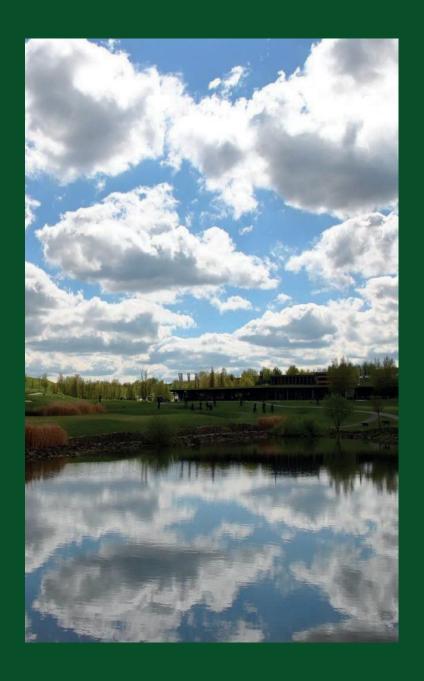
Mendel University in Brno Czech Society of Landscape Engineers – ČSSI, z.s.

Public recreation and landscape protection – with environment hand in hand?



Proceedings of the 14th Conference

Editor: Jitka Fialová

9th-11th May 2023, Křtiny

MENDEL UNIVERSITY IN BRNO

Czech Society of Landscape Engineers - ČSSI, z. s.,



Department of Landscape Management Faculty of Forestry and Wood Technology Mendel University in Brno



Public recreation and landscape protection with environment hand in hand?

Proceedings of the 14th Conference

Editor: associate Professor Ing. Jitka Fialová, MSc., Ph.D.

Under the auspices

of prof. Dr. Ing. Jan Mareš, the Rector of Mendel University in Brno,

of prof. Dr. Ing. Libor Jankovský, the Dean of the Faculty of Forestry and Wood Technology, Mendel University in Brno,

of doc. Ing. Tomáš Vrška, Dr., the Director of Training Forest Enterprise Masaryk Forest Křtiny, Mendel University in Brno,

of Ing. Dalibor Šafařík, Ph.D., the Chief Executive Office, Forests of the Czech Republic,



of JUDr. Markéta Vaňková, the Mayor of the City of Brno,



and of Mgr. Jan Grolich, the Governor of South Moravia,

south moravian region

in cooperation with Czech Bioclimatological Society, Nature Conservation Agency of the Czech Republic) and Partnerství, o.p.s.,

with the financial support of FS Bohemia Ltd.



The authors are responsible for the content of the article, publication ethics and the citation form.

All the articles were peer-reviewed.

© Mendel University in Brno, Zemědělská 1, 613 00 Brno, Czechia

ISBN 978-80-7509-905-1 (print)

ISBN 978-80-7509-904-4 (online; pdf)

ISSN 2336-6311 (print)

ISSN 2336-632X (online; pdf)

https://doi.org/10.11118/978-80-7509-904-4

Open Access. This book is licensed under the terms of the Creative Commons Attribution 4.0 International License, CC-BY 4.0 (https://creativecommons.org/licenses/by/4.0/)

Contents

ENVIRONMENT	SMARTPHONE	USAGE	IN	ACTIVE	RECREATI	ON	AND	NATURAL
Stanislav Azor, Mic	hal Marko, Štefan	Adamčák						9
ASSESSMENT OF OF SERBIA	EXTREME, LONG	G-TERM M	ETEC	ROLOGIC	AL DROUGH	HT IN	WESTE	RN PART
Martina Zeleňáková								
AWARENESS OF S L'ubomír Štrba, Bra Sidor	anislav Kršák, Len	ika Varchol	lová, i	Michaela F	Podoláková, k	Silvia	•	
BANK STABILIZAT								20
Miloslav Slezingr, D								24
BIOCULTURAL DIV Ivo Machar, Helena								27
CARAVANNING AN								31
CAUSES OF OVEF Emil Drápela								35
ECOTOURISM IN Petr Jelinek, Micha								39
ERGONOMIC APP Eva Abramuszkinov								45
EVALUATION OF Daniela Smetanová								50
EXPLORING THE I		_	_	_				57
EXPLORING WHIT Miroslav Čibik, Tím								63
FOREST EDUCAT SOCIETY IN THE (Kamil Żołądek, Róż	CELESTYNÓW FO	REST DIS	TRICT	-				
GREEN AREAS AN								
OF RESIDENTS Edyta Rosłon-Szery	yńska							71
HEALTH VALUES Emilia Janeczko, M								79
HISTORICAL EVO		STIVALS	IN G	UIMARAS	ISLAND: I	ITS II	MPLICA	TION TO
Norie H. Palma, Jas		sie H. Gaita	ano, F	Revenlie G.	Galapin, Pet	tr Kup	ec	83

METEOROLOGICAL ACTIVITIES OF J. G. MENDEL AS PART OF THE TOUR OF THE AUGUSTINIAN ABBEY
Jaroslav Rožnovský158
MID-FIELD WOODLOTS AS A SUBSTITUTE FOR FORESTS IN AGRICULTURAL AREAS - THE IMPACT ON ENVIRONMENT AND TOURISM Beata Fortuna-Antoszkiewicz, Jan Łukaszkiewicz, Piotr Wisniewski
MONITORING THE MOVEMENT OF VISITORS IN THE TATRA NATIONAL PARK USING BATTERY-POWERED ONLINE COUNTERS Ivos Gajdorus
MOUNTAIN RESCUE SERVICE - INEVITABLE HELP AT RECREATIONAL AND SPORT ACTIVITIES IN MOUNTAINOUS AREAS IN SLOVAKIA Matúš Jakubis, Mariana Jakubisová
NON-WOOD FOREST PRODUCTS: "CULTURE" + "TRADITION" = "EDUCATIONAL POSSIBILITIES". DOES IT MAKE SENSE? Szczepan Kopeć, Paweł Staniszewski
OLDER ADULTS AS A TARGET GROUP OF USERS OF GREEN AREAS IN PROJECTS OF THE WARSAW CIVIC BUDGET Kinga Kimic, Paulina Polko
PLANNING THROUGH A GIS THE RECOVERY OF RURAL BUILDINGS FOR THE DEVELOPMENT OF NEW FORMS OF TOURISM HOSPITALITY Pietro Picuno, Salvatore Margiotta
POSSIBILITIES AND ADVANTAGES OF INDIVIDUAL RECREATION IN THE TOPOLČANY DISTRICT Regina Mišovičová, Zuzana Pucherová, Henrich Grežo,
POSSIBILITIES OF RECREATION IN HNILEC RIVER BASIN FROM CLIMATOLOGICAL POINT OF VIEW Patrik Nagy, Katarzyna Kubiak-Wójcicka , Miroslav Garaj , Milan Gocic3198
POSSIBILITIES OF USING NEW TECHNOLOGIES IN CULTURAL TOURISM IN THE POST COVID ERA Kristýna Tuzová, Milada Šťastná202
PROBLEMS OF RURAL LANDSCAPE'S PROTECTION VS ANTHROPOPRESSURE AND RECREATION MOVEMENT - THE EXAMPLE OF THE NATURE RESERVE "STAWY RASZYŃSKIE" NEAR WARSAW Jan Łukaszkiewicz, Beata Fortuna-Antoszkiewicz
PUBLIC RECREATION AND TOURISM ARE ASPECTS THAT AFFECT NOT ONLY THE ENVIRONMENT David Brandejs, Pavel Klika
QUALITATIVE ASSESSMENT OF THE PREPAREDNESS AND POTENTIAL OF NATURE PROTECTED AREAS TO SUPPORT SUSTAINABLE TOURISM Radek Timoftej and Hana Brůhová Foltýnová
RECREATION IN CZECH LARGE PROTECTED AREAS: COUNTED AND SORTED Tomáš Janík
RECREATION LAND USE IN TERMS OF WATER PROTECTION Maria Hlinkova, Rastislav Fijko228

RECREATIONAL POTENTIAL OF RADOSINKA MICROREGION: LANDSCAPE – ARCHITECTI PROPOSAL OF THE CYCLO ROUTE Mária Bihuňová, Branislav Králik	
RECREATIONAL USE OF FOREST ROADS IN THE TERRITORY OF NATIONAL PARKS PROTECTED LANDSCAPE AREAS Roman Bystrický	AND
REFORM OF THE CONSTRUCTION ADMINISTRATION IN RELATION TO THE PERMIT OF BUILDINGS FOR RECREATION Alena Kliková	
REVITALISATION OF DRAINED FOREST AREA Jana Marková, Petr Pelikán	249
REVITALIZATION OF THE PARK IN THE CENTER OF IVANKA PRI DUNAJI Gabriel Kuczman, Denis Bechera	253
RISK ASSSESSMENT ON GEODIVERSITY SITES Lucie Kubalíková, Eva Nováková, František Kuda, Karel Kirchner, Aleš Bajer, Marie Ba	
RIVERS AS BACKBONES FOR URBAN AND PERIURBAN RECREATION – CASE STUDIES F KOŠICE AND PREŠOV, SLOVAKIA Juraj Illes, Katarina Kristianova	
SMALL-SCALE INVASIVE INTERVENTIONS AS IMPULSES FOR THE REACTIVA OF FORGOTTEN URBAN SPACES Miroslav Čibik, Katarína Jankechová	
STUDY OF THE RELATIONSHIP OF MOISTURE AND COMPACTION ON THE MODI OF RESILIENCE OBTAINED BY CYCLIC CBR TESTING IN LOCAL SOILS FOR A QUALITY RI TOURISM Iñigo Garcia, Lenka Ševelová	URAL
THE "KAMIEŃ" EDUCATIONAL PAVILION IN WARSAW AS A PLACE OF PRO-ENVIRONME ACTIVATION OF THE URBAN COMMUNITY Kinga Kimic , Magdalena Wolska	
THE ASSESSMENT OF ECOSYSTEM SERVICES IN TRNAVA (SLOVAKIA) AND SURROUN REGION Radovan Pondelík, Martin Zápotocký	
THE CONCEPT OF SENSE OF PLACE IN ENVIRONMENTAL EDUCATION Dominik Rubáš, Tomáš Matějček, Tomáš Bendl	286
THE EFFECT OF GRASS STRIPS ON SOIL RETENTION AND EROSION REDUCIN AGRICULTURAL LANDSCAPE Petr Karásek, Josef Kučera, Michal Pochop	
THE FIRST OFFICIAL FOREST MIND TRAIL IN THE CZECH REPUBLIC – KŘTINY ARBORETI Jitka Fialová, Martina Holcová	
THE HIPOROUTES IMPLEMENTATION OPTIONS FROM ALTERNATIVE MATERIALS Václav Mráz, Jiří Ježek , Karel Zlatuška , Vlastimil Nevrkla	302
THE IMPACT OF THE CREATION OF A RECREATIONAL AREA BY RECLAMATION A SURFACE MINE ON PROPERTY VOLUE Vítězslava Hlavinková, Martina Vařechová	

THE IMPLEMENTATION OF GIS TOOLS FOR PLANNING THE DEVELOPMENT OF RURAL TOURISM ALONG THE NETWORK OF OLD SHEEP-TRACKS Giuseppe Cillis, Dina Statuto, Pietro Picuno
THE IMPORTANCE AND FUNCTIONS OF RIPARIAN STANDS OF THE RECREATIONAL WATER RESERVOIR POČÚVADLO IN ŠTIAVNICKÉ VRCHY Mariana Jakubisová , Matúš Jakubis
THE ISSUE OF GEO-EDUCATION ON NATURE TRAILS IN THE FIRST SLOVAK GEOPARK BANSKÁ ŠTIAVNICA Silvia Palgutová, Michaela Podoláková, Lenka Varcholová, Branislav Kršák, Ľubomír Štrba 321
THE ROAD FROM THE CITY TO THE FOREST. OR HOW FAR IS THE URBAN MAN FROM A FUNCTIONAL FOREST? Vilém Pechanec, Helena Kilianová, Ivo Machar
THE ROLE OF LAND CONSOLIDATION IN RURAL SPACE DEVELOPMENT Jana Konečná, Michal Pochop, Jana Podhrázská, Petr Karásek, Eva Nováková
THE ROLE OF WETLANDS IN FLOOD PROTECTION PROCESSES IN THE LANDSCAPE – CASE STUDY Marián Dobranský, Peter Bujanský, Gao Zhenjun
THE UNFINISHED HITLER'S MOTORWAY – A HERITAGE IN THE CONTEMPORARY LANDSCAPE Ivo Dostál, Marek Havlíček, Hana Skokanová
TRADITIONAL COPPICE MANAGEMENTS AT THE LANDSCAPE LEVEL TOGETHER WITH RECREATIONAL USE Barbora Uherková, Jan Kadavý , Zdeněk Adamec, Michal Friedl, Aleš Kučera, Robert Knott, Michal Kneifl, Jakub Drimaj
TRANSFORMATION OF GARDEN SETTLEMENTS INTO A RESIDENTIAL ZONE Sofie Pokorná, Vítězslava Hlavinková
UNDERGROUND SPACES IN BOSONOŽSKÝ HÁJEK NATURE RESERVE AND THEIR GEOEDUCATION IMPORTANCE Karel Kirchner, František Kuda, Vít Baldík, Lucie Kubalíková
URBAN AGRICULTURE – ECOSYSTEM AND CULTURAL FUNCTIONS OF ORCHARD VEGETATION Jan Winkler, Petra Martínez Barroso, Doubravka Kuříková, Helena Pluháčková, Aleksandra Nowysz
VALORIZATION OF AN OLD SHEEP TRAIL AS A NEW OPPORTUNITY FOR SUSTAINABLE PUBLIC RECREATION: A CASE STUDY IN SOUTHERN ITALY Dina Statuto, Giuseppe Cillis, Pietro Picuno
WHERE NATURE MEETS ADVENTURE: TOURIST ACTIVITIES AT DOBROGEI GORGE NATURE RESERVE, ROMANIA Teodorescu Camelia, Szemkovics Laurentiu-Stefan, Dumitrascu Alina Viorica
WHERE THE SQUARE MEETS THE STREAM: RE-DESIGNING THE RURAL SQUARE IN VEĽKÝ KÝR, SLOVAKIA Attila Tóth
WHICH INFLUENCE HAS DEFORESTATION ON TOURISTIC RECREATIONAL AREAS IN SUCEAVA COUNTY? Ana-Maria Ciobotaru

WILL THE REMOVAL OF THE RECREATIONAL SYMBOL OF JESENIKY MOUNTA	IN SUMMIT
PARTS, THE DWARF PINE FORESTS, AFFECT THE ECOSYSTEM FUNCTIONS OF TH	
Petr Kupec, Petr Čech, Jan Deutscher	382
WINDBREAKS AS AN IMPORTANT ECO-STABILISING AND SOIL-PROTECTIVE	ELEMENTS
IN THE LANDSCAPE OF SOUTH MORAVIA	
Josef Kučera, Jana Podhrázská, Michal Pochop, Petr Karásek	387

LANDSCAPE-FRIENDLY METHOD OF FOUNDING WOODEN BUILDINGS FOR RECREATIONAL USE

Pavla Kotásková, Jitka Fialová

Department of Landscape Management, Faculty of Forestry and Wood Technology, Mendel University in Brno, Zemědělská 3, 613 00 Brno, Czechia

https://doi.org/10.11118/978-80-7509-904-4-0149

Abstract

When structures in the landscape based on concrete foundations are removed, the foundations are usually left in the ground, but the environment is degraded. The article focuses on the possibilities of foundations in the natural environment nowadays, when we can found buildings on earth screws. This is a way of founding buildings that will be more environmentally friendly. Using earth screws instead of concrete is a modern and eco-friendly option for founding a building or structure. They can also be used in terrain that is difficult to access. With the help of screws we can anchor an information board, a playground, a shelter, a fence, noise barriers, as well as footbridges and bridges or other wooden structures, e.g. even a modular wooden toilet building. If we decide to demolish or move the building, the screws can be unscrewed and the environment can remain intact. Another advantage is the speed of construction, compared to concrete foundations.

Key words: buildings in the landscape, foundations, ground screws, wooden buildings

Introduction

Under normal foundation conditions, we establish wooden buildings and wooden structures for recreational use in the landscape on flat foundations. These are most often strip foundations, footings or slab foundations made of concrete or reinforced concrete. Slab foundations are structures that distribute all loads into the soil at the level of the foundation joint. They are monolithic concrete structures, often combined with the pouring of concrete mix both directly into the excavation and into the lost formwork. The dimensions of the foundations depend not only on the load but also on the foundation conditions at the site. For unblocked buildings, the depth of the foundations is usually up to a non-freezing depth, i.e. a minimum of 800 mm. These foundations are sufficiently load-bearing and are also used for anchoring columns of simple wooden structures (gazebos, benches, information boards, signposts, etc.). Anchoring footings can be then fixed into the foundation directly into the fresh concrete using a spike or using a footing with a plate designed for additional fixing to a solid base, see Figure 1. However, wooden elements do not have a long service life in the natural environment. If the wood degrades, it can be replaced with new elements. But quite often the exchange does not happen, and an unsightly block of concrete remains in the natural environment.

In some recreationally attractive locations, visitor information centres, small restaurants or toilet facilities are built for visitors. These facilities can be designed as modular structures so that the environment is not burdened by the construction in the long term. However, even these buildings require foundations. If they are founded on conventional concrete slab foundations, topsoil must be removed, excavations made, and then it is possible to pour the concrete. The upper structure is then built on top of the storage slab. Pre-finished modular houses can be brought in and fitted, so that the natural environment is not affected by the construction. However, once these structures have reached the end of their useful life, the site is usually left with an unusable concrete area, even after the entire structure has been removed. A modern alternative to concrete foundations is ground drilling. Especially timber buildings, which are lightweight structures, can be founded on ground screws.

Materials and methods

In forests today, we often encounter unsightly anchoring of wooden posts directly into concrete footings or using various metal footings or profiles, see Figs. 2 and 3, where the structural protection of the wood is not even ensured and the wood degrades quite quickly. A modern variant is anchoring with ground screws. Earth screws are conical steel screws of various lengths that can be placed in the ground by hand with a mounting rod, by a special hand-held electric drill, or by a belt machine.

Thanks to many years of development and technologically demanding testing, earth screws for larger buildings are installed with the highest demands on precision, tensile and compressive strength and stability. Installation is carried out using professional equipment developed specifically for the application of ground screws. (www.zemnivruty-krinner.cz)

The screws actually work in a similar way to concrete piles, but it is a dry process. The screws are made of steel, treated with the highest quality hot-dip galvanizing, so they do not rust.

The dimensions of the screws correspond to the load and bearing capacity of the soil. The properties of the soil are determined by tensile testing. The screws can be used in any geological conditions. With experience in this method of foundation, installation can be carried out even in winter in freezing conditions. They can also be drilled into rock but need to be pre-drilled with a diamond crown drill bit. The bearing capacity of the soil is tested using a test frame. According to this test and the calculation of the structural engineer, the type, number and positioning of the drill holes are designed. It is also possible to build on a steep slope in this way.

The only limitation in the use of ground screws is swampy soil or soil with high groundwater levels. In such a situation, the screws would not provide sufficient stability (www.drevostavitel.cz).

They are manufactured in lengths from 450 to 4000 mm as standard. Timber buildings are lightweight structures, therefore the optimal lengths of the screws are approximately 2100 mm. They can be founded on one-piece or adjustable ground screws. The adjustable ones consist of a screw, an extension and a foot. The feet have different terminations, see Figure 4. The tip of the screw is specially shaped for better ground penetration.

In the case of timber framing, timber prisms - sawn timber or BSH prisms - are attached to the foot (top of the ground screws). Larch wood is suitable. The upper structure, usually a timber building, is mounted on the grid prepared in this way, see Fig. 5. It is possible to use any type of timber construction - log, timber frame, wall panel or modular construction. This creates a free space between the ground and the massive frame on which the timber building is mounted. The building is "on legs". It is a ventilated crawl space. This ventilated space is a perfect protection against ground moisture and water penetration, but also against radon penetration. Instead of the floor of the 1st floor, we are building a ceiling structure supported in several places by a grid. It is important to slope the ground so that water does not accumulate under the building.



Fig. 1: Stud feet and plate feet for anchoring wooden elements to concrete (Patky a profily, 2023)



Fig. 2: Unsightly concrete footings for anchoring the educational board (Kotásková)



Fig. 3: Inappropriate anchoring of the wooden posts of the information board, structural protection is not ensured (Kotásková)



Fig. 4: Termination of ground screw feet (DIY vruty nastavitelné, 2023)



Fig. 5: Example of a timber building based on earth screws (Chytré základy)

Results

Modular (modular) houses can be advantageously used for buildings in the countryside for recreational purposes. These are container-type houses, which are always manufactured in a production hall in a dry environment. They are constructed including the wiring and interior fittings. The

modules are then transported to the building site and stored using a crane. In this way, e.g. sanitary facilities, ticket office buildings or information centres in attractive natural locations, as well as restaurant facilities or shelters for holidaymakers can be realised in the open air. Larger objects can also consist of several modules connected to each other. This type of building can be also mounted on ground screws. This method of construction will have minimal impact on the natural environment. The ground screw can therefore be used for simple wooden structures, but also for large buildings, especially wooden buildings.

When screwed into the ground, the conical shape of the body compacts and compresses the soil in its surroundings, thus creating a very solid foundation that can be immediately loaded thanks to the regular threaded surface of the screw body. The main advantage of this technology is that it eliminates the need for concrete foundations, as well as excavation work, including the removal of topsoil. This eliminates the cost of soil removal and other field work. In addition, it is possible to flatten minor terrain irregularities with individual drills. The speed of construction and the reduced impact on nature are therefore positive. Ground screws have the undeniable advantage that they can be used even on difficult terrain where we would not be able to reach with concrete foundation equipment. Disassembly at the end of the life of the structure is possible. The screw is easily dismantled by simply unscrewing it and there is the possibility of reusing it. A service life of up to 150 years is expected (https://www.strefa.cz).

The disadvantages may be the inexperience of the contractors and the varying quality of the earth screws.

Conclusion

We should try to put as little strain as possible on the natural environment through construction activity. The construction of simple buildings can be carried out with modular houses, which are prepared in the factory and delivered ready to the site. In this way, the environment will not be burdened by construction traffic in the long term. For the foundation of such buildings, ground screws are sufficient. It is necessary to accurately measure the position and drill them into the ground. Without excavation and concreting, the ground screws can be used to fix a bench, anchor simple structures such as signposts, information boards for nature trails, a footbridge or fences, but they can also be used for a larger wooden recreational building, an information centre, a smaller lookout tower, toilet construction, etc. This method of foundation is land friendly, there is no damage to vegetation by traffic and installation compared to conventional concrete foundations. Primarily, temporary structures, i.e. structures for which their duration is obvious in advance, should be founded on ground screws. Once the structure is removed, there is no degradation of the site by concrete. The screw is easily dismantled by simply unscrewing it and there is the possibility of reusing it. The advantage is that the screws can be used in almost all geological conditions.

References

Matušková, B. 4 důvody, proč jsou pro založení dřevostavby lepší zemní vruty než beton [online]. 27.04.2022 [cit. 2023-03-25]. Dostupné z: https://www.drevostavitel.cz/clanek/zemni-vruty

Základy budoucnosti [online]. [cit. 2023-03-16]. Dostupné z: http://www.zemnivruty-krinner.cz/pdf/pr.pdf

Zemní vruty: postavte pevné základy bez betonování [online]. 08.02.2021 [cit. 2023-04-12]. Dostupné z: https://www.strefa.cz/zemni-vruty-zaklady-bez-betonu-p92973/

Patky a profily [online]. [cit. 2023-03-16]. Dostupné z: https://www.dek.cz/produkty/vypis/51267-patky-a-profily

DIY vruty nastavitelné [online]. [cit. 2023-04-14]. Dostupné z: https://www.zemnivruty.cz/kategorie/diy-vruty-nastavitelne/

Chytré základy.: Jak probíhá spolupráce s námi [online]. 10.2.2020 [cit. 2023-04-10]. Dostupné z: https://chytrezaklady.business.site/

Souhrn

Přírodní prostředí se máme snažit co nejméně zatěžovat stavební činností. Výstavba jednoduchých objektů může být realizována modulovými domy, které se připraví ve výrobně a hotové přivezou na místo. Tím nebude prostředí dlouhodobě zatíženo staveništním ruchem. K založení takových staveb stačí zemní vruty. Je třeba přesně zaměřit polohu a zavrtat je do země. Bez výkopů a betonování tak lze pomocí zemních vrutů upevnit lavičku, kotvit jednoduché konstrukce jako je rozcestník, informační tabule naučné stezky, lávku nebo ploty, ale můžeme je využít i pro větší dřevostavbu rekreačního objektu, informačního centra, stavbu toalet apod. Tento způsob zakládání je šetrný k pozemku. Odpadá nutnost betonování základů, ale i náklady na odvoz zeminy a další terénní práce.

Jednotlivými vruty je navíc možné srovnat drobné terénní nerovnosti. Pozitivní je proto rychlost výstavby a menší dopad na přírodu. Zemní vruty mají tu nespornou výhodu, že se dají použít i na špatně dostupném terénu, kam bychom se s technikou pro betonové základy nedostali.

Primárně by na zemních vrutech měly být zakládány dočasné stavby, tedy stavby, u kterých je předem zřejmé jejich trvání. Po odstranění stavby nedochází ke znehodnocení pozemku betonem. Vrut se snadno demontuje pouhým vyšroubováním a je zde možnost jej opakovaně použít. Výhodou je, že lze vruty využít téměř ve všech geologických podmínkách.

Contact:

Ing. Pavla Kotásková, Ph.D. E-mail: pavlakot@mendelu.cz

Open Access. This article is licensed under the terms of the Creative Commons Attribution 4.0 International License, CC-BY 4.0 (https://creativecommons.org/licenses/by/4.0/)



Title: Public recreation and landscape protection – with environment hand in hand?

Proceedings of the 14th Conference

Editor of the proceeding: associate Professor Ing. Jitka Fialová, MSc., Ph.D. Publisher: Mendel University in Brno, Zemědělská 1, 613 00 Brno, Czechia Print: Mendel University in Brno, Zemědělská 1, 613 00 Brno, Czechia

Edition: 1st Edition, 2023

No. of pages: 392 No. of copies: 75

ISBN 978-80-7509-905-1 (print)

ISBN 978-80-7509-904-4 (online; pdf)

ISSN 2336-6311 (print)

ISSN 2336-632X (online; pdf)

https://doi.org/10.11118/978-80-7509-904-4