

DECLARATION OF PERFORMANCE

DECLA		JUOL							
DoP no:	Expandable	rock bolts_20	240619						
Product type:	Virsbolt								
Intended use:	Rock reinforcing in underground mines and tunnels.								
	Jennmar Sweden AB								
Manufacturer:	Nordanöväg	en 8							
	SE-737 61 V	/irsbo		www.jennmar.se					
	Sweden								
Verification of constancy:	System 2+								
Harmonized standard:	EN 1090-1:2009+A1:2011								
Notified body:	RISE Research Institutes of Sweden AB (No 0402) issued certificate no 0402-CPR-C500475								
Specified performance:									
Essential	Performance								
characteristics									
	Virsbolt	Virsbolt	Virsbolt	Virsbolt	Virsbolt	Virsbolt			
	120	120+	160	160+	240	240+			
Elongation A (min%)	15	25	15	25	15	25			
Minimum breaking load (kN)	120	120	160	160	240	230			
Tolerances for geometrical	NPD								
data									
Weldability	NPD								
Fracture toughness	NPD								
Load bearing capacity:									
Dimensioning	Jennmar specifications								
Manufacturing	Jennmar specifications								
Deformation at			N	DD					
serviceability limit state	NPD								
Fatigue strength	NPD								
Resistance for fire	NPD								
Reaction to fire	Class A1								
Release of cadmium	NPD								
Emission of radioactivity	NPD								
Durability	NPD								

The performance of the above product is consistent with the stated performance. This DoP has been issued in accordance with Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer listed above.

Virsbo 20/5-2025

Jonas Lindström Quality & Environmental Manager Jennmar Sweden AB

24 0402-CPR-C500475



Jennmar Sweden AB, Nordanövägen 8, SE-73761 Virsbo

Virsbolt DoP No: Expandable rock bolts_20240619

EN 1090-1:2009+A1:2011 Rock reinforcing in underground mines and tunnels

Essential characteristics:

Performance										
	Virsbolt 120	Virsbolt 120+		sbolt 50	Virsbolt 160+	Virsbolt 240	Virsbolt 240+			
Elongation A (min%)	15	25	15		25	15	25			
Min break load (kN)	120	120	160		160	240	230			
Load bea	ring capac	ity:								
Dimensioning				Jennmar specifications						
Manufacturing				Jennmar specifications						
Reaction to fire				Class A1						



Certificate of conformity of the factory production control 0402-CPR-C500475

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction products

Execution of steel structures and aluminium structures – Part 1: Requirements for conformity assessment of structural components

Virsbolt/Swellex ERB 120, ERB 160, ERB 240, ERB 120+, ERB 160+, ERB 240+ Expandable rock bolts for use as structural parts in rock installations. Execution class is EXC 2 and basis of manufacture is MPCS with Manufacturers tasks and delivery Method 1.

placed on the market under the name or trademark of

Jennmar Sweden AB

Nordanövägen 8 SE-73761, Virsbo, Sweden

and produced in the manufacturing plant

same as above

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in annex ZA of the standard

EN 1090-1:2009+A1:2011

under system 2+ are applied and that

the factory production control is assessed to be in conformity with the applicable requirements.

This certificate was first issued on 2024-06-19 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

Issued by notified body 0402. The validity of this certificate can be verified at RISE homepage.

Martin Tillander Director Product Certification

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