm in size. Moisture content averages 9% with a maximum of 12% permitted, suitable for the manufacture of furniture fittings, solid timber and finger-joined panels.

**Standard grade:** Allow knots and cores, good stability and compression resistance, moisture content of 9% on average and 12% maximum, suitable for the production of boxes, pallets and invisible parts of furniture fittings.



## Our certification

[illegible]

张广 杨红士 李德军 张广

**CERTIFICATE OF APPROVAL**

SHANDONG MUZHIYUAN INDUSTRIAL DEVELOPMENT CO., LTD.

PEROTI, LINDA A. ADMINISTRATIVE MANAGER, DAYTON TOWNSHIP  
ENGINEERING COUNTY, WEST CITY  
SHANDON, MISSOURI

has demonstrated state-of-the-art inspection and monitoring, the accuracy of the product equivalent to that achieved by ISO 9001:2015. Customers of Regalair can expect a level of ISO 9001:2015, Type A, Part 17B, (based on the latest edition of the Regalair Regalairair) to be provided compared to the previous standard to be provided.

Scope of Certification: CAGG 81210 Phase 2 and EN 12504 Type W, part 17B

Certified Product: P4 Series - Doors

Certification Number: C-20232

Issue: 01/01/2023

 UKAS

Quality Control/Technical Manager  
Distribution Services International, LLC

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

Contributor: Barbara International, LLC

LAS

**Bureau Veritas Certification**

HEZE WOOD EDGE WOOD INDUSTRY CO., LTD.  
PENGZHILANG VILLAGE, DATUN TOWN, DONGMING COUNTY, HEZE  
CITY, SHANDONG PROVINCE CHINA, 274000

*Autosan* Vertriebs-Gesellschaft mbH certifies that the company has implemented a FSC™ product groups control system according to the Forest Stewardship Council™ certification system. In the above location and respects with the requirements of Standard

FSC Chain of Custody Certification standard, No.: FSC-COC-40-004 V 3.0

For its untold story concerning

Manufacture and trading of wood product Certified FSC 100% and FSC Mix.

\*Updated list of products & species on the FSC database (<http://fsc.org>)

Type of certification: Single

Original certification date:	05-02-2022
Date of certification decision:	05-02-2022
Expiration date:	04-02-2028
FPO Certificate code:	09-000-11
IN Certificate No. / Version:	070000000
Contract No:	13077452
Issue date:	09-02-2022

Signed on behalf of Bureau: \_\_\_\_\_ Certification Number: \_\_\_\_\_

The validity of this certificate shall not constitute a liability for any. This certificate shall not be construed as evidence that a particular product supplied by the signatory holds a PRC certified or PEE Certified Award. Products offered, although sold by the certificate holder, are only for commercial reasons by the issue of this certificate when the required PEE Award is clearly shown on order and delivery documents.

Correspondence: Jacques J. Thirumangalakudi, 1725, Avenue M, Bellingham, WA 98225, USA. Email: [jthirumangalakudi@bellsouth.net](mailto:jthirumangalakudi@bellsouth.net)

4 for all of the products or services that are included in the scope of the certificate, you be observed by inspectors from the American Revolution. The certificate covers the property of American writers, publishers, all types of reproduction and the certificate itself shall be a permanent document in the American Revolution. All certificate fees in English are 100,000,000.