

X-ENP 2K DATA SHEET

Siding and decking nail



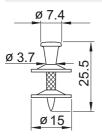




X-ENP 2K Siding and decking nail

Product data

Dimensions



HRC 55.5
8–16 µm

Recommended fastening tools:Tools:Single nail:DX 76 PTR withX-ENP 2K-20 L15X-76-F-15-PTR fastener guideV76 MX withX-76-F-15 fastener guideV76 MX with

Tools:	Collated nails:
DX 76 PTR	X-ENP 2K-20 L15 MX
DX 76 MX	(green magazine strip)

• For more details, please refer to the chapter Accessories and consumables compatibility in the Direct Fastening Technology Manual (DFTM).

Approvals and certificates

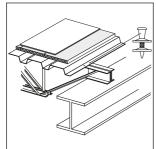
ABS, ETA 13/0172 (Hilti-DX-DoP 003), LR 97/00077

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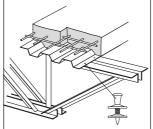
• Not all information presented in this product data sheet might be subject to approval/certificate content. Please refer to approval/certificate for further information.

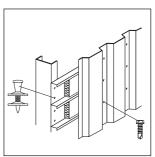
Applications

Examples



Roof and floor decking





Roof and floor decking

Wall liners





Performance data

Carac	teristic	loads
00.00		

Overlap	3 mm ≤ t _{ll} <	3 mm ≤ t _{ll} < 4 mm			$4 \text{ mm} \le t_{II} \le 6 \text{ mm}$	
Sheeting thickness t _l [mm]	V _{Rk} [kN]	N _{Rk} [kN]	Types of conn.	V _{Rk} [kN]	N _{Rk} [kN]	Types of conn.
0.75	4.70	6.00	a, c	4.70	6.30	a, b, c, d
0.88	5.40	6.00	a, c	5.40	7.20	a, (b)*, c, d
1.00	6.00	6.00	a, c	6.00	8.00	a, (b)*, c, d
1.13	-	-	-	7.00	8.40	a, c
1.25	-	-	-	8.00	8.80	a, c
1.50	-	-	-	8.60	8.80	a

* Fastening type (b) covered for 5 mm ≤ t_{ll} < 6 mm, if N_{Bk} is reduced to 6.6 kN

Fastening type (b) fully covered for $t_{II} = 6$ mm

For a, b, c, d please refer to Application requirements, Sheet thicknesses and overlap types

Design

Design shear and tension resistance

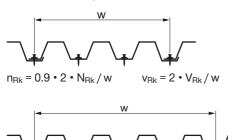
 $V_{Rd} = V_{Rk} / \gamma_{M} \qquad \qquad N_{Rd} = \alpha_{cycl} N_{Rk} / \gamma_{M \text{ with }} \alpha_{cycl} = 1.0 \text{ for all sheeting thickness } t_{I}$ $\alpha_{cycl} \text{ considers the effect of repeated wind loads}$

 $Y_M = 1.25$ in the absence of national regulations

Characteristic tension resistances n_{Rk} [kN/m] and shear resistances v_{Rk} [kN/m] per unit length, taking the effect of thermal constraints into account

 N_{Rk} and V_{Rk} characteristic shear and tension resistance

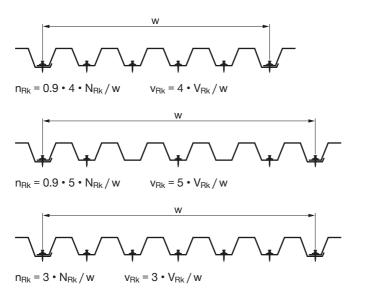
w ... width of the panel sheet



 $n_{Bk} = 0.9 \cdot 3 \cdot N_{Bk} / w$ $v_{Bk} = 3 \cdot V_{Bk} / w$



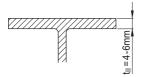




The same characteristic resistances can also be applied along supports at end-overlaps, if connection type "d" is not covered in the load table.

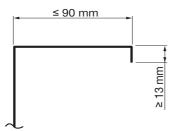
Application recommendation

Thickness of base material



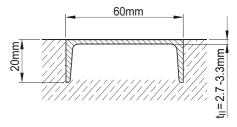
 $t_{II} = 4.0 - 6.0$ mm for general shapes

Fastening to cold-formed C- and Z-sections with a thickness from 2.9 to 4.0 mm



Grade: ≥ S320 GD according to EN 10346

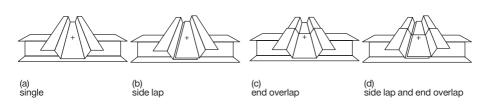
Fastening to U-shape concrete inlays with a nominal thickness t_{II} of 3 mm. t_{II} = 3.0 \pm 0.3 mm





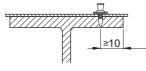


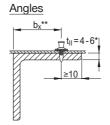
Sheet thicknesses and overlap types



Edge distances (mm)







* For t_{II} = 3 to 4 mm, restrictions on application. See approval or contact Hilti.

** Maximum recommended $b_x \le 8 \times t_{||}$ however, jobsite verification advisable.

Trapezoidal profiles

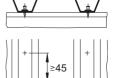




Centre fastenings in ribs

Clearance to end of

sheet

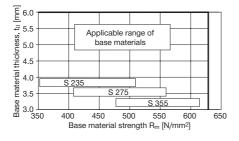


Double fastenings Note: Reduce tensile resistance per fastener to 0.7 $N_{\textrm{Rk}}.$





Application limits



Corrosion information

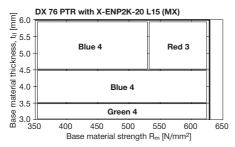


- The intended use only comprises fastenings which are not directly exposed to external weather conditions or moist atmospheres.
- For more details, please refer to following technical document: Hilti Corrosion Handbook

Fastener program and system recommendation							
Fasteners			Tools	Fastener guide			
	Designation	Item no.	Designation	Designation			
Single nail:	X-ENP 2K-20 L15	385133	DX 76 PTR	X-76-F-15-PTR			
			DX 76 MX	X-76-F-15			
Collated nails:	X-ENP 2K-20 L15 MX	385134	DX 76 PTR				
			DX 76 MX				
Piston:	X-76-P-ENP2K-PTR		DX 76 PTR				
	X-76-P-ENP2K		DX 76 MX				

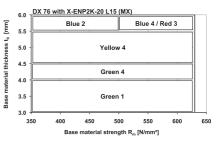
Cartridge selection and tool energy setting

DX 76 PTR



Fine adjustment by installation tests on site.









Quality assurance

