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| Wherever possible Richard Burbicge products are manufactured from solid lenghs of timber．However，as a componany commited to reducingthe envirommental impact of the raw material we use，it s sometimes necessary to use laminated and／or finger jointed material．These jointing methods actually enhance the products strength and stability．Timber is natural material and whilst great care is taken to match jointed pieces some colour variation is to be expected as is colour variation between individual components．If you wish to clarify the specification of any of our |  |  |
| Please note that the product ranges shown in this brochure may not be available in all outlets |  |  |
| Richard Burbidge Limited has a policy of continuous product development and improvement．Whils information is correct at the time of going to press，we reserve the right to make changes without notice． E \＆OE． |  |  |
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distinctive by design Burbidge

> Fusion" is a truly innovative new balustrading system created and designed by the Richard Burbidge product development team.
> Sleekly designed connectors fix the rails and newels together and ingenious brackets fit the balusters to the minimalist round handrails and baserails.







After drilling your newel base, attach the threaded bar through the base into the barrel nut.


After measuring your post to the correct length, fit and secure the posts in place.
Repeat for all newel posts. Repeat for all newel posts.

 Secure the newel base connector onto the
newel base using the fixings provided. Repeat steps 1 and 2 for all newel bases.


Attach the handrail using the bottom connector.



Measure and fit the baserail (this process differs for closed or open string staircases comector for detalis).


Begin fitting appropriate landing balustrading.


Fit the handrail to the correct angle using the Ft the handrail to the correct ang
top connector on the top post.

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Job's done!


Richard Burbidge Fusion" star bausstraing comprises a patented system of round newel posis and handralis connected together using a series of metal brackets. Balusters fix into place using
patented brackets designed to adiust to suits staircase pitches between $388^{\circ}$ \& 45 . Note - When installing Richard Burbidge Fusion", remember at al times sthat when you are
assembling a pre-finshed product exta care should be taken to avoid damaging the finish. All finishes are careftlly checked pioio to leaving the fatcior and are designed to withstand most types of normal use, howeverit is possible to damage these with sharp tooks
Please check all componentit carefully PRIOR toi instalation for any damagae tot the surface. Please
note Richard Burbicge cannot be held responsibie tor any damage once installation has commenced. Fusion"" caries design registration and has patent pending. Genuine Richard Burbidge Fusion
components camy the Richard Burbiche dovetail cooo. Only genuine components have been comononentscs cary the Richardd Burbidide dovevatil logo. Only enuine con
independently tested to guarantee confomity
Fusion" is desinged for use in domemestic situations and will ft d losed sting staircases with pitches
between $38^{\circ}-45^{\circ}$ and handraia heights of 900 m stairs and 900 mm landings. Fusion" is tested between $38^{\circ}-45^{\circ}$ and handrail heights of
to UK strength requirements of $0.36 \mathrm{~N} / \mathrm{m}$.
 key, dinild depth gauge), electric or battery drill, spirit tevels, tape measure, a good handsan,
Fusion"is manutactured to exacting toererances, howevereras timber is s naturas material some too big for the connectors, gently sands shave the components to allow for a tight fit, being carerul to only rework the erea. of the timber componenent that wirbe conceaeded by the metal connector. Aternatively it he timber comp
proppitaray gap filing adhesive.
Assembing Starcase Balustradiry
Fusion will fit most stairase configuration
conifuration dawnins in
Fusion" can be fited to either exsiting or new newel bases. To use exsiting newel bases, these
must be fxed centraly to the staiccase string and the fort face of the inser concermed (Figs $1 \& 2$ ). Before removing exsting newel bases, check that they are non-supporting or do not tom a
structura part of the staricase design.
When using Fusison" your exsiting newel bases must be a aminimum of $82 \mathrm{~mm} \times 82 \mathrm{~mm}$. If less,
facelbuild Up existing buses sing sutitabe facing material.
These instructions are for a straight fight with return and ing
Fusion" starimats use pre-cut balusters, and all cut-off points are referenced from the top of the baseral Lepards. The sssiel 1 Id designed. baserail Iust be instatiled. To doo totis, lay the baserail on the stair nosings and resting gagainst the inside facese ot the newew basess, thaik and cut accororingyy takno time lo ensure a ciean and accurate cut. Place the baserail on top of the staircase sting, but at this stage, a temporary fix is al
thati is required ie tacks on unfrished or masking tape on finished raiss fig. 3 ):

Botion Newel Base
From the ine representing the top edge of the baserail mark a line upwards through the centre
point of the enewel base and where the two ines intersect measure up 15mm(FGa 1 ). point of the newel bas
The toe newel base should be marked out in the same way as the bottom, but the height should
be set at $125 m m($ Fig. 2). It is important hat exsting newel bases are cut off squarely so that the newel posts are perfectly,
vertical. Once the bases are cut, trial tit the newel posts and check with a sppirt level. The top of the


Newel base conneoctors MMMNCS/B) can now be fixed to the eneve bases using the stud and



 base coonector over the fxing stud and tighten nuts using
that the conectors are postioned as ilustrated (FG. G6).
Note - in most cases when tightening the base connectorto the exisiting bases, the retaining ying
on the undersicid of the comnectors should pull hito the newel base. However depending on the


 comnector using screws sorovided making sure the post it tuly
same manner but do onot cut the post 0 ol engoth at this stage.
Note - to mark the postion of the elearance hole in the newel post, place newel into base
connector, knock gently an
New Newel Bases
Fit new newel bases ee entral to the front faces of the staricase isers checking that they are verical
Note - remember too add the thickness of the baserail when marking the intersection points as
iustrated in (Fis. 3).
fixing Connectors a Hanciala
Fixing the handarils and oonnectoris s best done by two people. To establish the corect angles of
 Note e ensure the baluster brackets are in ine with each other by tightening the screws with the
baluster held on two blocks of timber (Fi. 8). The balusters are pre-cut to elength and should not vauster held on twwo blor
require any modificaions.
The botoon connector (MMBCSSB) and top connector (MMTCSSB) are a two-parat assembly.
Attach the newe post part of the connectors to the newel posts. Note - the too newe lost
 connector sildes over the top newel post and should not be permanently fxed at this stage. The
 baserail and at the corect height, position assemb
handrail next to the bottom and top newel (fig. 9 ).
Adiust the height of the top connector by sliding up and down the top post and check the balusters are vericid using aspiit level. Mark the postion of the top connector to the newel pos
using a pencil and with the overtong handrail to the side of the top connector mark and uut the using a pencil and with the overlong hand
handrail to to erequired length (Fig. 10).
FIt the top post connector in place by seting to the previousy marked pencill he and secure the
newel post part of the connector sing the screws supplied. 1 tis important that this connector is


 and last bausters. The bhst bauster must tse fxed so that itis tight against hhe handrail comnectior so

The screw fxing the baserai to the staircase string should be positioned so that it does not


To space the remaining balusters evenly yp the staris measuri
 111 and divide by 148.5 mm . Round the answer up to the next whole nu
number back int y our origninal measurement to give an exact spacing.
Example - 2159 mm between bottom and top spacing marks divided by $148.5 \mathrm{~mm}=14.45$,
rounded up to 15 . $2159 \mathrm{~mm} \div 15=143.9 \mathrm{~mm}$ spacing measurement.
 between balusters to the baserail either using a pencil and tape measure or by makking and outting a piece of itiber to the required length. Fix the assembied brackets and balusters to the baserail
 45nm No. 8 countersisin screws. The top bausticer

Assembing Hortzonta/L anding Balustracess newls/wall connectors is 2400 mm . For landings exceesing tritis recommenendaition an additionalng neweveshould be used fors stability on the


Cut and mite the landing baserail to size and place into postion on the landing. Do not fix to the
landing tfor a t this stage (Fig. 12). Fix the eanding baluster bracketst to the landing bausters. Place an officul of handrail losesy into the landing connector (MMLCS/G). Postion one assembled
landing baluster onto the baseral and place the handrail and connector on top of this bausste and to the side of the top newel to establish the required heighto of the post. Mark and dut to suit. Where the landing balustrace ends against the wall, mark the position of the wall connector MMWCSVGI) on the wall by placing an assembled landing baluster and baluster connectors to off-cutrs of baseral and
handrail. Mark the position of the wall connector (MWWCS/G) to the wall and doliland plug to suit.
 pack the underside of the landing basereral accoraringly.
Place an off-cut of handrail to the anding connector (MMLCSS/G) and position on the top newel.





 To calculate the exact number of landing balusters either divide the total landing length by 11
 pleasing to space the landing balusters so that they are in line with the staircase bausters. M
the position of the bauster brackets to the baserail and secret tix the baserail to the landing the postion of the baluster brackets to the bascerai and secret fit the ba
flootboards using 45 mm No. 8 countessink screws every 4 h baluster. Assemble all baluster brackelts to the ends of the lending balusters by insering the relevant fxing
screw ( 63 mm No. 8 ) int the undelsisid of the brackets and tighten (FG. 77). Ensure that the
 brackets are in ine witr each oite
sauare blocks of timber ( Fig. 8).


 The string is the side of the staircase on which the balustrade is assembled. A cut string has the upper edge cut away to ccommodate the stens so that their rofile cannot he seen For fill fititing instructions for hath closed and cut strine please see the installation instruction lealiet packed with the newel base connector MMBCS/G


Winders


Quarter turn with 3 winders


Straight with bullnose step


Dogleg with double bullnose and pulpit end

Half turn with extended landing


Quarter turn with landing

$90^{\circ}$ turn with straight rail (with newels)



Landing or horizontal balustrading only


Staircase configurations with cut string option


All of the closed string configurations can also be achieved on a cut string (as highlighted above). Installation instructions for both cut and closed string staircases are available with every newel base connector (MMBCS/B).


We're here to help
We hope that the preceding pages have been an informative and useful introduction to the Fusion"' range of stair balustrading.

Free Planning Service
Our free planning service will help you select the parts you require for your project. Simply complete the details alongside and we will send you a list of what you need. Post or fax your information and we will respond within a couple of days. Please give landing dimensions

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