

HILTI X-C 20 B3 MX

Hilti X-C 20 B3 MX Concrete Nail Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective use of Hilti X-C 20 B3 MX Concrete Nails. These nails are designed for direct fastening applications into concrete using compatible Hilti direct fastening tools. Please read this manual thoroughly before use and retain it for future reference. Always refer to the operating instructions of your specific direct fastening tool for detailed usage procedures.

2. SAFETY INFORMATION

WARNING! Failure to follow these safety instructions may result in serious injury or property damage.

- **Eye Protection:** Always wear appropriate eye protection (safety glasses) when handling or using direct fastening tools and nails.
- **Hearing Protection:** Use hearing protection when operating direct fastening tools.
- **Hand Protection:** Wear protective gloves to prevent cuts or abrasions.
- **Read Tool Manual:** Always read and understand the operating manual for the direct fastening tool you are using with these nails.
- **Material Suitability:** Ensure the base material (concrete) is suitable for direct fastening and that the nail length and type are appropriate for the application.
- **Keep Away from Children:** Store nails and fastening tools out of reach of children.
- **Proper Ventilation:** Ensure adequate ventilation when working in enclosed spaces, especially when using powder-actuated tools.
- **Inspect Nails:** Before use, inspect nails for any damage or defects. Do not use damaged nails.

3. PRODUCT OVERVIEW

The Hilti X-C 20 B3 MX Concrete Nail is a high-performance fastener designed for reliable direct fastening into concrete. These nails are collated for quick and efficient loading into compatible Hilti direct fastening tools, streamlining your workflow.



Figure 1: Hilti X-C 20 B3 MX Concrete Nails. These nails are collated for efficient loading into compatible direct fastening tools, featuring a zinc coating for durability.

4. SETUP AND PREPARATION

1. **Inspect Nails:** Before loading, visually inspect the nail strip for any signs of damage, bending, or corrosion. Do not use defective nails.
2. **Tool Compatibility:** Ensure that the Hilti X-C 20 B3 MX nails are compatible with your specific Hilti direct fastening tool model. Refer to your tool's manual for approved fastener types.
3. **Load Nails:** Carefully load the collated nail strip into the magazine of your direct fastening tool according to the tool's operating instructions. Ensure the nails are seated correctly and the strip feeds smoothly.
4. **Prepare Work Area:** Clear the work area of any obstructions. Ensure the base material (concrete) is clean and free of loose debris.

5. OPERATING INSTRUCTIONS

These instructions provide a general guide. Always follow the specific operating procedures outlined in your direct fastening tool's manual.

1. **Select Power Setting:** Adjust the power setting on your direct fastening tool to match the hardness of the concrete and the required penetration depth. Test on a scrap piece of material if unsure.
2. **Position Tool:** Place the nose of the direct fastening tool firmly and perpendicularly against the concrete surface at the desired fastening point.
3. **Actuate Tool:** Follow your tool's specific actuation method (e.g., press firmly and pull trigger) to drive the nail into the concrete.
4. **Verify Fastening:** After each fastening, visually inspect the nail to ensure it is properly seated and has achieved the desired penetration without bending or breaking.
5. **Maintain Distance:** Observe minimum edge and spacing distances as recommended by Hilti or local building codes to prevent concrete spalling or cracking.

6. MAINTENANCE AND STORAGE

- **Storage:** Store Hilti X-C 20 B3 MX Concrete Nails in their original packaging in a cool, dry place. Protect them from moisture, humidity, and direct sunlight to prevent corrosion.
- **Handling:** Handle nail strips carefully to avoid bending or damaging individual nails, which could lead to feeding issues or improper fastening.
- **Disposal:** Dispose of unused or damaged nails according to local regulations.

7. TROUBLESHOOTING

If you encounter issues during direct fastening, consider the following common problems and solutions:

- **Nail Not Penetrating:**

- Increase the power setting on your direct fastening tool.
- Ensure the base material is not excessively hard for direct fastening.
- Verify that the nail length is appropriate for the application.

- **Nail Bending or Breaking:**

- Check that the tool is held perpendicular to the surface.
- Ensure the base material is suitable and free of voids or rebar.
- Reduce the power setting if the nail is over-penetrating or deforming.

- **Nail Strip Jamming:**

- Inspect the nail strip for damaged or bent nails and remove them.
- Clean the magazine and feeding mechanism of your direct fastening tool.
- Ensure the nail strip is loaded correctly.

For persistent issues, consult your direct fastening tool's manual or contact Hilti customer support.

8. TECHNICAL SPECIFICATIONS

Model Number	X-C 20 B3 MX
Part Number	2123993
Fastener Shank Length	13/16 in
Fastener Shank Diameter	0.118 in
Collated	Yes
Material Coating/Finish	Zinc
Item Weight	1 pound (package)
Item Package Quantity	1
Measurement System	Inch
Manufacturer	Hilti

9. WARRANTY AND SUPPORT

For information regarding product warranty, service, or technical support, please contact Hilti customer service directly. Details can typically be found on the official Hilti website or through your local Hilti representative. Always provide the product model number (X-C 20 B3 MX) and part number (2123993) when seeking support.
