



Privacy Steel Fence Product

Fence Specialties supplies Colorbond steel because of its performance, quality and durability

Durability	Manufactured in Australia to Australian Standards (AS1397 and AS/NZS 2728) and **tested in harsh Australian conditions over the last 50 years**
Ability to handle wind conditions	Underwent testing to **face challenging weather conditions, including wind**
Fire performance	Of the fencing materials tested in a bushfire study[1], COLORBOND steel **performed the best under all exposure conditions** (including full flame immersion for 30 min. to simulate worst case structural fire)
Range of color and design options	Able to **choose from a wide range of colors**, profiles, and designs – even customizing to your style with the ability to **match the color of traditional vinyl fence**

1. "Research and investigation into the performance of residential boundary fencing in bushfires" Bushfire CRC

Source: Colorbond

Durability: Five layers of protection offered

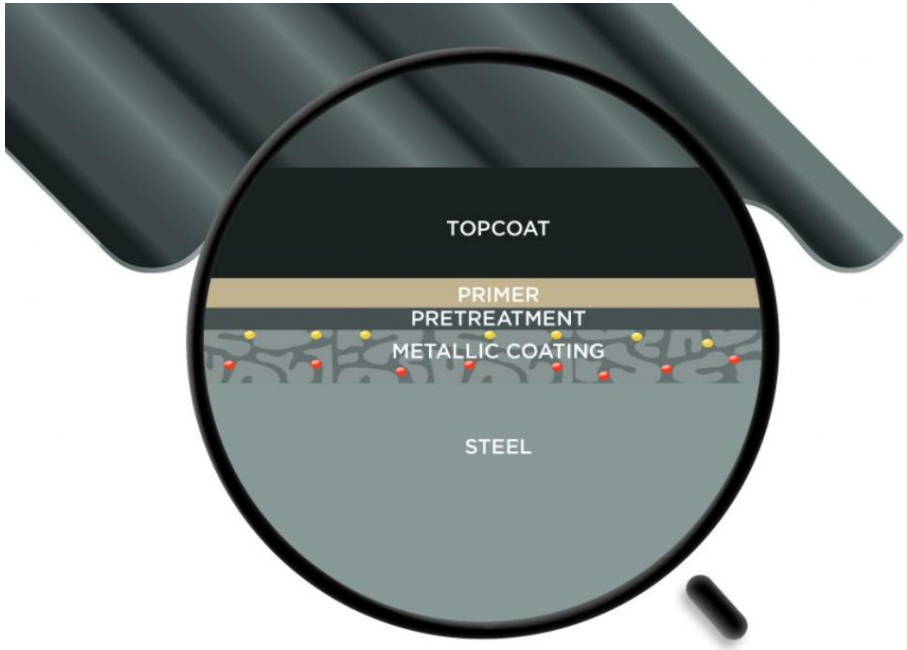
1. **The steel base** is manufactured to meet relevant Australian Standards, ensuring strict adherence to the required grade and strength

2. The base is then coated in Colorbond/BlueScope's industry leading **metallic coating**, to provide enhanced corrosion resistance

3. A thin **pretreatment layer** is applied to optimize the adhesion of further coatings

4. A **corrosion inhibitive primer** is baked onto the surface

5. A **topcoat** of specially developed, exterior grade paint is baked on to provide resistance to chipping, flaking and blistering and to ensure the finish retains its look for longer



Source: Colorbond

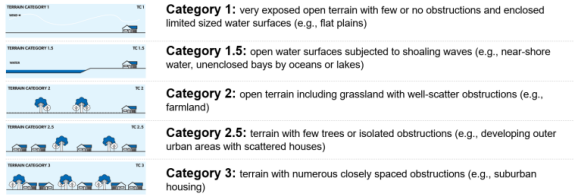
Ability to handle wind conditions: tested to handle wind conditions across a range of classifications

To determine wind classification, 4 factors are considered:

A) Wind Region: based on locations in Australia that range from normal conditions to severe tropical cyclones

REGION
A - Normal
B - Intermediate - 100kms
C - Tropical Cyclones - 50kms
D - Severe Tropical Cyclones

B) Terrain Category: surface roughness of the surrounding area from the housing site, such as very open exposed terrain (flat plains) to closely spaced (e.g., suburb)



Category 1: very exposed open terrain with few or no obstructions and enclosed limited sized water surfaces (e.g., flat plains)

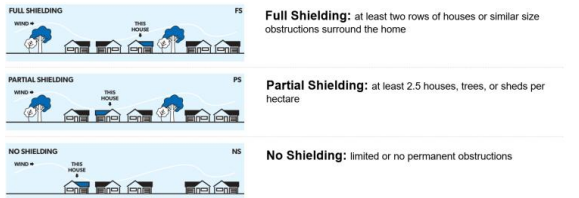
Category 1.5: open water surfaces subjected to shoaling waves (e.g., near-shore water, unenclosed bays by oceans or lakes)

Category 2: open terrain including grassland with well-scatter obstructions (e.g., farmland)

Category 2.5: terrain with few trees or isolated obstructions (e.g., developing outer urban areas with scattered houses)

Category 3: terrain with numerous closely spaced obstructions (e.g., suburban housing)

C) Shielding factor: shielding from other homes, trees, or large objects

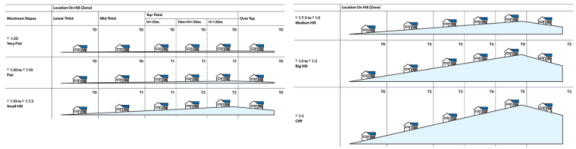


Full Shielding: at least two rows of houses or similar size obstructions surround the home

Partial Shielding: at least 2.5 houses, trees, or sheds per hectare

No Shielding: limited or no permanent obstructions

D) Topography: effect the wind has on the home due to its position on a hill or slope



Source: Lysaght, BlueScope Steel Wind Rating Publication

Fire performance: providing a fencing option in fire prone areas backed by external research

Co-operative Research Centre for Bushfire (Bushfire CRC) and CSIRO[1]'s research on the performance of residential boundary fencing in bushfires

- **"A steel fence offers greater protection to people's homes against bushfire** than other alternative materials because of its non-combustibility"
- **"Of the different materials tested, pre-painted and metallic coated sheet steel (in this case made from COLORBOND steel) performed best** under all exposure conditions and in particular when faced with a 30-minute flame immersion test used to stimulate potential effects of an adjacent house fire, which is common during bushfire events"

Used in bushfire prone areas in Australia, including in the most extreme, BAL-FZ (Bushfire Attack Level – Flame Zone) as defined in AS 3959:2018

1. Commonwealth Scientific and Industrial Research Organization, which is an Australian Government agency for scientific research and its commercial and industrial applications

Source: "Research and investigation into the performance of residential boundary fencing in bushfires" Bushfire CRC; Colorbond website

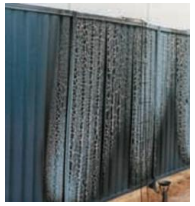
FS FENCE SPECIALTIES LLC

Fire performance: research revealed that Colorbond can play a role in defending homes against threat of fire

Background

Research was conducted by the Co-operative Research Centre for Bushfire (Bushfire CRC) and CSIRO[1] to influence planning around bushfire risk areas in Australia

Tested at the **NSW**[2] **Rural Fire Service Experimental Testing Site - believed to be the only bushfire simulator in the world** when the study was conducted



Results

Pre-painted and metallic coated sheet **steel fencing** (in this case made from **COLORBOND steel**) **performed best under all exposure conditions**

Even when faced with a **30-minute flame immersion test used to simulate potential effects of an adjacent house fire**

Level of Exposure Tested	Results for COLORBOND
Litter ignited Leaf litter placed typically on fence rails and around fence posts and ignited	**No structural failure** of fencing system
Litter ignited + Pre-radiation Typical of an advancing bushfire but with sufficient clearing to avoid direct flame contact	**No structural failure** of fencing system
Simulation of structural fire Full continuous flame immersion for 30 minutes to simulate the worst-case structural fire	**No structural failure** of fencing system

1. Commonwealth Scientific and Industrial Research Organization, which is an Australian Government agency for scientific research and its commercial and industrial applications
2. New South Wales – state on the east coast of Australia with high risk of fire

Source: "Research and investigation into the performance of residential boundary fencing in bushfires" Bushfire CRC

Fire performance: Colorbond and Class A Fireproof Fencing Standards

The National Fire Protection Association (NFPA) classifies fireproof materials into categories, with Class A being the highest rating for fire resistance. Below is how Colorbond aligns with these standards:

Non-Combustibility:

- Colorbond steel fencing has been tested for its ability to withstand extreme heat and direct flame contact

Fire Spread Resistance:

- The performance characteristics of Colorbond fencing, demonstrated in the CRC research, show that it effectively limits the spread of flames, adhering to the NFPA's requirements for materials that prevent fire from spreading to other structure
- Colorbond's design minimizes thermal conductivity, meaning it does not retain heat, further reducing the risk of fire propagation - this characteristic is crucial for maintaining safety in fire-prone areas

Compliance with Local Codes:

- In many fire-prone areas in the U.S., local building codes and regulations emphasize the need for Class A rated materials. Colorbond's performance in brushfire conditions positions it as a suitable choice for residential fencing in these regions

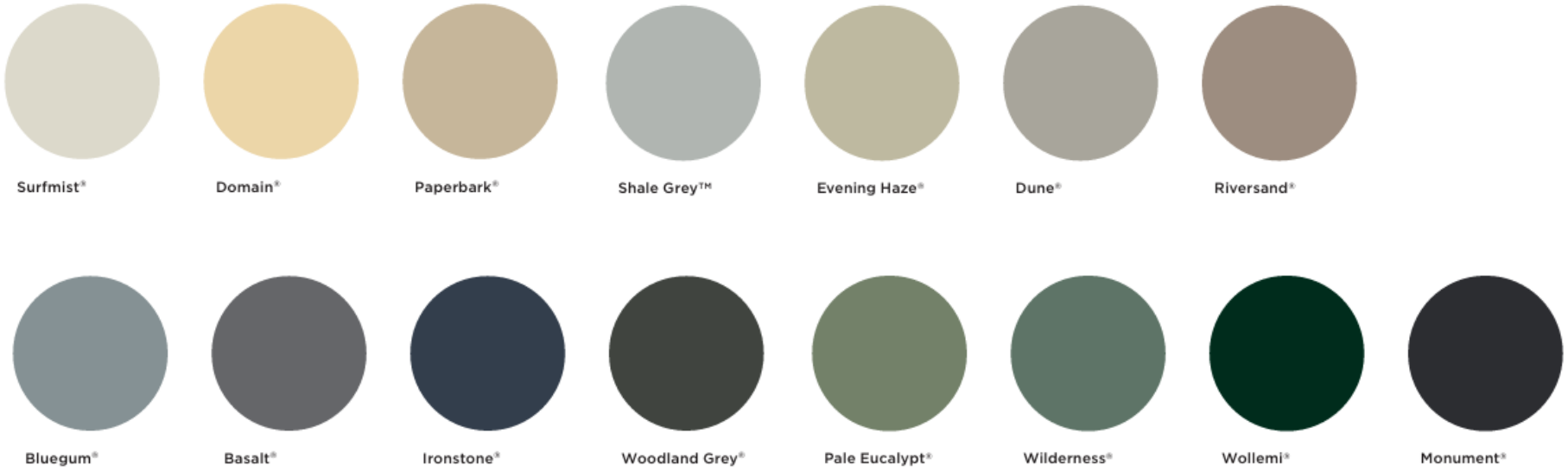
Fire Safety Benefits:

- Using Colorbond fencing can contribute to overall fire safety strategies for properties located in high-risk areas, enhancing the protective measures of residential boundaries against potential brushfire threats

Source: "Research and investigation into the performance of residential boundary fencing in bushfires" Bushfire CRC

Range of color and design options: including options to match the color of traditional vinyl fence

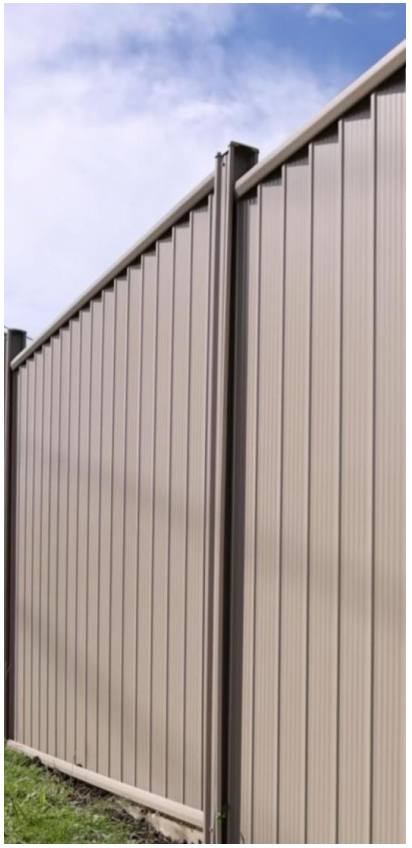
Featured Colorbond Steel Fence Colors – designed to reflect natural landscape



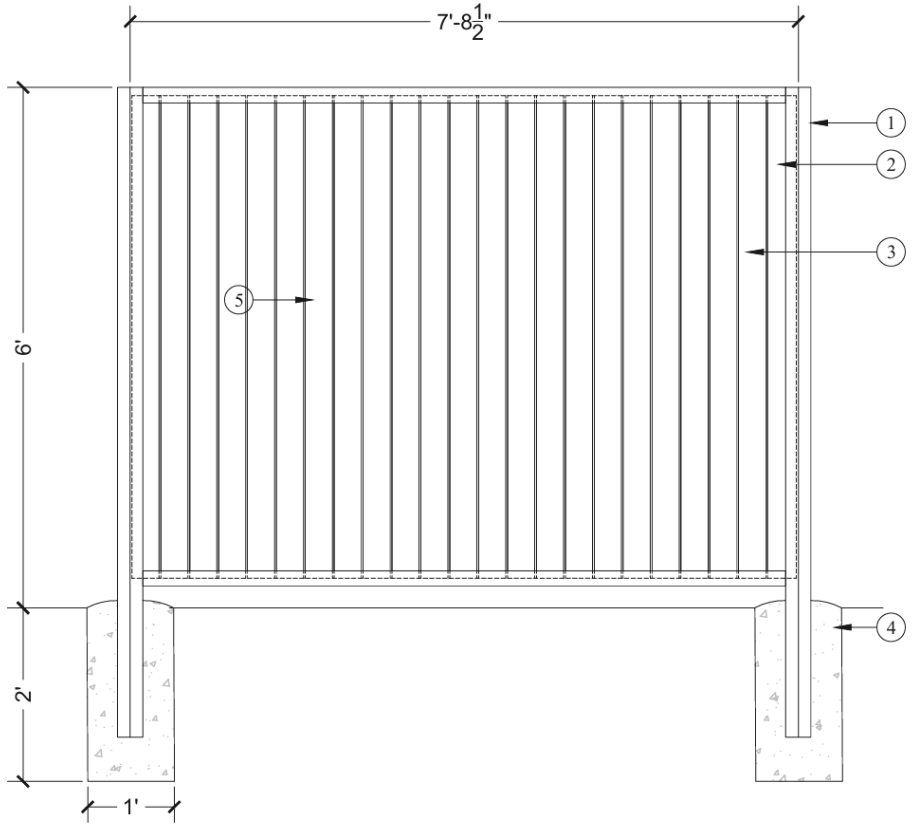
Source: Colorbond

Range of color and design options: example photos



Fence Plans



LEDGER

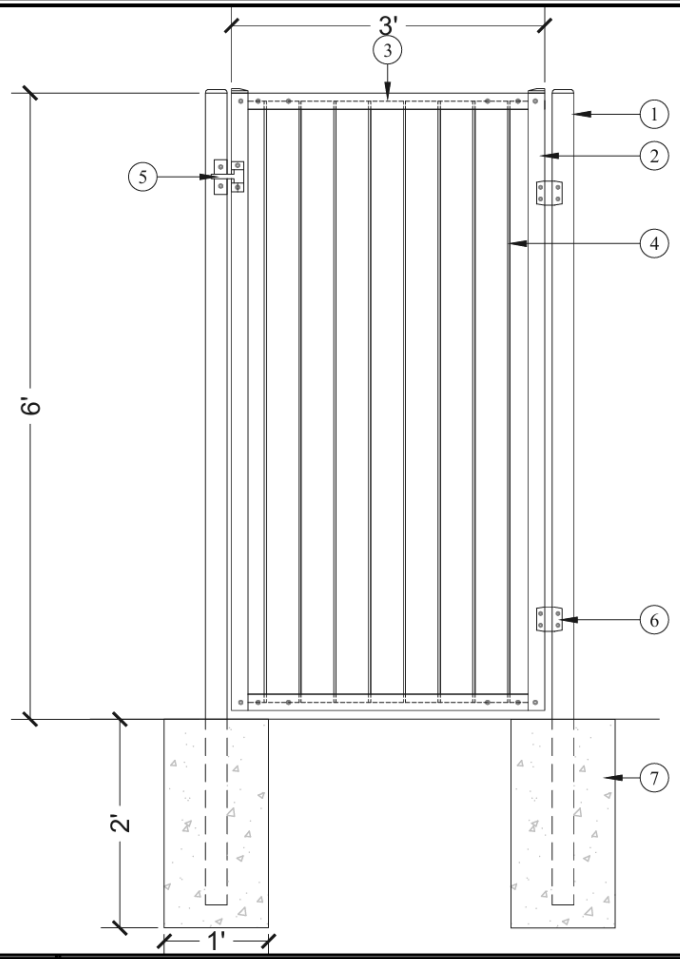
1. H.D. GATE POSTS W/ FENCE POSTS FOR GATE BODY
2. TOP & BOTTOM RAIL
3. INFILL SHEETS (3 PER PANEL)
4. CONCRETE FOOTING

NOTE:

A. COATING BY COLORBOND SEE (HTTPS://LYSAGHT.COM/FINISHES-COLOURS) FOR AVAILABLE COLORS

SCALE: NTS UNLESS NOTED	**Fence Specialties LLC**		RIVERSIDE OCEANSIDE SAN JOSE SACRAMENTO
DETAIL NO. **A(2)**	**www.fencespecialties.com**	**(800) 427-0882**	

Gate Plans



LEDGER

1. H.D. GATE POSTS W/ FENCE POSTS FOR GATE BODY
2. GATE FRAME
3. 1⅜" TOP & BOTTOM RAIL
4. INFILL SHEETS (3 PER PANEL)
5. D&D LOCK LATCH
6. D&D HINGES
7. 12" X 24" CONCRETE FOOTING

NOTE:

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SCALE: NTS UNLESS NOTED	**Fence Specialties LLC**		RIVERSIDE OCEANSIDE SAN JOSE SACRAMENTO
DETAIL NO. **A(1)**	**www.fencespecialties.com**	**(800) 427-0882**	