BIG RIVER



Formwork Solutions



Over 130 years

of helping form Australia.

Contents

Formply	**4**
ArmourForm™ F17	4
ArmourForm™ F22	4
ArmourForm™ F27	4
Deckply Range	5
Deckply Bendy	5
Deckply F17	5
Off-Form Premium	6
Structural Plywood F11	6
Anti-Slip Plywood	7
Laminated Veneer Lumber	**8**
FormBEAM LVL	8
E-Form by Wesbeam	8
TruForm by Carter Holt Harvey	9
Form-on smartBEAMplus 20N	9
RedEdge	10
Scaffold Plank	10
Steel Decking	**11**
ArmourDeck™	11
Permanent Formwork System	**12**
AFS Rediwall®	12
Bridge Panels	**13**
InfillPlus®	13
Formwork Accessories	**14**
Case Studies	**16**
Stirk Park Skate Park	16
Culbara Street Residence	17
Perth Zoo	18
Mooloolaba Waterfront Residence	19

Formply

ArmourForm™ (F17 / F22 / F27)

ArmourForm™ F17

ArmourForm™ F17 (grey edge, yellow stripe) formply is constructed from mixed species veneers with a hardwood face and phenolic overlay. ArmourForm™ F17 is highly durable and ideal for general formwork use such as decks, precast and tilt-up panel construction.

With proper onsite care and installation, a high quality off-form class 2 finish can be achieved.

ArmourForm™ F22

ArmourForm™ F22 (grey edge, red stripe) formply is constructed from a mixture of hardwood and pine veneers with a high-density phenolic overlay. This versatile formply can be used in all applications, such as tableforms, shutters, columns, conventional and system formwork.

ArmourForm™ F27

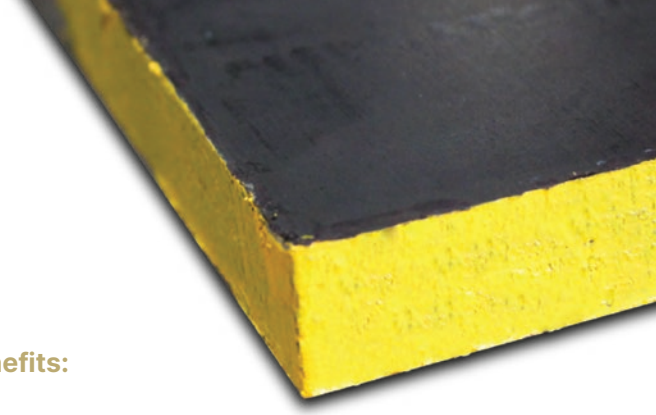
ArmourForm™ F27 (green edge) total hardwood formply has a high density phenolic overlay, ensuring more concrete pours and thus greater value.

This premium quality, new generation formply is designed and manufactured for fixed formwork applications - tableforms, jumpforms, shutters, heavy civil engineering and mining applications.

Key Benefits:

- Australian-made, Grafton mill, 40+ years
- F17, F22 and F27 stress grades
- Up to 50+ reuses (F27)
- EWPAA, JAS-ANZ and BCA certified
- Low formaldehyde (E0); proven on major projects.

Scan here for detailed technical information on ArmourForm™ Range



Deckply Range

Deckply is a high-quality plywood panel developed and engineered predominantly from graded eucalyptus veneers to the Australian Formwork plywood standard AS 6669 as well as to the Australian and New Zealand standard AS/NZS 2269-Structural Plywood. The Deckply range is available in numerous sizes and thicknesses to cover all your bending and soffit requirements.

Key Benefits:

- Graded eucalyptus veneers
- AS 6669 and AS/NZS 2269 compliant
- Wide range of sizes and thicknesses
- Slip-resistant option available
- Suits formwork and structural use.

Deckply Bendy

The Deckply Bendy Range is purpose-built for curved and radius formwork applications, delivering the flexibility, strength and on-site performance that demanding construction projects require. Manufactured to Australian Formwork Plywood Standard AS 6669 and compliant with AS/NZS 2269 – Structural Plywood, every sheet is engineered to meet the highest standards of structural integrity and reliability.

With overlay on both sides, Deckply Bendy Range is available in a standard 2400 × 1200mm sheet size across 4mm, 9mm and 12mm thicknesses, giving builders a flexible solution across a range of curved formwork applications.

Key Benefits:

- Built for curved and radius formwork
- AS 6669 and AS/NZS 2269 compliant
- Overlay both sides for clean release
- 4mm, 9mm and 12mm thicknesses
- Flexible for skinning, hoardings and general use.

Deckply F17

Deckply F17 is a high quality plywood panel developed and engineered predominantly from graded eucalyptus veneers. Manufactured and structurally characterised specifically for use in Formwork to the requirements of AS 6669-2007.

Glued with phenol formaldehyde resin and over laid with a hard durable water proof resin impregnated paper to give concrete a smooth finish. The glue is Marine A-Bond, E0, Deckply can withstand rigours of construction moisture and provide a significant number of reuses.

Key Benefits:

- AS 6669 and AS/NZS 2269 compliant
- Class 2 off-form finish, first pour
- Lightweight - 22.5kg per sheet
- Reusable, multiple site uses
- A-Bond, E0 emissions, precise straightness.

Scan here for detailed technical information on Deckply Range



Off-Form Premium

Off-Form Premium by Big River Group is a high-end, Australian-made Formply engineered to deliver superior finishes for both commercial and residential projects. Manufactured to AS/NZS 6669-F22, it offers builders a dependable, consistent surface for high-quality off-form concrete finishes.

Key Benefits:

- High-end Australian-made Formply
- AS/NZS 6669-F22 stress grade
- 380GSM overlay, smooth finish
- Class 2 finish, A-Bond adhesive
- 17mm, two sheet sizes, nationwide.

Scan here for detailed technical information on Off-Form Premium

Structural Plywood (ArmourPly)

Big River Group's Structural Plywood F11 is a versatile, high-performing panel suitable for a wide range of structural and general building applications. Manufactured from sustainably grown timber, it delivers reliable strength, stability, and long-term performance across commercial, residential, and industrial projects.

All sheets are produced under third-party audited quality systems, ensuring consistent quality and full compliance.

Available in 7mm to 25mm thicknesses and standard sheet sizes of 2400mm x 1200mm, with additional sizes available on request. Options include untreated, H2 glueline, or H3 LOSP treatment (lead times may apply). With a Super E0 formaldehyde rating, it's also suitable for sensitive environments such as schools, offices, and residential interiors.

Key Benefits:

- AS/NZS 2269, F11 to F27 grades
- A-Bond, permanent and weather resistant
- Termite resistant, no chemical treatment
- EWPAA-audited, every sheet graded
- Suits bracing, flooring, lining and joinery.



Scan here for detailed technical information on Structural Plywood F11

Anti-Slip Plywood

Big River Group's Anti-Slip Plywood features a specially designed Anti-Slip surface on one side, with a phenolic film on the reverse side to provide moisture protection in wet or damp exterior environments.

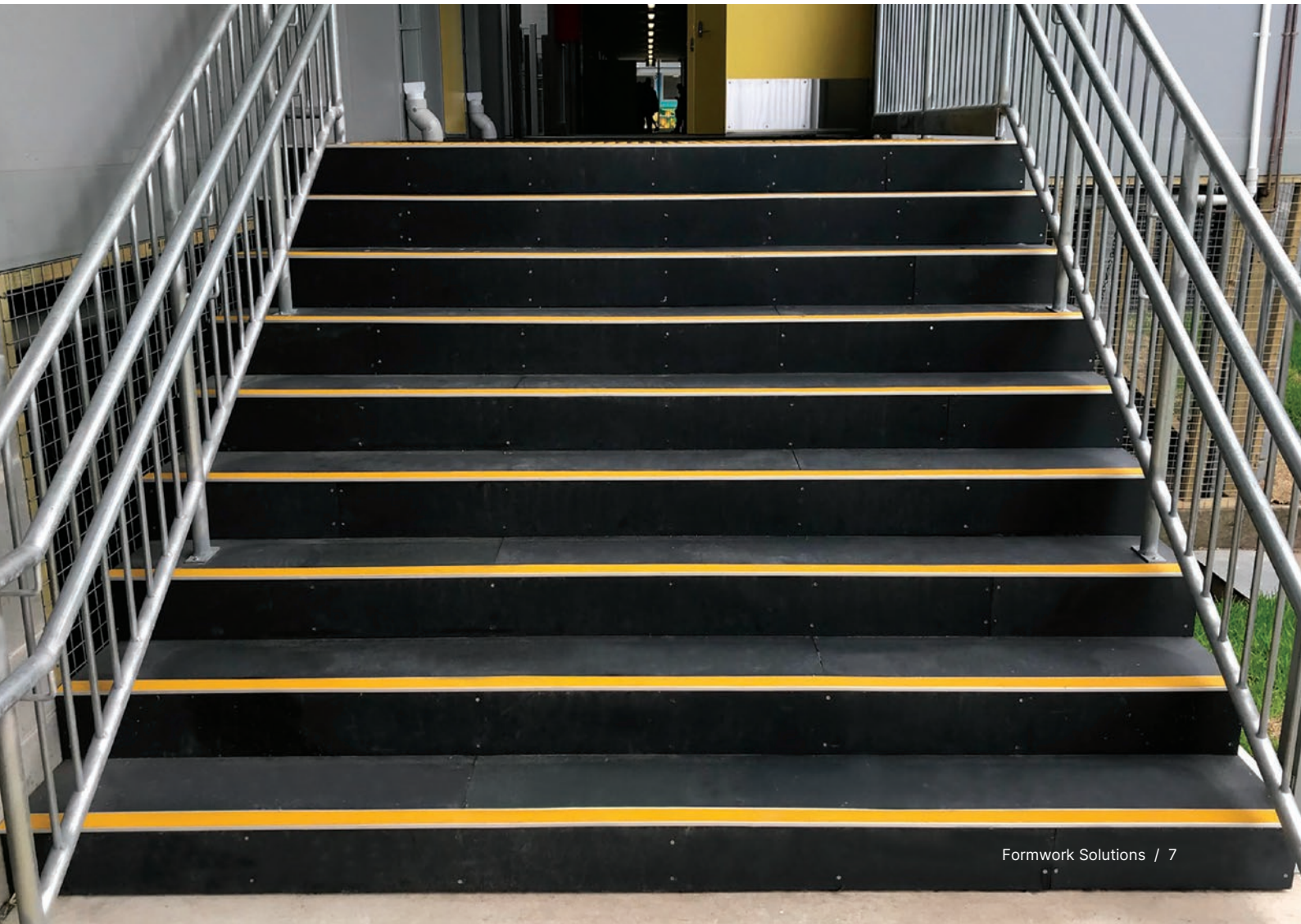
The Anti-Slip surface features a textured coating designed to provide excellent wear and slip resistance. It is manufactured with an A-Bond glue line, ensuring long-lasting durability.

Big River Group's Anti-Slip Plywood has an F17 structural rating, making it the ideal choice when superior performance is required.

Key Benefits:

- Australian-made slip-resistant plywood
- Meets BCA/NCC ramp standards, wet and dry
- AS/NZS 2269, F17 stress grade
- A-Bond adhesive, phenolic film moisture protection
- 17mm and 19mm, yellow, black or grey.

Scan here for detailed technical information on Anti-Slip Plywood



Laminated Veneer Lumber

FormBEAM LVL

FormBEAM is structural Laminated Veneer Lumber (LVL), purpose-engineered for use in structural concrete formwork applications. Manufactured under a controlled production process, FormBEAM meets the requirements of AS/NZS 4357, with product quality independently audited and certified by BSI.

Key Benefits:

- AS/NZS 4357 structural LVL
- BSI certified quality
- Bright orange, moisture resistant
- Colour-coded ends by length
- Low emissions, plantation-sourced timber.

Scan here for detailed technical information on FormBEAM LVL

E-Form by Wesbeam



Wesbeam e-form is engineered LVL formwork beams with wax-coated protection, delivering strength, straightness and durability for demanding concrete construction environments. As an ideal formwork solution, e-form is strong, durable and light to handle, helping improve on-site efficiency where it matters most.

Key Benefits:

- Wax-coated LVL formwork beam
- Strong, durable and light to handle
- Engineered for straightness
- Improved moisture and corrosion resistance
- 100% sustainably sourced, AS/NZS 4357.

Scan here for detailed technical information on E-Form by Wesbeam

TruForm by Carter Holt Harvey

TruForm LVL beams by Carter Holt Harvey deliver consistent structural performance for demanding formwork systems. Engineered from laminated veneer lumber for uniform strength and minimal variation.

TruForm offers builders a high-strength, structural and durable LVL beam solution that stands up to long-term use on demanding job sites, backed by structural grading and Australian manufacturing standards.

Key Benefits:

- High-strength LVL, consistent performance
- F17 structural grade
- AS/NZS 4357, Australian Made
- 63–75mm thick, up to 13.2m lengths
- Suits structural, exterior and marine use.

Scan here for detailed technical information on TruForm by Carter Holt Harvey

Form-on smartBEAMplus 20N



Form-on's smartBEAMplus 20N is a cutting-edge, innovative solution specifically designed for modern construction projects. Offering advanced features that significantly enhance both efficiency and performance, the smartBEAMplus 20N helps streamline processes, reduce costs, and improve project outcomes.

Key Benefits:

- Lightweight, easy-handling beam
- Lower transport costs
- Durable reinforced P-Beam end
- High load capacity to EN 13377
- Reduced weight, lower footprint.

Scan here for detailed technical information on Form-on smartBEAMplus 20N



RedEdge



RedEdge is a Laminated Veneer Lumber (LVL) specially prepared for use in concrete formwork applications as edgeboards. RedEdge is painted red for moisture protection and square edged for ease of concrete finishing. RedEdge is light, straight and more uniform than traditional alternatives.

Key Benefits:

- LVL edge form for formwork
- Square edge, clean finish
- Painted red, moisture protected
- Lightweight and straight
- Standard 6.0m lengths, nationwide.

Scan here for detailed technical information on RedEdge

Scaffold Plank



Big River Group's Scaffold Plank is recognised for its safe and dependable performance. Crafted from strong yet lightweight laminated veneer lumber (LVL), it delivers reliable support on every job.

Key Benefits:

- Strong, lightweight LVL
- Slip-resistant safety surface
- 3.6m, 4.8m and 6.0m lengths
- 210kg max load, 1.8m max span
- Marine-grade adhesive, WLL marked.

Scan here for detailed technical information on Form-on Scaffold Plank



Steel Decking

ArmourDeck™

ArmourDeck™ steel formwork provides a fast, efficient method of creating suspended concrete slabs. The composite action of the steel decking also increases efficiency by forming a high performance composite slab.

ArmourDeck™ steel formwork offers excellent spanning capabilities, high composite strength and minimal deflection. It is ideal for both concrete and steel frame construction.

ArmourDeck™ steel formwork is roll-formed from hot-dip zinc coated, hi-tensile steel strip in a range of base metal thicknesses (BMT) conforming to AS 1397.

Key Benefits:

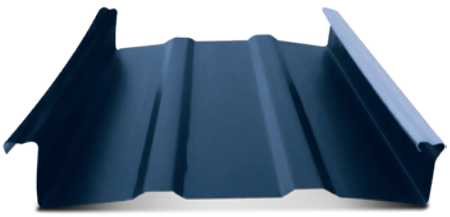
- Permanent steel formwork decking
- Doubles as tensile reinforcement
- No propping or stripping needed
- High strength, minimal deflection
- 300mm and 600mm widths, AS 1397.

Manufactured in two deck profiles to better fit the needs of your project:

ArmourDeck™ 600



ArmourDeck™ 300



Scan here for detailed technical information on ArmourDeck™

Permanent Formwork System

AFS Rediwall®

AFS Rediwall® is a tough, low-maintenance load bearing reinforced concrete system used for constructing structural walls. Perfect for above and below ground residential, commercial, and civil applications, AFS Rediwall® can be customised to your project requirements.

Its innovative system is made of prefabricated, high-quality panels and interconnecting components that simply snap or slide into place.

Key Benefits:

- Permanent formwork for structural walls
- Above and below ground use
- Prefabricated, snap-together panels
- Water resistant and low maintenance
- CodeMark certified, NCC compliant.

AFS Rediwall® sizes:

110mm 156mm 200mm 256mm 275mm 300mm



Scan here for detailed technical information on AFS Rediwall®

Bridge Panels

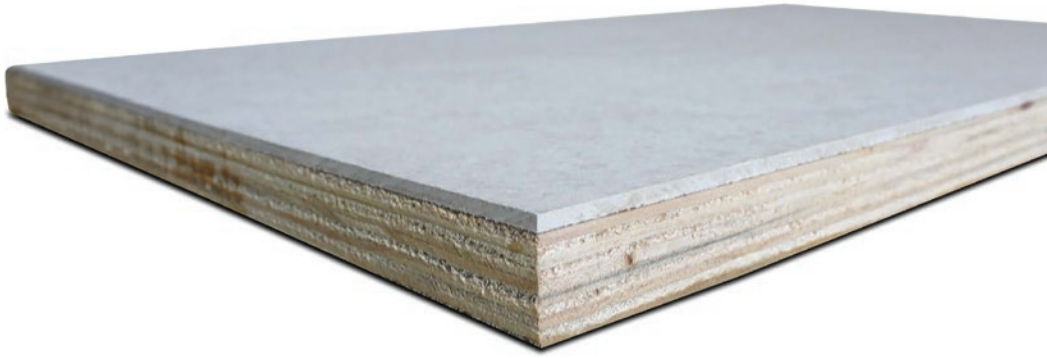
InfillPlus®

Big River Group's InfillPlus® is an engineered timber plywood panel, which is commonly cut to size and used for fitting into the top of concrete girders to allow cast-in-situ decking to be installed, preventing concrete from entering the girder tub.

Big River Group's InfillPlus® features a 4.5mm thick fibre cement sheet bonded to the underside of the panel, protecting against fibre breakdown of the timber over time and preventing it from entering the tub of the girder. This eliminates the risk of blocking internal drainage ports and reduces the potential for tannin staining of the concrete.

Key Benefits:

- Manufactured in strict accordance to AS/NZS 2269
- Greener solution with low embodied energy
- Lightweight being half the weight of total fibre cements and steel
- Factory cut-to-size service reduces on-site cutting needs
- Can be re-engineered to suit any application or meet a specific requirement upon request
- Choice of 4 product thicknesses covering a broader range of slab thicknesses - 200mm to 800mm
- Third-party verified by Advanced Bridge Engineering Systems.



Scan here for detailed technical information on InfillPlus®

Formwork Accessories

Big River Group's formwork accessory range supports every stage of a concrete pour — from fixing and bracing through to a clean strip and a quality finish.

Key Benefits:

- Covers fixing, bracing, sealing and release
- Complements plywood, LVL and steel decking ranges
- Quality materials, built for reuse
- Available nationwide.



Nails

Formwork nails are available in three different sizes, 1-inch, 2-inch and 3-inch. They are a bullet head nail used to fix various formwork fixing applications.



Fillets (Timber & Plastic)

Fillets are triangular timber or PVC strips nailed or glued to the top of formwork to create a neat 45-degree chamfer edge on formed concrete. They reduce edge chipping, stop grout loss and leave a smooth, professional finish on panels, columns and beams.



Z Bars

Z Bars, also known as tie bars, are threaded steel rods used in formwork to tie opposite panels together, maintaining form shape and preventing bulging during concrete pours. They are commonly used with wing nuts, plates, conduits and conduit cones.



Nuts & Plate

Wing nuts and plates are fastening components used with Z-Bars in formwork systems to hold panels tightly together and evenly distribute clamping pressure across the form face. The winged design allows for quick manual tightening and release without tools.



Conduit & Cones

Conduits are PVC tubes used to create a pathway for Z-Bars during the assembly of formwork structures, with conduit cones fitted at the panel face to allow the tie bar to be cleanly withdrawn and the resulting hole easily patched after stripping.



Silicone

Silicone is used in formwork to seal joints and gaps, preventing concrete leakage during pouring. Its flexibility and durability make it ideal for creating smooth, clean edges in concrete finishes.



Releasing Agent (Lanotec)

A biodegradable, water-soluble concentrated release agent that aids in the stripping of Formply, assists in breaking concrete bonds, and helps protect frames, props and other metal equipment from concrete build-up and corrosion.

Scan here for detailed technical information on Formwork Accessories



Case Studies







Stirk Park Skate Park, Kalamundra, Western Australia

Nestled among mature trees and natural bushland, the park's expansive concrete layout features deep bowls, sculpted transitions, and tiered platforms, brought to life through the precision of engineered timber formwork. Products including Laminated Veneer Lumber (LVL), DeckPly F17, and supporting framing solutions allowed the park to follow the contours of the landscape, reinforcing a strong connection to place while ensuring structural integrity and long-term durability.

DeckPly F17 formwork is engineered to AS 6669 and AS/NZS 2269 standards, with a durable marine-grade phenolic 'A' bond overlay that ensures a smooth concrete finish and longevity. The result is a space that balances performance with local identity, making timber not just a construction material, but a tool for storytelling and community pride.

Scan here to view our Formwork Past Projects







Culbara Street Residence

Big River Group's ArmourForm™ F22 was selected to achieving the unique, Brazilian-inspired design character of a contemporary riverside home in Queensland.

ArmourForm™ F22 is a cost-effective formply with a high strength-to-weight ratio that can be used to achieve a high quality off-form finish and was instrumental in achieving the unique design character of the Culbara Street home.

Bringing a layer of softness to the solid concrete elements, Abodo Vulcan timber battens were also used extensively throughout the home. Selected for their sustainability, durability and stability, the high-performance timber profile was able to withstand the necessary performance requirements, internally and externally, as well as providing the desired aesthetic for the project.

Scan here to view our Formwork Past Projects

Case Studies







Perth Zoo

At Perth Zoo, timber formwork played a vital role in delivering a network of curved retaining walls, flowing pathways, and naturalistic interactive spaces. Set within lush greenery, the completed play and leisure precinct integrates concrete and timber-based infrastructure seamlessly into the surroundings. The use of LVL, DeckPly, and ArmourForm™ supported the creation of elegant, curved forms that enhance the visitor experience while standing up to the demands of high daily foot traffic. The project is a clear example of how timber can enable playful, durable, and environmentally conscious design outcomes.

Scan here to view our Formwork Past Projects







Mooloolaba Waterfront Residence

Big River Group's formwork range was selected for an impressive waterfront home in Mooloolaba on the Sunshine Coast, built by Gray Constructions with formwork by Luchetta Formwork.

Formwork LVL provided the strength and reliability needed for the structural formwork, while Deckply delivered a durable, consistent surface for the slab work. ArmourForm™ F22 Formply was used to achieve a high quality off-form finish, helping bring the home's ambitious design to life.

Combining strength, reliability and a clean finish, our LVL, Deckply and F22 Formply were instrumental in the successful completion of this standout project.

Scan here to view our Formwork Past Projects

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