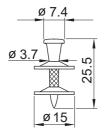


X-ENP 2K Siding and Decking Nail

Product data

Dimensions



General information

Material specifications

Carbon steel shank: HRC 55.5
Zinc coating: 8–16 μm

Fastening tools

Single nail:

DX 76 PTR with X-ENP 2K-20 L15

X-76-F15-PTR fastener guide

Collated nails:

DX 76 PTR X-ENP 2K-20 L15 MX

(green magazine strip)

See fastener selection for more details.

Approvals

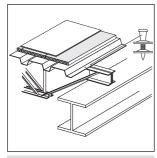
CSTB (France), BUtgb (Belgium)



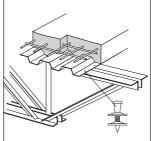
Note: technical data presented in these approvals and design guidelines reflect specific local conditions and may differ from those published in this handbook.

Applications

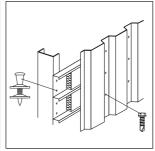
Examples







Roof and floor decking



Wall liners

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Load data

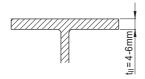
Reco	ommei	nded	loads

Sheeting thickness t ₁ [mm]		Trapezoidal profile (symmetric		Liner trays (asymmetric)	
nominal	minimum	N _{rec} [kN]	V _{rec} [kN]	N _{rec} [kN]	V _{rec} [kN]
0.63	_	1.20	1.40	_	_
0.75	0.65	1.80	1.70	1.25	1.20
0.88	0.77	2.10	2.00	1.50	1.40
1.00	0.89	2.70	2.20	1.90	1.55
1.13	1.02	3.00	2.60	2.10	1.80
1.25	1.13	3.00	3.00	2.10	2.10
1.50	1.36	3.00	3.00	2.10	2.10
1.75	1.60	3.00	3.00	2.10	2.10
2.00	1.84	3.00	3.00	2.10	2.10

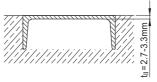
- Recommended working loads valid for steel sheet minimum tensile strength ≥ 360 N/mm².
- For intermediate sheet thicknesses, use recommended load for next smaller thickness.
- Recommended loads include safety factor ≥ 2.0 applied to characteristic loads N_{Rk} and V_{Rk} and are appropriate for EC 1 (or similar) wind loading designs.
- For steel thickness, t_{II} = 3-4 mm, reduce all recommended loads to 0.9 kN.

Application requirements

Thickness of base material



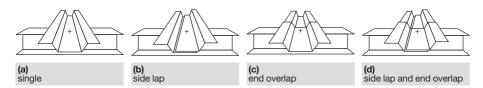




 $t_{II} = 2.7-3.3$ mm for concrete inlays

Thickness of fastened material

Sheet thicknesses and overlap types



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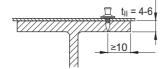


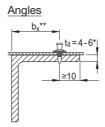
Nominal sheeting thickness t _i [mm]	Overlap types t _{II} = 3-4 mm	
0.75	a, b, c, d	a, b, c, d
> 0.75–1.00	a, c	a, b, c, d

- The recommendations apply if the supporting structure is sufficiently flexible so that forces of constraint from temperature differentials can be neglected.
- These recommendations are valid for sheets up to S350GD.

Spacing and edge distances (mm)

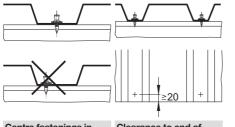
Rolled I or wide flange shapes





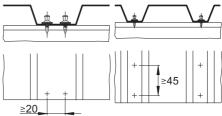
- * For t_{II} = 3 to 4 mm, restrictions on application. See approval or contact Hilti.
- ** Maximum recommended $b_x \le 8 \times t_{II}$ however, jobsite verification advisable.

Trapezoidal profiles



Centre fastenings in ribs

Clearance to end of sheet



Double fastenings

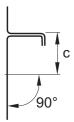
Note:

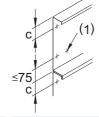
Reduce tensile resistance per fastener to 0.7 N_{rec}.

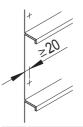
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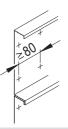












Clearance to side of sheet

Clearance to side of sheet

Clearance to end of sheet

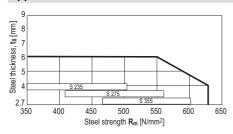
Fastener spacing along sheet

When driving the fastener, the fastening tool needs to be positioned perpendicular to the surface. If $c > 75 \, \text{mm}$, it is recommended to drive an additional fastener at the other side of the tray. This additional fastener is indicated with (1) in the graph above.

Corrosion information

The intended use only comprises fastenings which are not directly exposed to external weather conditions or moist atmospheres. For further detailed information on corrosion see corresponding chapter in **Direct Fastening Principles and Technique** section.

Application limits



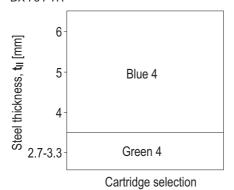
Fastener selection and system recommendation							
Fasteners	Designation	Item no.	Tools Designation	Fastener guide Designation			
Single nail:	X-ENP 2K-20 L15	385133	DX 76 PTR	X-76-F15-PTR			
Collated nails:	X-ENP 2K-20 L15 MX	385134	DX 76 PTR				
Piston:	X-76-P-ENP2K-PTR		DX 76 PTR				

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Cartridge selection and tool energy setting

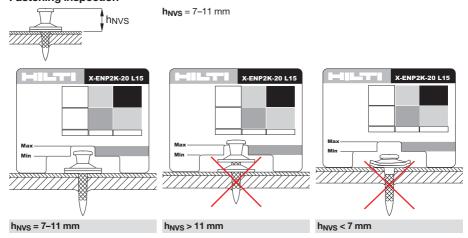
DX 76 PTR



Fine adjustment by installation tests on site.

Fastening quality assurance

Fastening inspection



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