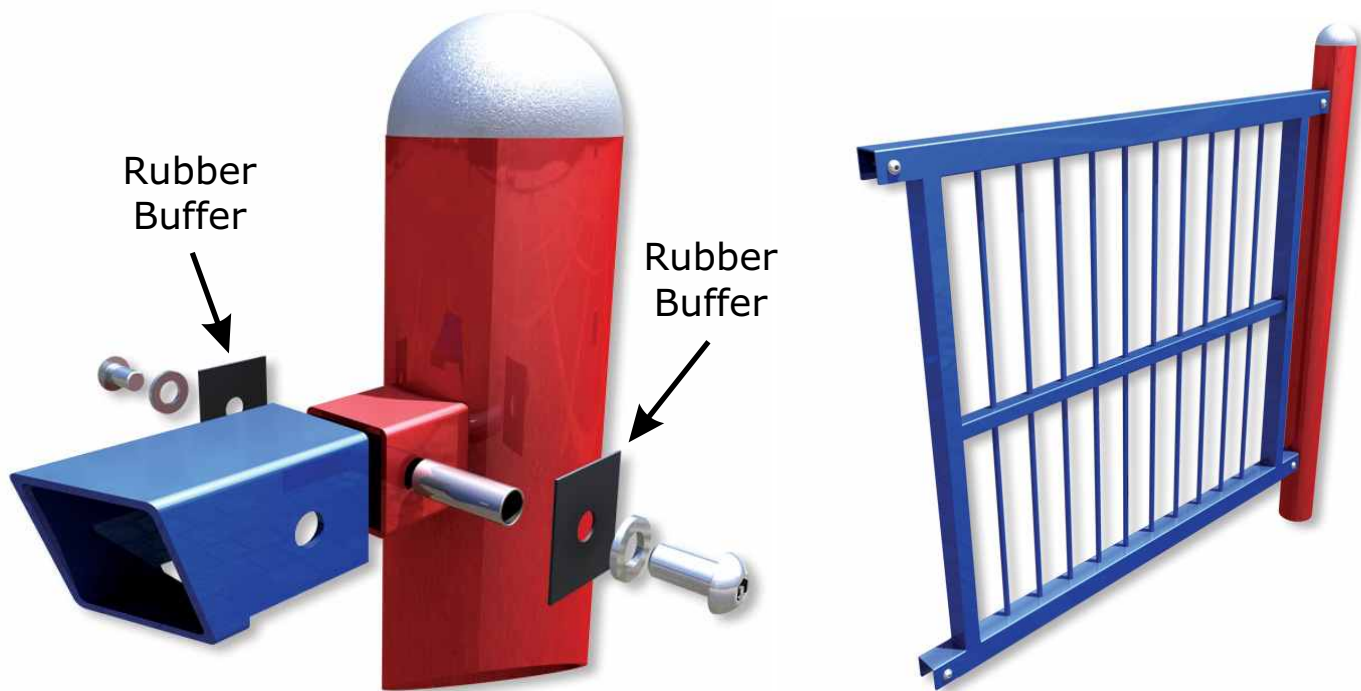


## Noise Reduction System (NRS)

For The Russell Leisure  
MS3000 and MS5000 Series Ball Courts.

The MS3000 and MS5000 Multi game areas are optimised for noise reduction.



Post and Panel Cross Section

Post and Panel Assembled

- Panels used are made of high quality 80x40mm Box Section Steel (MS 3000) and 50x50mm (MS5000) Box Section Steel. These Box Sections form rigid frames, in which solid Ø10mm bars are welded.
- Panels are fixed to sturdy posts with the Russell Leisure 'Tabtek' fixing system as illustrated above.
- Panels are held in place over the tabs by means of tube nuts which locate in the tabs
- Rubber Buffers are used to prevent the impact of steel on steel when of balls strike on the panels and posts. The Rubber Buffers are used on every Tab on the unit which reduces unwanted impact sounds.
- The solidity and weight of the posts and panels combined with the 'Tabtek' fixing system and Rubber Buffers minimize any resonance of the unit.

## Metro 5000 Series Ball Court Technical Specifications

### Standards

Certified to PAS 30, NFS 52-901 and EN 15312. TÜV has independently certified all products to these standards.

### Panels

Panels are constructed using 10mm vertical solid rods, which pass through and are welded to intermediate box sections of 30 x 30mm, which run horizontally. This complete section is welded into a main frame, which consists of 30 x 30mm vertical sections and 50 x 50mm horizontal sections. All of which have 2.5mm-wall thickness. All vertical solid rods are spaced 87mm apart.

### Panel Testing

Each panel has been subjected to the following: A 320kg applied horizontally to simulate user impact.

### Tabtek

Panels are connected to posts via our Tabtek system. This comprises a metal tab of 40 x 40 x 2.5mm welded to the post, over which fit the Ball Court panels. Panels are secured to tab by vandal resistant fixing bolts (see below). At each of the panel fixings there is a sound absorption rubber buffer, this helps to reduce impact stress and ball impact noise.

### Posts

All posts are manufactured using 88.9mm round tube with a wall thickness of 3mm.

### Post Caps

All posts are capped with a cast aluminium post cap.

### Goals

Goals are constructed using the same specification of post and panel as above. Back panels can include access points for ball retrieval. Basketball backboards are fixed directly onto the structure via a welded plate. All backboards made from High Density Polyethylene (HDPE).

### Surface Treatments

All metalwork is hot dip galvanized to BS EN ISO 1461 and 2178 and powder coated as a continuous process as standard to an approx. thickness of 150 microns. All hot dipped galvanized components are then powder coated to an approx. thickness of 150 microns.

### Fixing Bolts

All fixing bolts throughout the system are uniform and as such only require one tool for maintenance and / or installation. All fixing bolts comprise a special torx head, which requires a special tool making them vandal resistant.

### Tarmac Surfacing

We recommend a cross fall of 1 in 100 to allow for good drainage.

### Other Features

All right angles throughout the system have a minimum 4mm radius. Posts over 3m high are installed to a depth of 700mm. All other posts are installed to a depth of 600mm.

## Anti Corrosion Guarantee

### 20 Years Guarantee Corrosion Protection

Russell Leisure's Metro Sport products carry a 20 year guarantee against corrosion and structural failure. All equipment is manufactured using the highest quality materials and utilising the very latest technology. The use of laser-cutting and CNC tooling ensures consistency of product and the highest quality finish. For further information, please visit our website.

### Galvanized and Powder Coated as Standard

Russell Leisure offer a fully hot dip galvanized and powder coated finish for all our Metro Sport products as standard. All metalwork is hot dip galvanized to BS EN ISO 1461 and 2178 and powder coated as a continuous process.

Hot dip galvanizing is the most effective anti-corrosion protection system available for steel. Before galvanizing, all components are chemically treated to remove all paints, greases, varnishes, lacquers or other surface contaminants to ensure a resilient finish.

### Specifying your Ball Court

When specifying your ball court it is important to mention the accreditation and certification associated with the build quality of the 5000 Series system.

All metalwork is hot dip galvanized to BS EN ISO 1461 and 2178 and powder coated as a continuous process.

Metro Sport conforms to PAS 30, EN 15312, NFS 52-901:1998. TÜV has independently certified all products to these standards.

If you would like to know more about these processes, why not contact Russell Leisure to arrange a factory visit?

