



KOROK®

INTERTENANCY APARTMENT SYSTEMS INSTALLATION GUIDE

NOVEMBER 2023

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INTERTENANCY APARTMENT SYSTEMS INSTALLATION GUIDE

SECURE, QUIET, FLEXIBLE.

Multi-unit construction projects, such as apartments, call for well-tested technology that's simple to install. KOROK® Intertency wall offers the benefits of proven fire and acoustic performance, and the security of a solid wall design.

SECURE

KOROK® panels consist of a steel shell filled with aerated concrete. Having a solid wall provides peace of mind to occupants in the knowledge that they are physically separated from neighbouring dwellings.

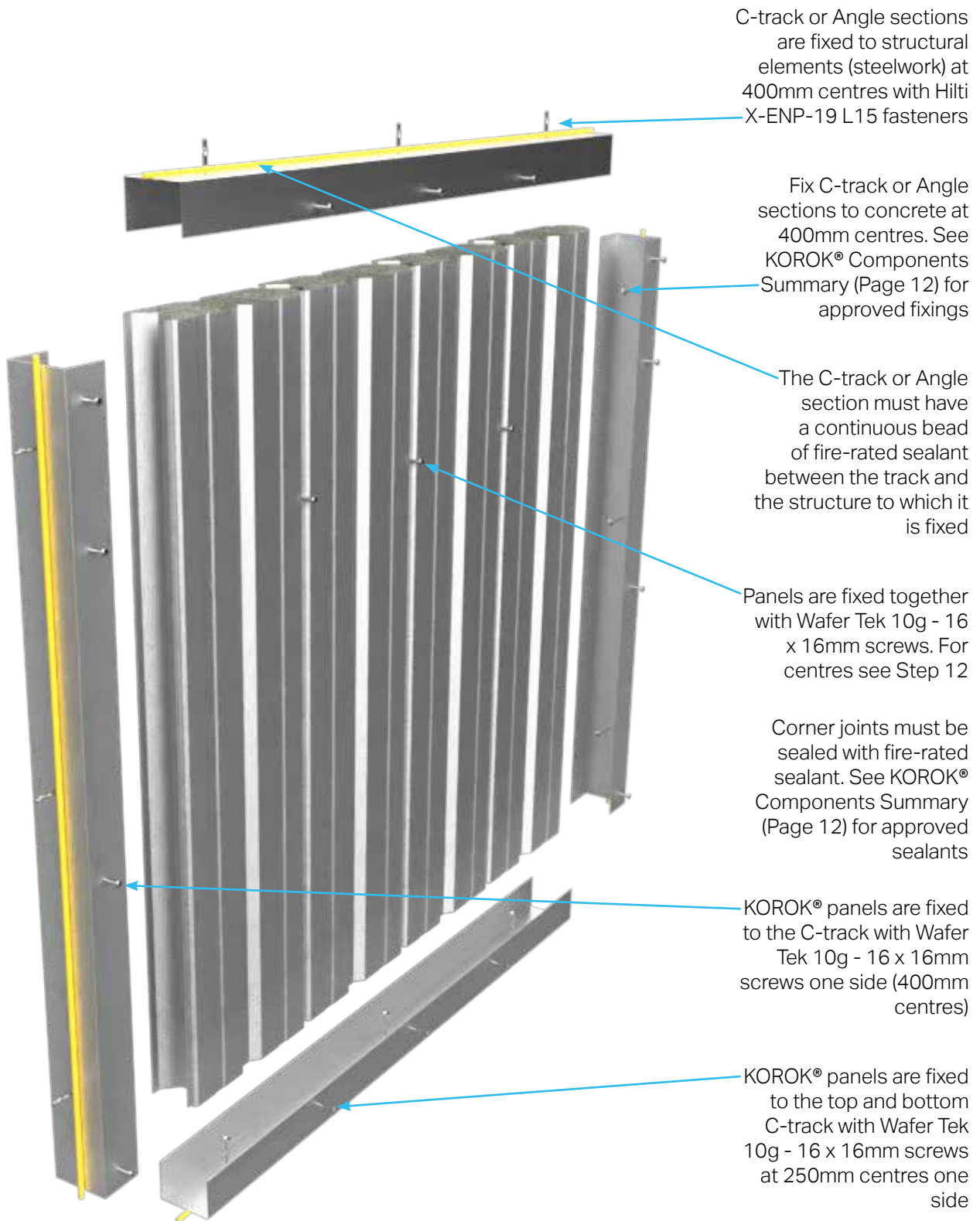
QUIET

KOROK® panels offer superior mass over traditional timber and plasterboard or equivalent systems resulting in enhanced sound attenuation, particularly in the more invasive lower frequencies. This means that residents are comfortable in their own space without the intrusion of noise from other dwellings.

FLEXIBLE

Because KOROK® panels provide all the fire protection you need, you can run electrical and plumbing services on the intertenancy wall without the need for special penetration seals around each pipe or light switch. This allows you the flexibility of placing a TV and kitchen where you want, and the ability to hang fixtures on the wall without compromising the fire and acoustic resistance of the Intertency wall.

INTERTENANCY APARTMENT SYSTEMS INSTALLATION



INTERTENANCY APARTMENT SYSTEMS INSTALLATION

VERTICAL INSTALLATION

1 Vertical installation of the KOROK® panels requires the C-track to be fixed to the supporting structure, e.g. walls, columns, portals, soffits and slabs.

Plan your setout.

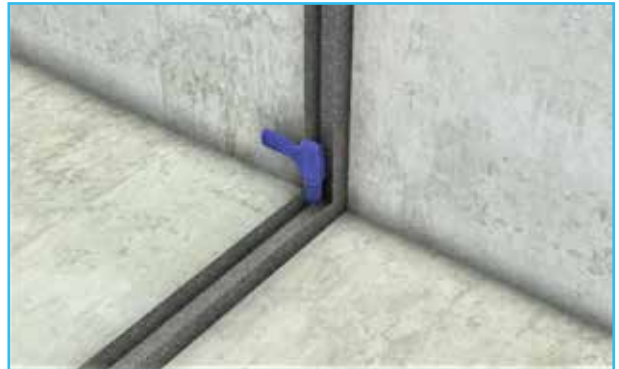


2 To ensure the C-track is sealed to the structure, a continuous bead of fire-rated sealant is run around the perimeter before the C-track or Angle sections are laid and fixed.

Or the sealant can be applied directly to the C-track before fixing in place.



3 Using a masonry drill bit, pre-drill the C-track at 400mm centres.



4 Then use the approved fixings to secure the C-track.



INTERTENANCY APARTMENT SYSTEMS INSTALLATION

5 If the surrounding surface is uneven or if you're not sure you have a good seal, add a continuous bead of fire-rated sealant around the perimeter of the C-track where it contacts the surrounding surface.

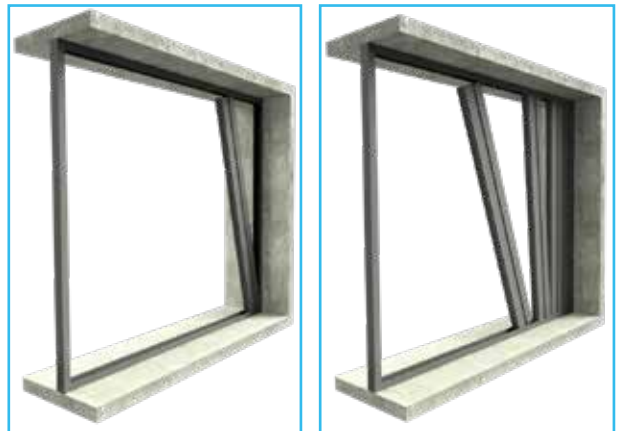


6 KOROK® panels must be cut 20mm shorter than the structural opening measurement to allow for fitting.

Pull back a 300mm section of the strippable film on the ends of the panels before placing the panels into the C-track.

Ensure that the first panel is plumbed vertical after fitting into the C-track. Screw fix the panel into place to the C-track.

Subsequent panels are placed in a tilt and snap action.



7 Ensure the tongue and groove are fully locked to maintain the fire and acoustic performance. Remove strippable film at the end of each day's work.



CUTTING OF KOROK® PANELS

8 KOROK® panels can be cut to length and width with the use of a reciprocating saw or a radial saw with dust extraction. Diamond cutting discs are recommended for radial saws.

Where KOROK® panels are trimmed to width, the cut edge of the panel is fitted into the C-track and so is always the last panel abutting the wall or column. The panel is then sealed and fixed in position as usual.

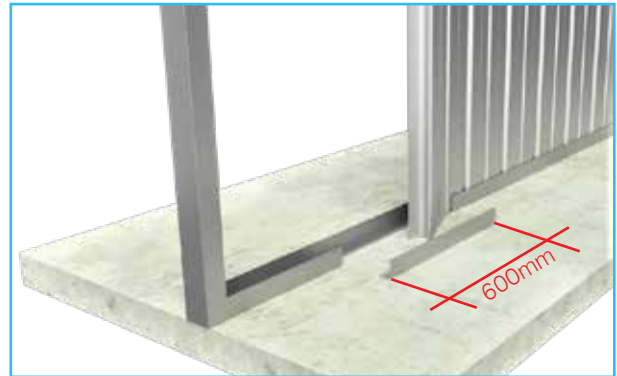


INTERTENANCY APARTMENT SYSTEMS INSTALLATION

LAST PANEL

9 Stop short of the end vertical KOROK® C-track by approximately 1 metre and cut out a 600mm Angle section from the top and bottom C-track.

Plan ahead and make an allowance for a 50mm overlap onto the panels installed prior to the last remaining two panels.



10 Cut your end panel (the last panel) ensuring that a distance of 500mm remains between panels for the last two panels to be squeezed into position.



11 Once the final two panels are in position, simply replace the Angle and fix to panels. Screw the C-track and Angle sections to the panels in the normal fashion.



11a When using 51mm KOROK panels, seal the 3 closed-off panel joints with fire-rated sealant to one side.



INTERTENANCY APARTMENT SYSTEMS INSTALLATION

12 Panels must be screwed together into every panel joint as per the vertical centres in Table 3 below.

TABLE 3 - FASTENINGS

Panel Thickness (mm)	Panel Orientation	Max. Wall Height (m)	Panel to Panel Max. Centres (mm)	Sides	Notes:
51	Vertical	5m	1000	one	Measured from floor level
78	Vertical	6m	1000	one	Measured from floor level

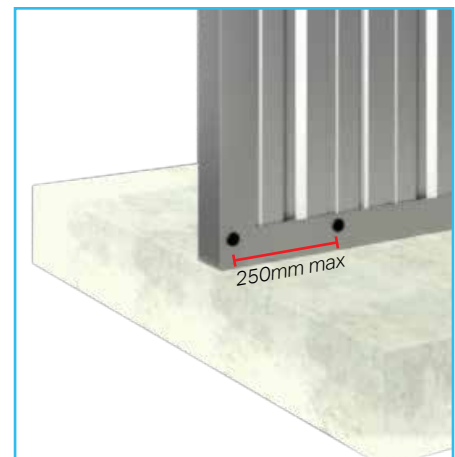
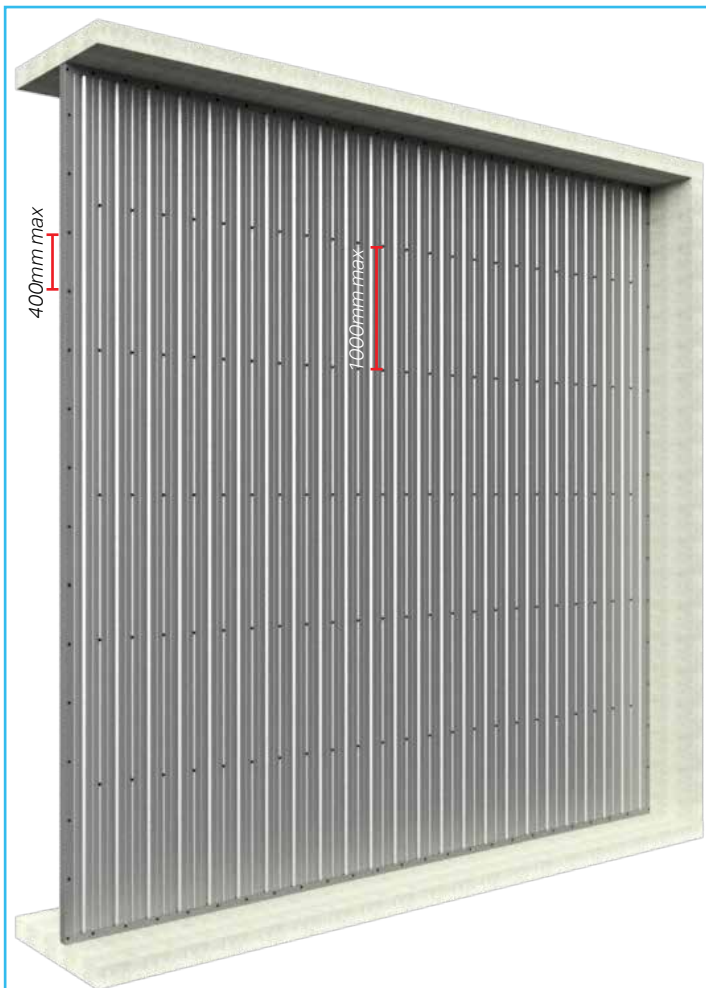
C-TRACK

C-track is fixed to the KOROK® panels at 400mm centres one side on the vertical C-track and 250mm centres one side on the horizontal C-track.

At corners where two lengths of KOROK® C-track intersect, the two pieces must be fixed to each other with 1 Wafer Tek 10g - 16 x 16mm screw.

DEFLECTION C-TRACK DETAILS

Dead and live loads can cause significant deflection in some structures. KOROK® can provide deflection C-track details where deflection loadings are considered.

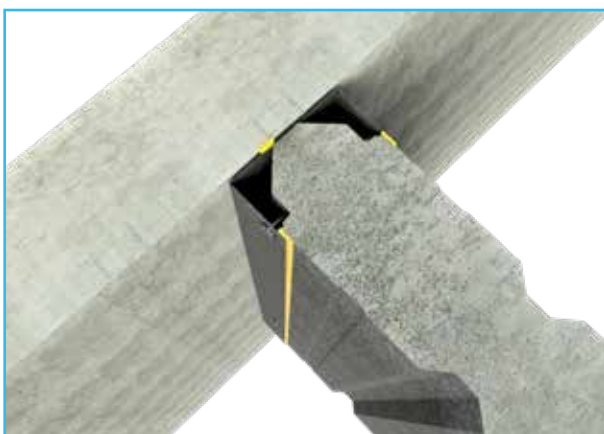


INTERTENANCY APARTMENT SYSTEMS INSTALLATION

13 Remove any remaining plastic film and then apply a continuous bead of fire-rated sealant between the KOROK® C-track and the KOROK® panels as indicated by the yellow line.



14 Fire-rated sealant details for top and sides.



INTERTENANCY APARTMENT SYSTEMS INSTALLATION

15 Using Angle as an alternative to C-track.



FINAL CHECK

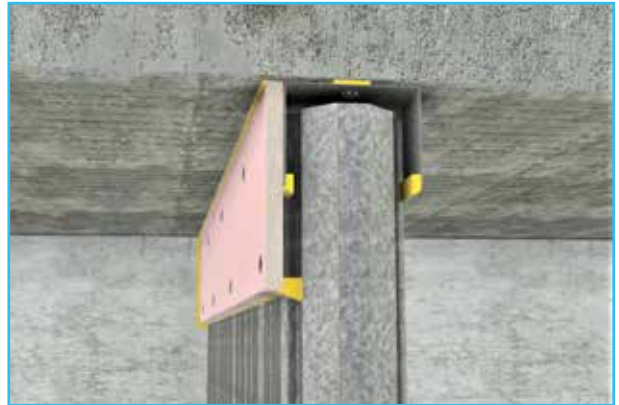
At the completion of the job and at the finish of each day's work, it is essential that the completed area be thoroughly cleaned of all swarf, rivet stems, nails, drillings and screws etc. normally associated with the installation of metal KOROK® panels. Remove any remaining strippable film; check all fixings are correctly installed; check all fire-rated and acoustic-rated sealant is applied correctly.

INTERTENANCY APARTMENT SYSTEMS INSTALLATION

HEAD TRACK PROTECTION

GIB Fyreline® or equivalent PROTECTED HEAD TRACK

GIB Fyreline® or equivalent 13mm x 120mm strip with fire-rated sealant is fixed at 250mm centres top and bottom, using 32mm x 16G drywall screws.



METAL FLASHING PROTECTED HEAD TRACK

KOROK® fire flashing is fixed to the panels at 250mm centres, using Wafer Tek 10 x 16mm screws.



DEFLECTION C-TRACK DETAILS

Dead and live loads can cause significant deflection in some structures.

KOROK® can provide deflection C-track details where deflection loadings are considered.

Contact your KOROK® representative on 0800 773 777 for a solution specific to your project.

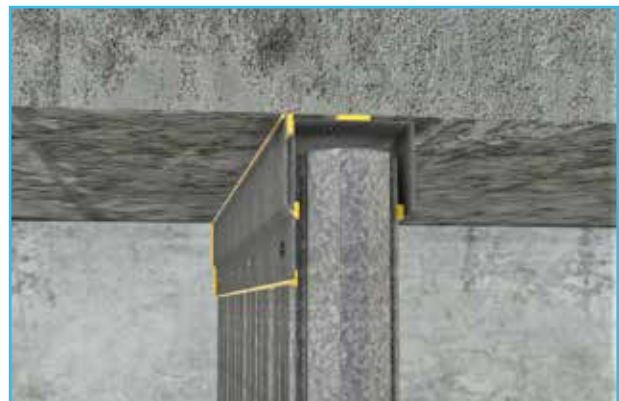


TABLE 4 - KOROK® FASTENERS SPACINGS

Use	Panel Thickness (mm)	Panel Orientation	Maximum Wall Height (m)	Maximum Wall Width (m)	Panel to Panel Maximum centres (mm)	Sides	Tek Screw	C-track Perpendicular to Panel (mm)	Panel Face or Joint	Sides of C-track	Tek Screw	Notes:
Intertenancy - Apartments	51	Vertical	5m	N/A	1000	one	10-16	250	Face	One	10-16	Measured from floor level
Intertenancy - Apartments	78	Vertical	6m	N/A	1000	one	10-16	250	Face	One	10-16	Measured from floor level

NOTES

- For C-track running parallel to the panels, 10-16 Tek screw fixings at 400mm centres are used one side.
- 78mm Panel Properties - These span tables are based on ambient conditions. When used as part of a fire-rated system, the maximum unsupported vertical span of the KOROK® panels is 6.0 metres and the maximum unsupported horizontal span is 5.0 metres. Greater spans are subject to specific engineering design and/or fire engineering assessment.
- 51mm Panel Properties - These span tables are based on ambient conditions. When used as part of a fire-rated system, the maximum unsupported span of the KOROK panels is 5.0 metres vertical or 4.0 metres horizontal. Greater unsupported spans will require specific FRR design.
- Deflection C-track details - Dead and live loads can cause significant deflection in some structures. KOROK® can provide deflection C-track details where deflection loadings are considered.

KOROK® COMPONENTS SUMMARY

Product Image	Item Description
	PN1159 KOROK® C-track 60 x 51 x 60mm 1.15B.M.T.
	PN1140 KOROK® C-track 60 x 80 x 60mm 1.15B.M.T.
	PN1122 KOROK® panel 51mm wide 250mm cover 600kg/m³ density
	PN1130 KOROK® panel 78mm wide 250mm cover 400 kg/m³ density (Colour)
	PN1318 KOROK® GEN 2 panel 78mm wide 250mm cover 400 kg/m³ density (Galvanised)
	PN1310 Hilti HUS3-P 6 Concrete screw anchor
	PN1343 Hilti HUS3-H 6 Concrete screw anchor
	PN1185 Hilti DBZ 6/4.5 x 32mm
	PN1190 6.5 x 32 Rawl Mushroom spikes

Product Image	Item Description
	PN1170 KPS Wafer Tek 10g - 16 x 16mm Class 3
	PN1171 KPS Wafer Tek 10g - 16 x 30mm Class 3
	PN1165 Sikaflex-400 Fire Rated Sealant
	PN1160 Hilti CP606
	PN1198 Hex Head Type 17 14g x 35mm screws
	PNAB10 Aluminium Bracket 75x50x3mm
	PN1226 KOROK® fire flashing
	PN1150 KOROK® Angle



NOTES

Lined area for notes, consisting of 30 horizontal light blue lines.

SUSTAINABILITY

KOROK® is a high performance product with minimal impact on the planet

KOROK® is made to order, ensuring minimal onsite waste

KOROK® is fully re-usable

KOROK® is fully recyclable

KOROK® is manufactured in NZ

Declare.

KOROK panel
KOROK Building Systems NZ Ltd

Final Assembly: Hamilton, New Zealand
Life Expectancy: 50 Year(s)
End of Life Options: Salvageable/Reusable in its Entirety, Recyclable (100%)

Ingredients:

Portland Cement; Low Carbon Steel; Water; Fly Ash; Washed Fine Sand; Anionic Detergent Blend (0.01%); Antimony; Nonionic Surfactant; Polypropylene Filaments; Zinc

¹LBC Temp Exception RL-004b - Proprietary Ingredients in Declare

Living Building Challenge Criteria: Compliant

I-13 Red List:

- LBC Red List Free % Disclosed: 99.99% at 100ppm
- LBC Red List Approved VOC Content: Not Applicable
- Declared

I-10 Interior Performance: Not Applicable

I-14 Responsible Sourcing: Not Applicable

KOR-0001
EXP. 01 OCT 2024
Original Issue Date: 2018

FOR MORE INFORMATION ON RESPONSIBLE PRODUCT SOURCING, VISIT [LIVING FUTURE INSTITUTE™ living-future.org/declare](https://www.living-future.org/declare)

 **NZGBC**
TE KAUNIHERA HANGANGA TAUTAIAO
Member 2023–2024

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Choice
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