

ECHO

investment



*Wszystko
zaczyna się
od Ciebie*











Environmental and Health Safety Best Practices





The construction process, despite the best plans and technologies, is often related to situations which surprise us, and which require our reaction to enable works to run smoothly, and most of all safely. Such situations unleash loads of creativity in our co-workers, resulting often in surprising and unconventional ideas and solutions. They are an important element of continuous improvement and development of our company.

We hereby provide you with a set of best practice rules we have observed over the 2 last years on projects of Echo Investment. We believe they will be helpful to you in your everyday work as well as inspiring you how to do things even better and more safely.

Dariusz Nowak
EHS Director
ECHO Investment S.A.



	Category		Sub-Category	
	Project Organization	Documentation Site Office Traffic organization (pedestrian and vehicle) Storage	Cleaning Fencing CCTV monitoring Access control	
	Logistics	Verical transportation Horizontal transportation Organization of deliveries	Unloading of deliveries Work under traffic	
	Construction Works	Earth works Cast-in situ structure Steel structure Masonry works Service works	Finishing works / Fit-out Roofing works Glazing / facade works Demolition Road works	
	Heavy weight equipment	Cranes and gantries Bulldozers	Excavators Pilling equipment	
	Electricity	Site switchboards Power supply distribution	Electrical equipment control Electrical safety	
	Work at height	Equipment for working at a height Techniques for working at a height	Personal equipment Collective equipment	
	Personal protection equipment	Eye protection Facial protection Head protection Limb protection	Respiratory protection Ear protection Protective clothing Fall protection	
	Competences	H&S training Competence training H&S / TBT talks		

	Category		Sub-Category	
	Communication		External communication Project communication	
	Chemicals		Storage of chemicals Personal protection Collective protection	
	Natural environment		Waste Dust Lighting pollution 4R (reduce, reuse, recycle, recover)	
	Crisis situations		Fire protection Firs aid Evacuation	



The General Contractor and tradecontractors are subject to pre-qualification before commencing work. The completed „Trade-contractor EHS questionnaire" allows us to assess the overall EHS level of contractor and determine the relevant support by ECHO or Principal Contractor. Before introducing the contractor to the project, „Pre-Start Meetings" are organized, where we discuss our requirements and standards.

II. Organizacja i zasoby
 2.1 Kto sprawuje ogólną i końcową odpowiedzialność za BHP? Stanowisko
 Imię i nazwisko: Artur Jurkiewicz Kierownik Działu BHP i kontroli jakości

Spotkanie z Wykonawcą w sprawach BHP i OŚ przed rozpoczęciem realizacji
 Data wydania: 10-05-2019 Strona 1 z 6

ECHO
 Wymagania ECHO w zakresie BHP

Nazwa Budowy: Kod: Piłsudskiego 10-05-00 REACT **Wykonawca** (którego dotyczy spotkanie): Mattelewicz & Radek sp. z o.o.

Obecni na spotkaniu:
 1. Osoba z ramienia Echo/GW: Tomasz Kmiecik, Piotr Czerwik
 2. Kierownik z ramienia Wykonawcy: Damian Soltys

Ogólny przewidywany poziom ryzyka związany z zakresem prac Wykonawcy
☒ Wysoki ☐ Średni ☐ Niski

1. Przed rozpoczęciem realizacji

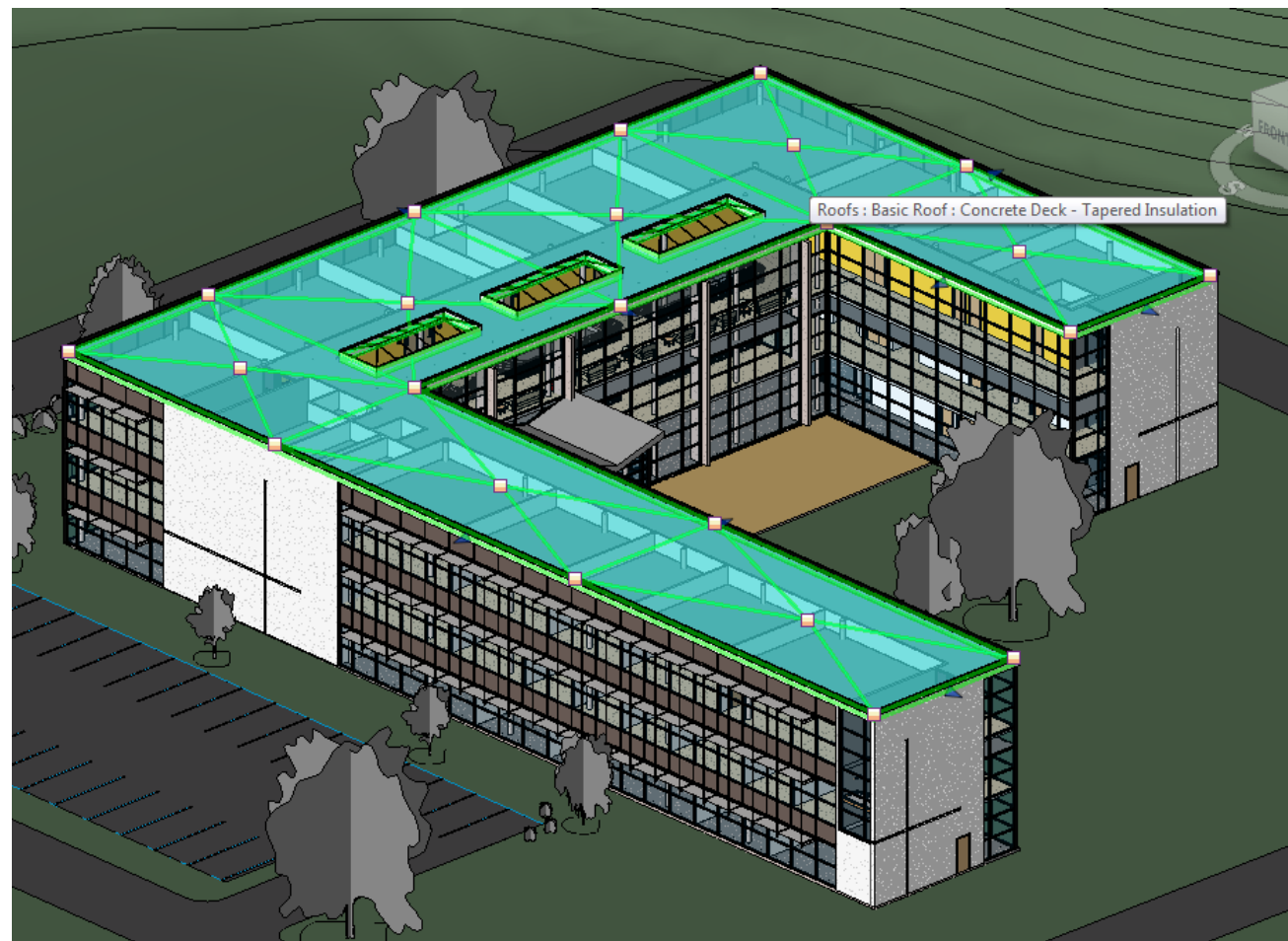
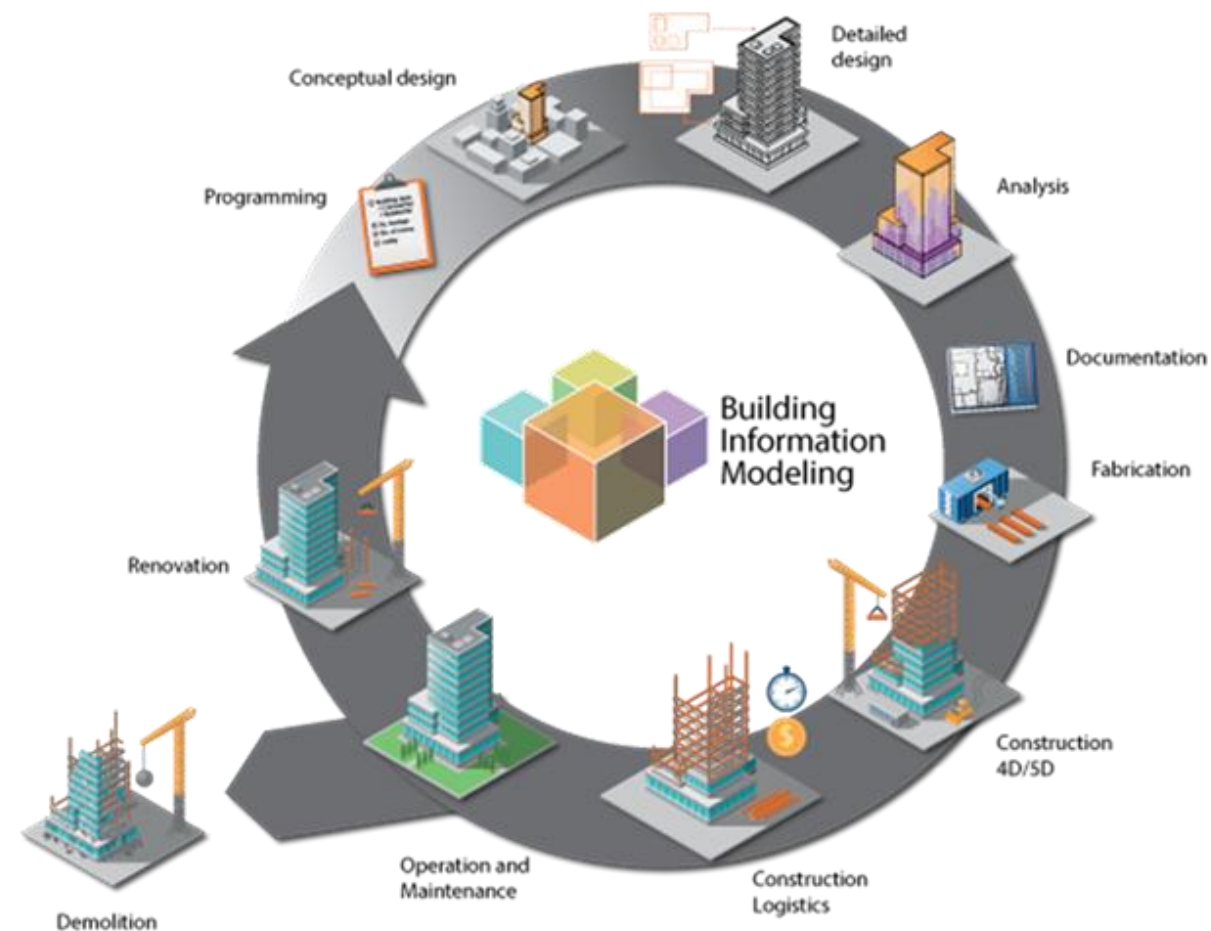
Zagadnienia do omówienia	Omówione	Objaśnienie
1.1. Ocena Ryzyka	Tak <input checked="" type="checkbox"/> Nie <input type="checkbox"/> N/D <input type="checkbox"/>	Wykonawca musi opracować dla swoich pracowników Ocena Ryzyka zawodowego (wymóg prawny) na stanowisku pracy lub dla realizowanego zadania. Ocena Ryzyka powinna być dostarczona do Koordynatora BHP. Ocena ryzyka może być częścią składową IBWR.
1.2. Instrukcja Bezpieczeństwa Wykonania Robót (IBWR)	Tak <input checked="" type="checkbox"/> Nie <input type="checkbox"/> N/D <input type="checkbox"/>	Wykonawca musi opracować IBWR (wymóg prawny). IBWR powinna być dostarczona do Koordynatora BHP. W IBWR musi być opisana pełna sekwencja realizowanych prac od dostawy materiału przez transport pionowy/poziomy, do wbudowania w obiekt.
1.3. Wymagana liczba pracowników nadzoru Wykonawcy na stałe na budowie	Tak <input checked="" type="checkbox"/> Nie <input type="checkbox"/> N/D <input type="checkbox"/>	Zgodnie z wymogiem Echo Wykonawca powinien zapewnić na stałe minimum jedną (1) osobę do kierowania pracownikami na dziesięciu (10) pracowników. Osoba kierująca pracownikami musi jako minimum posiadać szkolenia BHP dla osób kierujących pracownikami.
1.4. Wykaz pracowników i sprzętu Wykonawcy	Tak <input checked="" type="checkbox"/> Nie <input type="checkbox"/> N/D <input type="checkbox"/>	Jako potwierdzenie, że pracownicy posiadają wymagane prawem badania i szkolenia oraz uprawnienia, Wykonawca przedkłada oświadczenie w formie wykazu pracowników zgodnie z wzorem dokumentu Echo do Koordynatora BHP na budowie. Należy przed wszystkim zwrócić uwagę, aby w wykazie pracowników była jasno określona osoba od Wykonawcy do kierowania pracownikami, która na stałe będzie na budowie. Należy zweryfikować, czy posiada ona min. szkolenie okresowe BHP dla osób kierujących pracownikami.

Dodatkowy komentarz: Osoby do kierowania pracownikami Wykonawcy (imię, nazwisko i telefon): Damian Soltys



Project organization

We are currently working on the implementation of BIM on all Echo projects, including the implementation of EHS solutions, focusing primarily on: securing work at height (including elimination / reduction of the need to work at height through design solutions) , excavations, site layout (including the location of tower cranes, storage lanyars, roads for trucks and pedestrians, etc.). By using BIM in a better way, we are able to ensure effective planning of works and thus minimize potential risks during construction phase.





Project organization

Project site have to have proper and tight fenced. Properly organized access by providing security guard post equipped with turnstiles integrated with the access card reader improves control and minimizes the risk of unauthorized access from the public zone. By providing PPE and EHS Induction Training for guests it is possible to ensure safety for people visiting the construction site.





Project organization

PPE's (safety helmets, hi-vis vests and safety footwear) available at site gatehouse for any guests entering to site. Site access with turnstiles connected with electronic card readers. Providing the labels with feet size on protective shoes is a good practice.





Project organization

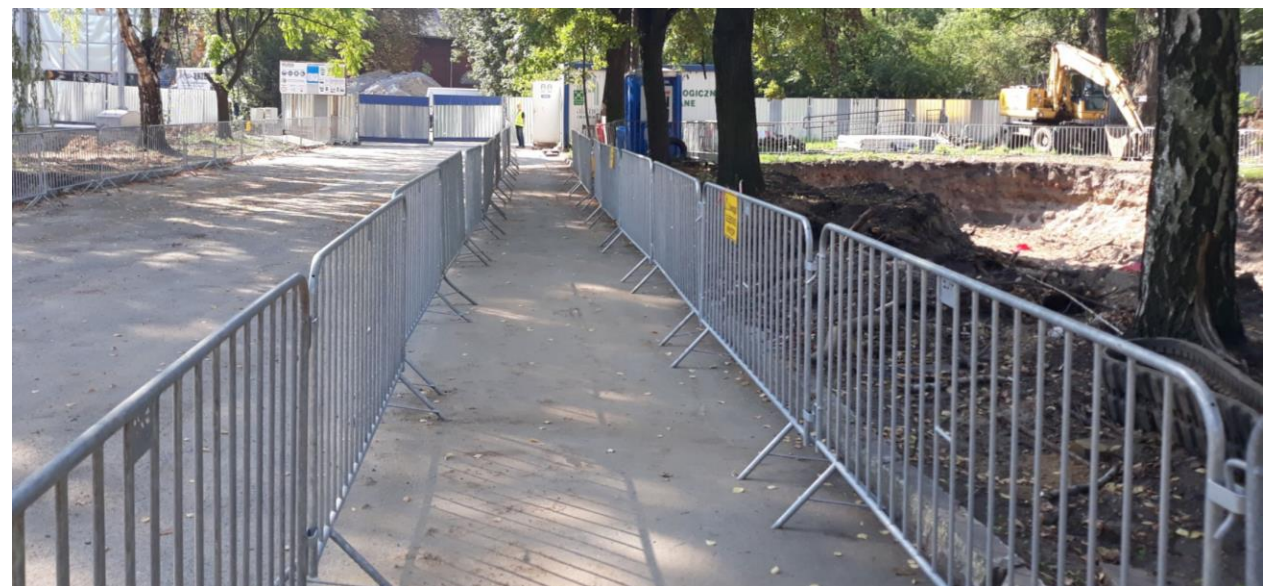
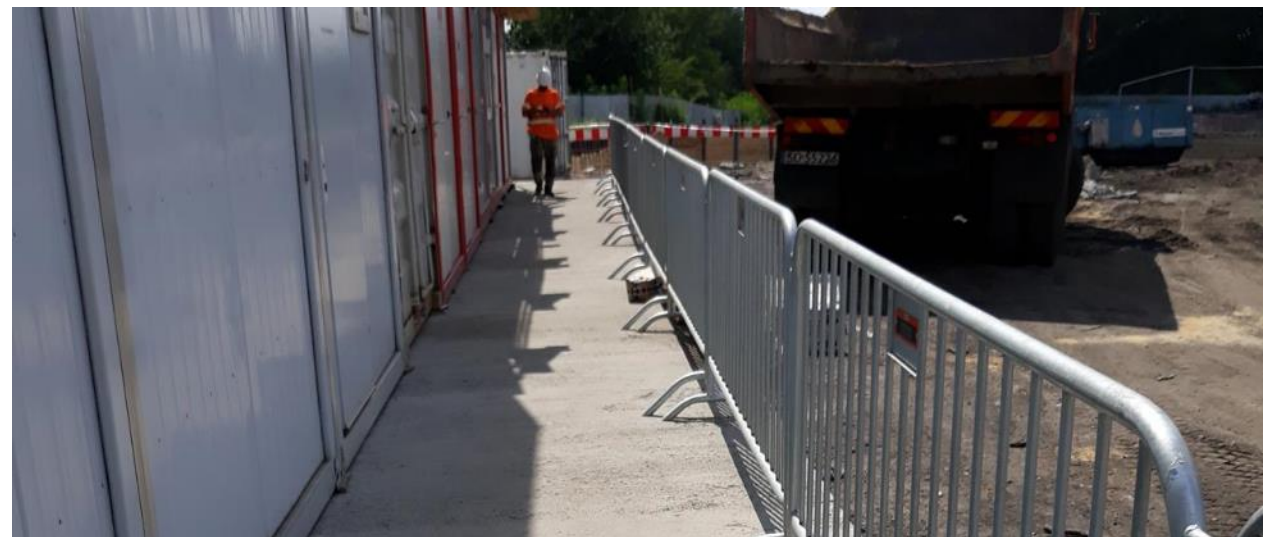
Induction training for employees and visitors should be organized in rooms prepared for this purpose. During breaks at the construction site, comfortable rooms have to be provided.





Project organization

One of the major risk at construction site is hitting employees by moving vehicles. Pedestrians or vehicles must be able to use a traffic route without causing danger to the health or safety of people working near it. Roadways and footpaths should be separated whenever possible. You need to consider protection for people who work near vehicle routes.





Project organization

For the 'destination' projects, the key hazard is logistics: pedestrian traffic, truck-traffic and storage of materials, with limited space. We are working on improving logistics "just in time" on "destination projects" by implementing modern IT support tools, aiming at improving the flow and safety of supplies which can give also financial benefits.

Dashboard - Gate G-1

Expected to enter

2

Vehicles

Delayed arrivals

-

Vehicles

Spare parts

for Wagabund

from Bestparts

id **5732**

WAW19542

20:10 +14

Steel

for Peacebud

from Stalexport

id **5398**

OLD94830J

10:25

Fuel

for Bademix

from PKN Orlen

id **5621**

W0 39951

10:30

Reinforcing mesh

for Peacebud

from Steelma ...

id **5090**

W1 11034P

10:35

Currently on site

4/10

Vehicles / limit

Delayed departure

2

Vehicles

ARRIVAL



DEPARTURE



Within an hour

7

Vehicles

By day's end

36

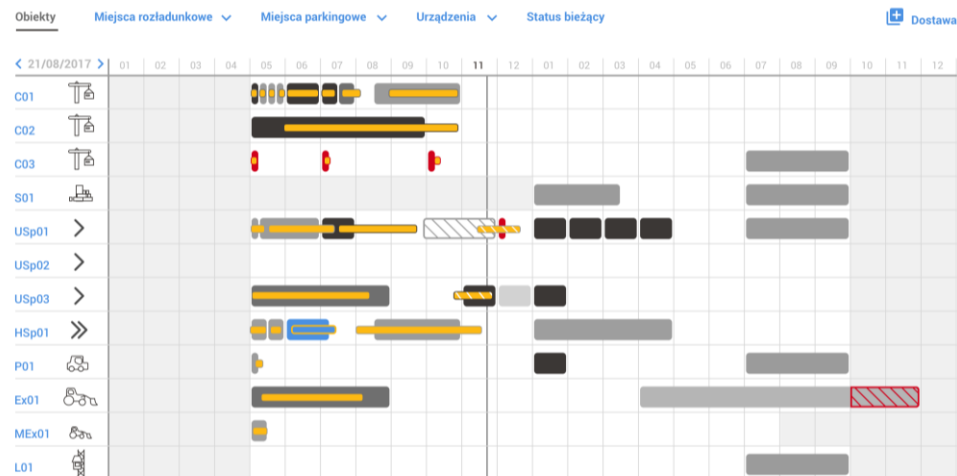
Vehicles



11:46

Monday
17/07/2019

Harmonogram





Project organization

Where possible, the organization of parking lots should be provided outside the construction site. In sensitive places: at the junction of construction entry / exit roads, at vehicle maneuvering - a designated and trained banksmen person should be provided to manage the traffic.





Project organization

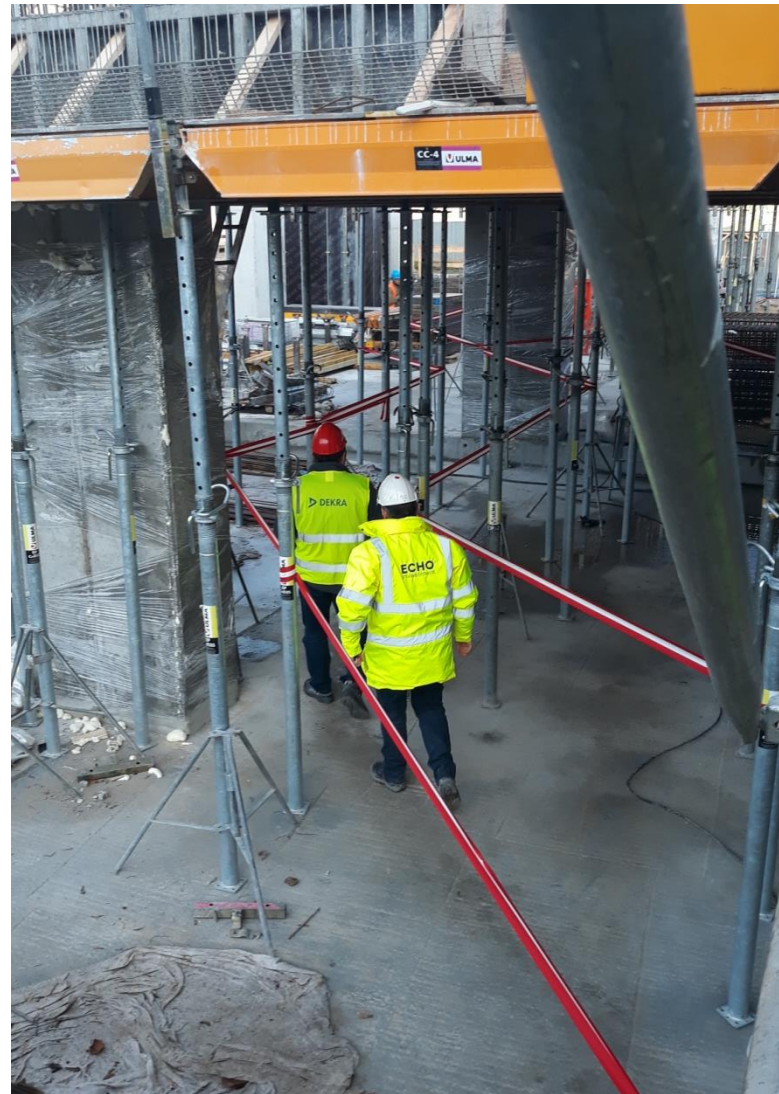
Make sure if any platforms and slopes are safe for pedestrian traffic. In particular if there is slipping risk – provide sufficient means to avoid such hazard, especially in autumn-winter season.





Project organization

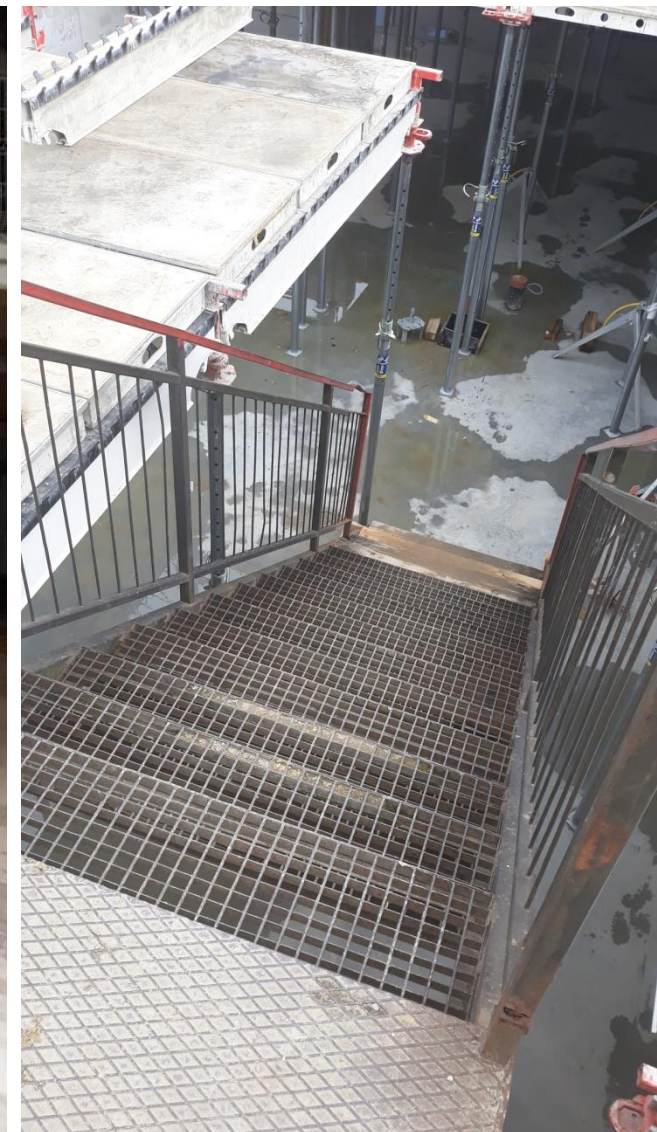
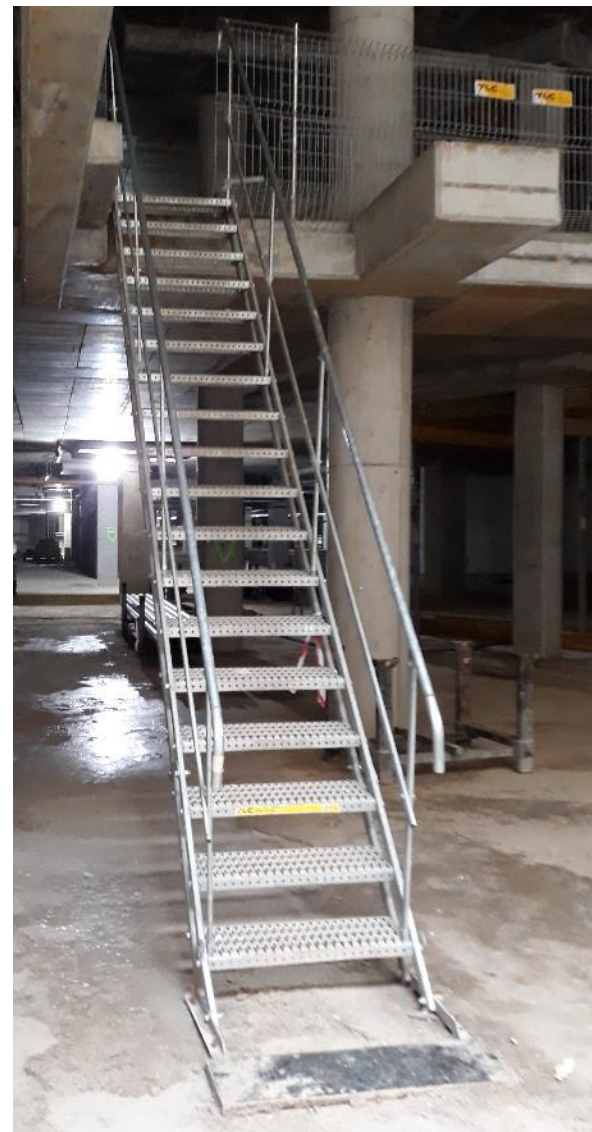
The efficient handling and storing of materials are vital to Construction. In addition to raw materials, these operations provide a continuous flow of materials and assemblies through the workplace and ensure that materials are available when needed. Safe material storage will enhance project productivity. Storage areas should be specifically designated, be clearly marked, and be in the charge of a responsible employee. Stored materials can not block pedestrian aisles and evacuation routes.





Project organization

Consider that a safe means of access-egress must be provided to places of work and this includes access for construction workers to carry out work in what may have been identified as hazardous areas of existing structures. At least two routes must be provided at the same time to ensure access and egress (in case of emergency situation) from all workstations on site. In ECHO system solutions are preferred – temporary stairs.

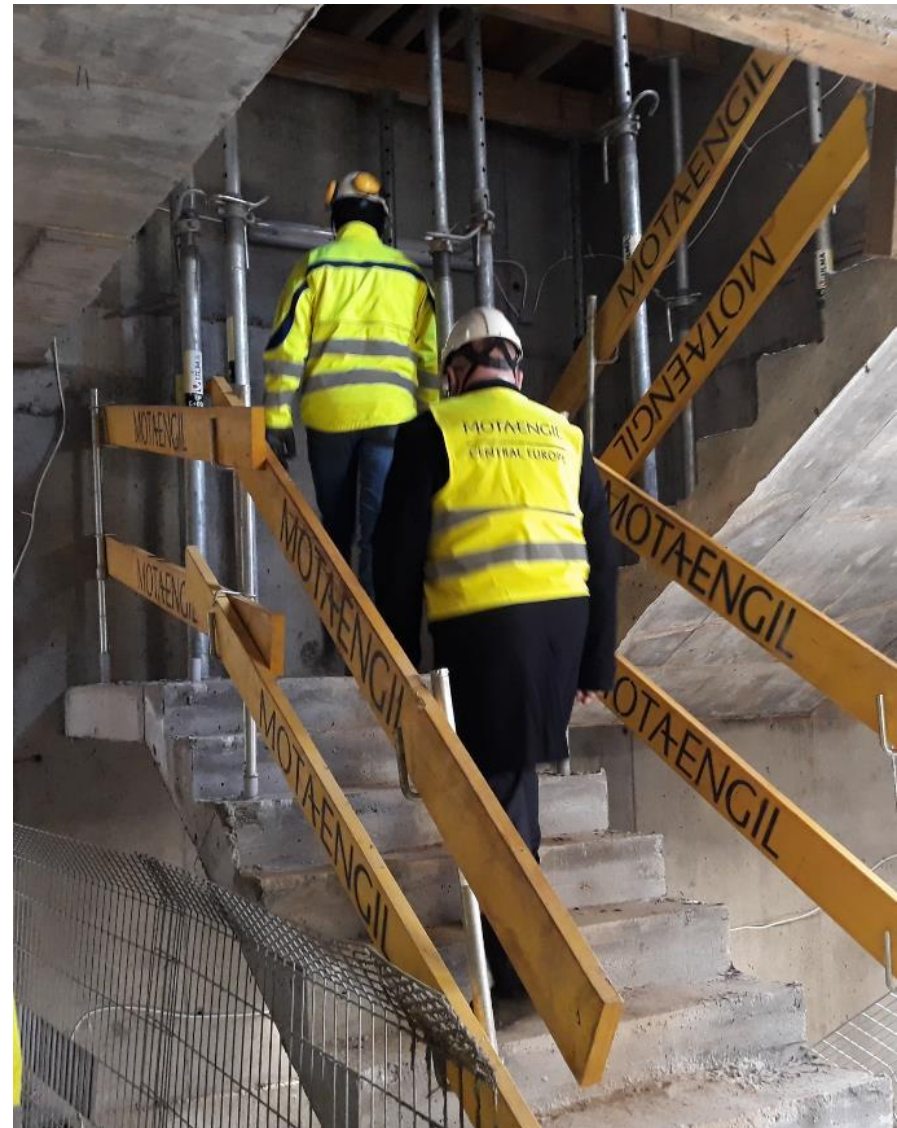






Project organization

In many cases on construction sites we do use final staircases as access – egress between different levels of the building. In such situation we must provide proper system guardrails in a staircase till the moment when we have final staircase guardrails installed.





Site organization

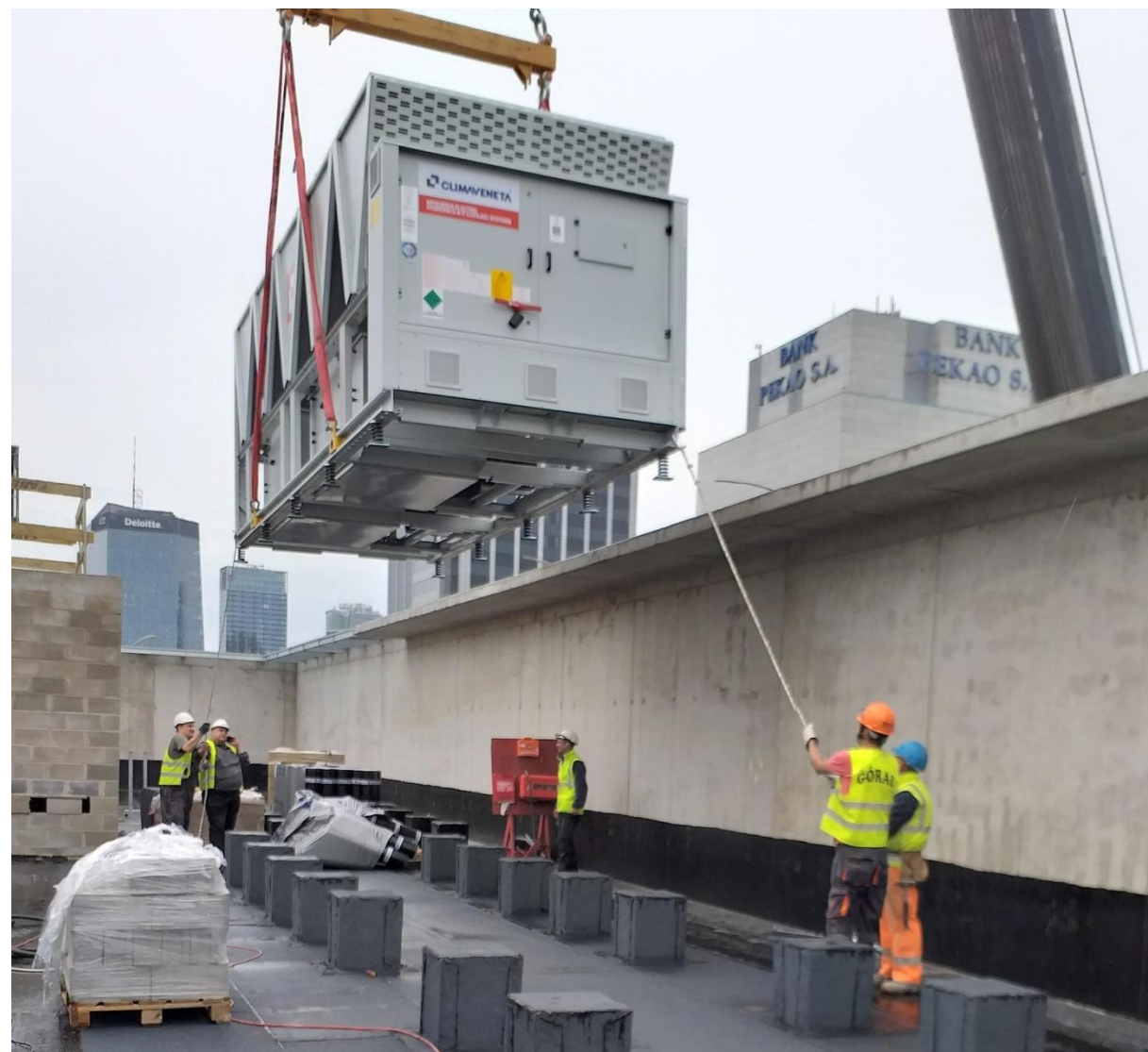
Designing the future object - the Safety by Design method in many cases allows you to minimize certain hazards. An example of a solution is the standard of staircase finishing (no stair linings or plasters / wall coverings means a significant reduction in the risk of falling from height during such works).





Lifting operations

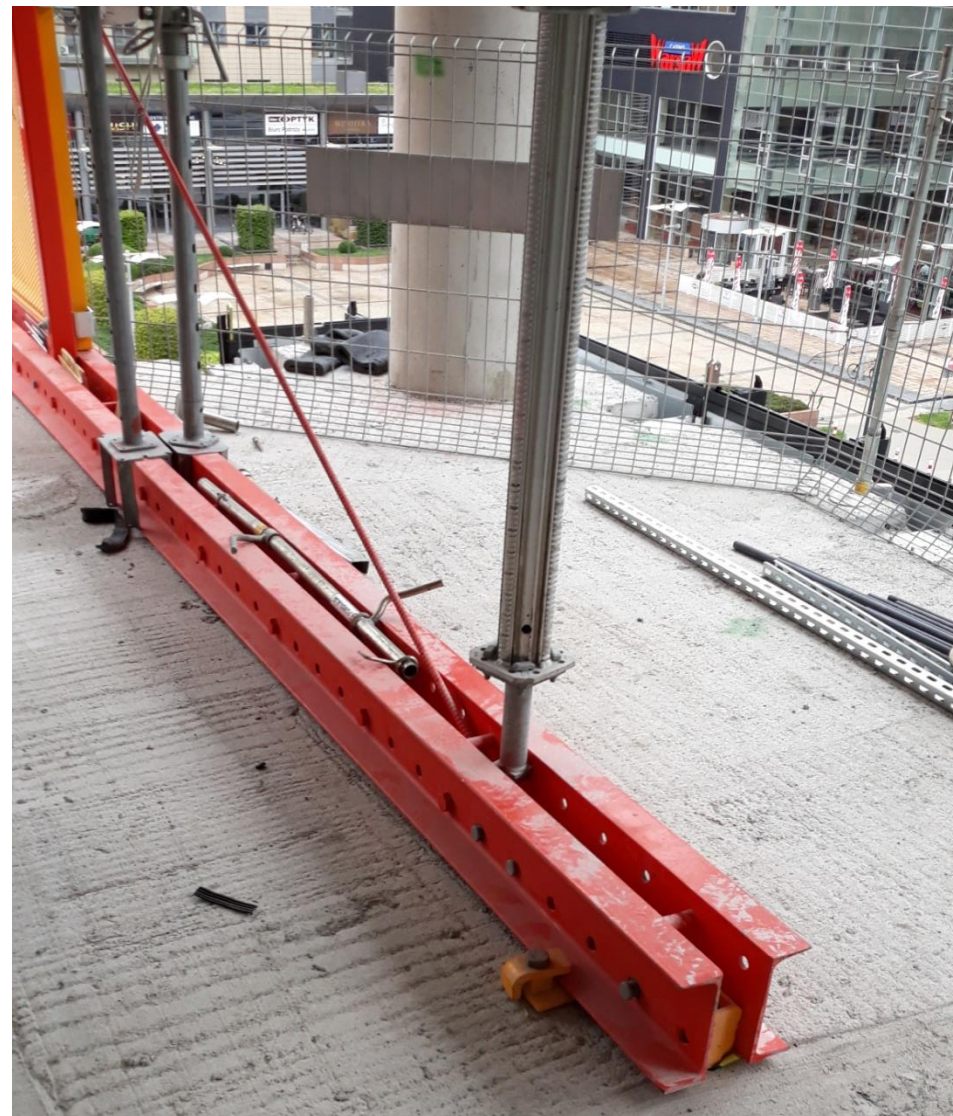
Effective and safe logistic planning is imperative for any construction project as it can provide massive benefits in efficiency and productivity that significantly reduces the overall cost of the project. This simple solutions might be inspirational for you when planning your project. These examples include appropriate securing of the lifted loads, system loading platforms and appropriate communication/warning equipment for signaller, crane operator and other employees on site.





Lifting operations Loading platforms

Providing a system unloading platforms „preston platforms" allows us to increase lifting operation safety. Additional fixings in the ceiling or bracing in the expansion supports are necessary - in the event of horizontal dynamic force (e.g. in the case of an impact with the transported material).

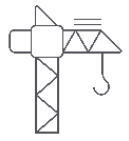




Lifting operations Slinging methods

Loose shutterring girders during the lifting have to be additional secured to avoid falling – it can be done with fastening with transport belts or nets. An examples are displayed below.





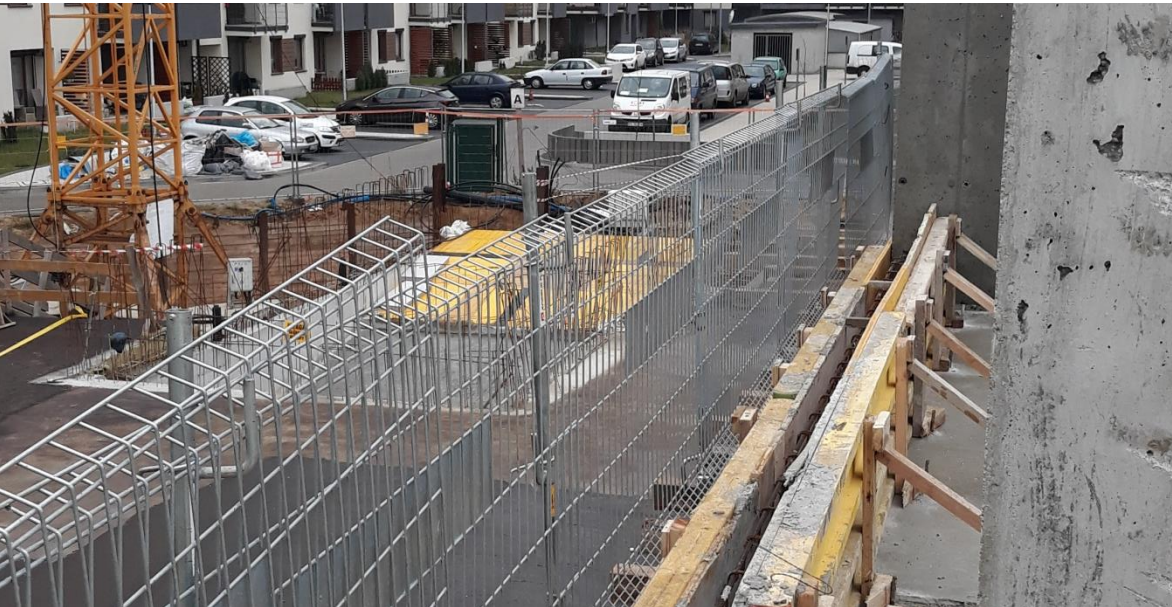
Lifting operations Evacuation drill





Working at height

Leading edge is a huge challenge and major risk for the project. Risk related to this topic are various: falling persons, falling objects. These simple solutions might be helpful to provide a safer environment on your site. In ECHO system solutions are obliged for temporary edge protection at height. It is required to use metal mesh pannels instead of timber boards as guardrails.





Working at height

It is important to ensure that edge protections system will be fixed with proper anchor / fixing points. Assembly have to be done according to the manufacturer guidelines – given in manual.





Working at height





Working at height Fall restraint

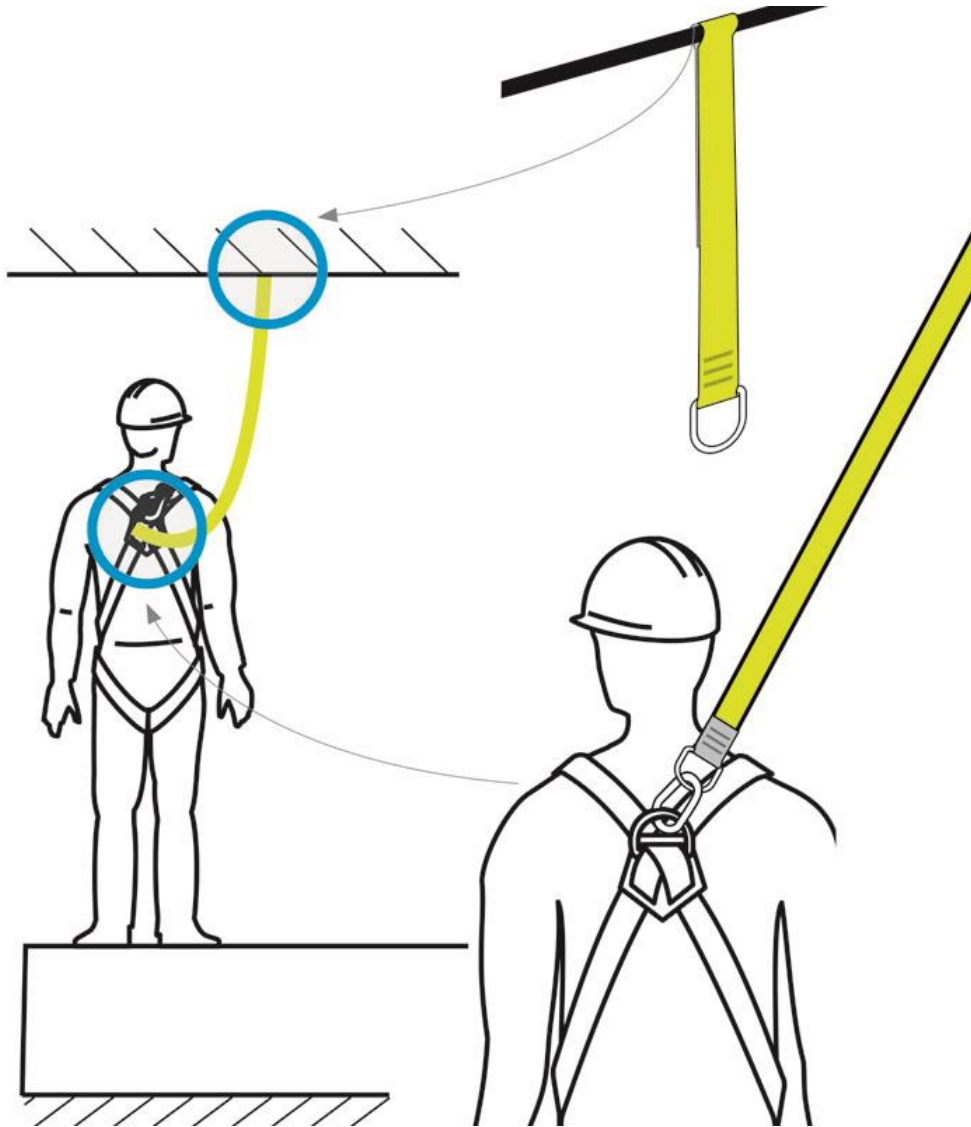
Some works – due technological reasons (f.i. assembly of edge protection) can't be done with collective protection (system mesh panels installation). In such cases it is required to ensure „fall restraint” (not start of fall) method. Usually this method can be implemented during masonry works at edges or cladding works.



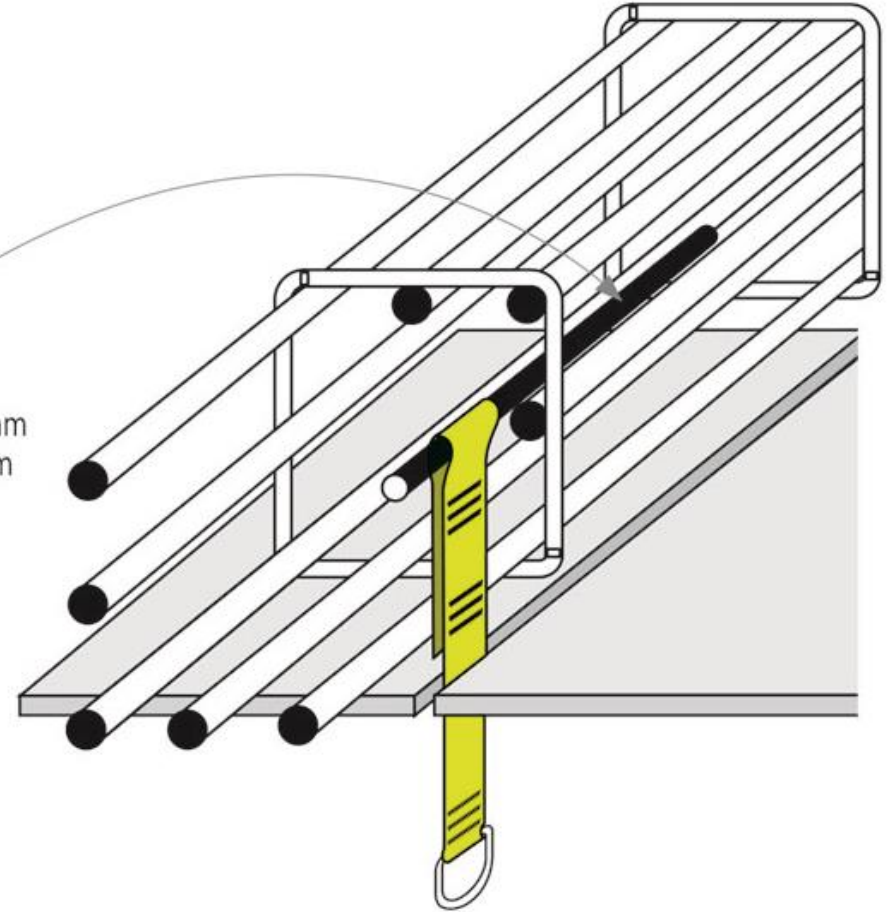


Working at height Webbing sling

When working near shafts or in other places where there is a high risk of falls from a height, the assembling of „webbing slings“ is a helpful solution. Their assembly should be taken into account at the stage of reinforced concrete works, that's why this solution should be considered at the design stage ("Safety by Design").



min. diameter - 10 mm
min. length - 300 mm





Working at height

Huge improvement in working at height is possible thanks to proper planning and right equipment. Have a look on what we have already done in this area. Ensuring a system working platforms on shuttering is an ECHO standard. Optionally, mobile scaffoldings are used, from which from formwork and concreting works can be carried out.





Working at height





Working at height

The ongoing control of access equipment - including the scaffolding used on our construction sites – is extremely important. For this purpose, a standard of scaffold-mounted labels has been introduced (scaff-tags). Placards placed on scaffoldings improve ongoing control over the scaffolds condition.

UWAGA
Przewieszka może usuwana lub wypełniana tylko przez autoryzowany personel. Nieuprawniona ingerencja podlega karom dyscyplinarnym.

Tabele wypełnia tylko osoba upoważniona

Zamawiający / Eksploatujący: **NRK**

Nr ewidencyjny: **13/2019**

Miejsce: **1-12 / A1-G**

Monter: **ŁUKASIAK**

Data przekazania do eksploatacji: **06.11.2019**

Podpis: **[Signature]**

Przed pierwszym użyciem rusztowania należy wykonać przegląd i potwierdzić odpowiednim wpisem na odwrocie tej karty.

W przypadku zapytań dotyczących tej konstrukcji należy kontaktować się z następującą osobą:

Nazwisko, imię: **ŁUKASIAK**

Tel: **668-049-685**

Informacje dodatkowe:

Data demontażu:

Karta kontrolna konstrukcji i przeglądów rusztowania

ID: **4**

Obciążenie użytkowe (zaznaczyć właściwe)

Klasa obciążenia 1. 0,75 kN/m ² / 75 kg/m ²	<input type="checkbox"/>
Klasa obciążenia 2. 1,50 kN/m ² / 150 kg/m ²	<input checked="" type="checkbox"/>
Klasa obciążenia 3. 2,00 kN/m ² / 200 kg/m ²	<input type="checkbox"/>
Klasa obciążenia 4. 3,00 kN/m ² / 300 kg/m ²	<input type="checkbox"/>
Klasa obciążenia 5. 4,50 kN/m ² / 450 kg/m ²	<input type="checkbox"/>
Klasa obciążenia 6. 6,00 kN/m ² / 600 kg/m ²	<input type="checkbox"/>

Typ rusztowania (zaznaczyć właściwe)

Ramowe	<input checked="" type="checkbox"/>
Modułowe	<input type="checkbox"/>
Inne (patrz informacje dodatkowe)	<input type="checkbox"/>

Przeznaczenie rusztowania (zaznaczyć właściwe)

Robocze	<input checked="" type="checkbox"/>
Ochronne	<input type="checkbox"/>
Podporowe	<input type="checkbox"/>

Wpisz wartość lub zaznacz właściwe

Odporność uziomu	<input checked="" type="checkbox"/>
Na odrębnym protokole	<input type="checkbox"/>

W przypadku braku przeglądu w ciągu 7 dni od daty ostatniej inspekcji usunąć przywieszkę i poinformować przełożonego.

Karta może być wypełniona tylko przez upoważniony personel:

Nazwisko i imię: **[Signature]**

Podpis: **[Signature]**



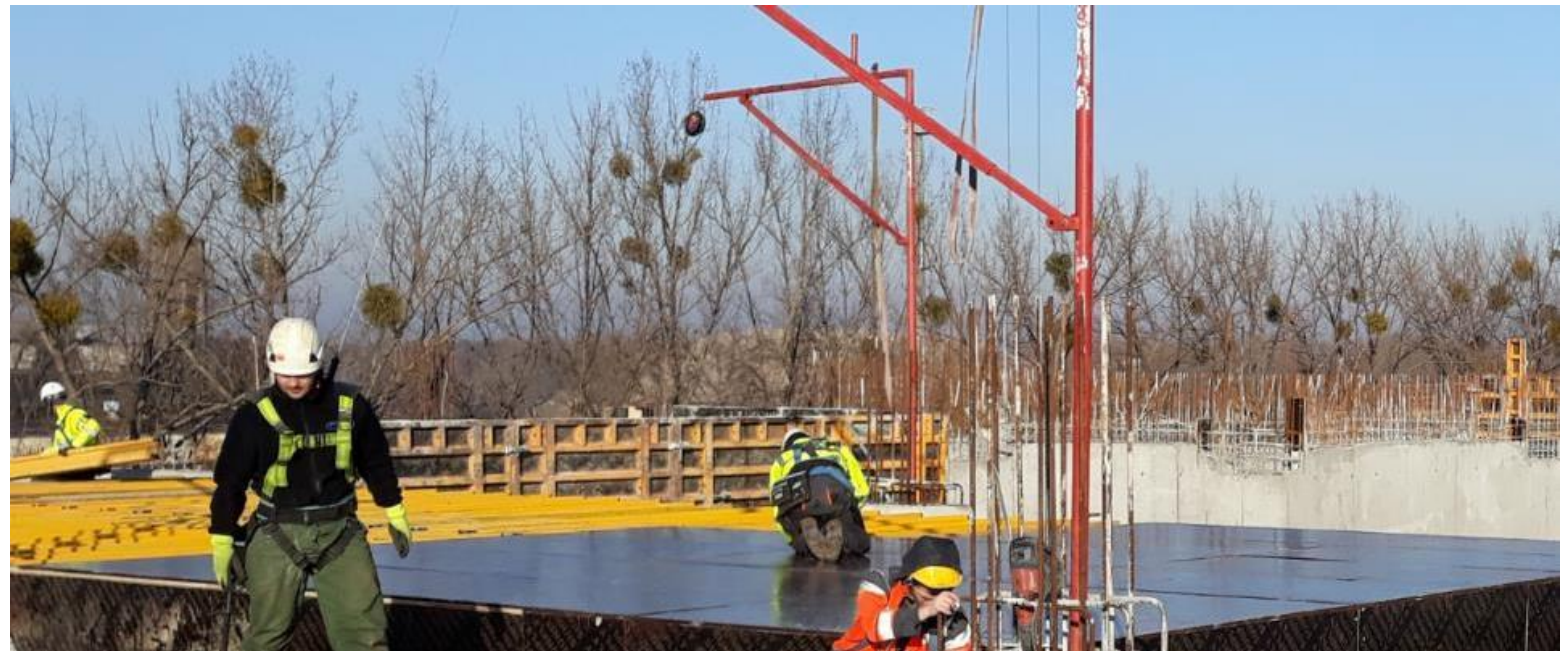
Working at height

Personal fall protection can have many configurations. There are many solutions available on the market. The correct assembly of belay kits is deemed to be carried out in accordance with the guidelines of the given manufacturer.





Working at height





Working at height

At Echo our planning and controls are based on risk assessment. Regarding accidents statistics, working at height is high risk activity and should be treated seriously even on lower levels. That's why one of our requirements is to mandatory use of guardrails around the working platform starting from 0,5m height.





Working at height Safety nets

Properly assembled safety nets are a good protection against falling elements.





Working at height Safety nets





Working at height

When planning works at height proper sequence of works regarding hierarchy of control should be taken into account. Our first choice should always be use of collective protection equipment such as facade scaffolding when working on balconies, roofs etc.





Working at Height - Balconies

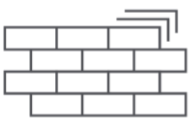
When planning work on balconies, collective protection measures should be provided first – mesh panel barriers with system fixing. There is undoubtedly a much more reliable method of protection against falls from a height than the use of personal protection (lanyards, harnesses) by employees. The Echo design department is currently working to develop a standard for balconies system edge protection.





Edge protection excavations

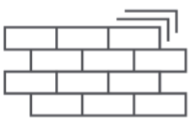




Hazardous areas

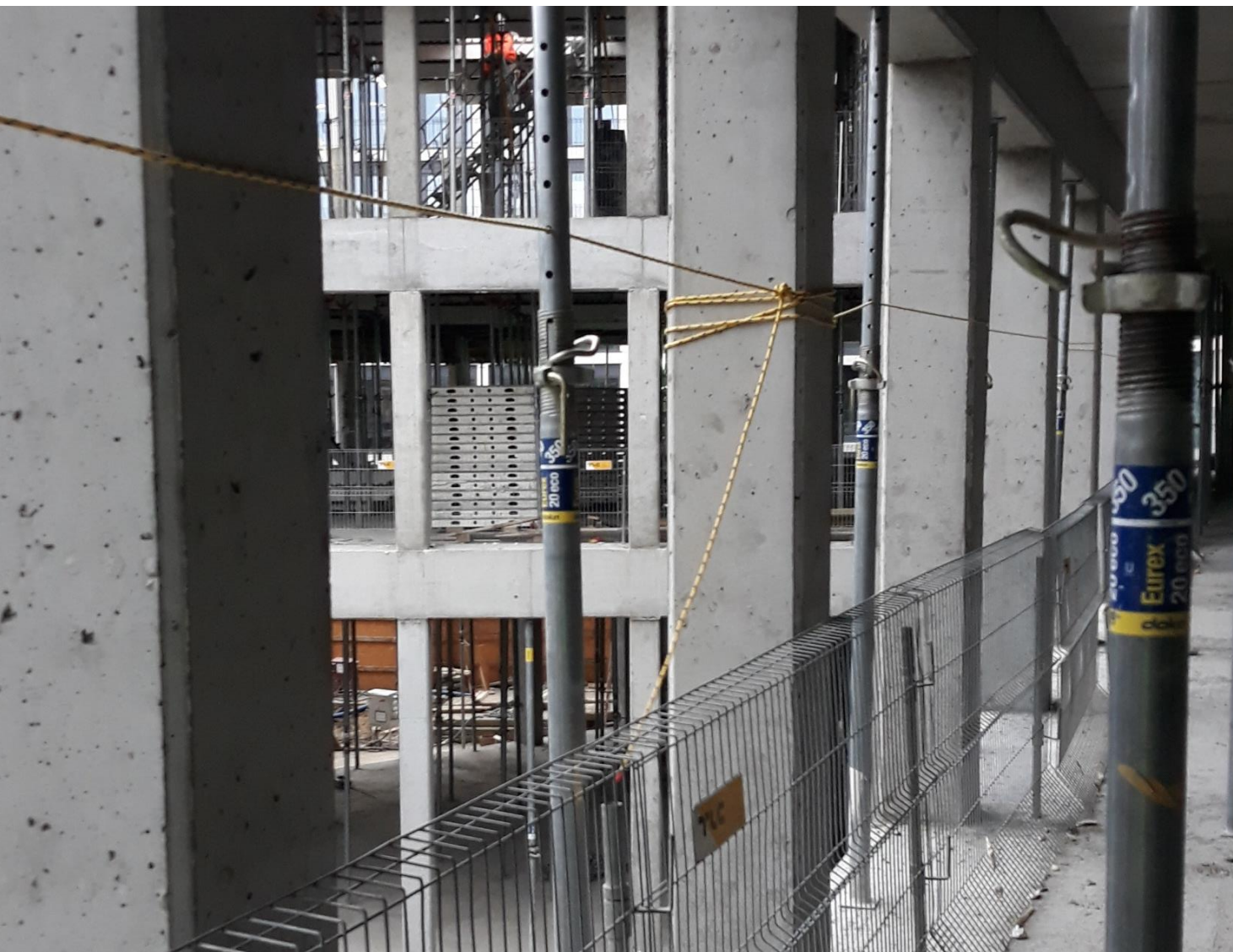
The separation of hazardous zones is one of the basic provision of planning and organizing works at height, where there is a risk of falling objects. When hazardous areas goes beyond site perimeter fence – it is necessary to provide properly fixed protective roofs.

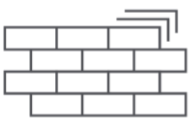




Hazardous areas

The separation of hazardous zones is one of the basic provision of planning and organizing works at height, where there is a risk of falling objects. Works carried out close or at edges of building can be challenging. Below You can find an example of additional protected shuttering props, fastened with rope – to avoid falling down.

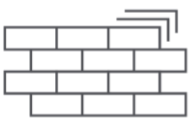




Securing of shafts

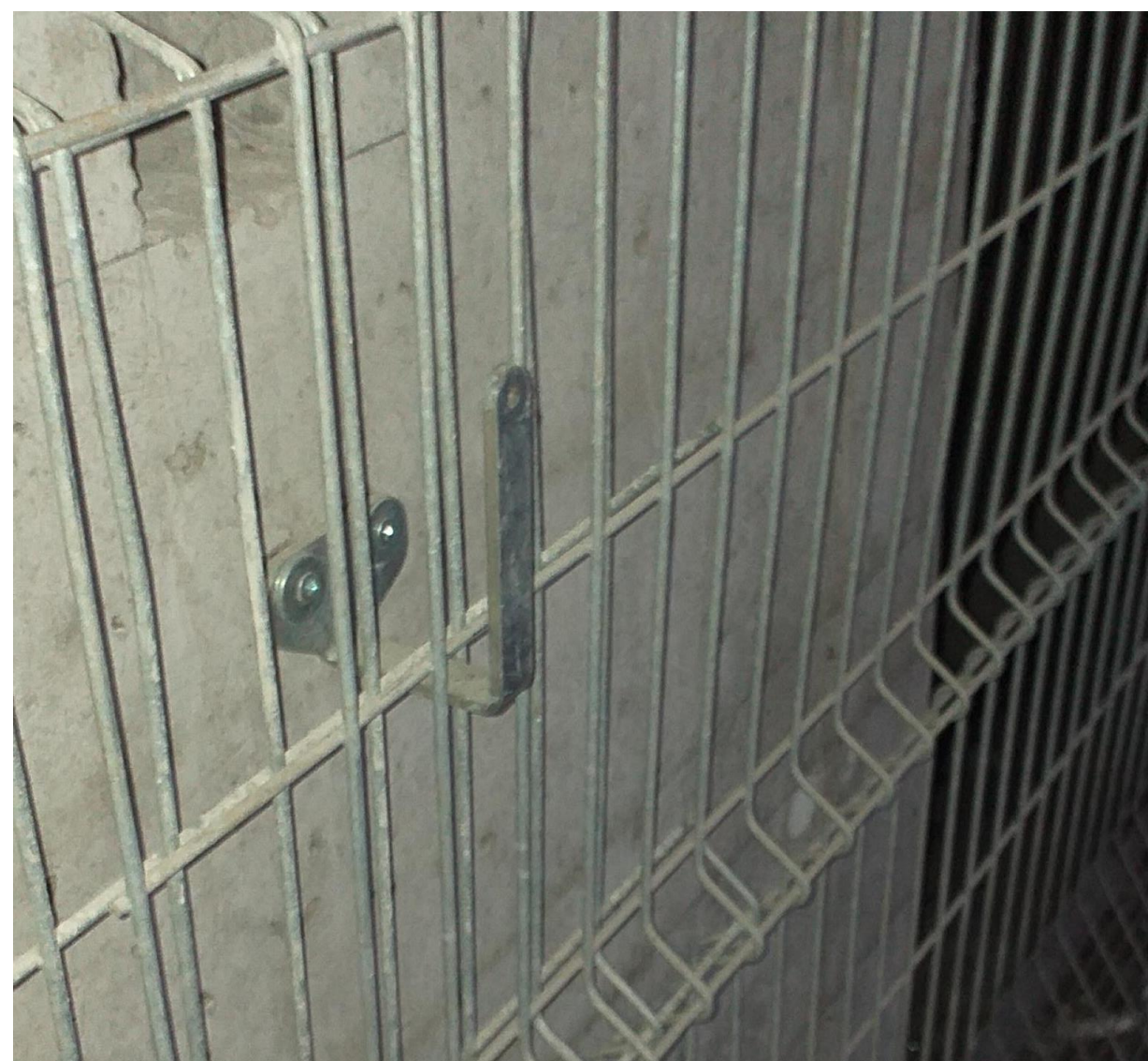
Shaft safeguards eliminate the risks of falling from a height, thus giving you more effective control over hazardous areas. In recent months, new types of protection have appeared on the projects - monolithic walls around the shafts and safe-blocks (filling the holes with certified styro-concrete). These are good examples to incorporate it in the design documentation (Safety by Design).

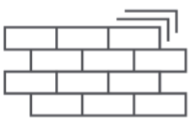




Securing of shafts

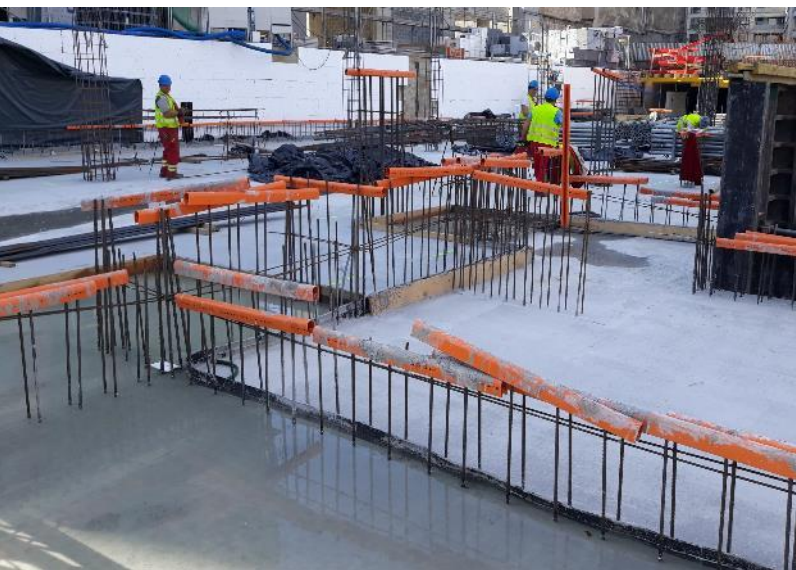
In ECHO it is required that any platforms within shafts will be fixed on system anchors. Shaft protection eliminates a falling from height risks and gives a better control over these hazardous areas





Construction works

Don't forget about rebar protection. As You can see there are many available solutions which allows to control this kind of hazards.





Hot works

Uncotrolled hot works on site can be really dangerous for all personel and erected structure. Make sure if the all hot works stations are properly equipped with fire blanke and at least min. 6kg powder extinguisher. Check if the responsible contractor supervisor is having valid permit for hot works.



ECHO
INVESTMENT

POZWOLENIE NA WYKONYWANIE ROBÓT POŻAROWO NIEBEZPIECZNYCH (v.2)

Wymagania ECHO w zakresie BHP

Nr serii pozwolenia: 181

Wzrost: 170 Waga: 70 Ciężar ciała: 70

Opis robót i sprzętu: Wzrost 170, Waga 70, Ciężar ciała 70

Osoba kompetentna nadzoru robót: Wzrost 170, Waga 70, Ciężar ciała 70

Miejsce: 170

Instrukcja Bezpiecznego Wykonywania Robót (IBWR): 170

Numer zatwierdzonej IBWR: 170

Lista kontrolna - Pozwolenie nie zostanie zatwierdzone, jeżeli lista kontrolna nie zostanie w pełni

	Tak	N/D
Czy dostępny jest odpowiedni i sprawny sprzęt weryfikujący lub zapewniona wystarczająca wentylacja naturalna?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Czy malarstwo i lakiernictwo jest wykonywane w pobliżu ścieżki lub ścieżki dróg, czy sąsiednie strony zostały zabezpieczone?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Czy na poszczególnych poziomach zapewniono odpowiednie zabezpieczenie? (barierki i znaki itp.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Czy dostępna jest odpowiednia gaśnica lub kosa przeciwpożarowa?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Czy wyznaczone jest obszar dyktando przeciwpożarowego?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Czy malarstwo i lakiernictwo nie mogą zostać przeniesione, czy są one odpowiednio chronione przed gorącym dymem i iskrami?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Czy roboty pożarowo niebezpieczne mają być prowadzone w pobliżu wmontowanych przewodów, czy zapewniono odpowiednie odizolowanie?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Czy paliwo łatwopalne jest przechowywane z dala od miejsc robót pożarowo niebezpiecznych?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Czy butle z paliwem są zabezpieczone przed potrąceniem lub przewróceniem?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Czy stosowane są palniki gazowe, czy butla z gazem znajduje się w odległości co najmniej 3 metrów od palnika?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Czy wszystkie osoby wykonujące te roboty zostały wyposażone w odpowiednie i wystarczające środki ochrony indywidualnej?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Uwagi:

DZIAŁ 4. OŚWIADCZENIE O NIEPOWODZENIU WYKONANIA PRACY

Wymagania wykonawcy otrzymuje niniejszym pozwolenie na wykonywanie robót pożarowo niebezpiecznych w wskazanej lokalizacji i zgodnie z zatwierdzoną instrukcją Bezpiecznego Wykonywania Robót i Ochrony Przeciwpożarowej.

Ewentualne dodatkowe środki ostrożności:

Pozwolenie obowiązuje od: Data: 10.08.2018 Godzina: 12:30

Pozwolenie obowiązuje do: Data: 10.08.2018 Godzina: 14:00

To pozwolenie NIE MOŻE obejmować więcej niż jedną zmianę. Roboty należy zakończyć 1 GODZINĘ przed godziną zakończenia projektu.

Nazwisko: Wzrost 170, Waga 70, Ciężar ciała 70

DZIAŁ 4. AKCEPTACJA POZWOLENIA (Wykonawca i osoba ze strony Wykonawcy)

Niniejszym potwierdzam, że osoba znajdująca się pod kontrolą naszej firmy będzie przestrzegać warunków tego pozwolenia.

Nazwisko: Wzrost 170, Waga 70, Ciężar ciała 70

Data: 10.08.2018 Podpis: Wzrost 170, Waga 70, Ciężar ciała 70

DZIAŁ 5. ZAKOŃCZENIE ROBÓT (Wykonawca i osoba ze strony Wykonawcy)

Roboty, w związku z którym wydane to pozwolenie, zostały ukończone (lub wstrzymane) następująco: Wzrost 170, Waga 70, Ciężar ciała 70

Bezpiecznym oraz zostały wycofane co najmniej na godzinę przed zakończeniem robót (lub na czas wymagalny w innych przypadkach).

Data: 10.08.2018 Podpis: Wzrost 170, Waga 70, Ciężar ciała 70

Nazwisko: Wzrost 170, Waga 70, Ciężar ciała 70

DZIAŁ 6. ZAKOŃCZENIE ROBÓT (Osoba wykonująca nadzór nad pracą)

Zaświadczam, że roboty wymienione powyżej zostały zakończone w sposób zadowalający.

Data: 10.08.2018 Podpis: Wzrost 170, Waga 70, Ciężar ciała 70

Nazwisko: Wzrost 170, Waga 70, Ciężar ciała 70

POZWOLENIE ZOSTAJE NINIEJSZYM ANULOWANE - NOWE POZWOLENIE BĘDZIE WYMAGANE, JEŻELI ROBÓT MAŁYBY ZOSTAĆ KONTYNUOWANE.





Heavy weight equipment

Heavy equipment is a wide topic. Crucial thing is to provide proper crane spread pads when working with outriggers, moreover proper hazardous area separation has to be ensured.





Electricity

Our standard is to secure cables. Most common way is to hang them up. Here we have some ways of doing that on our projects. Pay attention to provide sufficient number of Power Distribution Boards (reducing the need to lay extension cables over long distances) with proper technical condition.





Power and electrical tools

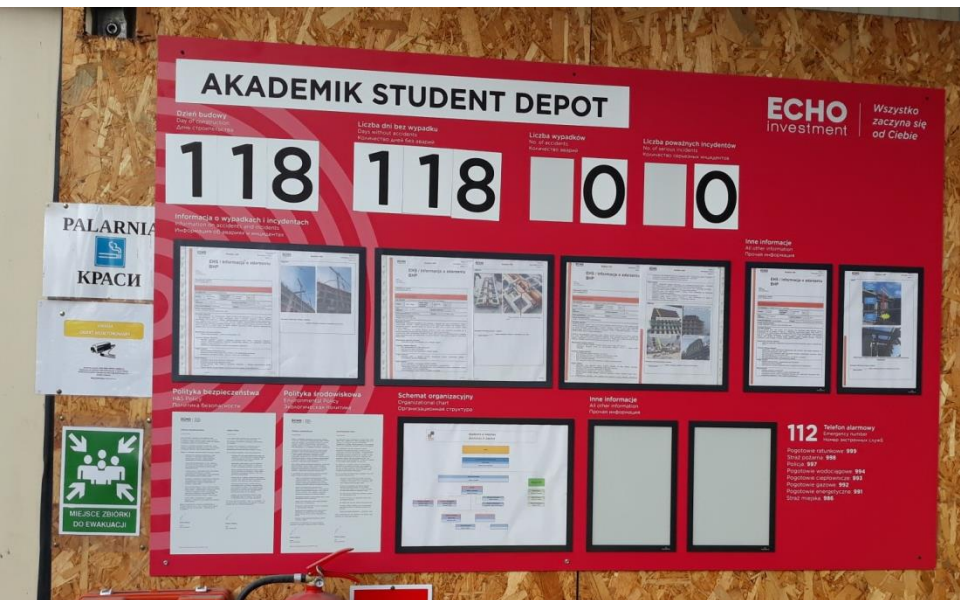
ECHO projects are implementing a colour-coding standard – to increase control over power tools and extension cords. It is a visual confirmation that equipment (incl. extension cords) on our projects was checked by certified electrician.





Communication

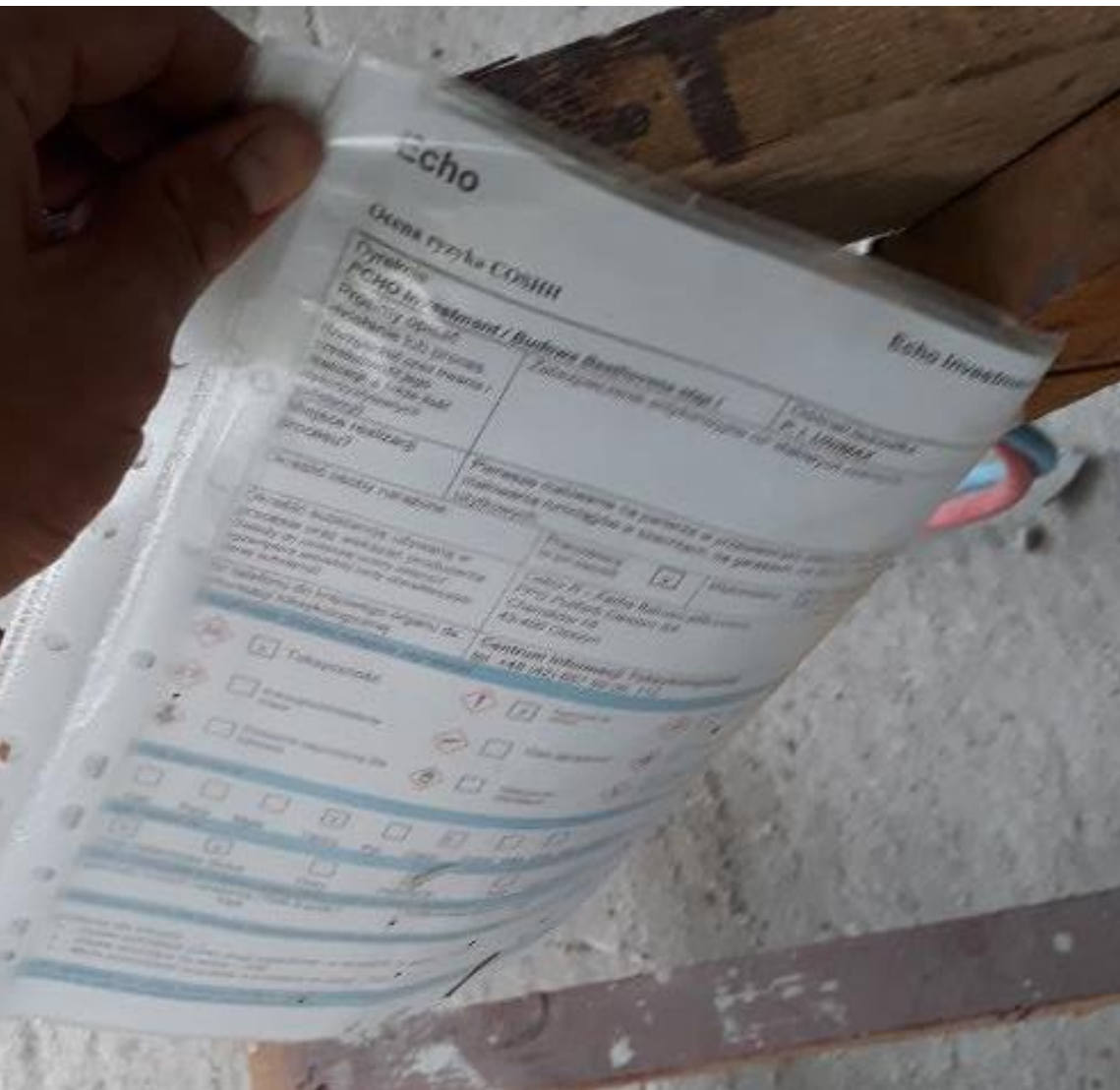
Let's talk about safety. Proper safety management must be properly communicated: directly on the boards, posters or stands. When safety is attractive it's easily implementable and it's more understandable for an employee.





Chemicals

Containment of hazardous materials is required for the protection of the environment from contamination as well as for the protection of employees who work in areas where hazardous materials are stored and used. Remember to complete the COSHH card and familiarize the employees with it whenever a new hazardous substance appears on the construction site. On each project an „environmental 1st aid kit” should be provided.





Natural environment

Smart waste management is crucial and obviously has impact on other areas, e.g. waste compacter container allows you to save some space on your plot. Mobile bins facilitate removal of trash from site. Clean site means better organized site and finally safer site.





Natural environment

We focus on effective waste recycling. Each of the ECHO project should achieve 90% recovery of generated waste. In 2020, we strive to segregate waste on construction sites into fractions: metal, mixed construction waste, social waste, paper, foil, plastic. The use of containers with mixed waste (foil, plastic, paper) is permissible provided if the waste carrier will ensure segregation this fraction. Providing a CCTV cameras for monitoring waste segregation is recommended.





Natural environment

ECHO
Investment

Każda substancja oznaczona poniższym symbolem jest substancją niebezpieczną. Należy ją wyrzucić do oznakowanego kontenera.

Each substance marked with the symbol below is a hazardous substance. It should be discarded into a properly-labelled bin.

Будь-яка речовина, позначена одним із символів нижче, відноситься до небезпечних речовин. Її необхідно утилізувати до контейнера зі спеціальною позначкою.



Przykładowe substancje niebezpieczne:

- Opakowania po piankach PU
- Opakowania po farbach (oznaczone piktogramem)
- Agresywne środki do czyszczenia
- Papa
- Opakowanie po środkach gruntujących i konserwujących

Sample hazardous substances:

- PU foam product packaging
- Paint packaging (marked with a pictogram)
- Aggressive cleaning agents
- Roofing paper
- Primer and preservative product packaging

Приклади небезпечних речовин:

- Балончики з-під монтажної піни (поліуретан)
- Банки з-під фарби (позначені спеціальною піктограмою)
- Агресивні чистячі засоби
- Повість
- Упаковки з-під ґрунтовок та консервуючих засобів





Natural environment

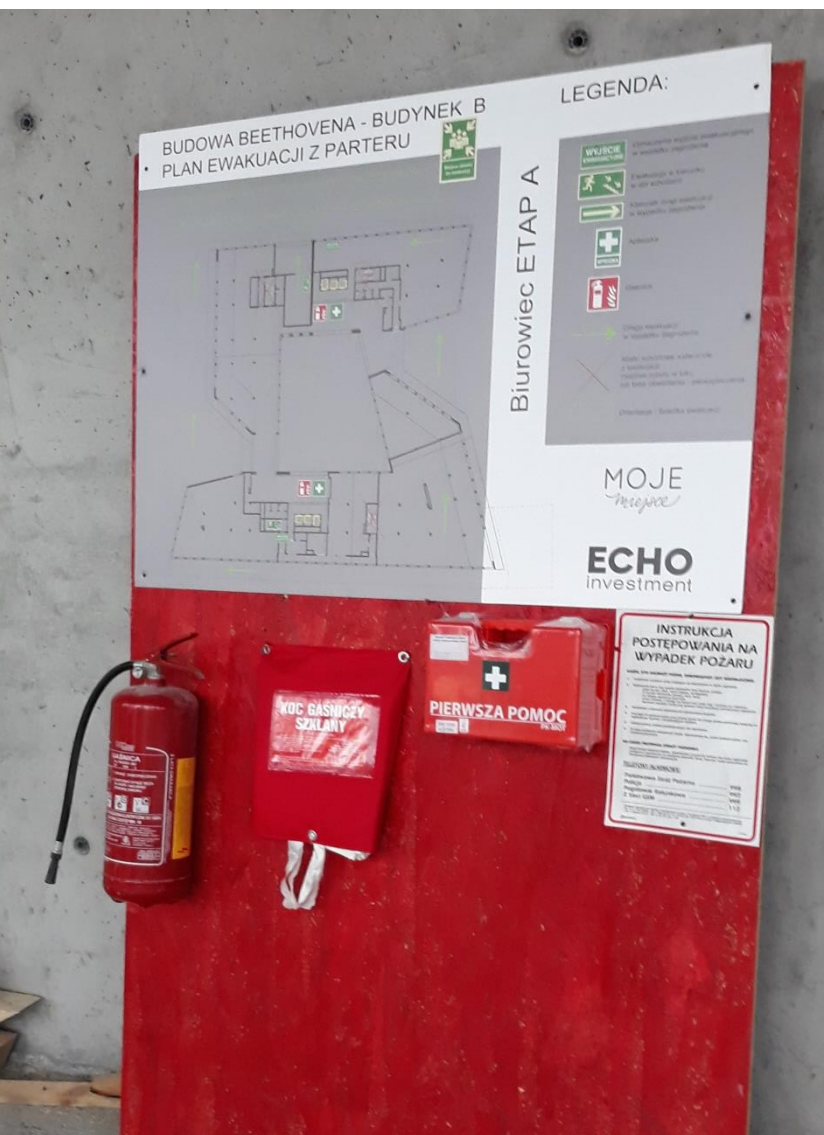
Waste management is important - in particular in the final stage of implementation, when a significant amount of construction waste and packaging is generated at the construction site. To minimize waste dimensions, a waste press container should be provided. It is important that the person operating it will have relevant training.





Crisis situations

Principal rule says always be prepared, both for evacuation and first aid. However, do anything possible to prevent the situation. Be sure that evacuation signs are placed and proper equipment is available on site eg. megaphone to alert all personel on site.





Crisis
situations





Crisis situations

Identification of persons from construction supervision designated for first aid - by placing appropriate pictograms / stickers on protective helmets.





Crisis situations





Crisis situations

In city centers, where there is a high probability of finding an unexploded bomb, make sure constant sapper supervision was ensured.





Personal protection equipment

Personal Protection Equipment is the last resort if you don't have any other possibilities to protect employees such as collective protection equipment. On our site obligatory PPE are hard hat, vest and safety shoes. Depending on the hazards, additional PPE's have to be used, eg dust mask, safety goggles, gloves, ear defenders etc.





Competences

Act only when You have been trained and assessed as competent. Share your knowledge and ensure sufficient task planning throughout carrying pre-task briefings, tool-box talks with your employees. It is also worth to improve your own competences during trainings improving safety management skills.





Safety Awards

In ECHO, we place great emphasis on safety culture. This is one of the elements of our strategy. Therefore, in 2019 we successfully implemented the bonus system for blue collar employees - we reward those people who, during their daily work, are showing care for safety issues. We see and appreciate safe attitudes.



Smart Way to Stay Safe



Conduct a risk assessment before any activity



Ensure no contact with any source of energy or hazardous substances



Never enter restricted zones without permission



Act only when you have been trained and assessed as competent



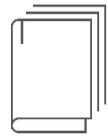
Challenge unsafe behaviours and acts. Never walk by



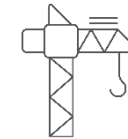
Protect yourself from falling from height



Always wear proper PPE and use proper equipment



Follow safe system of works to any kind of activities



Separate yourself from moving vehicles and plant.



Know what to do in emergency



Ensure that required permit, authorization are in place



Don't take shortcuts.

ECHO
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od Ciebie*

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