

Steel and metal

Technology	Base material					Fastener
	Green / fresh concrete	Concrete	Old / high strength concrete	Steel ≥ 3 mm, bar joist, inlays	Steel ≥ 6 mm, beams	

Roof decking: double skin and flat roof insulated



DX							
					●		X-ENP
				●			X-EDN19
				●			X-EDNK22
				●			X-ENP2K
	●	●	●				NPH2

Fastener	Description	Approvals	Page
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	Standard decking pin for structural steel ≥ 6 mm	●	87
	Decking pin for 5-10 mm (3/16"-3/8") bar joist or steel construction / diaphragm design (USA)	●	103
	Decking pin for 3-6 mm (1/8"-1/4") bar joist or steel construction / diaphragm design (USA)	●	103
	Decking pin for 3-6 mm base material	●	103
	Fastening with pre-drilling	●	107

Steel and metal

Technology	Base material					Fastener
	Green / fresh concrete	Concrete	Old / high strength concrete	Steel ≥ 3 mm, bar, joist, inlays	Steel ≥ 6 mm, beams	

Roof decking: single skin non insulated



DX					●	X-ENP

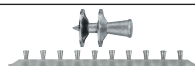


Fastener	Description	Approvals	Page
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	Standard decking pin for structural steel ≥ 6 mm, X-ENP with SDK2 ceiling cap	●	87
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Application on the wall: double skin insulated



DX					●	X-ENP
				●		X-ENP2K
	●	●	●			NPH2

	Standard decking pin for structural steel ≥ 6 mm	●	87
	Decking pin for 3–6 mm base material	●	97
	Fastening with pre-drilling	●	107

Steel and metal

Technology	Base material					Fastener
	Green / fresh concrete	Concrete	Old / high strength concrete	Steel \geq 3 mm, bar, joist, inlays	Steel \geq 6 mm, beams	

Application on the wall: Single skin non insulated




DX					●	X-ENP
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Composite floor decking: with shear connectors



DX					●	X-HVB + X-ENP-21 HVB
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Fastener	Description	Approvals	Page
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	Standard decking pin for structural steel \geq 6 mm, with SDK2 or PDK2 sealing cap	●	87
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	Shear connector with X-ENP nail	●	111
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Steel and metal

Technology	Base material					Fastener
	Green / fresh concrete	Concrete	Old / high strength concrete	Steel ≥ 3 mm, bar, joist, inlays	Steel ≥ 6 mm, beams	

Tacking of composite decks



DX							
					●		X-ENP
						●	X-EDN19
						●	X-EDNK22
						●	X-ENP2K
						●	X-U15

Fastening metal brackets, clips, metal tracks, etc. to steel



DX							
						●	X-U
						●	EDS
						●	X-CR
						●	X-EM_H
						●	X-BT
						●	X-CRM

Fastener	Description	Approvals	Page
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	Standard decking pin for structural steel ≥ 6 mm (9/16"–3/8")	●	87
	Decking pin for 5–10 mm (3/16"–3/8") bar joist or steel construction / diaphragm design (USA)	●	103
	Decking pin for 3–6 mm (3/16"–3/8") bar joist or steel construction / diaphragm design (USA)	●	103
	Decking pin for 3–6 mm base material	●	97
	Step shank fastener	●	119

	Pin length: 16–22 mm, 4 mm shank diameter	●	119
	Pin length: 22–27 mm, 4.5 mm shank diameter	●	151
	Outdoor applications, corrosion-resistant fastener required; pin length: 14–22 mm, 3.7 mm shank dia.	●	157
	Threaded connection	●	181
	Threaded connection, corrosion-resistant fastener required, through penetration of base steel not permitted	●	187
	Threaded connection, corrosion-resistant fastener required	●	195