



[www.diorit.biz](http://www.diorit.biz)

# SELF DRILLING ANCHORS



**DIORIT LTD.**

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# BUILDING SOLUTIONS TOGETHER



DIORIT PRODUCTION | 02

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# ABOUT DIORIT SDA ANCHORS



DIORIT PRODUCTION | 03

Diorit LTD. has its own production of Self drilling anchors (SDA) in the production facility in Odžak in Bosnia and Herzegovina. Self drilling anchors are a special type of rod anchors.

SDA anchors are used in more demanding and steeper terrains, and in the construction of tunnels. It can be installed on earthy and rocky terrain (tunnels, slope stabilization, various fixings). The field of application of the rock and soil anchor system includes the following areas:

- Slope protection,
- Embankment protection,
- Protection of construction pits,
- Slope protection combined with nets,
- Securing the tunnel and creating an open tunnel front.

The advantages of self-drilling anchors are in the possible greater length of installation, as well as the avoidance of the possibility of the well collapsing due to the extraction of the drill rod.

## **Types available: R32/R38/R51**

- Temporary anchors (useful life up to 2 years);
- Semi-permanent anchors, untreated, the rate of corrosion depends on the composition of the soil (service life up to 50 years);
- Semi-permanent anchors, hot-dip galvanized, the rate of corrosion depends on the composition of the soil (service life up to 50 years).

In its production, with the help of its partners, Diorit is also able to offer permanent SDA anchors whose time use can be as long as the expected life of the project.







**TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.**  
Technical and Test Institute for Construction Prague, S0E

Akreditovaná zkušební laborator, Autorizovaná osoba, Notifikovaná osoba, Oznámený subjekt, Subjekt pro technické posouzení, Certifikační orgán, Inspekční orgán • Accredited Testing Laboratory, Authorized Body, Notified Body, Technical Assessment Body, Certification Body, Inspection Body • Prosecká 811/76a, 190 00 Praha 9 - Prosek, Czech Republic

Authorized Body 204  
empowered by the Decision of COSMT No. 05/2017  
Branch 0900 – Technical Engineering Services

## REPORT

of the check on product conformity

according to the Article 7 of the Government Decree No. 163/2002 Coll., as amended by Government Decree No. 312/2005 Coll. and by the Government Decree No. 215/2016 Coll.

No. 090-056418

construction product:

SELF DRILLING ANCHORS SBS

type / variation: Diorit R32-250, R32-280, R32-360, R38-420, R51-630, R51-800  
R32-280/S

manufacturer:

DIORIT D.O.O. SARAJEVO

INo: 4201697600000

address: Tvornička 3, 71000 Sarajevo

Bosnia and Herzegovina

plant: DIORIT D.O.O. Sarajevo

address: Redže Porobića bb, 762 90 Odžak

Bosnia and Herzegovina

order: Z090220263

Number of pages including the front page: 5 Number of Annexes: 3  
Report validity: 31 October 2025

The person taking responsibility for the content of this report:

The person taking responsibility for correctness of this report:

Stamp of the Authorized Body 204  
Praha, 31 October 2022

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Tel.: 286 019 400, Fax: +420 286 881 995, Internet: +420 286 019 400, email: blajdova@tzu.cz, www.tzu.cz  
Bank connection (Bank): KB Praha 1 Czech Republic, Bank account: -1501-93101000, IČO: 000 15679, DIČ: CZ00015679



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Tvornička br.3, 71000 Ilidža-Sarajevo, BH  
PDV / ID : 20697600000 / 4201697600000  
info@diorit.biz // www.diorit.biz

## DECLARATION OF PERFORMANCE (DoP)

IZJAVA O SVOJSTVIMA

No. D-28/2022; Br. D-28/2022

Delivery note No. / Po otpremnici br.:

1. PRODUCT TYPE IDENTIFICATION MARK TIP PROIZVOĐA	Self-drilled hollow bar soil nail anchors SDA/SBS anchors: R32-250; R32-280; R32-280/S; R32-360; R38-420; R38-500; R51-630; R51-800 Samobitna injektivna SDA/SBS sidra: R32-250; R32-280; R32-280/S; R32-360; R38-420; R38-500; R51-630; R51-800
2. VALID TECHNICAL SPECIFICATION VAŽEĆA TEHNIČKA SPECIFIKACIJA	National Technical approval No. 090-056417/ The Approval is valid till: 27/11/2025. Report of the check on product conformity (CoC) No. 090-056418/ Report validity: 31/11/2025. Nacionalno tehničko dopuštenje br. 090-056417 / Certifikat o stalnosti svojstava br. 090-056418
3. INTENDED PURPOSE OF USE VRHA UPOTREBE	Self-drilled hollow bar soil nail anchors used for ground support systems in geotechnical engineering; Anchoring in mining, geotechnics, underground and civil engineering... Samobitna injektivna sidra za stijene sa šupljim šipkama-čevljima koje se koriste za sisteme potpore ili stabilizacije tla u geotehničkom inženjeringu...
4. MANUFACTURER PROIZVOĐAČ	Diorit d.o.o. Sarajevo; Tvornička br. 3; BA-71210 Ilidža, BH MANUFACTURING PLANT/PROIZVODNI OBRAT/PROIZVODNA JEDINICA: Diorit d.o.o. Podružnica broj 1; Redže Porobića bb BA-76290 Odžak
5. EVALUATION / TEST STANDARD STANDARD OCENJIVANJA / ISPITIVANJA	EN ISO 6892-1:2017 / EN 14490-2010 3.1. EN 12034 - raw materials System/ Sistem 1+
6. SYSTEMS OF ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE SISTEMI OCENJIVANJA I VERIFIKACIJE STALNOSTI SVOJSTAVA	Technický a zkušební ústav stavební Praha, s.p. - pobočka TIS-TZUS Praha, s.p. (Authorized body 204) Technical and Test Institute for Construction Prague - Branch TIS
7. NAME OF THE AUTHORITY INVOLVED IN ASSESSMENT AND VERIFICATION PROCEDURE / European Assessment Document/ European Technical Assessment/Technical assessment body/Notified body/bodies NAZEV ORGÁNU U PROCENI I POSTUPKU VERIFIKACIJE	Technický a zkušební ústav stavební Praha, s.p. - pobočka TIS-TZUS Praha, s.p. (Authorized body 204) Technical and Test Institute for Construction Prague - Branch TIS
8. Reference to the construction law: Reference zakonské regulative:	Act No. 22/1997 Coll. which specifies technical requirements for products; National technical approval according to Article 3 and the Conformity Verification according to Article 7 of the Government Decree of the Czech Republic No. 163/2002 Coll. which specifies technical requirements for selected construction products, as amended by Government Decree No. 312/2005 Coll. and by the Government Decree No. 215/2016 Coll.
9. DECLARED PERFORMANCE OF THE CONSTRUCTION PRODUCT: DEKLAROVANÁ SVOJSTVA GRADEBNÍHO PROIZVODU:	

Thread standard ISO 10208/ISO1720

Tip/Type	R32-250	R32-280	R32-280/S	R32-360	R38-420	R38-500	R51-630	R51-800
Outer diameter (mm)	31	31	32	31	38	38	50	50
Inner diameter (mm)	19,00	17,50	21,00	14,50	22,00	18,50	33,00	29,00
Cross section (s)	370	435	370	510	640	740	930	1150
Weight (kg/m)	2,9	3,4	2,9	4,0	5,0	5,8	7,3	9,00
Fp (0,2k) kN	190	230	280	280	350	400	530	630
Fpk kN	250	280	280	360	420	500	630	800
Elongation at ultimate load Agt %	> 6							

Tabular presentation of basic dimensions and performance of IBO-SDA anchors

The characteristics of the product mentioned above are in accordance with the stated performance. For the purpose of issuing this Declaration of Performance, in accordance with Regulation (EU) no. 305/2011 is the sole responsibility of the manufacturer listed above. The Declaration of Performance applies to the entire SBS/SDA anchor (with all elements); the installation of anchors must comply with the approval, and the quantity delivered refers only to the target construction site indicated on the delivery note. Karakteristike gore navedenog proizvoda su u skladu s navedenim svojstvima. U svrhu izdavanja ove izjave o svojstvima, u skladu s Uredbom (EU) br. 305/2011 isključivo je odgovornost gore navedenog proizvođača. Deklaracija o svojstvima se odnosi na kompletno SBS/SDA sidro (sa svim elementima); postavljanje sidara mora biti u skladu s odobrenjem, a isporučena količina odnosi se samo na ciljano gradilište navedeno na otpremnici.

Signed for and on behalf of the manufacturer/ Potpisano za i ime proizvođača:



"DIORIT" d.o.o.  
Sarajevo  
Company ID: 69-01-0022-11  
Branches BH d.o.o. / 12.11.2020



**TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.**  
Technical and Test Institute for Construction Prague, S0E

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Authorized Body 204  
empowered by the Decision of COSMT No. 05/2017  
Branch 0900 – Technical Engineering Services

issues

In accordance with the enactment of the Law No. 22/1997 Coll. on technical requirements for products and changes of and amendments to some laws as amended, and § 2 and § 3 of the Government Decree No. 163/2002 Coll. as amended by the Government Decree No. 312/2005 Coll. and by the Government Decree No. 215/2016 Coll.

## NATIONAL TECHNICAL APPROVAL

No 090-056417

construction product:

SELF DRILLING ANCHORS SBS

type / variation: Diorit R32-250, R32-280, R32-360, R38-420, R51-630, R51-800  
R32-280/S

Manufacturer:

DIORIT D.O.O. SARAJEVO

INo: 4201697600000

address: Tvornička 3, 71000 Sarajevo

Bosnia and Herzegovina

plant: DIORIT D.O.O. Sarajevo

address: Redže Porobića bb, 762 90 Odžak

Bosnia and Herzegovina

order: Z090220263

Authorized Body 204 attests by this National Technical Approval data about technical performance of the product in relation to its essential characteristics and methods of their tests in relation to the essential requirements listed in Annex 1 of Government Decree No. 163/2002 Coll. as amended by the Government Decree No. 312/2005 Coll. and by the Government Decree No. 215/2016 Coll.  
National Technical Approval is the technical specification designed for conformity assessment of the product.

Number of pages of National Technical Approval incl. the cover page: 5

The person taking overall responsibility for the content of this Approval:

The Approval is valid till: 27 October 2025

The person taking responsibility for correctness of this Approval:

Stamp of the Authorized Body 204  
Praha, 27 October 2022

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Diorit LTD. for its production of SDA anchors has the most important certificates:

- Certificate of Conformity(CoC) and
- Declaratin of Performance (DoP)

We are accredited for the EU and the world through The Technical and Test Institute for construction Prague-TZUS (Authorized body 204) i.e. one of the leading institute in the field of construction in EU.

Thread standard:

ISO 10208

ISO 1720

In our production, with the help of our partners, we are also able to offer permanent/galvanized SDA anchors, which use can be up to 100 years.

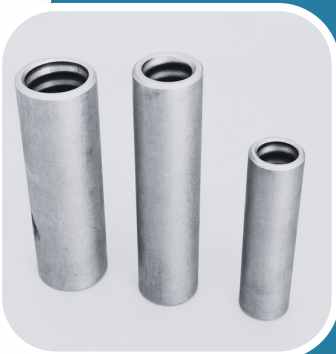
WE PRODUCE BEST QUALITY

# Elements of SDA anchor



SDA  
ANCHOR  
WITH PLATE,  
NUT AND  
COUPLER  
R32/R38/R51

COUPLINGS  
FOR  
R32/R38/R51



BUTTON BITS  
FOR  
R32/R38/R51



NUTS FOR  
R32/R38/R51



SPACERS  
FOR  
R32/R38/R51



## TABLE OF INFORMATION

# Technical characteristics

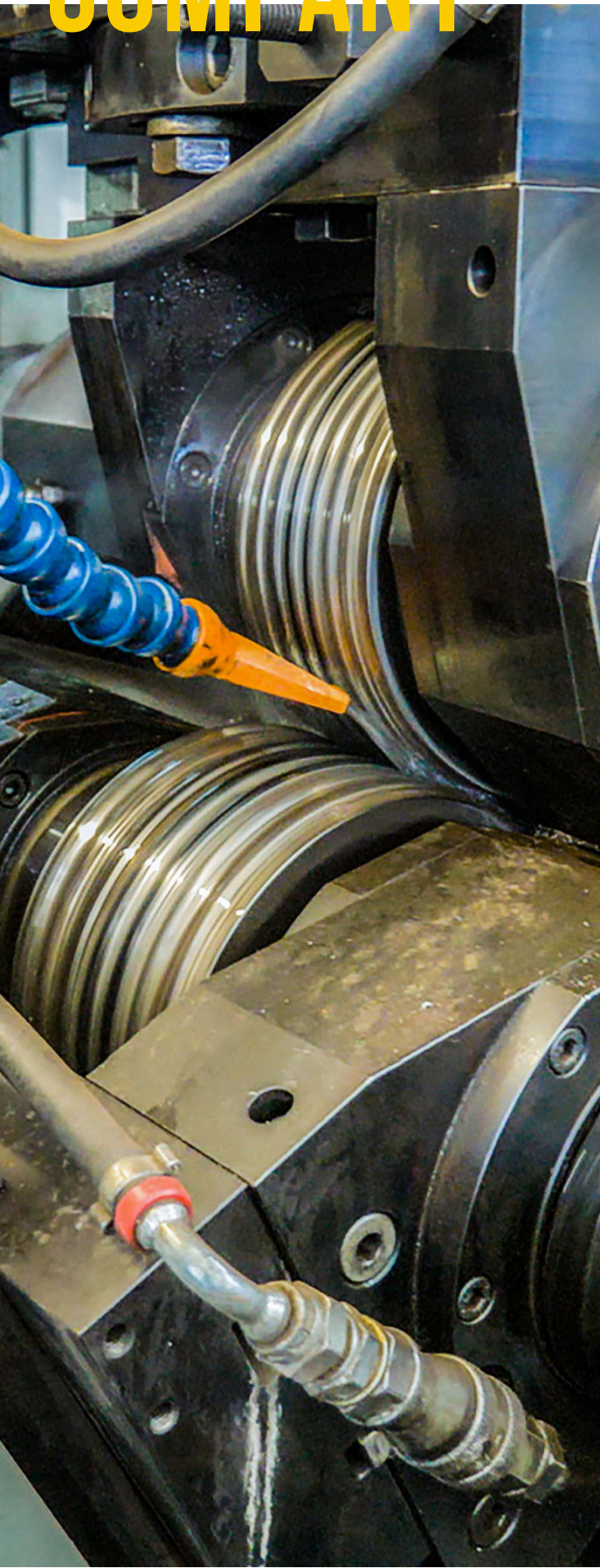
## OF DIORIT SELF DRILLING ANCHORS (SDA)

TYPE		R32				R38		R51	
Thread	Unit	R32-250	R32-280	R32-280S	R32-360	R38-420	R38-500	R51-630	R51-800
OD	mm	31	31	32	31	38	38	50	50
ID	mm	19,00	17,50	21,00	14,50	22	18,50	33,00	29,00
S	mm <sup>2</sup>	370	435	-	510	640	740	930	1150
m	Kg/m	2,9	3,4	2,9	4,0	5,0	5,8	7,3	9,00
Fyk (0,2k)	kN	190	230	230	280	350	400	530	630
Ftk	kN	250	280	280	360	420	500	630	800





# ABOUT COMPANY



Diorit Ltd Company established in 2011. and started its journey with a very strong and challenging motto "building solutions together". We are dedicated to provide high standard quality solutions mainly for high-tech Construction industry.

Through our regional offices Diorit provides services in the sector of prestressed structures, prestressing works, various system solutions for a variety of technical engineering purposes, including threaded bar anchors for mining and tunnelling, reinforcement connections, form ties, tie rods, soil nails, micropiles, rock and soil anchors for geotechnical applications, rock drilling tools as well as meshes for slope support project...



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