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## AKD Ironwood® Sleepers are ideal for building natural and cost effective landscaping projects that will last for many years to come.

AKD Ironwood has been a trusted name in wood products for many years. Today, many good garden designers, landscapers, builders and DIY enthusiasts use Ironwood Sleepers.

They offer you the natural beauty and warmth of real timber. With their aesthetic and practical versatility, Ironwood sleepers are the ideal choice for the range of Australian outdoor climates.

Stringently tested to comply with the H4 hazard class under AS/NZS1604 series, AKD Ironwood Sleepers are suitable for above or in-ground use.

The incised timber technology used on AKD Ironwood sleepers assists the penetration and retention of preservative actives into the timber. This ensures a better treated sleeper for longer life and protection against fungal decay and termite attack.

Precision-manufactured to ensure a consistent but rustic finish, AKD Ironwood sleepers are naturally beautiful and can either blend into the environment or be painted or stained to stand out.

AKD Ironwood is available in two product types – Ironwood® Classic and Ironwood Edge® both are ideal for residential and commercial non-structural garden landscaping applications.

### Features & Benefits:

- Ideal for non-structural garden beds and small retaining walls - check with your local council for approvals and limitations on retaining wall heights
- Kiln-dried prior to treatment for enhanced treatment absorption
- Patterned with an "incised" finish for a superior finish and enhanced durability
- Low maintenance, no need to paint or stain on installation
- H4 treated for in-ground use
- Protected against termite and fungal attack
- Produced in Australia from sustainably grown and renewable Australian Plantation Pine



## Available in Classic and introducing NEW AKD Ironwood Edge®

AKD's Gilmore value adding facility in the regional NSW township of Tumut pioneered Ironwood plantation pine H4 sleepers in the early 1990s. Its investment in the then revolutionary incising technology has stood the test of time and thousands of small garden landscaping walls have been built in Australian backyards since then.

AKD Ironwood sleepers feature an incision pattern across the faces of the sleeper. It gives a unique superior look but also ensures we can offer H4 sleepers meeting the preservative treatment requirements of AS/NZS 1604 series. H4 compliance means it is suitable for in-ground use and protected against termite and fungal attack.

Available in two different looks – Classic or Edge. Both treatments meet the Australian Standard H4 hazard level.

***Note: CCA treated products such as Ironwood Classic sleepers must not be used to build children's play equipment, patios, domestic decking, handrails, new garden furniture, exterior seating or picnic tables.***



### NEW PROFILED FINISH

AKD Ironwood Edge comes with a 15mm bevelled edge on one face (both edges) so you have the option to show this detail in your project or not. They can be installed with either bevelled or plain face outwards.

### PIONEERING & PROVEN Colour Technology

AKD Ironwood Edge sleepers are made using a colour technology which penetrates the timber for a rich, finished look, similar to native hardwoods and Merbau, to compliment today's outdoor environment and entertainment areas.

### INNOVATIVE AND PROVEN Treatment Technology

With AKD Ironwood Edge, there is no need to paint or stain. AKD Ironwood Edge's colour technology provides a more consistent colouring and better penetration than staining.

AKD Ironwood Edge is treated with a non-arsenic based insect and fungal decay protection and is suitable for use in all residential and commercial environments including more sensitive applications such as children's playgrounds, vegetable gardens and sandpits.

### ENVIRONMENTAL CERTIFICATION

Not only is AKD Ironwood timber sourced from sustainable Australian pine plantations, the preservative company's treatment brand called MicroPro Sienna has been awarded several environmental certifications including the GREENGUARD Children and Schools certification for low Volatile Compound Emissions. This means it is suitable for use in schools, playgrounds and other sensitive environments.





AKD Ironwood Sleepers are treated to protect against fungal decay and insect attack and this performance comes with a limited warranty.

The product is not treated against the effects of weathering (i.e. exposure to sun and rain) which may cause cracking and splitting etc. and is not suitable for applications where the timber is submerged in fresh or salt water.



## Size ranges and availability

### AKD Ironwood Classic Sleepers

| Size (mm) | Treatment Type & Hazard Class | 1.2m | 1.8m | 2.4m | 2.7m | 3.0m | 3.6m |
|-----------|-------------------------------|------|------|------|------|------|------|
| 150 x 50  | H4 CCA                        |      |      | ✓    | ✓    |      |      |
| 150 x 75  | H4 CCA                        |      |      | ✓    | ✓    |      |      |
| 150 x 100 | H4 CCA                        |      |      | ✓    | ✓    |      |      |
| 200 x 50  | H4 CCA                        | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |
| 200 x 75  | H4 CCA                        | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |
| 200 x 100 | H4 CCA                        |      |      | ✓    | ✓    |      |      |

### AKD Ironwood Edge Sleepers

| Size (mm) | Treatment Type & Hazard Class | 2.4m | 3.0m |
|-----------|-------------------------------|------|------|
| 200 x 50  | H4 MicroPro                   | ✓    | ✓    |
| 200 x 75  | H4 MicroPro                   | ✓    | ✓    |



Classic close-up colour



Edge close-up colour

## Usage & Installation Advice

AKD Ironwood sleepers are typically used in external landscape applications such as low retaining walls and garden edging or borders.

They are not structurally graded and when used in applications that require local authority building approval or engineer certification, it is recommended that users consult an independent engineer or landscape architect.

Building regulations differ between states as stated in the National Construction Code (NCC). Local building authorities should be consulted to establish if building approval or engineer certification for retaining walls is required. Generally, walls greater than 0.8m as well as those of any height which are within 1.5m of a building, dwelling, swimming pool, deck etc will require building approval and/ or certification from an engineer. Please check with your local authority for suitable approvals for your project.

- Sleepers must be supported at both ends and at generally 1200mm (max) intervals along the length of the board and for retaining walls, posts should be placed in front of sleepers for increased support.
- Sleepers should only be installed on the narrow edge (i.e. 50mm or 75mm side). They are not recommended for use in horizontal applications where sleepers are positioned on the wide edge (i.e. 200mm side) e.g. capping, stair treads or boardwalks.
- Sleepers should be tightly constrained when used in conjunction with H section galvanised steel posts. It is recommended to chock either treated timber or plastic wedges between the sleepers and the steel channel on the backside of the wall for a more finished look. This should ensure that sleepers are tightly aligned to the front of the steel channel and reduce potential twisting, as well as limiting movement once installation is complete.
- Post holes should have a 100mm layer of coarse gravel at the base to assist with drainage.
- A drainage pipe should be installed at the rear base of retaining or garden walls which must drain to a free draining outlet (not a stormwater drain) to reduce the possibility of water pressure behind the wall.
- For retaining walls, water permeable geotextile fabric may also be used on the inside face of the wall to prevent backfill soil from flowing through spaces in the sleepers. The use of plastic sheeting for a retaining wall is not recommended as it can lead to water build up, resulting in wall collapse.
- For vegetable garden edging, Ironwood Edge sleepers are preferred due to the non-arsenic based treatment. If AKD Ironwood Classic sleepers are used in a garden bed, we recommend using a plastic film to prevent the soil from coming into contact with the sleepers.
- Adequate drainage is recommended for environments that contain high levels of ground water in order to prolong the service life of the sleepers.
- Note: AKD Ironwood Classic sleepers must not be used in children's playgrounds, for picnic tables or similar uses. AKD Ironwood Edge sleepers may be used in those applications



## Fixings & Fasteners

For normal applications all fasteners and fixings that will be in contact with preservative treated pine should be hot-dip galvanised, powder-coated or stainless steel and used in accordance with the manufacturer's recommendations. In harsh environments, such as those close to saltwater, stainless steel or similar fixings should be used.

We recommend use of nut and bolt assembly rather than bugle batten screws. Please ask your local hardware store supplier for more information.

## Resealing Requirements

In ANY application where AKD Ironwood sleepers have been cut, notched, rebated or drilled the exposed area should be retreated with an appropriate brush on, remedial treatment. This will ensure the treatment envelope remains intact and provides the best long-term protection.

If a paint system is to be applied after retreating, allow time for the remedial treatment to be absorbed into the timber and then follow the paint manufacturer's recommendations.

## Disposal

Domestic and trade users should dispose of offcuts and redundant pieces through normal waste collection services as residential or construction and demolition waste. Do not use for composting, mulching or animal bedding.

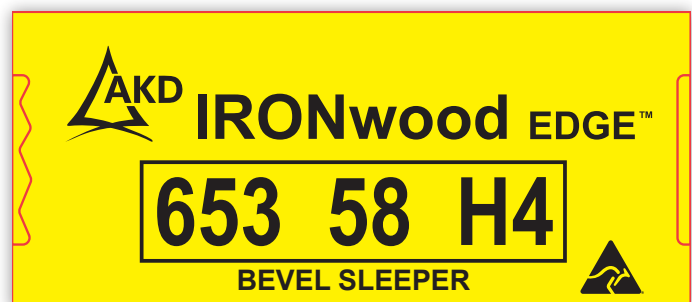
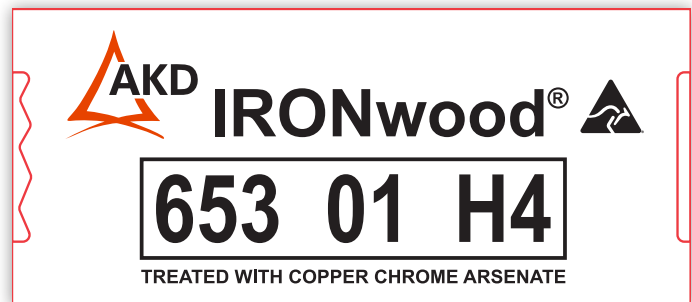
Do not burn as a means of disposal.

Contact your council to find out about the particular waste disposal and recycling services provided in your area.

## Identification

Every Ironwood sleeper is labelled with an end tag for easy identification, which includes our registered treatment brand on every tag. The tag contains the treatment plant number (ie 652, 653), preservative code (01, 58) and Hazard Class (H4). Preservative code 58 stands for Edge MicroPro treatment (Copper + tebuconazole) and Preservative code 01 stands for CCA treatment (CCA oxide type C) in the treatment end tag label below. The AKD treatment plants making Ironwood sleeper products are Yarram (652) and Gilmore (653).

For details on treatment plant registration please refer to [www.tpaa.com.au](http://www.tpaa.com.au)





## Care & Handling

The following safe handling and personal hygiene measures are recommended.

- Keep the work area clean. Do not allow wood dust to accumulate.
  - Avoid inhaling wood dust and wear a minimum P2 filter mask while power sawing, machining, sanding or any operation where wood dust is generated.
  - Protect the eyes while using power tools or any work where small particles may be ejected.
  - Brush or wash sawdust off skin and clothes.
  - Wash hands after work and before eating, drinking or smoking.
  - Wash wood dust contaminated work clothing and safety equipment before reuse.
  - DO NOT BURN treated timber off-cuts or waste pieces.
- Refer to Safety Data Sheet for full details [www.akd.com.au](http://www.akd.com.au)



Do not use treated pine shavings or sawdust for animal litter



Always wear dust masks, ear protection and goggles



Do not use treated pine to cook food



Always wear gloves when working with timber



Do not burn treated pine



Wash work clothes separately



Do not allow treated pine to come in contact with drinking water



Dispose of waste in an approved landfill



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### AKD QLD Sales

P: 1800 253 763

E: [sales.north@akd.com.au](mailto:sales.north@akd.com.au)

### AKD NSW Sales

P: 133 253

E: [sales.nsw@akd.com.au](mailto:sales.nsw@akd.com.au)

### AKD VIC & SA Sales

P: 03 5231 9111

E: [sales.vic@akd.com.au](mailto:sales.vic@akd.com.au)