

Low Noise DWV System

Sanitary and Drainage

Enjoy the silence....
dB *blue*





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Designed for Modern Living

The built environment continues to evolve to meet the changing expectations of the modern population. A growing and more demanding population is prioritising convenience and immediacy, connectivity with security, the balance of fast pace with peace and tranquillity.

Traditional approaches to common building requirements such as soil and waste drainage are being challenged. The Akatherm dBlue soil and waste system is perfectly suited to the needs of modern building. Using the latest co-extrusion technology, the triple layer structure of dBlue pipe delivers the optimum balance of mechanical and acoustic performance.

Comfort of living

The Akatherm dBlue system is optimised for acoustic comfort using the latest production techniques, ensuring an installation that meets the most stringent noise regulations

Range of applications

Its high resistance to heat and chemicals, acoustic performance and approval for underground use makes Akatherm dBlue the perfect choice for modern mixed-use development.

Speed of installation

A rubber-ring push-fit system makes Akatherm dBlue fast and simple to install.

Proven system

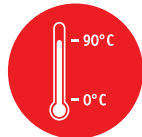
Akatherm dBlue is manufactured within an ISO 9001 Quality Assurance system and WaterMark certified.

The Benefits **dBlue**



Noise reduction

This CSIRO and BRANZ-appraised system has been shown to reduce the noise generated by waste water flowing through a plumbing system.



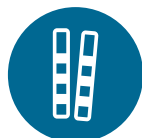
Temperature resistant

Temperature resistant up to 90 degrees and down to -10, dBlue is ideal for use in hot waste removal.



No lagging required

dBlue doesn't require lagging which saves on installation time and allows for easy inspection.



High chemical resistance

Ranging from acids (pH2) to alkalis (pH12).



Space saving

With no lagging required, dBlue allows for more useable space in your building.



100% Recyclable

This sustainable system is 100% recyclable and adheres to the environmental standard ISO4001.



Silence....
dB*lue*

*Designed with Urban
Living in mind*

Enjoy Urban Living

Current urban living requires more people to live in close proximity. Councils and town planners promote the intensification of apartment-style living to allow for a rapidly growing population.

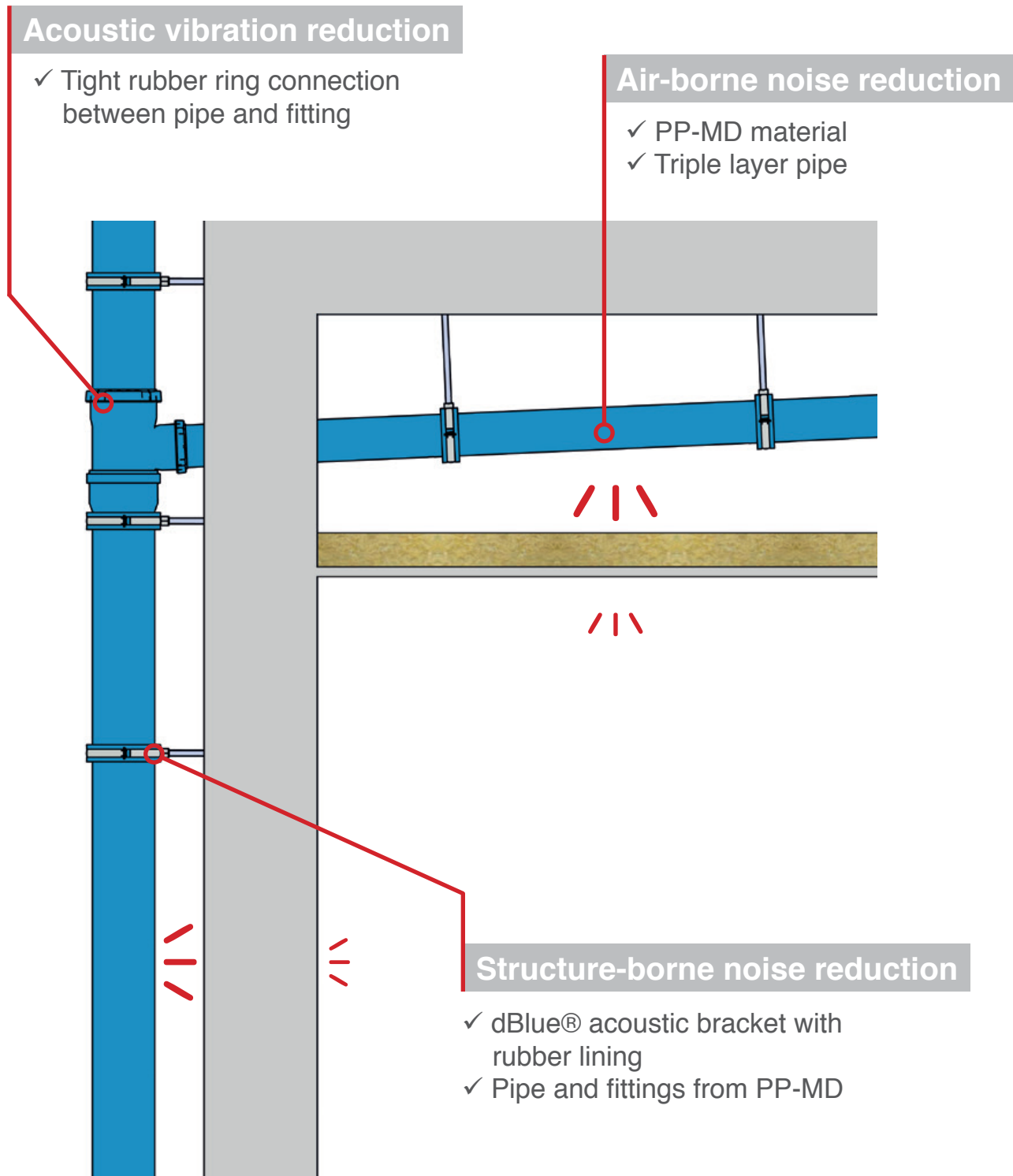
Communal living increases the need to reduce noise in these intimate environments, to provide comfort and wellbeing for occupants.

To assist with this noise-reduction initiative, Akatherm offers the dBlue acoustic plumbing system suitable for sanitary and drainage applications. This noise-reducing system has been specified and installed in commercial buildings, hospitals, apartments, homes and other multi-occupancy urban developments throughout Australia & New Zealand. The dBlue acoustic pipe system reduces water-flow noise, creating a quieter living environment. This multi-layered high performance plumbing system delivers the best kind of silent treatment.



Acoustic PERFORMANCE

Noise in a sanitary and drainage system is caused by waste water flowing inside a plumbing pipe system. The waste water is turbulent and causes noise as well as vibrations in the pipe structure. The vibrations are emitted directly from the pipe surface as air-borne noise and as structure-borne noise to the wall through the fixing system. dBlue has been designed to reduce both air-borne noise and structure-borne noise.



Acoustic Attributes

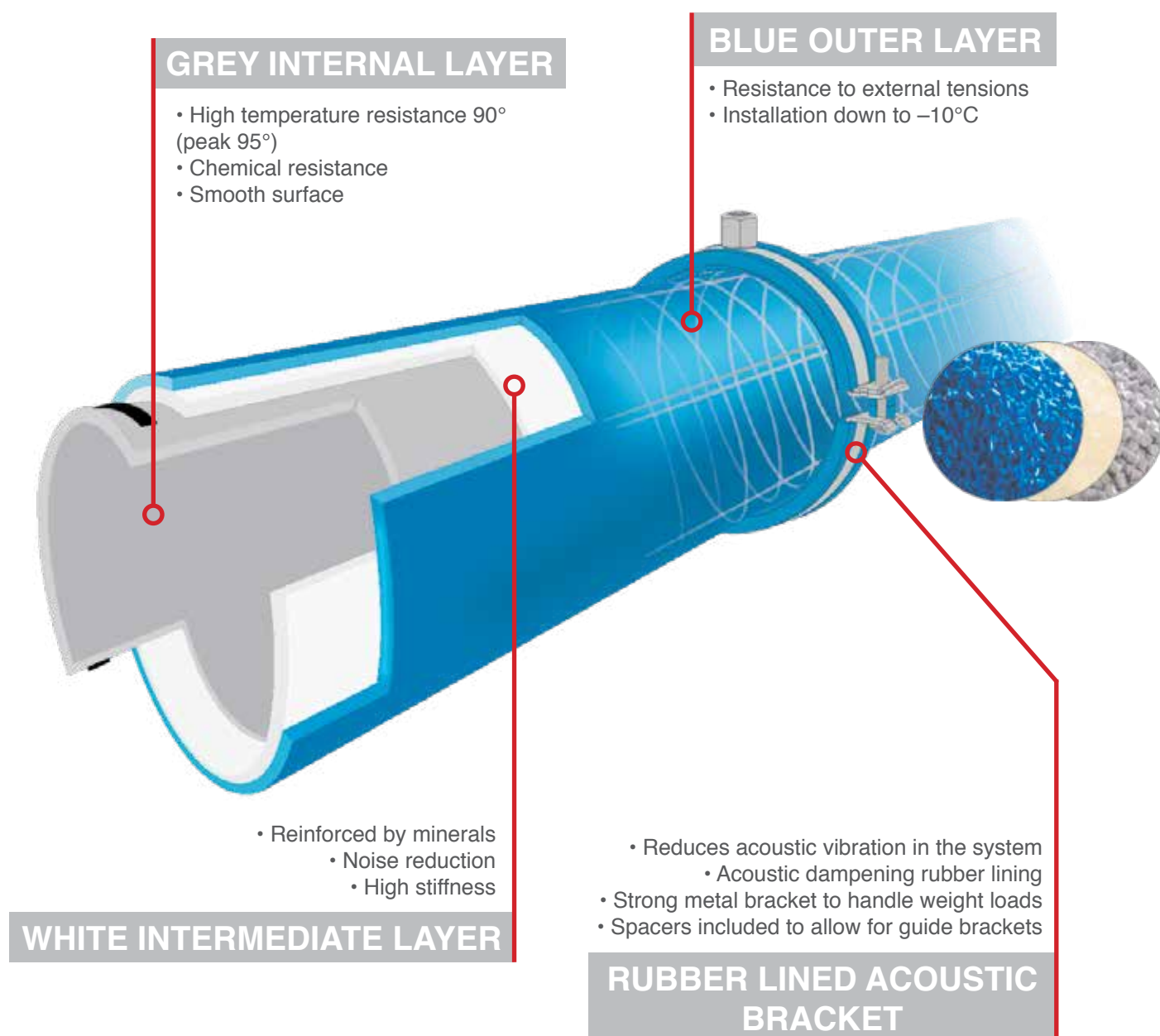
The dBlue acoustic plumbing system is engineered from a state-of-the-art combination of plastic and sound absorbing mineral filler (PP-MD). The dBlue system is designed to minimise the transfer of sound within sanitary and drainage plumbing applications.

The material formula is developed by the Aliaxis R&D laboratory and offers a unique combination of acoustic performance, weight, chemical and temperature resistance with mechanical strength.

The triple-layer pipe structure is produced using the latest co-extrusion technology. Each layer has its own function which is optimised to reduce sound levels, increase mechanical characteristics and improve the drainage flow.

Used in conjunction with the dBlue acoustic rubber lined brackets, the system effectively uncouples the vibrations and greatly reduces noise and acoustic vibrations.

These acoustic attributes make dBlue ideal for residential housing, multi occupancy apartments, hospitals, hotels and other commercial buildings where reduced noise levels are required.



Passed the test

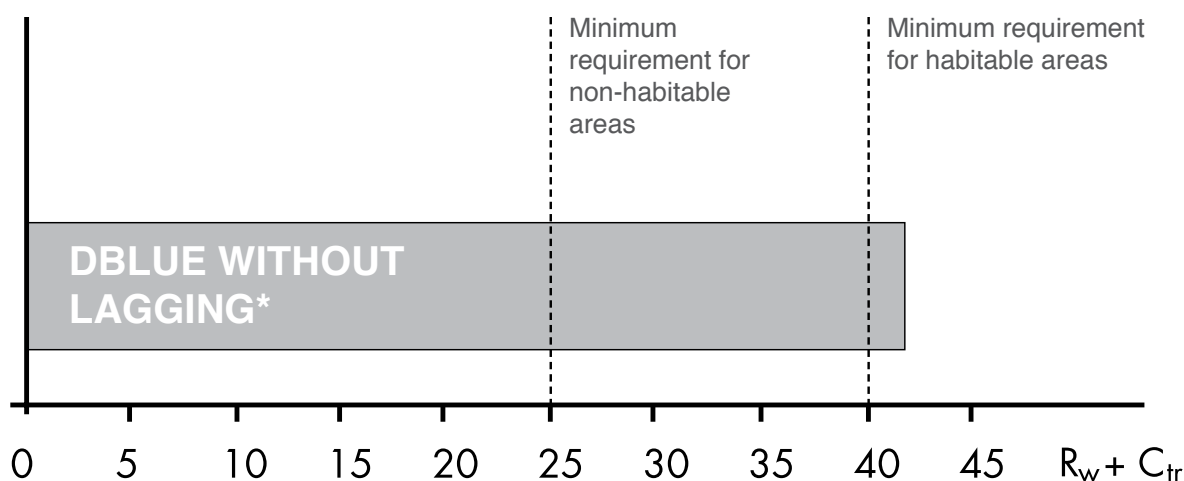
The dBlue plumbing system has been tested as an international solution. Australia and New Zealand share many plumbing standards. To offer the best proof of performance for a regional solution dBlue has been tested to Australian requirements for acoustic plumbing noise. These requirements include testing to established standards AS/NZS ISO 717.1:2004 and AS/NZS ISO 140.7:2006.

How dBlue reduces air-borne noise

Air-borne noise is reduced using absorbent materials. The plastic PP-MD used for dBlue is a special formula adding sound-dampening mineral fillers with increased weight to maximise the absorbance of air-borne noise sound waves.

How dBlue reduces structure-borne noise

Structure-borne noise is reduced by using soft material to acoustically uncouple the vibrating source or impact event. The dBlue acoustic bracket has a special rubber lining designed to best uncouple any vibrations from the pipe system.



* $R_w + C_{tr}$ 40 results are extrapolated based on the $R_w + C_{tr}$ 25 results. Comparative testing with uPVC and lagging based on using 13mm Plasterboard and R1.5 insulation batts.

CISRO is Australia's national science agency, and is one of the largest and most diverse scientific institutions in the world with more than 50 sites throughout Australia and overseas.

dBlue has been independently tested by the Commonwealth Scientific and Industrial Research Organisation (CSIRO) and meets the required $R_w + C_{tr}$ 25 and 40 benchmarks without the need for lagging.



Options dBblue

*With a range like this,
we have you covered.*

The Range

The dBblue acoustic plumbing system includes a full range of pipes, brackets and fittings allowing for optimal sound dampening in sanitary or drainage applications within buildings.



Pipes

Pipe with socket



Vinindex Code	Akatherm Code	Nominal Size - Diameter (mm)	Nominal Size - Length (mm)
67210*	PPA-040-018-025-D	40	250
67211*	PPA-040-018-050-D	40	500
67212	PPA-040-018-100-A	40	1000
67215	PPA-040-018-300-A	40	3000
67216*	PPA-050-018-015-D	50	150
67217	PPA-050-018-025-D	50	250
67218	PPA-050-018-050-D	50	500
67219	PPA-050-018-100-A	50	1000
67220*	PPA-050-018-150-A	50	1500
67221*	PPA-050-018-200-A	50	2000
67222	PPA-050-018-300-A	50	3000
67224	PPA-075-023-025-D	75	250
67225	PPA-075-023-050-D	75	500
67226	PPA-075-023-100-A	75	1000
67227*	PPA-075-023-150-A	75	1500
67228*	PPA-075-023-200-A	75	2000
67229	PPA-075-023-300-A	75	3000
67237*	PPA-110-034-015-D	110	150
67238	PPA-110-034-025-D	110	250
67239	PPA-110-034-050-D	110	500
67240	PPA-110-034-100-A	110	1000
67241*	PPA-110-034-150-A	110	1500
67242	PPA-110-034-200-A	110	2000
67243	PPA-110-034-300-A	110	3000
67253*	PPA-160-049-050-A	160	500
67254	PPA-160-049-100-A	160	1000
67256*	PPA-160-049-200-A	160	2000
67257	PPA-160-049-300-A	160	3000

*Longer lead-times apply

Fittings

Double socket



Vinindex Code	Akatherm Code	Nominal Size (mm)
67324	VMD-040-000-00D	40
67325	VMD-050-000-00D	50
67326	VMD-075-000-00D	75
67328	VMD-110-000-00D	110
67330	VMD-160-000-00D	160

*Longer lead-times apply

Fittings

Sleeve socket



Vinidex Code	Akatherm Code	Nominal Size (mm)
67331	VMP-040-000-00D	40
67332	VMP-050-000-00D	50
67333	VMP-075-000-00D	75
67335	VMP-110-000-00D	110
67337	VMP-160-000-00D	160

*Longer lead-times apply

Reducer eccentric



Vinidex Code	Akatherm Code	Nominal Size (mm)
67338	VRD-050-040-00D	50 x 40
67339*	VRD-075-040-00D	75 x 40
67340	VRD-075-050-00D	75 x 50
67344	VRD-110-050-00D	110 x 50
67345	VRD-110-075-00D	110 x 75
67348	VRD-160-110-00D	160 x 110

*Longer lead-times apply

*Fabricated

Elbow



Vinidex Code	Akatherm Code	Nominal Size (mm)	Angle
67289	VKL-040-000-15D	40	15°
67294	VKL-050-000-15D	50	15°
67299	VKL-075-000-15D	75	15°
67309	VKL-110-000-15D	110	15°
67290	VKL-040-000-30D	40	30°
67295	VKL-050-000-30D	50	30°
67300	VKL-075-000-30D	75	30°
67310	VKL-110-000-30D	110	30°
67291	VKL-040-000-45D	40	45°
67296	VKL-050-000-45D	50	45°
67301	VKL-075-000-45D	75	45°
67311	VKL-110-000-45D	110	45°
67317	VKL-160-000-45D	160	45°
67292*	VKL-040-000-67D	40	67°
67297*	VKL-050-000-67D	50	67°
67302*	VKL-075-000-67D	75	67°
67312*	VKL-110-000-67D	110	67°
67293	VKL-040-000-90D	40	87.5°
67298	VKL-050-000-90D	50	87.5°
67303	VKL-075-000-90D	75	87.5°
67313	VKL-110-000-90D	110	87.5°
67318	VKL-160-000-90D	160	87.5°

*Longer lead-times apply

Swept bend



Vinidex Code	Akatherm Code	Nominal Size (mm)	Angle
67628	VKL-050-LRB-90D	50	90°
67629	VKL-075-LRB-90D	75	90°
67314	VKL-110-LRB-90D	110	90°
*Longer lead-times apply			

Socket plug



Vinidex Code	Akatherm Code	Nominal Size (mm)
67282	VKK-040-000-00D	40
67283	VKK-050-000-00D	50
67284	VKK-075-000-00D	75
67286	VKK-110-000-00D	110
67288*	VKK-160-000-00D	160
*Longer lead-times apply		

Use socket securing clip

Clean out branch 90°



Vinidex Code	Akatherm Code	Nominal Size (mm)	Angle
67274	VCZ-075-000-00D	75	90°
67276	VCZ-110-000-00D	110	90°
67278	VCZ-160-000-00D	160	90°
*Longer lead-times apply			
*Assembled			

Expansion socket



Vinidex Code	Akatherm Code	Nominal Size (mm)
67279	VDK-075-000-00D	75
67280	VDK-090-000-00D	90
67281	VDK-110-000-00D	110
*Longer lead-times apply		

Branch



Vinidex Code	Akatherm Code	Nominal Size (mm)	Angle
67357	VTR-040-040-45D	40 x 40	45°
67360*	VTR-050-040-45D	50 x 40	45°
67363	VTR-050-050-45D	50 x 50	45°
67369	VTR-075-050-45D	75 x 50	45°
67372	VTR-075-075-45D	75 x 75	45°
67387	VTR-110-050-45D	110 x 50	45°
67390	VTR-110-075-45D	110 x 75	45°
67395	VTR-110-110-45D	110 x 110	45°
67402	VTR-160-110-45D	160 x 110	45°
67404	VTR-160-160-45D	160 x 160	45°
67358*	VTR-040-040-67D	40 x 40	67°
67364*	VTR-050-050-67D	50 x 50	67°
67373*	VTR-075-075-67D	75 x 75	67°
67359	VTR-040-040-90D	40 x 40	87.5°
67365	VTR-050-050-90D	50 x 50	87.5°
67374	VTR-075-075-90D	75 x 75	87.5°
67389	VTR-110-050-90D	110 x 50	87.5°
67397	VTR-110-110-90D	110 x 110	87.5°
67403	VTR-160-110-90AD	160 x 110	87.5°
67405	VTR-160-160-90D	160 x 160	87.5°
67368*	VTR-075-040-90D	75 x 40	87.5°
67392	VTR-110-075-90D	110 x 75	87.5°

*Longer lead-times apply

Double branch



Vinidex Code	Akatherm Code	Nominal Size (mm)	Angle
67272	VCRZ-110-110-090	110 x 110 x 110	87.5°

*Longer lead-times apply

*Fabricated

Traps

Floor waste gully



Vinidex Code	Akatherm Code	Nominal Size (mm)
67412	VWP-110-050-75D	110 x 50 x 50 x 50 x 75

*Longer lead-times apply

Four way riser



Vinidex Code	Akatherm Code	Nominal Size (mm)
67323	VKO-110-050-00D	110 x 50 x 50 x 50 x 50

*Longer lead-times apply

Adjustable disconnecter trap



Vinidex Code	Akatherm Code	Nominal Size (mm)
67355	VSF-110-000-00D	110
*Longer lead-times apply		
*Fabricated		

P-trap



Vinidex Code	Akatherm Code	Nominal Size (mm)	Angle
67356	VSFP-110-000-00D	110	135°
*Longer lead-times apply			

Accessories & spare parts

Bracket with rubber lining (metal)



Vinidex Code	Akatherm Code	Nominal Size (mm)
67202	POB-STL-040-000	40
67203	POB-STL-050-000	50
67204	POB-STL-075-000	75
67206	POB-STL-110-000	110
67208	POB-STL-160-000	160
*Longer lead-times apply		

Rubber ring



Vinidex Code	Akatherm Code	Nominal Size (mm)
67258*	USZ-KAN-040-BL	40
67259*	USZ-KAN-050-BL	50
67260*	USZ-KAN-075-BL	75
67262*	USZ-KAN-110-BL	110
67265*	USZ-KAN-160-BL	160
*Longer lead-times apply		

dBlue lubrication



Vinidex Code	Akatherm Code	Volume (mL)
67201	PAS-250-000-000	250
*Longer lead-times apply		

Chamfer tool



Vinidex Code	Akatherm Code	d, / d
67200	NAR-FAZ-040-160	40 - 160



Certification to Australian and New Zealand Standards

dBlue is designed in accordance with the installation standard AS/NZS3500.2. The system complies with AS/NZS 7671 and has Watermark certification. The dBlue system has been developed under a ISO 9001 Quality management system and ISO 14001 Environmental management system.

- AS/NZS 7671:2010 – Plastic piping systems for soil and waste discharge (low and high temperature) inside buildings – Polypropylene(PP)
- Watermark - WMK25729
- AS/NZS 5065:2005 – Polyethylene and polypropylene pipes and fittings for drainage and sewerage applications
- Branz appraisal - No 610



System Overview

The dBlue system includes design, installation and technical instructions on how to install rubber ring components using proprietary dBlue lubrication.

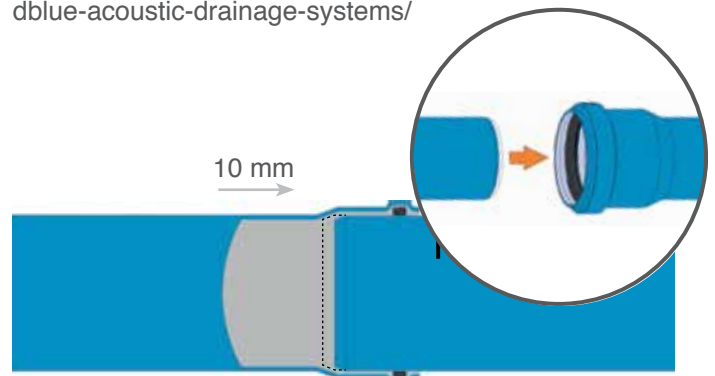
The dblue system has specific horizontal and vertical bracketing plans including required anchor and guide points.

Rubber ring jointing system

The dblue system has specific horizontal and vertical bracketing plans including required anchor and guide points.

Refer to dBlue Technical Manual on the Vinidex website:

vinidex.com.au/products/building-drainage-systems/dblue-acoustic-drainage-systems/



Bracket plan

The dBlue system includes design, installation and technical instructions on how to install rubber ring components using proprietary dBlue lubrication.

The dblue system has specific horizontal and vertical bracketing plans including required anchor and guide points.

Key

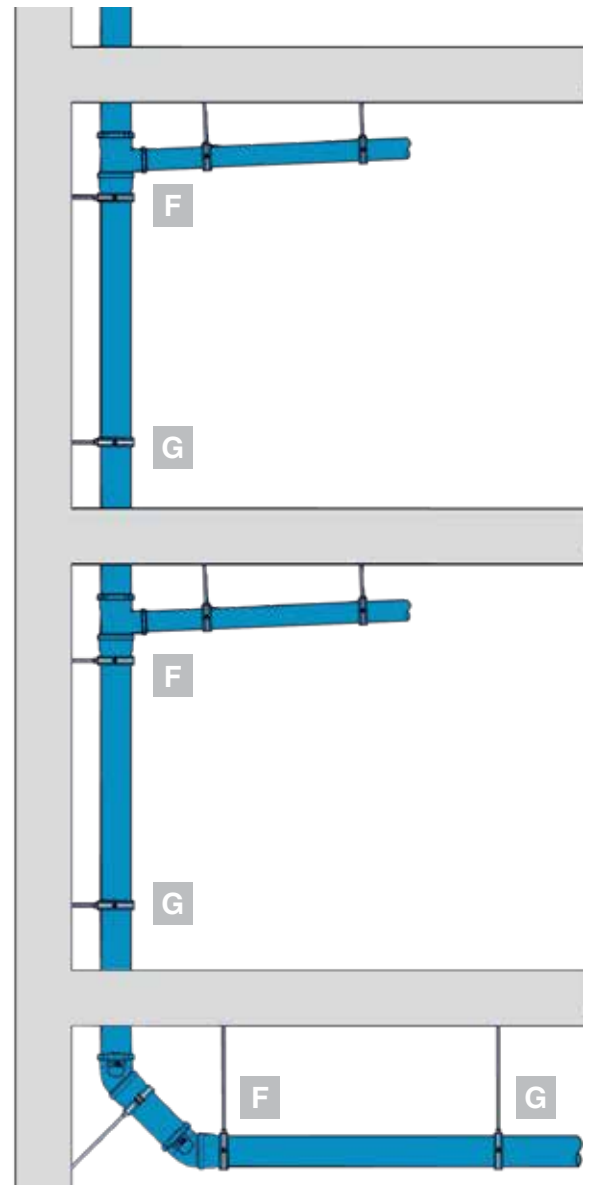
F Anchor point bracket (closed without spacers)

G Guide bracket (open with 2 spacers)

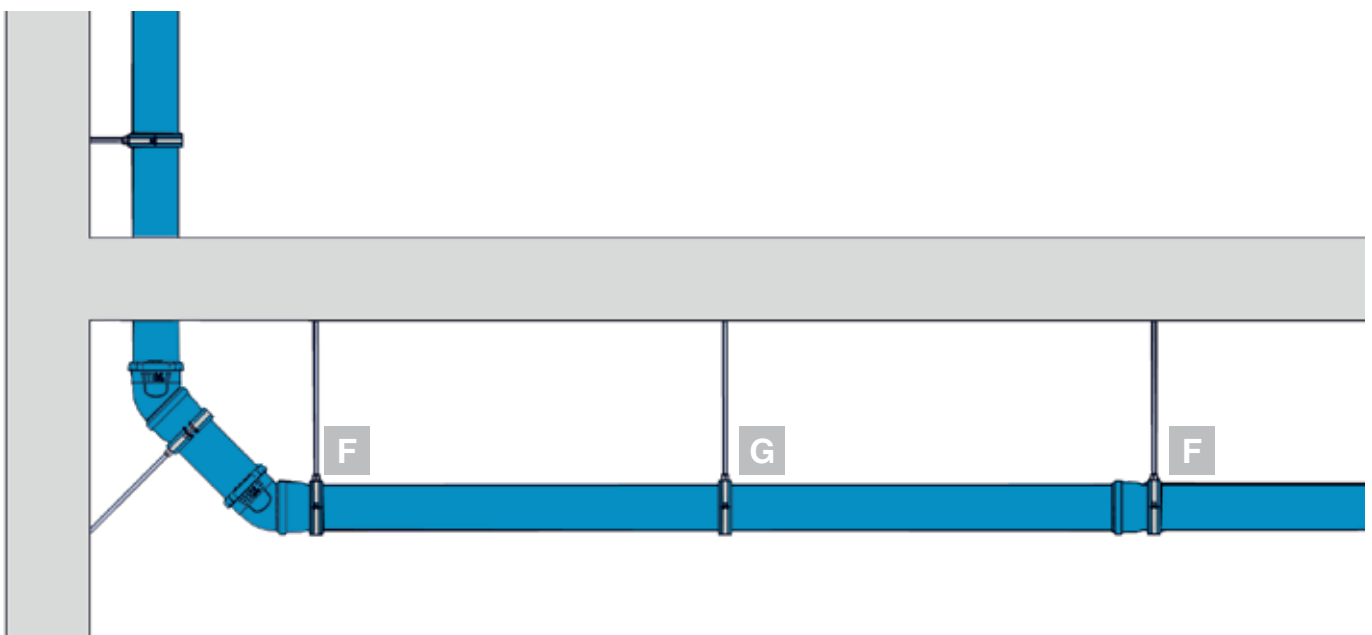
One fitting per floor level

- ✓ Fixed point bracket directly below each socket
- ✓ Guide bracket at $\frac{2}{3}$ of the pipe length

Vertical stack



Horizontal stack





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Low Noise DWV System

Sanitary and Drainage

VinidexPty Limited
ABN 42 000 664 942
HEAD OFFICE
Level 4, 26 College Street
Darlinghurst NSW 2010
PO Box 747, Darlinghurst, NSW, 1300

Customer Service
Phone: 13 11 69
Fax: 13 24 43
Email: sales@vinidex.com.au
Web: www.vinidex.com.au

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