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PowerProfile®

FOR HOUSES AND LOW RISE MULTI RESIDENTIAL EXTERNAL WALLS

Hebel's PowerProfile is a simple way to accessorise your Hebel facade to replicate the look of traditional standing seam.

The PowerProfile system consists of Hebel's PowerPanel^{XL} 75mm thick, steel-reinforced AAC panels vertically secured to the structural frame via horizontal perforated top hat sections. When the facade is coated, decorative profiles are fixed to the substrate to achieve the desired look.

The powder coated, aluminium profiles are available in two forms and three popular Colorbond® colours: Basalt®, Dune® and Monument®.

Features and benefits:

+ An affordable option compared to that of standing seam and similar metal cladding systems.
+ Strong 75mm thick, steel reinforced panels provide a solid wall with deep window reveals.
+ Helps overcome the issues associated with morning and afternoon glancing light.
+ Choice of aluminium profiles and colours.
+ Maintains strong Hebel thermal and outstanding fire performance.
+ Suitable for timber and steel construction.

Fire rating: Up to 180/180/180 when subjected to an external fire source*.

Acoustic: Rw + Ctr 38 to 42 based on a 210mm wall system thickness.

Thermal: R2.13 to R3.29.

Common Wall Thickness: 199mm, based on 90mm stud + 10mm plasterboard + 24mm top hat + 75mm PowerProfile. With variations in stud thickness and top hats, wall widths can vary between 179mm to 210mm (excluding profile depth).

Standard PowerPanel^{XL} sizes:

+ 2400 x 600 x 75mm
+ 2700 x 600 x 75mm
+ 2850 x 600 x 75mm
+ 3000 x 600 x 75mm
+ 3300 x 600 x 75mm

Coating system: Panels should be coated with a suitable and compatible acrylic coating system.

* Based on a system using Hebel Adhesive at panel joints.

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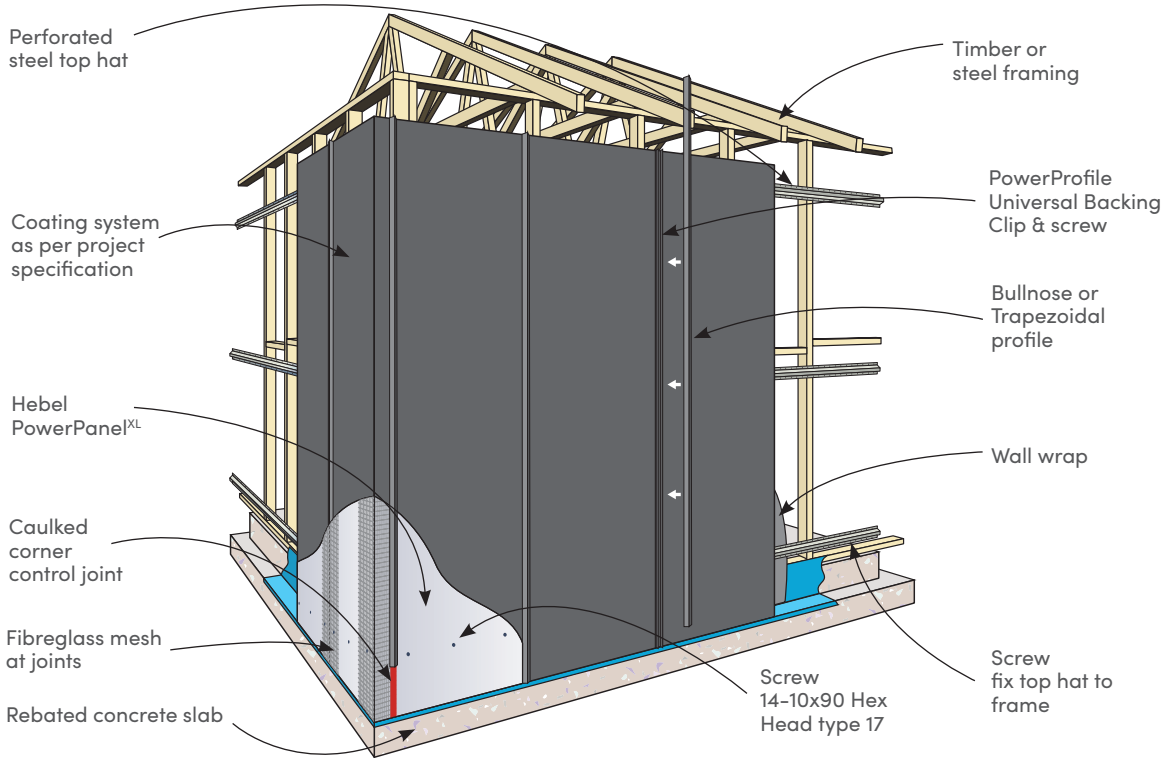
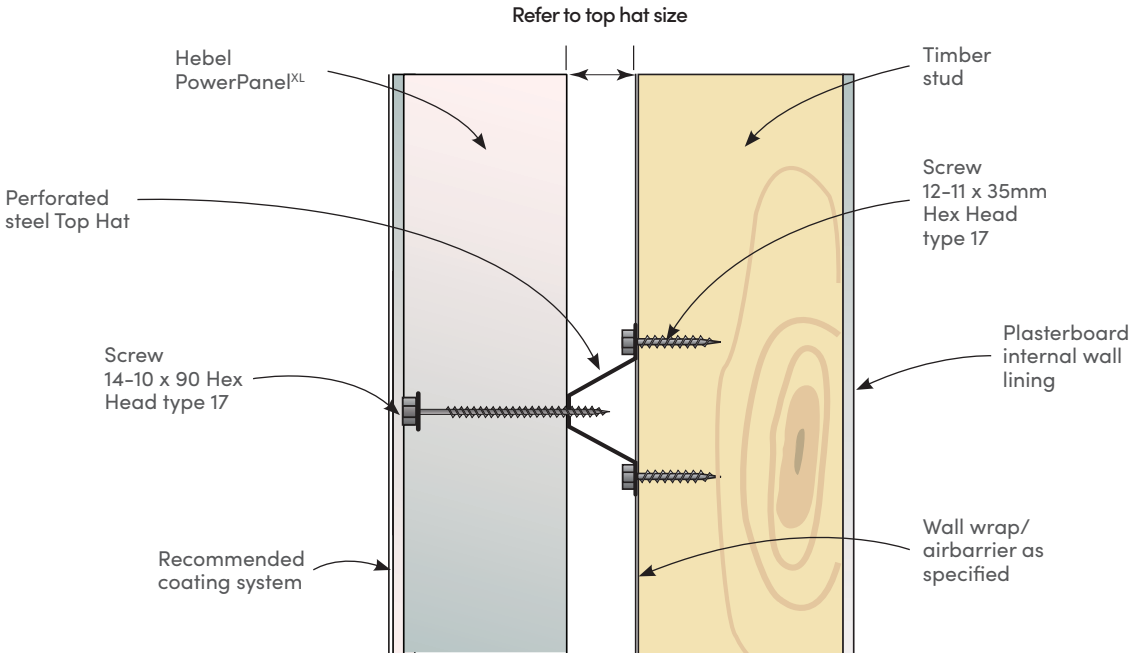
PowerProfile System



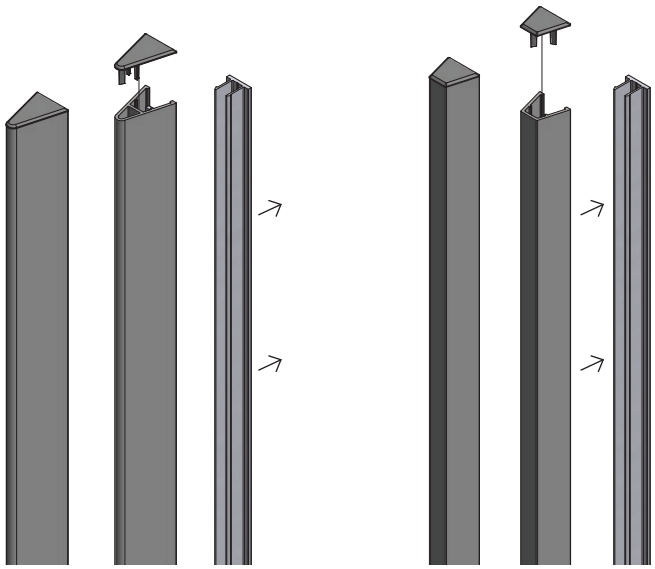
Hebel PowerPanel XL Fixing to Top Hat



PowerProfile®

FOR HOUSES AND LOW RISE
MULTI RESIDENTIAL EXTERNAL WALLS

Profiles:



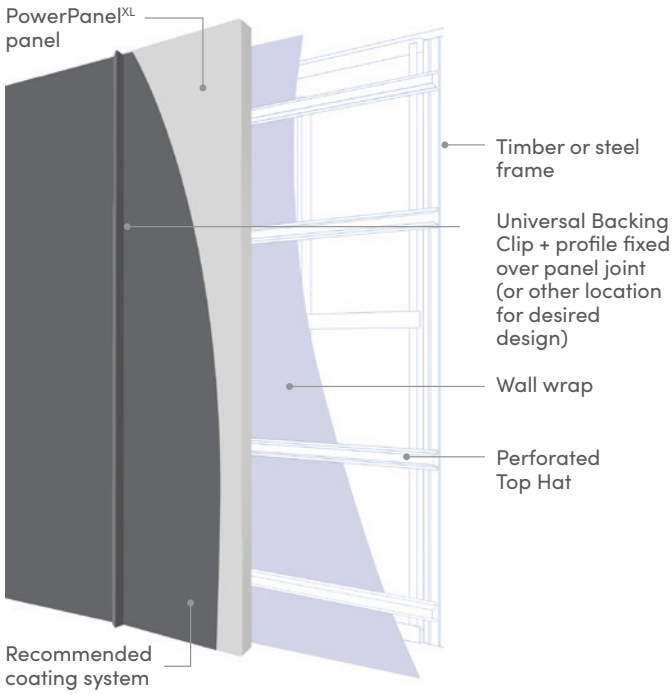
Bullnose **Trapezoidal**

The Universal Backing Clip is fixed to the Hebel facade, and a powder-coated aluminium profile snaps onto the clip offering a myriad of design options.

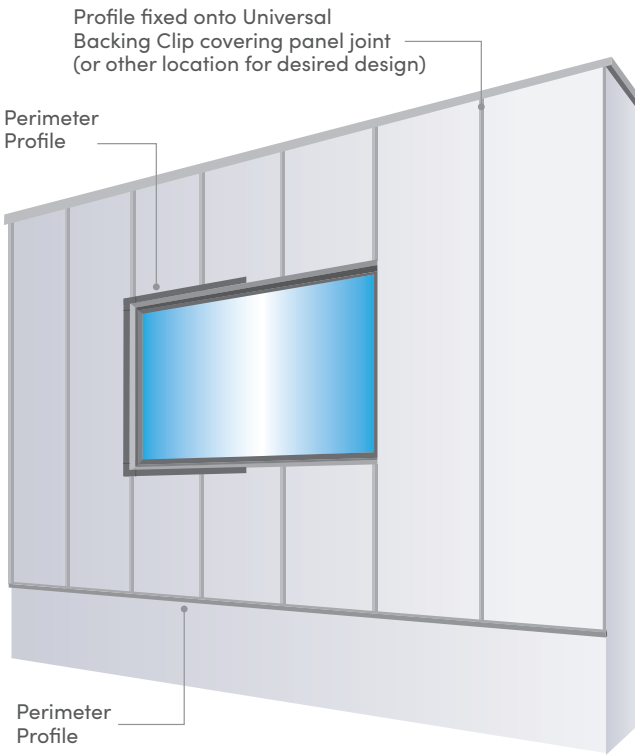
Profile and accessory colours:

Basalt® Dune® Monument®

Hebel PowerProfile System



Hebel PowerProfile Accessories Placement



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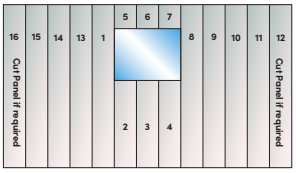
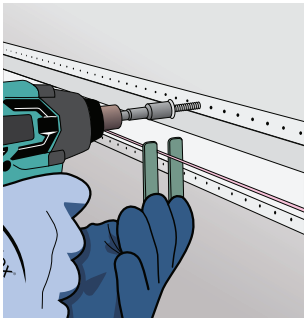
Installation Overview - see PowerProfile Installation Guide for full details.

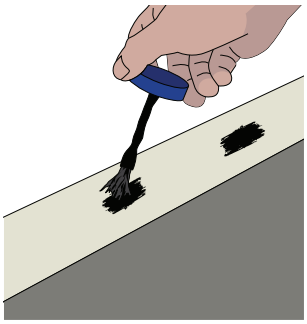


STEP 1
Hebel panels are to be installed with the utmost consideration of aesthetic locations of the profiles, and especially in relation to the position of control joints.

Carefully consider the desired design outcome when installing panels.

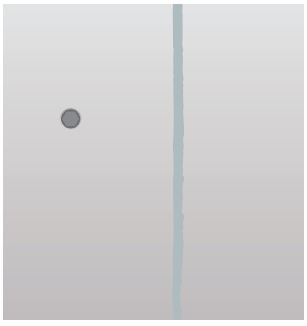


STEP 2
Fix Hebel perforated top hats to timber or steel frame ensuring they are plumb, level. Creating a straight and true substrate.



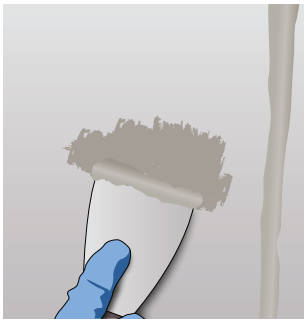
STEP 3
Coat any exposed steel reinforcing from cutting with Hebel anti-corrosion paint.

STEP 4
Install PowerPanel^{XL} panels vertically by applying Hebel Adhesive to each panel joint and screwing off to perforated Top Hats.



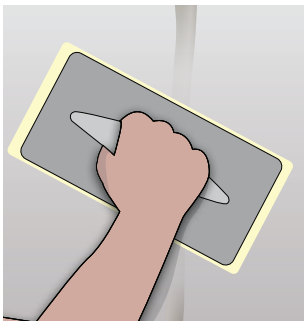
STEP 5
Install control joints in accordance with Hebel Install Guides. The location of joints must be considered with respect to location of profile.

Maintain 10mm to joints.

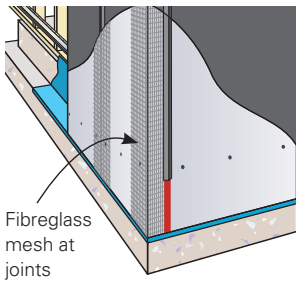


STEP 6
Patch minor panel imperfections and screw holes using Dulux Acratex Power Patch.

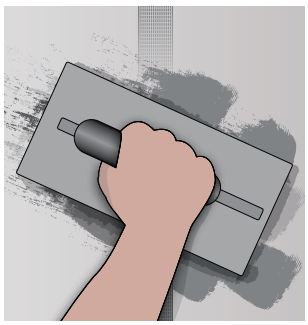
Selleys Spakfilla Rapid should be used to achieve a flush finish when using the Sienna Naturale coating system.



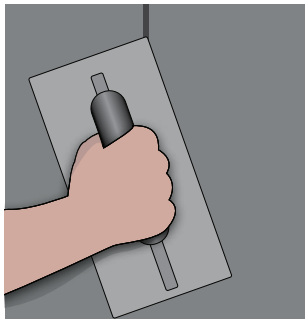
STEP 7
Use sand float to remove excess Hebel Adhesive and smooth the joints between each of the panels.



STEP 8
Install 200mm of 165gsm wide mesh to each Hebel panel joint.



STEP 9
Install Base Levelling Skim Coat. Coatings are designed for the mesh to be slightly visible.



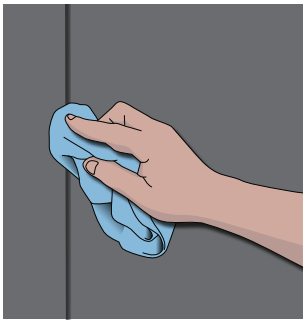
STEP 10
Coatings are to go over the control joint. Using a blade (hand scribe or trowel) cut nice straight over the sealant joint through to the base coat to a width no greater than 5mm and to a depth to meet the sealant.

The coating will go over the joint and no cut is required.

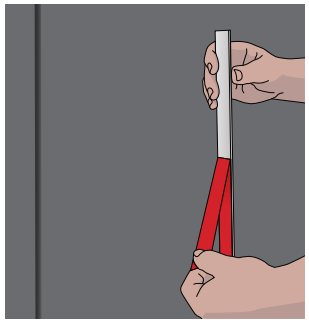
Installation Overview - see PowerProfile Installation Guide for full details.

STEP 11
Apply the recommended coating system. Allow to fully dry prior to adhering any backing clips.

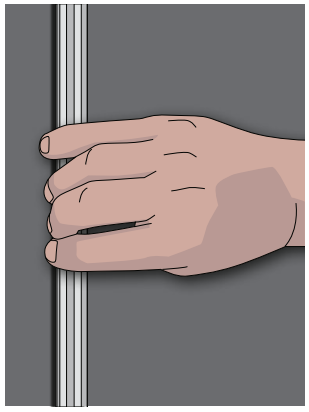
Note: Dulux Sienna Naturale will give a very smooth finish and the closest resemblance to a metal cladding finish however, it is a coating upgrade.



STEP 12
Before applying backing clip, clean the surface with a lint free cloth and Isopropyl Alcohol.



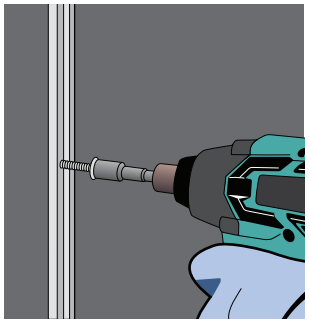
Step 13
Peel approximately 150mm length of paper from backing clip tape, preferably at the base.



Step 14
It is critical to install the backing clip straight so ensure you use a levelling tool. Fix backing clip to the wall keeping it straight to the levelling tool whilst peeling the tape in an upwards motion.

The tape will adhere IMMEDIATELY.

The backing clips can be applied in sections or continuously across the facade.

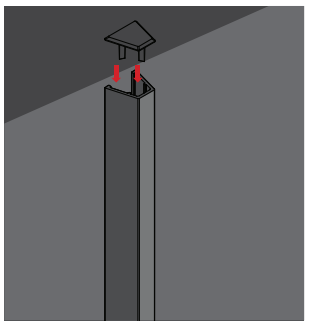


Step 15
Screw the Universal Backing Clip to the wall at least 100mm from the end of the clip, and then at 300mm centres.
At control joints it is recommended that screws through the base clip are a minimum of 20mm from the end of the panel.

Note: Pre-drilling a 2.5mm hole may be required.

Step 16
Snap profile to backing clip using a rubber mallet.

A load spreader can also be used to further protect the Aluminium.



Step 17
Finish with inserting end caps to each profile at visible ends.

Perimeter profiles can be used around windows and openings.

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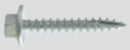
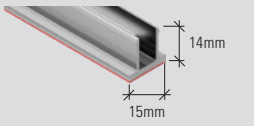
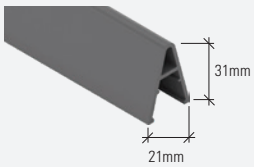
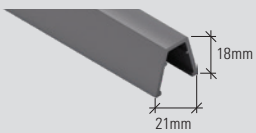
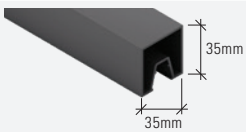
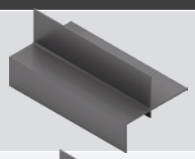
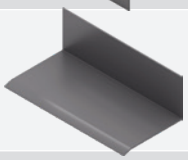
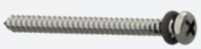
System Components

CODES	SYSTEM COMPONENTS	APPLICATION	
118014 118016 118019 118020 126504	PowerPanel^{XL} 2400 x 600 x 75mm SQ1M0 PowerPanel^{XL} 2700 x 600 x 75mm SQ1M0 PowerPanel^{XL} 2850 x 600 x 75mm SQ1M0 PowerPanel^{XL} 3000 x 600 x 75mm SQ1M0 PowerPanel^{XL} 3300 x 600 x 75mm SQ1M0	Entire wall	
21909 105536	Perforated Top Hat 24mm x 4.8m x 0.42mm BMT or 35mm x 4.8mm x 0.55mm BMT	Attaches PowerPanel^{XL} to frame	
106882	Screws to fix top hat to timber stud Screw 12-11 x 35mm Hex Head type 17 500/box	Fixes Top Hat to timber frame	
21906	Screws to fix top hat to steel stud Screw 10-16 x 16mm Hex Head Teks, self drilling 1000/box	Fixes Top Hat to steel frame	
125747	Screws to fix profiles to top hat Screw 14-10 x 90mm Hex Head type 17 250/box	Fix PowerPanel^{XL} to Top Hat	
25594	Hebel Anti-Corrosion Paint 500ml	Used for coating exposed reo on panel edges after cutting	
21933	Hebel Adhesive 20kg bag	Used on all panel joints (except control joints)	
122116	CSR Fire Seal	Used on panel joints including control joints	

Profile Elements

CODES			SYSTEM COMPONENTS	APPLICATION	
	1.2m	3.0m	Universal Base Clip (1.2m Pack size 12) (3.0m Pack size 1)	Fixed over Hebel substrate for profiles and trims	
Raw milled finish	454789	466627			
	3.0m	4.8m	Bullnose Profile (Pack size 5)	Fixes to Universal Base Clip to create decorative facade feature	
Basalt	454994	454986			
Dune	454993	454985			
Monument	454995	454987			
Basalt	454978	454970	Trapezoidal Profile (Pack size 5)	Fixes to Universal Base Clip to create decorative facade feature	
Dune	454977	454969			
Monument	454979	454971			
Basalt	454962	454954	Perimeter Trim (Pack size 2)	Fixes to Universal Base Clip around windows and openings to create a decorative feature	
Dune	454961	454953			
Monument	454963	454955			

Profile Elements continued

CODES			SYSTEM COMPONENTS	APPLICATION	
Basalt	455006	455002	Parapet Trim (Pack size 2)	Provides a top perimeter trim to parapet walls	
Dune	455005	455001			
Monument	455007	455003			
Basalt	455018	455014	Cantilevered Panel Base Angle (Pack size 5)	Provides a finish to underside of suspended Hebel panel	
Dune	455017	455013			
Monument	455019	455015			
Basalt	455022		Bullnose Profile End Cap (Pack size 2)	Fits over end of Bullnose Profile	
Dune	455021				
Monument	455023				
Basalt	455054		Trapezoidal Profile End Cap (Pack size 2)	Fits over end of Trapezoidal Profile	
Dune	455053				
Monument	455055				
Basalt	455046		Perimeter Trim End Cap (Pack size 2)	Fits over end of Perimeter and Parapet Trims	
Dune	455045				
Monument	455047				
Basalt	455026		Perimeter Trim Corner Joiner - Vertical (Pack size 2)	Joins Perimeter Trims at vertical corners	
Dune	455025				
Monument	455027				
Basalt	455030		Perimeter Trim Corner Joiner - Horizontal (Pack size 1)	Joins Perimeter Trims at horizontal corners	
Dune	455029				
Monument	455031				
Basalt	455050		Perimeter Trim Straight Joiner (Pack size 1)	Joins Perimeter Trims as required	
Dune	455049				
Monument	455051				
Basalt	455034		Parapet Trim External Corner Joiner (Pack size 1)	Joins Parapet Perimeter Trims at external corners	
Dune	455033				
Monument	455035				
Basalt	455038		Parapet Trim Internal Corner Joiner (Pack size 1)	Joins Parapet Perimeter Trims at internal corners	
Dune	455037				
Monument	455039				
Basalt	455042		Parapet Trim Straight Joiner (Pack size 1)	Joins Parapet Trims as required	
Dune	455041				
Monument	455043				
466628			6G 1-3/4" (44mm) Stainless Steel Screw (Box 200)	Fixing Universal Base Clip to Hebel substrate	

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For more information about suitable coating systems to achieve the looks indicated in this document, please contact your coating company.

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