

DECLARATION OF PERFORMANCE

DoP no:	Expandable rock bolts_20240619					
Product type:	Virsbolt/Swellex					
Intended use:	Rock reinforcing in underground mines and tunnels.					
Manufacturer:	SSAB Specials Steel Nordanövägen 8 SE-737 61 Virsbo Sweden			www.ssab.com		
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 characteristics	Performance					
	ERB120/ Pm12	ERB120+/ Mn12	ERB160/ Pm16	ERB160+/ Mn16	ERB240/ Pm24	ERB240+/ Mn24
Elongation A (min%)	15	25	15	25	15	25
Minimum breaking load (kN)	120	120	160	160	240	230
Tolerances for geometrical data	NPD					
Weldability	NPD					
Fracture toughness	NPD					
Load bearing capacity:						
Dimensioning	SSAB specifications					
Manufacturing	SSAB specifications					
Deformation at serviceability limit state	NPD					
Fatigue strength	NPD					
Resistance to fire	NPD					
Reaction to fire	Class A1					
Release of cadmium	NPD					
Emission of radioactivity	NPD					
Durability	NPD					
<p>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.</p>						
Virsbo 19/6-2024						
Jonas Lindström Quality & Environmental Manager SSAB Special Steels, Virsbo						

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SSAB Specials Steel, Nordanövägen 8, SE-73761 Virsbo						
Virsbolt/Swellex						
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EN 1090-1:2009+A1:2011						
Rock reinforcing in underground mines and tunnels						
Essential characteristics:						
Performance						
	ERB120/ Pm12	ERB120+/ Mn12	ERB160/ Pm16	ERB160+/ Mn16	ERB240/ Pm24	ERB240+/ Mn24
Förlängning A (min%)	15	25	15	25	15	25
Minsta brottlast (kN)	120	120	160	160	240	230
Load bearing capacity:						
Dimensioning			SSAB specifications			
Manufacturing			SSAB specifications			
Reaction to fire			Class A1			