Your guide to the symbols used in this brochure

The screwdriver symbol indicates the level of skill required to install a balustrade system, graded from 1 to 4
(1 = average DIY-er, 4 = skilled pro).

Installation method

Hardwood, Traditional and Contemporary systems

Classic systems

The price points throughout the brochure are a simple comparison, indicating the amount you could expect to pay per linear metre for balustrade.

Price points

£ £ £ £	Over £200
£ £ £	£151 – £200
£ £	£101 – £150
£	£50 – £100

Testing categories

RD — Raised level domestic settings
Designed to resist loadings of 0.74kN/m

GD — Ground level domestic settings
Designed to resist loadings of 0.36kN/m

The following products feature in this image:

Product code	Description
LD500	Aluminium Rail with Brackets
LD501	Hardwood Top Rails
LD502	Aluminium Newel Post
LD504	Acrylic Panel
LD506	Rail to Rail Bracket

Turn outdoor space into living space.

A dining room. A playroom. A sitting room. The outdoors is now more an extension of living space than ever. And with Richard Burbidge balustrade, you can turn plain patios into warm and welcoming places to relax and uneven ground into safe, enclosed play areas. You can even incorporate anything from a sand pit to a hot tub, to create a feature that looks equally attractive in winter or summer.

Rigorously tested to guarantee great performance

As you'd expect, reliability and safety are vitally important in a balustrade system – and to us as a company. That's why all our balustrade ranges are put through a series of rigorous tests by BM TRADA Certification Limited, the recognised authority in timber product testing. This means that they satisfy the necessary Building Regulations, as set out in the relevant British Standards.

As members of the Timber Decking Association (TDA) our balustrade ranges are audited every year to their strict standards. And because our products are performance rated to the British Standards it means they also carry the TDA's DeckMark Plus symbol: a true sign of quality assurance. Don't forget that in certain cases you may need planning permission for a balcony or deck construction. To be on the safe side, check with your local authority before starting any work.

DECKPLANNER™ makes it even easier

We may be a traditional family business, but that doesn't stop us using innovative technology to help you make it happen. Take DECKPLANNER™, our fantastic online tool that makes it simple to plan what balustrade you'll need for any outdoor area such as a deck or balcony. It calculates all the parts you need, and even prints out full parts lists and drawings. You'll find it on our website www.richardburbidge.com It's completely free and easy-to-use; but if you feel you need a little extra help, don't worry – just call us.

Looking after your deck

All Richard Burbidge softwood outdoor components are pressure treated with Osmose Naturewood or the new MicroPro® and MicroShades® wood treatments to make sure they last for years; but with the right care you'll be able to keep your deck in first-class condition.

Treated softwood should be cleaned twice a year by brushing off debris, pressure washing (or using a proprietary deck cleaner if necessary) and then applying a clear water-repellent treatment or coloured stain.

Hardwood is naturally durable and will weather to a silvery grey if left untreated. It's easy to maintain its colour and highlight the natural graining though, just by treating it with a decking oil twice a year.

You'll find more advice and tips on maintenance on our website.

Terminology

Baluster, spindle and panel
The vertical infill components that sit between the handrail and the baserail. May be wood, metal or glass.

Baserail
The rail that runs along the base of the balusters.

Handrail
The rail fixed to the tops of the balusters.

Newel
The larger posts at regular intervals and either end of a balustrade.

Building regulations and safety

A well-constructed deck and balustrade should be perfectly safe – and you can find complete instructions on our website www.richardburbidge.com Our outdoor balustrades fully meet the following specifications:

Ground level domestic settings: Designed to resist loadings of 0.36kN/m

Raised level domestic settings (decks 600mm or higher above ground level): Designed to resist loadings of 0.74kN/m

Building regulations also specify minimum handrail heights:

Ground level domestic settings: 900mm (stairs and horizontal balustrade)

Raised level domestic settings: 900mm (stairs), 1100mm (horizontal balustrade)

Our Traditional range can be summed up in one word: choice. It has no fewer than six different types of infill panel or spindle in wood, metal and glass; three different newels to choose from; and all topped off with a choice of two styles of rail. With so many options it's easy to create an individual style, rustic or sophisticated, bold or understated.

The following products feature in this image:

Product code	Description
LD200	Colonial Spindle
LD202/250	Colonial Newel
LD201C	Traditional Multi-purpose Rail
LD333	Twist Bracket

Traditional

Style setting

A revolution in wood protection and appearance.

Richard Burbidge Decking products are traditionally protected against fungal decay and insect attack by Osmose Naturewood® a leading preservative system. In 2011, Richard Burbidge are delighted to lead the UK decking and outdoor balustrade market by introducing an advanced range of products protected and enhanced by MicroPro® and MicroShades® technology. MicroPro Micronized Timber® provides proven protection and enhanced appearance for all outdoor living projects.

Osmose Naturewood

Richard Burbidge softwood outdoor balustrade and decking components are traditionally pressure treated with Osmose Naturewood to make sure they perform in exterior environments and last for years; with the right care you'll be able to keep your deck in first-class condition.

MicroPro and MicroShades – Revolutionary technologies

MicroPro and MicroShades technologies have been designed to protect and enhanced the appearance of modern timber products. The revolutionary technology offers consumers and designers across the world a new look and a new choice in preserved wood.

MicroPro and MicroShades technology offers many benefits including:

- A natural, fresh consistent look with a choice of options
- Improved corrosion protection for exterior fasteners and hardware.
- Greenguard® environmental accreditation.

MicroPro – Modern fresh appearance

MicroPro pressure treated wood is lighter in colour compared to current copper based treated timber products. The unique appearance differentiates the product in the marketplace. The attractive colour allows DIY enthusiasts and contractors to build with treated timber that appears lighter, fresher, and more natural in appearance.

MicroShades – Looks different because it is different

MicroPro pressure treated wood products are also available in an attractive Hardwood tone when produced in conjunction with the new MicroShades colour pigment system.

MicroShades has long-lasting colour that gets richer over time, and performs well beyond normal market expectations.

Looking after your deck

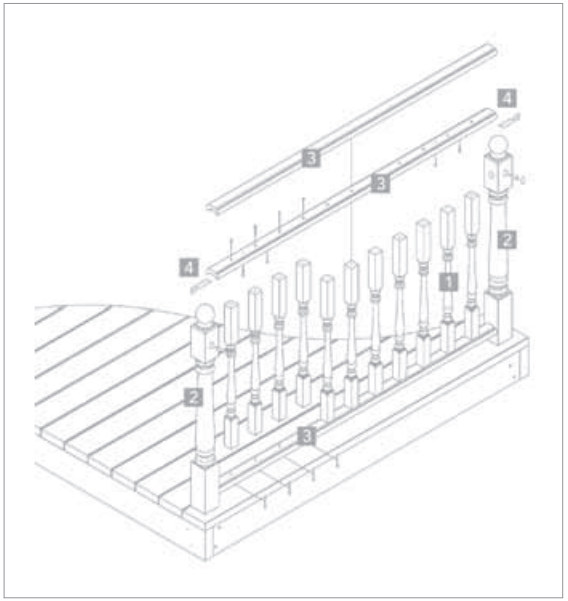
Treated softwood should be cleaned twice a year by brushing off debris, pressure washing (or using a proprietary deck cleaner if necessary) and then applying a clear water-repellent treatment or coloured stain.

Look for the icons, which show which decking ranges are available with which treatments.

European versions of micronized copper preservatives will be manufactured, using the proprietary Osmose MicroPro technology, under the control systems of ISO 14001, the recognised standard in Europe for environmental management.

Traditional colonial system – domestic ground level

The time honoured 'turned' spindle design, crafted in premium quality softwood to match the main balustrade components.



	Product code	Description
1	LD200	Colonial spindle
2	LD202/250	Colonial newel
3	LD201C	Traditional multi-purpose rail
4	LD333	Twist bracket

Note: LD265 – Large Traditional handrail with fillet and LD246 – Large Traditional baserail, can be used as an alternative to the LD201C Traditional multi-purpose rail.

Testing categories

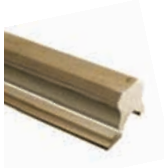
GD — Ground level domestic settings
Designed to resist loadings of 0.36kN/m

Price points

£ — £50 – £100

Treatment options





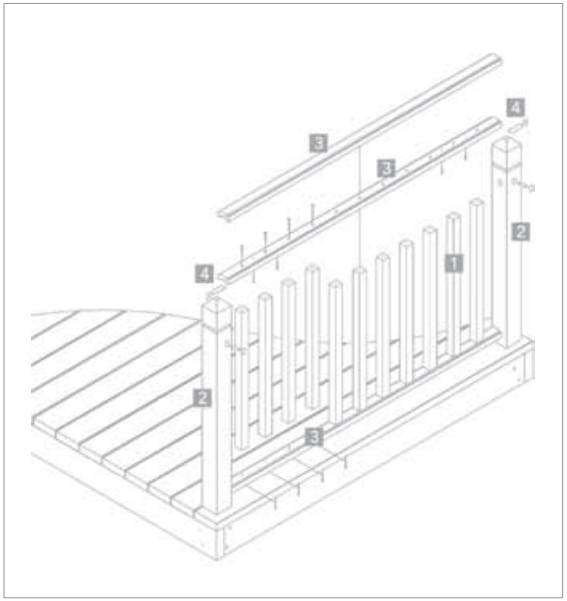


Description	Colonial spindle 41mm	Traditional multi-purpose rail	Large Traditional handrail with fillet	Large Traditional baserail	Colonial newel 82mm	1.5m Colonial newel* 82mm	Twist bracket c/w cover cap
Naturewood	LD200	LD201C	LD265	LD246	LD202	LD250	LD333
MicroPro®	LD3200	LD3201C	LD3265	LD3246	LD3202		LD333
MicroShades®	LD1200BC	LD1201C	LD1265	LD1246	LD1202BC		LD336
Size (mm)	900x41x41	1800x32x66	2400x68x68	2400x32x68	1195x82x82	1500x82x82	n/a
Pack qty	1	1	1	1	1	1	4
Carton qty							6

*Pressure treated to Class 3, not suitable for use in-ground contact.

Traditional square baluster system – domestic ground level

The uncomplicated geometric lines of the square components look simply beautiful in any setting.



	Product code	Description
1	LD252/226	Square baluster
2	LD207/209/251	Patrice newel
3	LD201C	Traditional multi-purpose rail
4	LD333	Twist bracket

Note: LD265 – Large Traditional handrail with fillet and LD246 – Large Traditional baserail, can be used as an alternative to the LD201C Traditional multi-purpose rail.

Testing categories

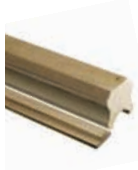
GD — Ground level domestic settings
Designed to resist loadings of 0.36kN/m

Price points

£ — £50 – £100

Treatment options



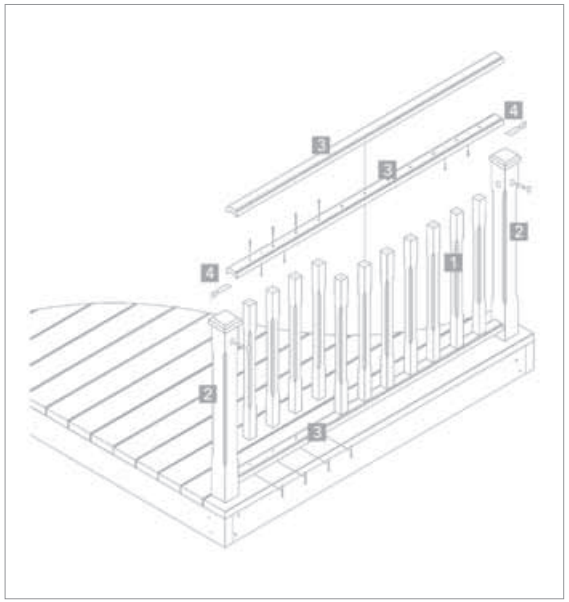



Description	Square baluster 32mm	Square baluster 41mm	Traditional multi-purpose rail	Large Traditional handrail with fillet	Large Traditional baserail	Patrice newel 75mm	Patrice newel 82mm	1.5m Patrice newel* 82mm	Twist bracket c/w cover cap
Naturewood	LD252	LD226	LD201C	LD265	LD246	LD207	LD209	LD251	LD333
MicroPro®		LD3226	LD3201C	LD3265	LD3246		LD3209		LD333
MicroShades®		LD1226	LD1201C	LD1265	LD1246		LD1209		LD336
Size (mm)	900x32x32	900x41x41	1800x32x66	2400x68x68	2400x32x68	1195x75x75	1195x82x82	1500x82x82	n/a
Pack qty	1	1	1	1	1	1	1	1	4
Carton qty									6

*Pressure treated to Class 3, not suitable for use in-ground contact.

Traditional stop chamfered system – domestic ground level

A well-loved style, with the chamfered edges catching the light for added visual interest.



	Product code	Description
1	LD248	Stop chamfered baluster
2	LD249	Stop chamfered newel with LD204 Patrice newel cap
3	LD201C	Traditional multi-purpose rail
4	LD333	Twist bracket

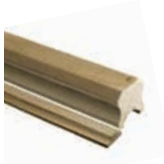
Testing categories

GD — Ground level domestic settings
Designed to resist loadings of 0.36kN/m

Price points

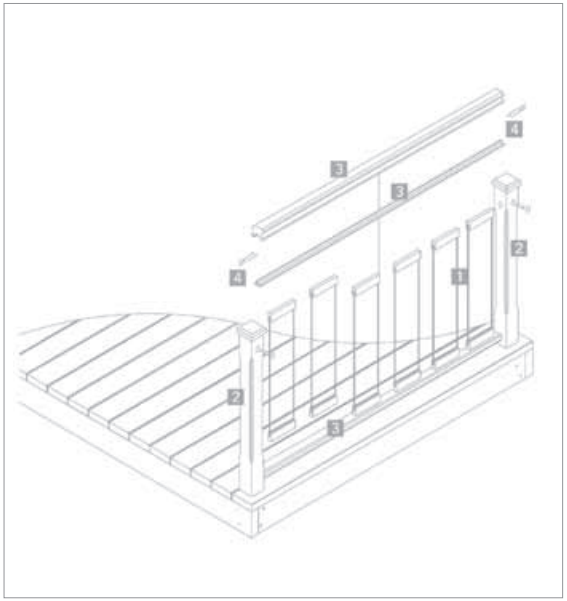
£ — £50 – £100

Treatment options

							
Description	Stop chamfered baluster	Traditional multi-purpose rail	Large Traditional handrail with fillet	Large Traditional baserail	Stop chamfered newel 82mm	Patrice cap	Twist bracket c/w cover cap
Naturewood	LD248	LD201C	LD265	LD246	LD249	LD204	LD333
MicroPro®	LD3248	LD3201C	LD3265	LD3246	LD3249	LD3204	LD333
MicroShades®	LD1248BC	LD1201C	LD1265	LD1246	LD1249BC	LD1204BC	LD336
Size (mm)	900x41x41	1800x32x66	2400x68x68	2400x32x68	1195x82x82	100x100	n/a
Pack qty	1	1	1	1	1	1	4
Carton qty							6

Traditional glass panel system – domestic ground level

The latest addition to our Traditional Collection, glass panels offer all the necessary protection and safety without obscuring the view – excellent for ground level decks.



	Product code	Description
1	LD256 & LD256Pack	Ground and raised level glass panels with brackets
2	LD249	Ground and raised level stop chamfered newel with LD204 Patrice newel cap
3	LD265	Large Traditional handrail with fillet and LD246 – Large Traditional baserail
4	LD333	Twist bracket

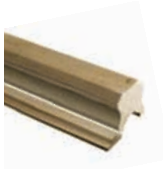
Testing categories

GD – Ground level domestic settings
Designed to resist loadings of 0.36kN/m

Price points

£ £ £ £151 – £200

Treatment options

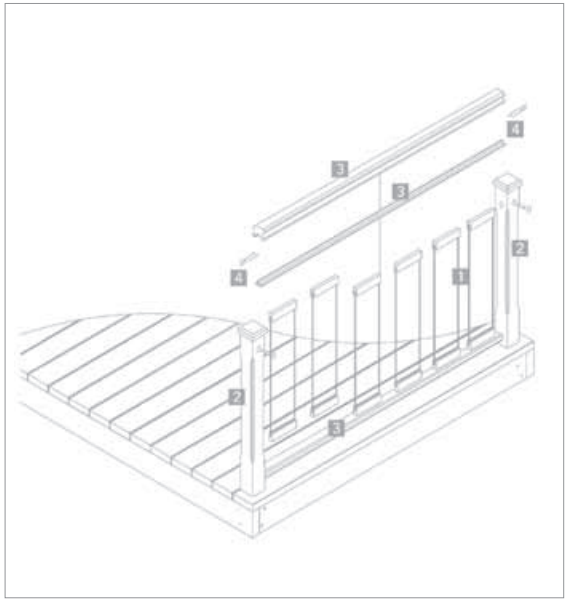





Description	Glass panel with brackets	Glass panel with brackets (pack)	Large Traditional handrail with fillet	Large Traditional baserail	Stop chamfered newel 82mm	Patrice cap	Twist bracket c/w cover cap
Naturewood	LD256	LD256 Pack	LD265	LD246	LD249	LD204	LD333
MicroPro®			LD3265	LD3246	LD3249	LD3204	LD333
MicroShades®			LD1265	LD1246	LD1249BC	LD1204BC	LD336
Size (mm)	676x150x8	676x150x8	2400x68x68	2400x32x68	1195x82x82	100x100	n/a
Pack qty	1	4	1	1	1	1	4
Carton qty							6

Traditional glass panel system – domestic raised level

On raised decks glass panels are an excellent choice, making the most of the wider view while also providing a safe and secure barrier.



	Product code	Description
1	LD258 & LD258 Pack	Ground and raised level glass panels with brackets
2	LD257	Ground and raised level stop chamfered newel with LD204 Patrice newel cap
3	LD265	Large Traditional handrail with fillet and LD246 – Large Traditional baserail
4	LD333	Twist bracket

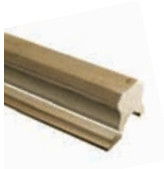
Testing categories

RD — Raised level domestic settings Designed to resist loadings of 0.74kN/m

Price points

£ £ £ £151 – £200

Treatment options

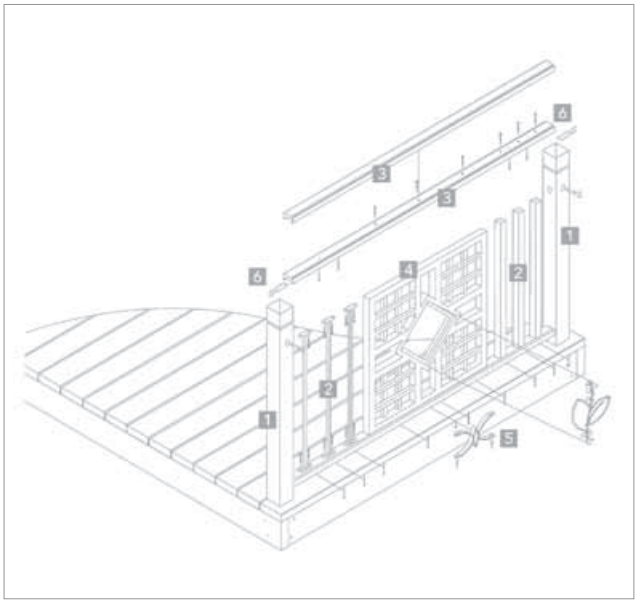





Description	Glass panel with brackets	Glass panel with brackets (pack)	Large Traditional handrail with fillet	Large Traditional baserail	Stop chamfered newel 82mm	Patrice cap	Twist bracket c/w cover cap
Naturewood	LD258	LD258 Pack	LD265	LD246	LD257	LD204	LD333
MicroPro®							
MicroShades®							
Size (mm)	876x150x8	876x150x8	2400x68x68	2400x32x68	1375x82x82	100x100	n/a
Pack qty	1	4	1	1	1	1	4
Carton qty							6

Traditional timber panel system – domestic ground level

Combined with metal or timber balusters, our four timber panel designs add real character to any balustrade and are surprisingly quick and easy to fit.



	Product code	Description
1	LD202/250/209/251	Colonial or Patrice newel
2	*	Timber or metal balusters
3	LD201C	Traditional multi-purpose rail
4	LD211/212/228/229	Timber panels
5	LC244	Baserail support bracket
6	LD333	Twist bracket

Note: LD265 – Large Traditional handrail with fillet and LD246 – Large Traditional baserail, can be used as an alternative to the LD201C Traditional multi-purpose rail.

*Any timber or metal baluster within the Traditional range can be used.

Testing categories

GD

Ground level domestic settings
Designed to resist loadings of 0.36kN/m

Price points

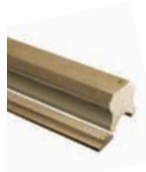
£

£50 – £100

Treatment options

Traditional

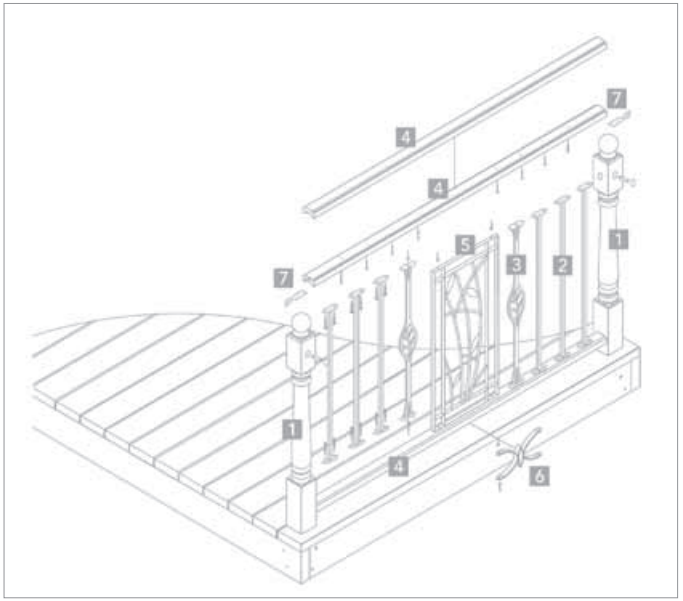
				
Description	Sunburst	Cross hatch	Random wave	Diamond with leaf & berry infill
Naturewood	LD211	LD212	LD228	LD229
MicroPro®				
MicroShades®				
Size (mm)	1130x760x36	130x760x36	1130x760x36	760x760x36
Pack qty	1	1	1	1
Carton qty				

									
Description	Traditional multi-purpose rail	Large Traditional handrail with fillet	Large Traditional baserail	Colonial newel 82mm	1.5m Colonial newel* 82mm	Patrice newel 82mm	1.5m Patrice newel* 82mm	Twist bracket c/w cover cap	Base rail support bracket
Naturewood	LD201C	LD265	LD246	LD202	LD250	LD209	LD251	LD333	LD244
MicroPro®									
MicroShades®									
Size (mm)	1800x32x66	2400x68x68	2400x32x68	1195x82x82	1500x82x82	1195x82x82	1500x82x82	n/a	182x89x15
Pack qty	1	1	1	1	1	1	1	4	1
Carton qty								6	6

*Pressure treated to Class 3, not suitable for use in-ground contact.

Traditional metal baluster & panel system – domestic ground level

The perfect match for wrought iron furniture or cast iron chimeneas, our steel balusters in a beautiful bronze hammered paint finish come in five styles.



	Product code	Description
1	LD202/250/209/251	Colonial or Patrice newel
2 3 5		Metal balusters and panels
4	LD201C	Traditional multi-purpose rail
6	LC244	Baserail support bracket
7	LD333	Twist bracket

Note: LD265 – Large Traditional handrail with fillet and LD246 – Large Traditional baserail, can be used as an alternative to the LD201C Traditional multi-purpose rail.

Testing categories

GD

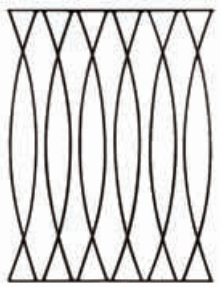
Ground level domestic settings
Designed to resist loadings of 0.36kN/m

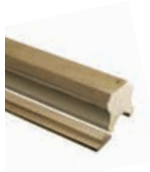
Price points

£ £ £101 – £150

Treatment options

Traditional

					
Description	Straight metal baluster	Twist metal baluster	Contemporary metal baluster	Willow metal panel	Classic metal panel
Product code	**LD237**	**LD238**	**LD239**	**LD240**	**LD241**
Size (mm)	769x12x12	769x12x12	769x80(max)x9	769x350x15	769x580x18
Pack qty	1	1	1	1	1
Carton qty					

									
Description	Traditional multi-purpose rail	Large Traditional handrail with fillet	Large Traditional baserail	Colonial newel 82mm	1.5m Colonial newel* 82mm	Patrice newel 82mm	1.5m Patrice newel* 82mm	Twist bracket c/w cover cap	Base rail support bracket
Product code	**LD201C**	**LD265**	**LD246**	**LD202**	**LD250**	**LD209**	**LD251**	**LD333**	**LD244**
Size (mm)	1800x32x66	2400x68x68	2400x32x68	1195x82x82	1500x82x82	1195x82x82	1500x82x82	n/a	182x89x15
Pack qty	1	1	1	1	1	1	1	4	1
Carton qty								6	6

*Pressure treated to Class 3, not suitable for use in-ground contact.

Straightforward, down-to-earth, uncomplicated. Sometimes keeping things simple is best. Such as our Classic range.

The following products feature in this image:

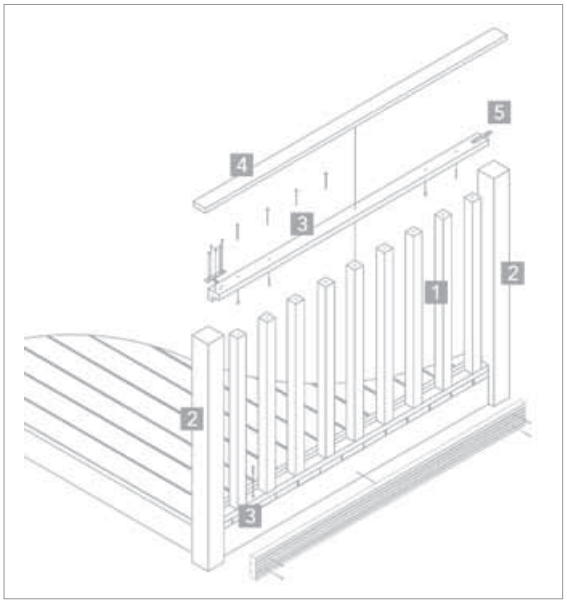
Product code	Description
LD205/LD955/LD950	American Baluster
LD207/209/25	Patrice Newel
LD206	American Rail
LD309	Balustrade Bolt
LD311	Cover Cap

Classic

Simply stylish

Classic square baluster system – domestic ground level

Strong and angular, this design gives an impressive, well-built feel to any setting.



	Product code	Description
1	LD252/226	Square baluster
2	LD224	Square newel
3	LD259	L rail
4	LD220	Capping rail
5	LD330	Fixing strap

Testing categories

GD — Ground level domestic settings
Designed to resist loadings of 0.36kN/m

Price points

£ — £50 – £100

Treatment options

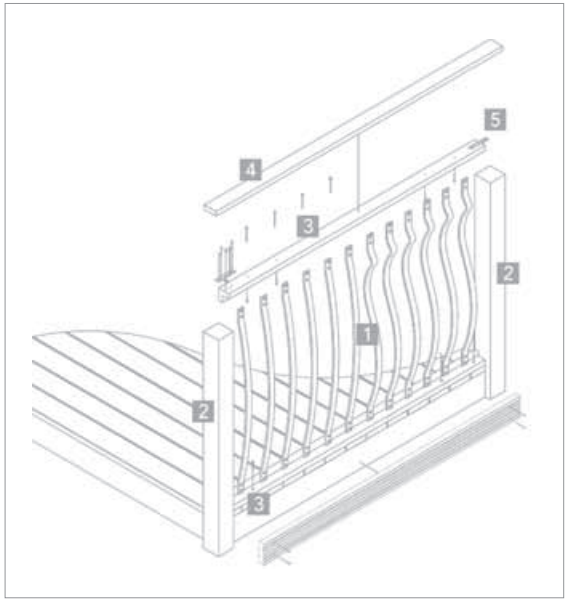





Description	Square baluster 32mm	Square baluster 41mm	L rail	Flat capping rail	Square newel	Fixing strap
Naturewood	LD252	LD226	LD259	LD220	LD224	LD330
MicroPro®		LD3226	LD3259	LD3220	LD3224	
MicroShades®		LD1226	LD1259	LD1220	LD1224	
Size	900x32x32	900x41x41	2400x58x68	2400x27x115	1375x82x82	n/a
Pack qty	1	1	1	1	1	4
Carton qty						6

Classic metal baluster system – domestic ground level

The gently curving Abbey balusters create a graceful border and the Victorian design is ideal for bringing a touch of class to any garden.



	Product code	Description
1	LD260/LD261	Victorian and Abbey metal balusters
2	LD224	Square newel
3	LD259	L rail
4	LD220	Capping rail
5	LD330	Fixing strap

Testing categories

GD — Ground level domestic settings
Designed to resist loadings of 0.36kN/m

Price points

£ — £50 – £100

Treatment options

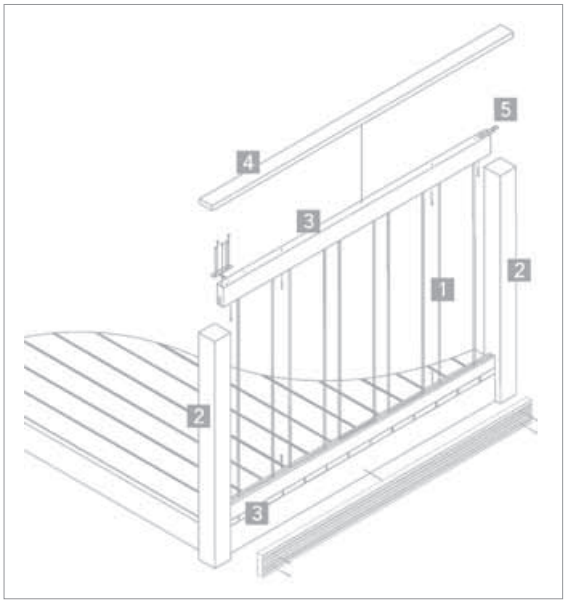





Description	Metal Victorian baluster	Metal Abbey baluster	L rail	Flat capping rail	Square newel	Fixing strap
Naturewood	LD260	LD261	LD259	LD220	LD224	LD330
MicroPro®			LD3259	LD3220	LD3224	
MicroShades®			LD1259	LD1220	LD1224	
Size	820x26x6	820x26x6	2400x58x68	2400x27x115	1375x82x82	n/a
Pack qty	5	5	1	1	1	4
Carton qty						6

Classic glass panel system – domestic ground level

Adding contemporary style, our glass panels keep the whole effect light and are ideal for retaining a view.



	Product code	Description
1	LD262/LD262Pack	Glass panel
2	LD224	Square newel
3	LD263	Glass panel carrying rail with fillet
4	LD220	Capping rail
5	LD330	Fixing strap

Testing categories

GD — Ground level domestic settings
Designed to resist loadings of 0.36kN/m

Price points

£ — £50 – £100

Treatment options

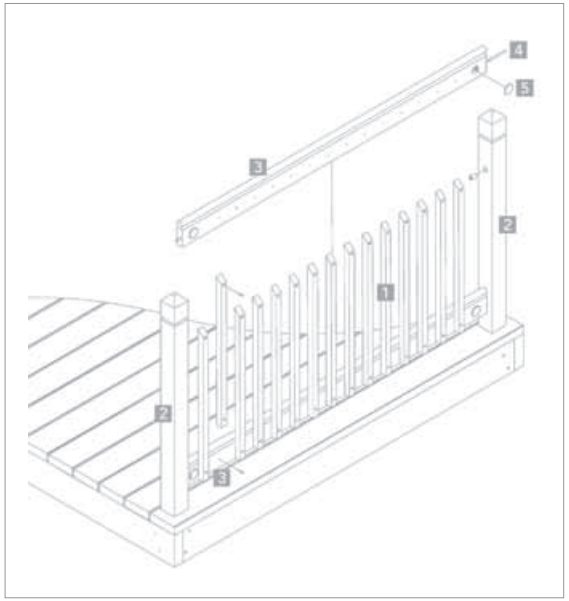




Description	Flat capping rail	Square newel	Glass panel	Glass panel (pack)	Glass panel carrying rail	Fixing strap
Naturewood	LD220	LD224	LD262	LD262 Pack	LD263	LD330
MicroPro®	LD3220	LD3224			LD3263	
MicroShades®	LD1220	LD1224			LD1263	
Size	2400x27x115	1375x82x82	876x150x8	876x150x8	2400x68x40	n/a
Pack qty	1	1	1	4	1	4
Carton qty						6

Classic American system – domestic ground level

The balusters are side fixed, creating a different look from either side. So it has twice the appeal, you could say.



	Product code	Description
1	LD207/LD955/LD950	American baluster
2	LD207/209/25	Patrice newel
3	LD206	American rail
4	LD309	Balustrade bolt
5	LD311	Cover cap

Testing categories

GD — Ground level domestic settings
Designed to resist loadings of 0.36kN/m

Price points

£ — £50 – £100

Treatment options

Description	American baluster 27mm	American baluster (raked both ends) 27mm	American baluster (raked both ends) 32mm	American rail	Patrice newel 75mm	Patrice newel 82mm	1.5m Patrice newel* 82mm	Balustrade bolt	Cover cap
Naturewood	LD205	LD955	LD950	LD206	LD207	LD209	LD251	LD309	LD311
MicroPro®	LD3205			LD3206		LD3209			
MicroShades®	LD1205			LD1206		LD1209			
Size	900x27X27	900x27X27	900x32X32	1800x27x120	1195x75x75	1195x82x82	1500x82x82	n/a	n/a
Pack qty	1	1	1	1	1	1	1	4	4
Carton qty								4	4

*Pressure treated to Class 3, not suitable for use in-ground contact.

For the expensive look of an architect-designed garden feature, choose our Contemporary Fusion range. It's a unique and innovative system that brings together an exciting mix of materials and designs to create a simply stunning balustrade for any deck. With options for both ground and raised level situations, it's particularly well-suited to creating a striking balcony, too.

The following products feature in this image:

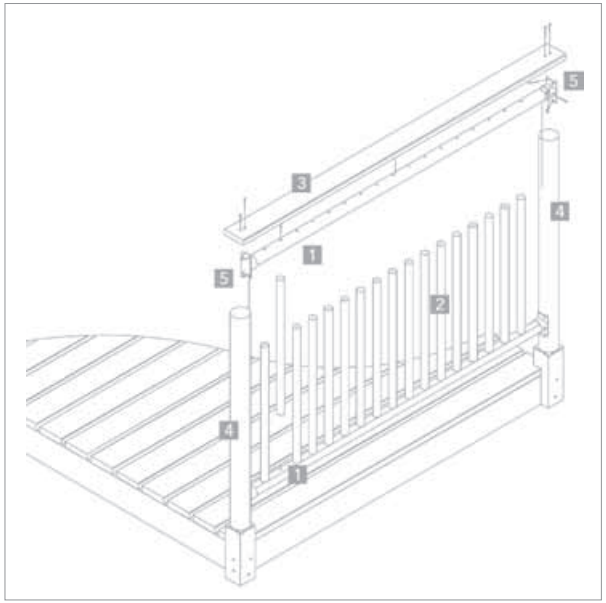
Product code	Description
LD500	Aluminium Rail with Brackets
LD501	Hardwood Top Rails
LD502	Aluminium Newel Post
LD504	Acrylic Panel
LD506	Rail to Rail Bracket

Contemporary

A modern outlook

Contemporary round spindle system – domestic ground or raised level

Rounded newels and rails give it a smooth, sleek style, while the curved metal brackets make it simple to fit. You can choose the subtle colour and beauty of softwood, or the rich luxurious feel of hardwood.



Hardwood

	Product code	Description
1	LD561	Round rail
2	LD560	Round spindle
3	LD563	Capping rail
4	LD562	Round newel
5	LD559 LD558	Rail to newel bracket - landing Rail to newel bracket - rake

Softwood

	Product code	Description
1	LD218	Round rail
2	LD227	Round spindle
3	LD220	Capping rail
4	LD223	Round newel
5	LD559 LD558	Rail to newel bracket - landing Rail to newel bracket - rake

Testing categories

RD — Raised level domestic settings
Designed to resist loadings of 0.74kN/m

GD — Ground level domestic settings
Designed to resist loadings of 0.36kN/m

Price points

£ £ £101 – £150 – Hardwood

£ £50 – £100 – Softwood

Treatment type (softwood only)

Contemporary

Hardwood

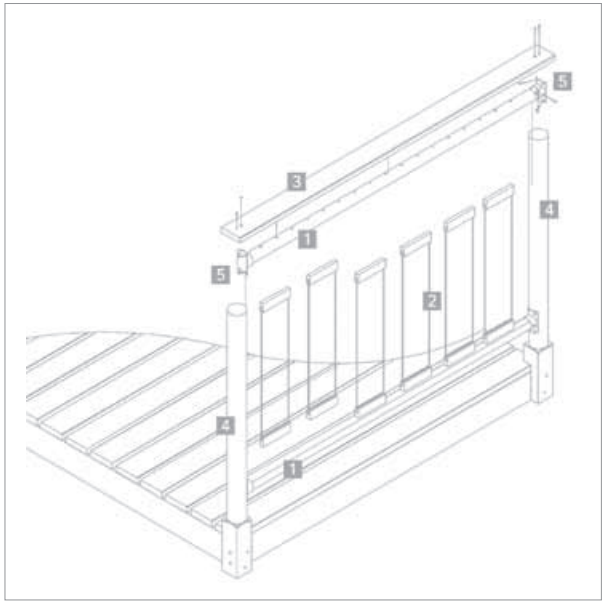
						
Description	Hardwood round spindle	Hardwood round rail	Hardwood capping rail	Hardwood round newel	Rail to newel bracket – rake (2)	Rail to newel bracket – landing (2)
Product code	**LD560**	**LD561**	**LD563**	**LD562**	**LD558**	**LD559**
Size	900x Ø35	1800x Ø54	1800x27x115	1375x90x90	n/a	n/a
Pack qty	1	1	1	1	2	2
Carton qty						

Softwood

						
Description	Softwood round spindle	Softwood round rail	Softwood capping rail	Softwood round newel	Rail to newel bracket – rake (2)	Rail to newel bracket – landing (2)
Product code	**LD227**	**LD218**	**LD220**	**LD223**	**LD558**	**LD559**
Size	900x Ø35	2200x Ø54	2400x27x115	1375x90x90	n/a	n/a
Pack qty	1	1	1	1	2	2
Carton qty						

Contemporary glass panel system – domestic ground or raised level

Simple, minimalist design meets traditional materials, like hardwood, softwood and glass; our new Contemporary Glass Panel range is ideal for adding character to contemporary architecture, or a modern feel to an older home.



Hardwood

	Product code	Description
1	LD561	Round rail
2	LD258/LD258Pack	Glass panel with brackets
3	LD563	Capping rail
4	LD562	90mm Round newel
5	LD559	Rail to newel bracket

Softwood

	Product code	Description
1	LD218	Round rail
2	LD258/LD258Pack	Glass panel with brackets
3	LD220	Capping rail
4	LD223	90mm Round newel
5	LD559	Rail to newel bracket

Testing categories

RD — Raised level domestic settings
Designed to resist loadings of 0.74kN/m

GD — Ground level domestic settings
Designed to resist loadings of 0.36kN/m

Price points

£ £ £ £ over £200

Treatment type (softwood only)

Contemporary

Hardwood





Description	Glass panel with brackets	Glass panel with brackets (Pack)	Hardwood round rail	Hardwood capping rail	Hardwood round newel	Rail to newel bracket – landing (2)
Product code	**LD258**	**LD258 Pack**	**LD561**	**LD563**	**LD562**	**LD559**
Size	876x150x8	876x150x8	1800xØ54	1800x27x115	1375x90x90	n/a
Pack qty	1	4	1	1	1	2
Carton qty						

Softwood

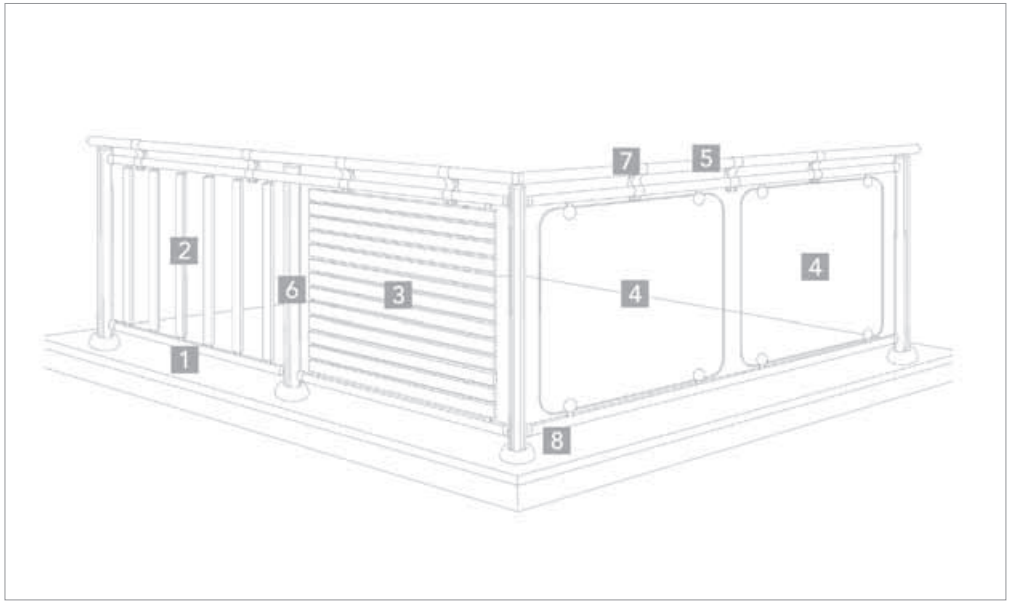




Description	Glass panel with brackets	Glass panel with brackets (Pack)	Softwood round rail	Softwood capping rail	Softwood round newel	Rail to newel bracket – landing (2)
Product code	**LD258**	**LD258 Pack**	**LD218**	**LD220**	**LD223**	**LD559**
Size	876x150x8	876x150x8	2200xØ54	2400x27x115	1375x90x90	n/a
Pack qty	1	4	1	1	1	2
Carton qty						

Contemporary FUSION® system – domestic ground level

Choose vertical timber balusters for an uncluttered, slightly more conventional look; clear acrylic with a beautiful, unobstructed view; or slatted timber panels for a more textured, subtly different effect.



	Product code	Description
1	LD500	Aluminium rail with brackets
2	LD503/LD503Pack	Hardwood baluster
3	LD505	Hardwood slatted panel
4	LD504	Acrylic panel
5	LD501	Hardwood top rail
6	LD502	Aluminium newel
7	LD506	Rail to rail bracket
8	LD507	Rail to newel bracket

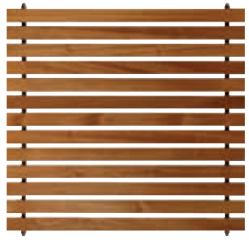
Testing categories

GD — Ground level domestic settings
Designed to resist loadings of 0.36kN/m

Price points

£ £ £ £ over £200

Contemporary

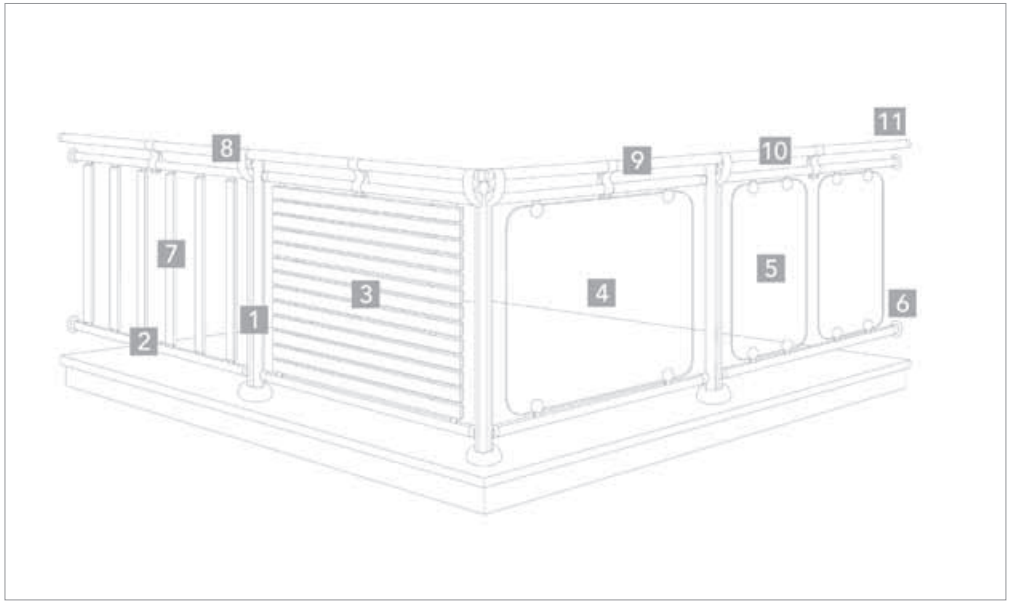
		
Description	Acrylic panel[3]	Hardwood slatted panel[3]
Product code	**LD504**	**LD505**
Size	750x800x6	750x800x21
Pack qty	1	1
Carton qty		

							
Description	Hardwood baluster[3]	13 Hardwood balusters[3]	Aluminium rail[1]	Hardwood top rail	Aluminium newel[2]	Rail to rail bracket	Rail to newel brackets
Product code	**LD503**	**LD503 Pack**	**LD500**	**LD501**	**LD502**	**LD506**	**LD507**
Size	750x46x21	750x46x21	1800xØ46	2020xØ46	1000xØ80	n/a	n/a
Pack qty	1	13	1	1	1	1	2
Carton qty							

[1]Supplied with rail-to-newel brackets and plastic infill strip.
[2]Supplied with newel cap, base plate and plastic infill strip.
[3]Supplied with baluster/panel brackets.

Contemporary FUSION® system – domestic raised level

For the expensive look of an architect-designed garden feature, choose our Contemporary Fusion range. It's a unique and innovative system that brings together an exciting mix of materials and designs to create a simply stunning balustrade for any deck. With options for both ground and raised level situations, it's particularly well-suited to creating a striking balcony, too.



	Product code	Description
1	LD575	Aluminium newel
2	LD578	Aluminium rail
3	LD580	Hardwood slatted panel
4	LD579	Large glass panel
5	LD584	Small glass panel
6	LD582	Aluminium rail to wall bracket
7	LC581	Hardwood baluster
8	LD577	Newel to timber rail support bracket
9	LD576	Rail to rail bracket
10	LD585	Hardwood rail
11	LD583	End cap for hardwood top rail

Testing categories

RD — Raised level domestic settings
Designed to resist loadings of 0.74kN/m

Price points

£ £ £ £ over £200

Contemporary

			
Description	Glass panel[1]	Small glass panel[1]	Hardwood slatted panel[1]
Product code	**LD579**	**LD584**	**LD580**
Size	800x750x8	350x750x8	800x750x21
Pack qty	1	1	1
Carton qty			

								
Description	Hardwood baluster[1]	Aluminium rail[3]	Hardwood top rail	Aluminium newel post[2]	Rail to rail bracket	Rail to wall bracket	End cap for timber rail	Newel to timber rail support bracket
Product code	**LD581**	**LD578**	**LD585**	**LD575**	**LD576**	**LD582**	**LD583**	**LD577**
Size	46x750x21	900xØ46	2200xØ46	1000xØ80	n/a	n/a	n/a	n/a
Pack qty	6	1	1	1	1	2	2	1
Carton qty								

[1]Supplied with baluster/panel brackets.
[2]Supplied with base plate fixing, top hat, threaded bar, infill strip, top cap and bottom cowling plus fixing instructions.
[3]Supplied with rail-to-newel brackets and plastic infill strip.

Rich, warm tones. Natural, close grain. It's hard to resist the charms of hardwood. Particularly outdoors. It feels luxurious and looks superb. It's even easy to maintain.

The following products feature in this image:

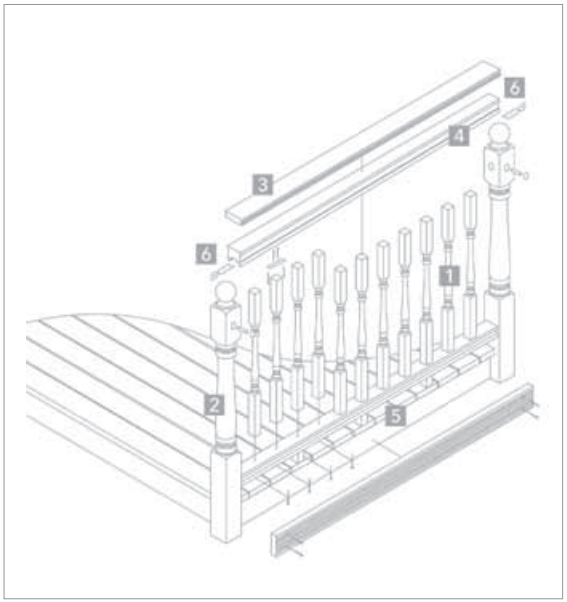
Product code	Description
LD758/759	Square Baluster
LD760/777	Square Newel
LD770	Capping Rail
LD754	Handrail
LD755	Baserail
LD335	Twist Bracket

Hardwood

Enduring luxury

Hardwood Colonial system

Whether at ground level or on a raised deck. Colonial style is guaranteed to add a touch of class to any garden.



	Product code	Description
1	LD750/773	Colonial spindle
2	LD761/776	Colonial newel
3	LD770	Capping rail
4	LD754	Handrail
5	LD755	Baserail
6	LD333	Twist bracket

Testing categories

RD — Raised level domestic settings
Designed to resist loadings of 0.74kN/m

GD — Ground level domestic settings
Designed to resist loadings of 0.36kN/m

Price points

£ £ £ — £151 – £200 – Raised

£ £ — £101 – £150 – Ground

Hardwood Colonial system – domestic raised level






Description	Colonial spindle	Handrail	Baserail	Capping rail	Colonial newel* 90mm	Colonial newel 90mm	Twist bracket c/w hardwood cover cap
Product code	**LD773**	**LD754**	**LD755**	**LD770**	**LD774**	**LD776**	**LD335**
Size	1100x41x41	1800x45x57	1800x35x37	2000x94x19	1414x90x90	1414x90x90	n/a
Pack qty	1	1	1	1	1	1	4
Carton qty							6

*with 360mm head for use at top of rake.

Hardwood Colonial system – domestic ground level

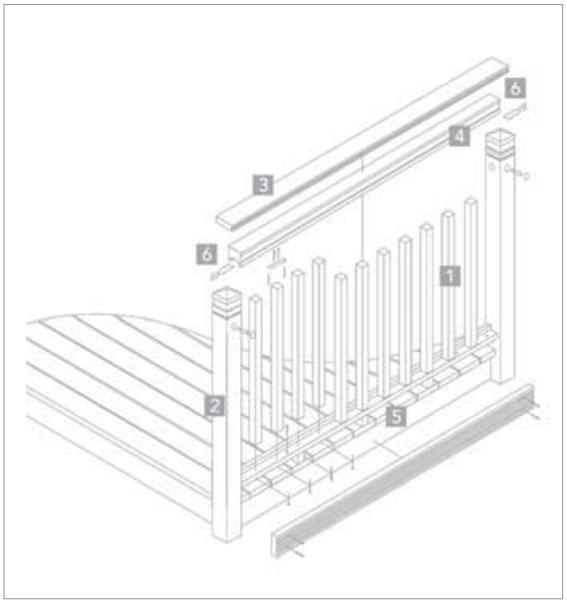





Description	Colonial spindle	Handrail	Baserail	Capping rail	Colonial newel 90mm	Twist bracket c/w hardwood cover cap
Product code	**LD750**	**LD754**	**LD755**	**LD770**	**LD761**	**LD335**
Size	900x41x41	1800x45x57	1800x35x37	2000x94x19	1195x90x90	n/a
Pack qty	1	1	1	1	1	4
Carton qty						6

Hardwood square system

To match the timber's five-star qualities, our Hardwood Range offers a square style, elegant and refined for a sophisticated, timeless look.



	Product code	Description
1	LD758/759	Square baluster
2	LD760/777	Square newel
3	LD770	Capping rail
4	LD754	Handrail
5	LD755	Baserail
6	LD333	Twist bracket

Testing categories

RD — Raised level domestic settings
Designed to resist loadings of 0.74kN/m

GD — Ground level domestic settings
Designed to resist loadings of 0.36kN/m

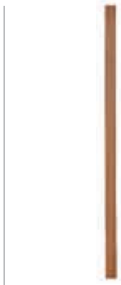
Price points

£ £ £ — £151 – £200 – Raised

£ £ — £101 – £150 – Ground

Hardwood

Hardwood square system – domestic raised level

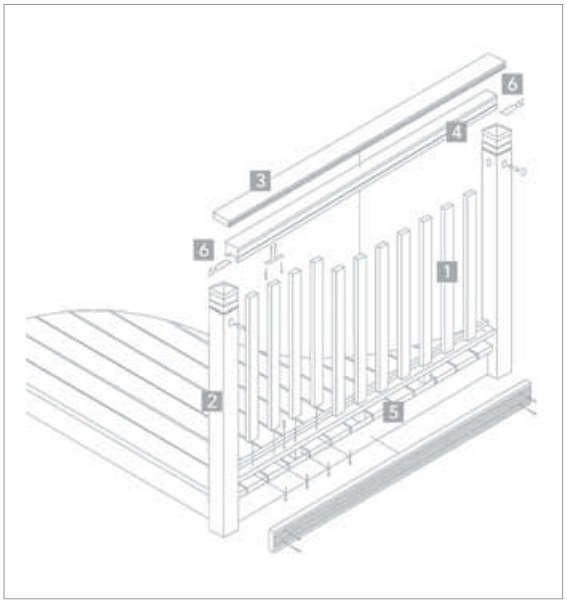
						
Description	Square baluster	Handrail	Baserail	Capping rail	Square newel 90mm	Twist bracket c/w hardwood cover cap
Product code	**LD759**	**LD754**	**LD755**	**LD770**	**LD777**	**LD335**
Size	1100x41x41	1800x45x57	1800x35x37	2000x94x19	1425x90x90	n/a
Pack qty	1	1	1	1	1	4
Carton qty						6

Hardwood square system – domestic ground level

						
Description	Square baluster	Handrail	Baserail	Capping rail	Square newel 90mm	Twist bracket c/w hardwood cover cap
Product code	**LD758**	**LD754**	**LD755**	**LD770**	**LD760**	**LD335**
Size	900x41x41	1800x45x57	1800x35x37	2000x94x19	1195x90x90	n/a
Pack qty	1	1	1	1	1	4
Carton qty						6

Hardwood flat baluster system

Our Hardwood Range also offers a flat baluster style, offering a simple sophisticated elegance.



	Product code	Description
1	LD751/LD772	Flat baluster
2	LD760/LD777	Square newel
3	LD770	Capping rail
4	LD754	Handrail
5	LD756	L rail
6	LD333	Twist bracket

Testing categories

RD — Raised level domestic settings
Designed to resist loadings of 0.74kN/m

GD — Ground level domestic settings
Designed to resist loadings of 0.36kN/m

Price points

£ £ — £101 – £150 – Raised

£ — £50 – £100 – Ground

Hardwood

Hardwood flat baluster system – domestic raised level

						
Description	Flat baluster	Handrail	L baserail	Capping rail	Square newel 90mm	Twist bracket c/w hardwood cover cap
Product code	**LD772**	**LD754**	**LD756**	**LD770**	**LD777**	**LD335**
Size	1100x21x46	1800x45x57	1800x45x58	2000x94x19	1425x90x90	n/a
Pack qty	1	1	1	1	1	4
Carton qty						6

Hardwood flat baluster system – domestic ground level

						
Description	Flat baluster	Handrail	L baserail	Capping rail	Square newel 90mm	Twist bracket c/w hardwood cover cap
Product code	**LD751**	**LD754**	**LD756**	**LD770**	**LD760**	**LD335**
Size	900x21x46	1800x45x57	1800x45x58	2000x94x19	1195x90x90	n/a
Pack qty	1	1	1	1	1	4
Carton qty						6

Deckboards

Treated softwood deckboards & structural components

Deck boards

	Naturewood		MicroPro®	MicroShades®
				
Product Code	LD108	LD102	LD3101	LD1101
Size (mm)	3000x120x32	3600x120x32	3600x120x32	3600x120x32
Pack Qty	1	1	1	1

Bulk packs

			
LD617	LD602	LD606	LD607
3000x120x32	3600x120x32	4200x120x32	4800x120x32
180	180	180	180

Steps

		
Description	35° cut string for 3 steps	35° cut string for 5 steps
Product Code	LD402	LD403
Size (mm)	1000x48x260	1674x48x260
Pack Qty	1	1

Post caps

		
Ball cap	Acorn cap	Patrice cap
LD203	LD225	LD204
95x75x75	119x77x77	100x100
1	1	1

Joists & Posts*

	Joists	Posts*
		
Product Code	LD105	LD106
Size (mm)	3600x150x47	1200x100x100
Pack Qty	1	1

*Pressure treated to Class 4 and suitable for use in-ground contact.

Pallet deals

Treated balustrade pallet deals

											
Description	Colonial spindles	Square balusters	Colonial newels	Patrice newels	Traditional multi-purpose rail	Stop chamfered balusters	Stop chamfered newels	1.5m Colonial newels*	1.5m Patrice newels*	Large Traditional handrail with fillet	Large Traditional baserail
Product Code	**LD200Pallet**	**LD226Pallet**	**LD202Pallet**	**LD209Pallet**	**LD201CPallet**	**LD248Pallet**	**LD249Pallet**	**LD250Pallet**	**LD251Pallet**	**LD265Pallet**	**LD246Pallet**
Size (mm)	900x41x41	900x41x41	1200x82x82	1200x82x82	1800x32x66	900x41x41	1200x82x82	1500x82x82	1500x82x82	2400x68x68	2400x32x68
Pack Qty	660	616	144	144	225	616	144	144	144	154	154

Fixings

													
Description	Balustrade bolts	Deck tie	Softwood cover cap	40mm annular ring nail	100mm landscape screw	150mm landscape screw	40mm ceramic galvanised screw	63mm ceramic galvanised screw	63mm ceramic galvanised screw	75mm ceramic galvanised screw	Stainless steel fixing strap	Twist bracket c/w softwood cover cap	Twist bracket c/w hardwood cover cap
Product Code	**LD309**	**LD310**	**LD311**	**LD312**	**LD315**	**LD316**	**LD319**	**LD320**	**LD321**	**LD322**	**LD330**	**LD333**	**LD335**
Pack quantity	4 plus spanner	50	4	50	20	20	150	100	350	300	4	4	4
Carton quantity	4	4	4	4	6	6	4	4	4	4	6	6	6

*Pressure treated to Class 3, not suitable for use in-ground contact.

Technical Information

Outdoor balustrade & decking

We're here to help.

The following pages contain all you need to know about Building Regulations, planning and building a deck, which products are most suitable and helpful configuration drawings explaining how and where our outdoor balustrade ranges can be used.

Remember, we're always here to help you with every step of the job. If you need style ideas and information simply refer to our brochure or website, if you're looking for stockists our customer services team is just a call away and our technical support team can help with planning and installation.

In fact, our website now even has a 'live chat' facility, so you can talk to a member of our team in real time and get the answers you need there and then.

Customer services +44 (0) 1691 678300

Technical helpline +44 (0) 1691 678212

www.richardburbidge.com

DECKPLANNER™

We think creating perfect decking should be easy. So using all our experience and know-how we've created DECKPLANNER™ – a simple, and completely free, online tool that takes care of designing a new deck and outdoor balustrade in just a few easy steps.

Simply visit www.richardburbidge.com, follow the link to our award winning tool, DECKPLANNER™ and go through each stage of planning new decking and balustrade from start to perfect finish.

All our outdoor balustrade ranges are there to choose from, with all the different spindles, newels and panels – and whichever options are chosen DECKPLANNER™ shows a realistic idea of how the design will look. Easy.

Once all the decisions are made, simply download easy to understand plans and drawings showing each part. Take the print-outs, which have fully priced parts lists, product codes and quantities, to your nearest Richard Burbidge stockist and they'll help turn the plan into reality.

www.richardburbidge.com

Perfect planning.

With Richard Burbidge it's easy to create a good-looking deck. But making it perfect for the garden and the space available takes careful planning and designing. There are a number of important aspects to consider when helping to plan the size and position of any deck.

- Will it be functional, decorative or both? The size of the deck can be determined by a combination of available space, changes in the level of the site, access to existing services such as drains and overall project costs.
- If the deck is to be used as an alternative to a traditional paved patio then it needs to be large enough to allow the comfortable use of garden tables, chairs and benches.
- Will the deck be at ground level or elevated? Whilst elevated decks will allow better views of the surroundings it will also allow the surroundings such as your neighbours to have a better view of you. Trellis, balustrades and foliage will help screen unwanted views and provide some privacy.
- If there are any underground services beneath the proposed deck area such as drainage pipes and manhole covers you will need to add an easy access feature to the proposed deck design such as a trapdoor. Alternatively you may decide to reposition the deck to avoid underground services.
- To make the most of the summer months plan the finished position of the deck to utilise existing shaded features such as trees or the sides of buildings. The heat reflected off a south facing wall will turn a cool deck into a warm one whilst trees will cool a south facing deck in the summer.
- Deckboard laying patterns should not be overlooked at the planning stage as they can affect the overall appearance of the finished deck. Position the deck so that it is easily seen from the house if children are to use it unsupervised.
- If the proposed site is exposed to wind then a partial screen of balustrades, trellis or foliage will act as a wind break without completely blocking it and will also allow some cooling on warm days.

DRAWING PLANS

How well you consider size, usage, climate, views, privacy, costs, relationship to the house and overall site evaluation will determine how often the deck is used. Before setting out your ideas onto paper, walk the site and visualise how the deck will look from the house and its surroundings. Measure the site and transfer these measurements onto paper. A good working drawing is important as not only will it help visualise the finished deck but also make estimating the materials needed easier.

Try and work to a reasonable size scale, 1:20 is ideal, using either graph paper or a scale ruler. Draw the deck and also add other design considerations such as boundaries, trees, buildings, shrub and planting borders. You may find two views help, a plan view showing the deck directly from above and an elevation from the side, this view helps if you have variations in ground level.

As well as illustrating the overall size of the deck and deckboard laying pattern also include the position of post centres, posts, beam, joist and balustrade arrangements as this again makes estimating easier.

PLANNING PERMISSION

As a general rule domestic timber decks are regarded in exactly the same way as private patios and do not require planning approval unless they are within 20 metres of a road or higher than 300mm from the ground.

If a deck forms part of the design features of a new building or extension, the size and shape of the deck should be included on drawings submitted for planning approval but the deck itself would not normally be subject to approval.

For existing residential properties a ground level deck will not need to be submitted for approval under the current UK Building Regulations. A high level deck however will need to be designed to ensure that it will be structurally stable. As such calculations may be required proving the deck is capable of taking the necessary loading if the high level deck is submitted as part of a new house to your local Building Control office.

Planning your deck

DECKPLANNER™

Our simple, free online planning tool will help you design your new outdoor balustrade and decking project in just a few easy steps. All the options you require are there to choose from such as different ranges, spindles and newels and are shown as a virtual balustrade to give you a realistic idea of how your balustrade and decking will look. Once you have made your decisions you can download easy to understand plans and fully priced parts lists and take to your nearest Richard Burbidge stockist. Together we'll turn your plan into reality.

STORAGE

Once you have purchased your decking materials you will need an area to store them before and during the construction of the deck and installation of the balustrades. In the UK, the moisture content of exposed timber is usually around 18%. Exposure to heavy rainfall or warm sun will cause the timber to swell or shrink respectively. To make sure the decking materials do not pick up too much moisture or are allowed to dry out on site, stack all the materials on bearers that are well clear of wet areas, preferably at least 150mm off the ground level. Stack the decking so that air can easily circulate around and between them using timber battens or spindles.

Protect the materials from rain using a waterproof cover, this cover should not be wrapped so tightly that it prevents air circulation and condensation. Careful storage will also prevent the timber from getting dirty and stained. Generally the less time the timber is on site the better.

PREPARING THE SITE

As well as careful planning and good construction techniques successful deck planning also requires careful site preparation. Once the area has been cleared of all vegatation including shrubs and any trees it should be levelled. Slightly slope the ground towards the outer edge of the deck to allow for adequate drainage and to prevent water stagnating. If the deck is attached to the side of the house or building the slope should fall away from the building and not run to it.

Remove any obstacles and if desired redirect drain pipes. Apply a proprietary weed killer and cover with a weed block membrane available from most garden centres. Cover this membrane with approximately 50mm thickness of gravel to hold in place. 3 x 25kg bags of gravel will cover an area of 2m².

IMPORTANT INFORMATION

- Do not burn preserved wood. Dispose of all decking off-cuts as ordinary household waste. Do not burn on open fires, barbecues or stoves.
- Always wear gloves to avoid splinters and protect hands.
- Wear safety goggles when using power tools and a dust mask when cutting all timber components.
- All saw dust and construction debris should be cleaned and disposed of after construction.
- Avoid prolonged inhalation of sawdust and always wash hands before eating, drinking and smoking.
- Wash all work clothes separately from other household clothing.
- For decks over 600mm above ground level consult a reputable builder or structural engineer.
- Do not bridge the damp course or cover air bricks when fixing to the side of a house or building.
- Use Richard Burbidge fixings where stated. All other fixings should be either stainless steel, hot dipped galvanised or coated specifically for exterior use.
- All cut ends and drill holes on all treated timber deckboards, joists, posts and balustrades must be treated with a suitable proprietary end coat.
- Read all Richard Burbidge instructions carefully before commencing any construction and installation work.
- Due to the preservative treatment Richard Burbidge softwood treated decking is not suitable for use in direct contact with garden ponds.
- Mould growth can occur on treated and untreated timber during prolonged exposure to excessive moisture. To remove mould, first let the timber dry and then wash the affected area with mild soapy water.

Building Regulations & British Standards

Timber decks for residential installation are not as such referenced in current UK Building Regulations. However as the regulations state that stairs and balustrades should be designed and installed for the safe movement in or about buildings it can be assumed that they do apply especially with regards to balustrades.

The TDA (Timber Decking Association) technical bulletin on the design and construction of deck balustrade details two types of deck, low level and high level. A low level deck is any deck up to 600mm above ground level with high level referring to all other decks higher than 600mm.

- For low level residential decks the balustrade should be set at a minimum height of 900mm on both stairs and landings and resist a minimum horizontal uniformly distributed line load of 0.36kN/m, a uniformly distributed load applied to the infill of 0.5kN/m2 and a point load applied to part of the infill of 0.25kN.
- High level domestic decks and external balconies (all decks and balustrades over 600mm above ground level) should have the balustrade set at a minimum height of 900mm for stairs/steps and 1100mm on landings/horizontal guarding. The balustrade should resist a minimum horizontal uniformly distributed line load of 0.74kN/m, a uniformly distributed load applied to the infill of 1.0kN/m² and a point load applied to part of the infill of 0.5kN.
- Commercial decks in public areas used to move people through and not susceptible to overcrowding including stairs/steps, landings, external balconies and ramps should have the balustrade set at a minimum height of 900mm on stairs/steps and 1100mm on landings/horizontal guarding. The balustrade should resist a minimum horizontal uniformly distributed line load of 0.74kN/m, a uniformly distributed load applied to the infill of 1.0kN/m² and a point load applied to part of the infill of 0.5kN.
- Additionally balustrades in commerical areas with tables or fixed seating where people may congregate and are susceptible to overcrowding should have the balustrade set at 900mm on stairs and 1100mm for landings and horizontal guarding. Balustrades for these environments should resist a minimum horizontal uniformly distributed line load of 1.5kN/m, a uniformly distributed load applied to the infill of 1.5kN/m² and a point load applied to part of the infill of 1.5kN.
- The balustrade should be designed so that it is not easily climbable and not allow the passage of a 100mm sphere.
- Richard Burbidge offers different systems specifically designed for these different situations.

DOCUMENT K: BUILDING REGULATIONS 1992

This regulation details that stairs/steps should be designed, constructed and installed so that they are safe for people to use when moving between different levels in buildings. Key points include;

- Twice the rise plus the going (2R+G) should be between 550 and 700mm.
- Handrails should be provided to at least one side if the stairs/steps are less than 1 metre wide.
- For stairs/steps wider than 1 metre handrails should be provided to both sides.
- There is no need for a handrail beside the bottom 2 stairs/steps.
- For ground level domestic situations the handrail should be set at a minimum height of 900mm on both stairs and landings.
- For raised level domestic situations the handrail should be set at a minimum of 900mm on stairs/steps and 1100mm for landings/horizontal guarding.
- For public situations the handrail should be set at a minimum height of 900mm on stairs and 1100mm on landings/horizontal guarding.
- There should be no opening in the balustrade/guarding that would allow the passage of a 100mm sphere
- The "guarding" should be able to resist a horizontal loading of 0.36kN per metre run for ground level domestic situations and 0.74kN per metre for raised level domestic situations.
- For commercial situations the "guarding" should be able to resist a horizontal loading of 0.74kN per metre for public stairs not susceptible to overcrowding and 1.5KN for all other public stairs.
- The maximum pitch for domestic stairs/steps is 42° and between 33° and 38° for public stairs/steps depending on its use.

Private stairs/steps are defined as those used for only one dwelling using any rise between 155mm and 220mm with any going between 245mm and 260mm or alternatively any rise between 165mm and 200mm used with any going between 223mm and 300mm.

Stairs/steps that serve a building where a substantial group of people gather are defined as 'Institutional & Assembly' using any rise between 135mm and 180mm with any going between 280mm and 340mm.

Stairs/steps for all other buildings are defined as 'Other' with the rise described as 150mm and 190mm used with any going between 250mm and 320mm.

When calculating the relationship between the rise and going the dimensions should be 'twice the rise plus the going (2R+G) must be between 550mm and 700mm'.

Building Regulations & British Standards

BRITISH STANDARDS

British Standards relevant to using wood externally that have relevance to designing and constructing decks and external balustrades include:

BS 585 Part 1 1989: Wood stairs.
Specification for stairs with closed risers for domestic use, including straight and winder flights and quarter or half landings.

This document covers the specifications for stairs with closed risers for domestic use, including straight and winder flights and quarter or half landings. Appendix A of this standard gives details for the site fixing of stairs and Appendix B guidance for the design of stairs with winders. Other sections of this standard cover the recommendations for treads and risers, strings, newels, construction, handrails and balustrades.

BS 585 Part 2 1985: Wood stairs.
Specification for performance requirements for domestic stairs constructed of wood-based materials.

Specifies the performance requirements for domestic straight flight stairs including those with quarter and half landings constructed from wood based materials.

Appendix B of this standard includes details for test methods used to establish stair and tread deflection and balustrade static load and impact tests.

BS 5395-1:2000: Stairs, Ladders and Walkways.
Code of practice for the design, construction and maintenance of straight stairs and winders.

Gives recommendations for the design, construction and maintenance of straight flight stairs including landings and winders in a number of materials and for all types of buildings. Table 1 of this document gives recommended sizes for private, public and assembly stairs and Figure 4 the relationship between the rise, going and pitch. This document also covers recommedations and guidance on safety including accidents on stairs, handrails, steps, rise, going, treads, pitch headroom and stair width.
Section 10 gives details on the materials used to construct stairs including, timber, concrete, steel and aluminium.

BS 5395 Part 2 1984: Stairs, ladders and walkways.
Code of practice for the design of helical and spiral stairs.

Scope covers recommendations for the design of both helical and spiral stairs used internally and externally in all types of buildings. This standard covers all stairs which are circular on plan. Table 2 details the sizes of stairs for small private, private, small-semi public, semi-public and public use.

BS 6399 Part 1 1996: Loadings for buildings.
Code of practice for dead and imposed loads.

Gives recommended dead and imposed loads for use in designing new buildings and structures, alterations to existing buildings and the change of use to an existing construction. Section 10 and Table 4 covers parapets, barriers and balustrades and the minimum horizontal imposed loads.

BS 6180 1999:
Barriers in and about buildings, code of practice.

Covers recommendations for the design and construction of both permanent and temporary barriers provided in buildings and places of assembly. Contents include, design criteria, loadings and safety details, and barriers in various materials including concrete, glass, masonry, metals, aluminium and timber.

Richard Burbidge balustrades are certified by BM TRADA, certification number 001 and meet the requirements of and are registered within the BM TRADA certification scheme for timber balustrades.

BS 5268-2 Structural use of timber.
Code of practice for permissible stress design, materials and workmanship.

This British Standard gives recommendations for stress grades applicable to timber when used as members, as part of a construction and as part of a structure including other components. Detailing for the design of nailed, screwed, bolted, dowelled, connected and glued joints are also covered.
This document additionally gives recommendations for test methods to assess structural assemblies with guidance on workmanship, treatments, inspection and maintenance.

BS EN 350-1
Durability of wood and wood based products.

Covers wood classification systems, hazards, grading, sampling, durability and physical properties. Used in conjunction with BS EN 350-2 which details guidance on the natural durability and treatability of selected wood species of importance in Europe.

Building Regulations & British Standards

SUITABILITY FOR USE

Richard Burbidge external balustrade systems in all timber types have been independently tested by both TRADA and FIRA for conformity with UK Building Regulations.

All balustrade systems conform with the requirements for domestic use as detailed in Table 4 of BS 6399 : Part 1 : 1996 Loadings for buildings.

Domestic settings - All areas within or serving exclusively one dwelling including stairs and landings, the balustrades should resist a minimum horizontal uniformly distributed line load of 0.36kN/m, a uniformly distributed load applied to the infill of 0.5kN/m2 and a point load applied to part of the infill of 0.25kN. For decks above 600mm above ground balustrades need to conform to the same requirements as the heavier loadings detailed in the commercial settings section.

Raised domestic and light commercial settings Some of our systems have been tested and conform to the increased loading requirements for commercial applications which are defined as areas not susceptible to overcrowding in office, leisure and institutional buildings such as hotels, doctors and dental surgeries and stairs in multi occupancy buildings such as apartments. In these applications the increased requirements detail that a balustrade should resist a minimum horizontal uniformly distributed line load of 0.74kN/m, a uniformly distributed load applied to the infill of 1.0kN/m2 and a point load applied to part of the infill of 0.5kN.

Heavy commercial settings - Additionally balustrades in commerical areas with tables or fixed seating where people may congregate and are susceptible to overcrowding should have the balustrade set at 900mm on stairs and 1100mm for landings and horizontal guarding. Balustrades for these environments should resist a minimum horizontal uniformly distributed line load of 1.5kN/m, a uniformly distributed load applied to the infill of 1.5kN/m² and a point load applied to part of the infill of 1.5kN.

THE TIMBER DECKING ASSOCIATION

Richard Burbidge Ltd is a member of the Timber Decking Association (TDA) which is a technical and advisory organistaion that provides guidance on the materials and practices required to create high quality decks and associated structures. For further information contact Timber Decking Association, 5 Flemming Court, Castleford, West Yorkshire WF10 5HW - Tel: 01977 558147, www.tda.org.uk

The Deck-Mark® Certification Scheme is a third party product certification scheme operated on behalf of the TDA. The scheme is based on recognised quality assurance standards (ISO 9000) and confirms compliance to the best practice guidance and relevant British Standards and ensures that any Richard Burbidge outdoor balustrade product is of the highest standard.

Deck-Mark Plus® is an extension of the TDA's Deck-Mark® Scheme and applies to products manufactured in accordance with Deck-Mark® but which also have a performance rating in line with BS EN ISO 14001:2004 Environmental Management Systems and BS EN ISO 9001:2000 Quality Management Systems.

Building your deck

CONSTRUCTING THE FRAME

Please read these instructions carefully and with the appropriate balustrade installation instructions prior to building your deck.

If the deck is to be attached to the side of a house or building, the finished level of the deck should be at least two brick courses below the damp course level. Use a Richard Burbidge 150 x 47mm joist as a wall plate/ledger to carry and support the joists. Keep the wall plate off the wall by approximately 10mm by packing behind the plate or by fixing washers over the wall plate fixing (Fig. 1). This will allow water running down the face of the brickwork to pass behind rather than on top of the plate. Alternatively if fixing the wall plate directly to the wall use a metal flashing keyed into the mortar in the brickwork and dressed down over the plate to keep water off the top surface.

For ground level and elevated decks it is important that the proposed site is marked out accurately if you want the finished deck to be square. To create a square deck and determine the overall size, mark out the area using a basic building technique consisting of batter boards (horizontal boards with a peg at each end to secure into the ground), pegs and string line (Fig. 2). To check the corners are 90° use a '3-4-5' builders square, which you can construct from straight lengths of timber, creating a triangle with sides in the ratio of '3-4-5' e.g. 60cm, 80cm and 100cm. Adjust the string lines accordingly until square (Fig. 2).

The construction methods for building either a ground level deck or elevated deck are basically the same; both are fixed to a frame constructed of Richard Burbidge 150 x 47mm joists. The main difference between the two is that for ground level decks you can use concrete paving slabs if desired rather than structural posts and beams to support the decks frame (Fig. 3).

GROUND LEVEL DECKS

As previously mentioned, a ground level deck can be laid onto concrete paving slabs. Use a minimum slab size of 600 x 600 x 50mm and bed these into position with either mortar, sand and cement or sand. Space the paving slabs at maximum centres of 1800mm. The frame to support and fix the deckboards is constructed from Richard Burbidge 150 x 47mm joists. These should be spaced at maximum 400mm centres and fixed to each other using Richard Burbidge landscape screws and/or galvanised nails, joist hangers, metal angles or 100 x 100mm timber offcuts. For additional strength, noggins (offcuts of joists) are then fixed at 90° to the joist. Alternatively your ground level deck can be constructed as detailed in the elevated deck section (Fig. 4).

ELEVATED DECKS

Richard Burbidge decking materials and accessories are suitable for decks elevated up to 600mm above ground. For high level decks over 600mm consult a reputable builder or structural engineer.

Elevated decks can be free standing or have one or more sides attached to the side of a house, building or wall. The joist frame used to support and fix the deckboards is in turn supported by posts and beams. Beams are constructed from Richard Burbidge joists and structural posts. Posts should be spaced at maximum centres of 1800mm. Fix the posts into the holes using concrete, cap the top of the concrete with a trowel so that water runs away from the posts. Once the posts have set, attach the beams to the posts using Richard Burbidge 150mm landscape screws at the desired height. The joist frame is then fixed to the beams by skew nailing or screwing with joist centres at maximum 400mm centres. For additional strength as with ground level decks, noggins should then be fixed at 90° to the joists. For maximum strength and stability fix the joists to the ledger boards/wall plates and framing joists using joist hangers.

FIXING DECKBOARDS

There are three ways of fixing deckboards, either by using Richard Burbidge secret fix deck ties or traditional fixing using screws or nails. Unless your deck design uses standard lengths of deckboards you will need to stagger the deckboards to cover the deck area. To prevent movement and give structural stability staggered boards must be fixed to a double joist (Fig. 5).

It is perfectly natural for deckboards to swell when wet and shrink when dry. Some variation in the gaps between the deckboards is therefore inevitable and these gaps will vary in size from season to season.

Building your deck

Fig. 1

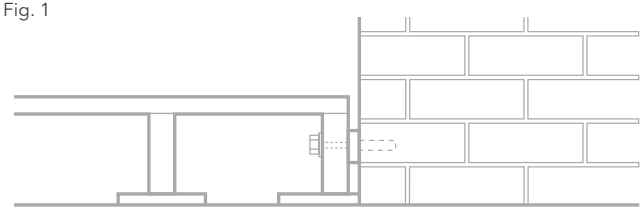


Fig. 2

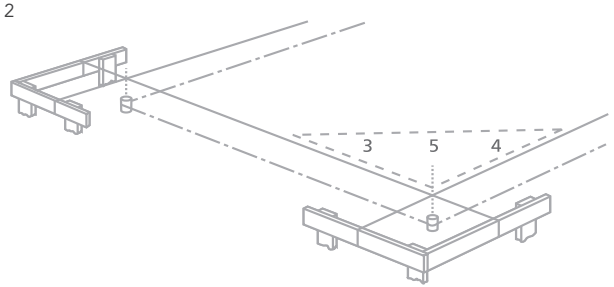


Fig. 3

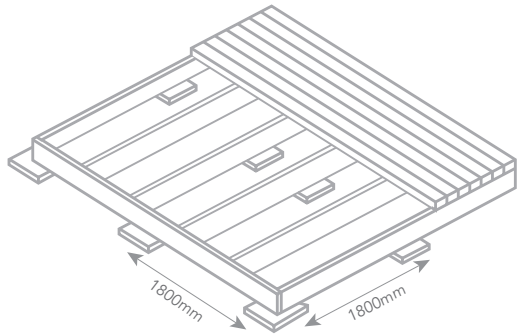


Fig. 4

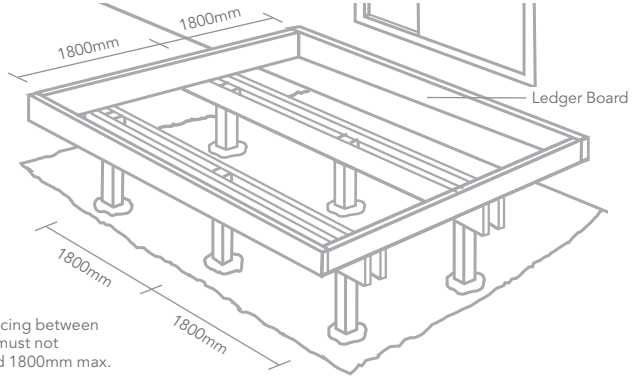
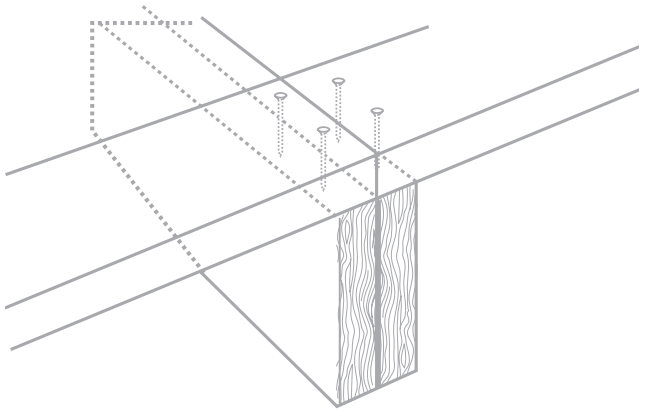


Fig. 5



Building your deck

DECK TIES

You can eliminate installation damage to the face of deckboards, which can happen when screwing or nailing by using Richard Burbidge deck ties (Fig. 6a).

Deck ties automatically space the deckboards and are completely hidden when fixed. Please note when using deck ties for fixing deckboards during the planning stage you must allow for the joist arrangement to be at 90° to the finished deckboard laying pattern.

The back edge of the first deckboard should be fixed to the joists using Richard Burbidge 75mm ceramic galvanised screws (Fig. 6b). Countersink and fill the screw head to prevent possible injury to feet. Once the first row of deckboards has been fixed, position deck ties in the centre of each joist and to the edge of the deckboard.

Use a hammer to knock the deck ties into the joists and tap the face of the deck ties so that they are flush with the edge of the deckboard, secure using Richard Burbidge 40mm annular ring nails (Fig. 7).

Place the back edge of the next board against the spikes of the previously fixed deck ties and using a timber block to protect the board knock onto the spikes with a hammer. To prevent the board springing along its length off the deck ties this is best done with two people (Fig. 9). Repeat this procedure until all the deckboards have been fixed. The final board should be fixed exactly as the first board, through the face of the deckboard using Richard Burbidge 75mm ceramic galvanised screws (Fig. 8).

TRADITIONAL FIXING

For traditional fixing use either nails or screws we recommend Richard Burbidge 75mm ceramic galvanised screws as the preferred traditional fixing option as damaged individual deckboards are far easier to remove and replace.

Whichever fixing method you choose it is essential to use fixings of at least 75mm in length. The deckboards should be fixed along their length to every supporting joist using 2 fixings per face/joist.

Keep the fixings at least 25mm from the ends and edges of the boards and to minimise the risk of splitting it is recommended that the boards be predrilled to accommodate the fixings. The boards should be spaced with a 6 to 9mm gap to allow for drainage and movement.

Unless the size of the deck has been designed and planned to use single length boards it will be necessary to join boards along their length. It is essential that joined boards must always meet over a joist. Use additional sections of joist to increase the area for fixing.

To avoid injury to feet, nail and screw heads should always be fixed below the surface of the deckboards. Countersink screw heads below surface and use a nail punch for nails. Check once or twice a season and retighten or re-punch any raised fixings. Use an endcoat preservative on all surfaces exposed by drilling and cutting.

STEPS

The height and position of your deck will influence the style and height of your steps. Steps can be constructed from a combination of posts, joists and deckboards or Richard Burbidge cut strings.

The Richard Burbidge ranges include 2 sizes of cut strings for step building both having individual rises of 190mm. 3 step string/570mm rise and 5 step string/950mm rise. The number of steps and risers required will be determined by the height of the deck and the available space in front of it.

Position the strings at right angles to the deck (Fig. 10) at maximum 400mm centres and fix to the joists using suitable galvanised brackets or joist hangers. At ground level rest and fix strings to paving slabs or concrete slabs for maximum stability. Treads are created from deckboards allowing 30mm to overhang each string. Fix the deckboards to the strings using Richard Burbidge deck ties or 75mm ceramic galvanised screws. Additional fixings such as galvanised angle brackets can also be used.

Fig. 6a

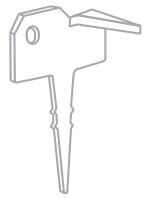


Fig. 6b

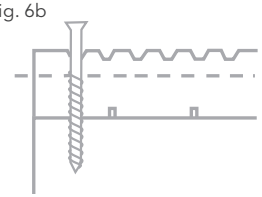


Fig. 8

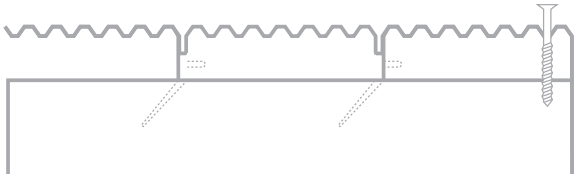


Fig. 7

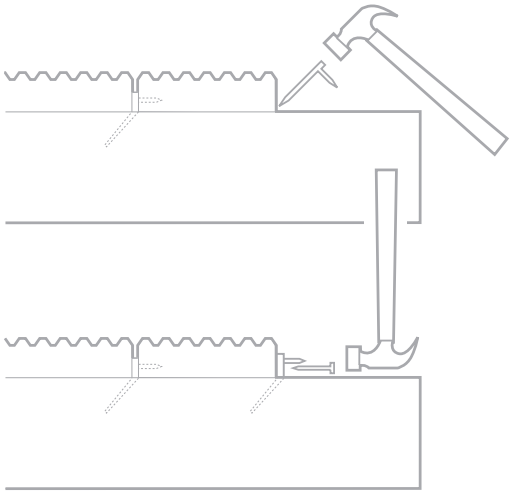


Fig. 9

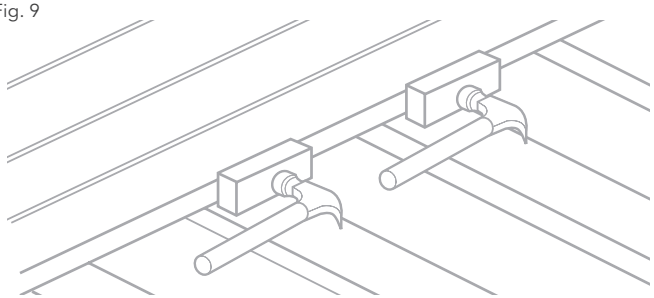
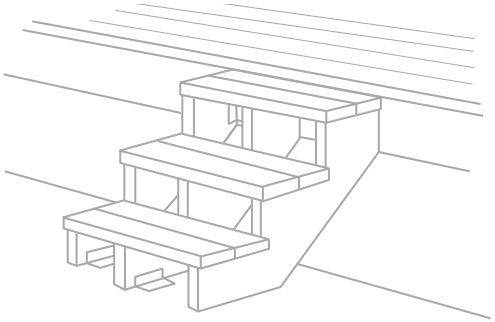


Fig.10



Looking after outdoor decking and balustrade.

Whichever Richard Burbidge outdoor balustrade and decking is fitted, making sure it gets the correct treatment and maintenance will make sure it looks good for longer. Here you'll find details of the various materials we use and how to keep them at their best.

All Richard Burbidge softwood timber decking materials are manufactured from European Redwood/British grown Scots Pine, a light coloured knotty softwood used extensively in UK construction work. It is perfectly natural as the timber weathers for some surface checking and splitting to occur due to the natural variation in moisture content and the effects of wetting and drying. These surface defects will have no adverse effect to the deck's structure.

Once the installation is complete you may wish to apply a proprietary deck cleaner which removes the build up of dirt and grease that can occur during construction, deck cleaners also brighten the timber.

Any treated or untreated timber exposed to the natural elements should be protected from the weather. To enhance the treated softwood decking apply either a proprietary clear water repellent or semi-transparent stain. Before applying the finish you must make sure your deck and balustrades are dry. Test by sprinkling drops of water onto the timber's surface. If the wood does not absorb the water, wait a few days to allow the timber to dry out and retest before application.

HARDWOOD BALUSTRADES

Richard Burbidge Hardwood external balustrades are manufactured from Sapele, a dark hardwood similar to a mahogany colour of reddish brown. Although moderately durable any untreated timber exposed to the natural elements should be protected from the weather to make them more resistant to picking up moisture. To enhance and protect the hardwood balustrade apply either a proprietary clear water repellent, semi-transparent stain or decking oil. Before applying the finish you must make sure your balustrades are dry. Test by sprinkling drops of water onto the timber's surface. If the wood does not absorb the water, wait a few days to allow the timber to dry out and retest before application.

BALUSTRADE MAINTENANCE

For both softwood and hardwood timber balustrade components always follow the seal, stain or oil manufacturer's recommendations and test on an off-cut or hidden surface. How often you apply further coats of water seal, stain or oil will depend on the balustrade's usage, and we recommend that all components be recoated at least once a year. Please refer to the manufacturer's recommendations.

For non-timber items such as acrylic panels and zinc alloy posts and rails use a soft cloth, luke warm water and a mild detergent. Do not polish or use abrasive cleaners and scourers as these can damage and scratch the surface coatings.

DECK MAINTENANCE

How often you clean the deck will depend on its usage and position in relation to trees and foliage. Once or twice a season give the deck a brush with a stiff broom which will not only maintain the appearance but also remove algae and reduce the risk of slipperiness.

The deck can be given an annual clean using a hosepipe and if necessary a proprietary deck cleaner and brightener. Surface resin can be removed using a sharp broadfaced chisel and the area then recoated. Use a knife to remove any debris that has built up in the grooves between deckboards as these gaps allow for drainage and air circulation. Check all fixings and repunch nail heads and retighten all screwheads if required.

OSMOSE NATUREWOOD

All Richard Burbidge softwood outdoor balustrade components are pressure treated with Osmose Naturewood to make sure they last for at least 15 years; Initially it has a green appearance that weathers to a honey brown before fading to driftwood grey after long-term exposure (it can also be painted or stained to match any outdoor colour scheme).

OSMOSE MICROPRO® AND MICROSHADES®

Our outdoor balustrade is also the first in the UK to feature the revolutionary Osmose MicroPro® and MicroShades® wood treatments. Both give a lighter, consistent, fresher and more natural appearance (MicroShades® has an added warm brown pigment), with a long-lasting colour that actually enriches with age. They help protect fasteners and hardware from corrosion, and will take paint or stain better if desired.

To maintain any of our outdoor softwood in first-class condition, it should be cleaned twice a year by brushing off debris, pressure washing (or using a proprietary deck cleaner if necessary) and then applying a clear water-repellent treatment or coloured stain.

Maintenance & finishing

IMPORTANT GENERAL INFORMATION

- Do not burn preserved wood.
- Wear a dust mask and goggles when cutting or sanding wood.
- Wear gloves when working with wood.
- Some preservative may migrate from the treated wood into soil/water or may dislodge from the treated wood surface upon contact with skin. Wash exposed skin areas thoroughly.
- All sawdust and construction debris should be cleaned up and disposed of after construction.
- Wash work clothes separately from other household clothing before re-use.
- Preserved wood should not be used where it may come into direct contact or indirect contact with drinking water, except for uses involving incidental contact such as fresh water docks and bridges.
- Do not use preserved wood under circumstances where the preservative may become a component of food, animal feed, or beehives.
- Do not use preserved wood for mulch.
- Only preserved wood that is visibly clean and free of surface residue should be used.
- Disposal recommendations: Preserved wood may be disposed of in landfills or burned in commercial or industrial incinerators or boilers in accordance with national and regional regulations.
- If you want to apply paint, stain, clear water repellent or other finishes to your preservative treated wood, we recommend following the manufacturer's instructions of the chosen finishing product. Before you start, we recommend you apply the finishing product to a small test area before finishing the entire project to ensure it provides the intended result.
- Mould growth can and does occur on the surface of many products, including treated or untreated wood, during prolonged surface exposure to excessive moisture conditions. To remove mould from treated wood surfaces, the wood should be allowed to dry and then washed with mild soap and water.

END SEAL

Use an end coat preservative on all surfaces exposed by drilling or cutting.

FURTHER INFORMATION

For further information and current range of finishing products available please contact:
Cuprinol Ltd, Wexham Road, Slough, Berkshire, SL2 5DS, Tel 01753 550555, www.cuprinol.co.uk

or

Ronseal Ltd, Thorncliffe Park, Chapeltown, Sheffield, S35 2YP, Tel 0114 240 9469, www.ronseal.co.uk

Richard Burbidge make it easy to give a front door a bit more flair, with our stylish and innovative timber porch canopy and accessory kits. There's no need to design or make precise joinery cuts and each component is even pre-drilled – easy!

The following products feature in this image:

Product code	Description
LC002	Apex Porch Canopy
LC100	Full length turned Balustrade kit

Porches & Canopies

Welcome home

Canopies

Description	1200 Apex porch canopy*	1600 Apex porch canopy*
Product code	**LC001**	**LC002**
Size	1559 x 1190 x 605	1960 x 1305 x 605
Pack qty	1	1

Description	Flat roof canopy* (1200-1600mm)	Single gallows bracket
Product code	**LC003**	**LC300**
Size	1736 x 1124 x 605	700 x 630 x 605
Pack qty	1	1

*Our canopy products come with gallows brackets included.

Accessories

			
Description	Full length turned balustrade kit*	Dwarf wall turned balustrade kit*	Full length stop chamfered balustrade kit*
Product code	**LC100**	**LC101**	**LC102**
Size	70x2400x577	70x1800x577	70x2400x577
Pack qty	Pair	Pair	Pair

		
Description	Dwarf wall stop chamfered balustrade kit*	Porch Finial
Product code	**LC103**	**LC200**
Size	70x1800x577	690x75x75
Pack qty	Pair	1

*Each pack contains a pair of sides.