

Council Directive 92/104/EEC of 3 December 1992 on the minimum requirements for improving the safety and health protection of workers in surface and underground mineral-extracting industries (twelfth individual Directive within the meaning of Article 16 (1) of Directive 89/391/EEC)

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## ANNEX

### MINIMUM SAFETY AND HEALTH REQUIREMENTS AS REFERRED TO IN ARTICLE 10 OF THE DIRECTIVE

Preliminary note

## PART A

### COMMON MINIMUM REQUIREMENTS APPLICABLE TO SURFACE AND UNDERGROUND MINERAL-EXTRACTING INDUSTRIES...

1. Supervision and organization
  - 1.1. Organization of workplaces
    - 1.1.1. Workplaces must be so organized as to provide adequate protection...
    - 1.1.2. Workstations must be designed and constructed according to ergonomic principles...
    - 1.1.3. Where workstations are occupied by lone workers, adequate supervision or...
  - 1.2. Person in charge
  - 1.3. Supervision
  - 1.4. Competent workers
  - 1.5. Information, instructions and training
  - 1.6. Written instructions
  - 1.7. Safe working methods
  - 1.8. Work permits
  - 1.9. Regular review of safety and health measures
2. Mechanical and electrical equipment and plant
  - 2.1. General
  - 2.2. Specific provisions
3. Maintenance
  - 3.1. General maintenance
  - 3.2. Safety equipment maintenance
4. Protection from explosion risks, harmful atmospheres and fire hazards
  - 4.1. General
    - 4.1.1. Measures must be taken for assessing the presence of harmful...
    - 4.1.2. Smoking is forbidden in areas subject to particular fire or...
  - 4.2. Protection from explosion risks
    - 4.2.1. All necessary measures must be taken to combat the formation...
    - 4.2.2. In areas where there are risks of explosion, all necessary...
    - 4.2.3. An explosion prevention plan detailing the equipment and measures required...
  - 4.3. Protection from harmful atmospheres
    - 4.3.1. Where harmful substances accumulate or may accumulate in the atmosphere,...
    - 4.3.2. Without prejudice to Directive 89/656/EEC, appropriate and sufficient breathing and...
    - 4.3.3. Where toxic gases are, or may be, present in the...
  - 4.4. Protection from fire hazards
    - 4.4.1. Wherever workplaces are designed, constructed, equipped, commissioned, operated or maintained,...
    - 4.4.2. Workplaces must be equipped with appropriate fire-fighting equipment and, as...
    - 4.4.3. Non-automatic fire-fighting equipment must be easily accessible and simple to...
    - 4.4.4. A fire protection plan detailing the precautions to be taken,...
    - 4.4.5. The fire-fighting equipment must be indicated by signs in accordance...

5. Explosives and initiating devices
6. Traffic routes
  - 6.1. It must be possible to reach workplaces without danger and...
  - 6.2. Traffic routes, including stairs, fixed ladders and loading bays and...
  - 6.3. Routes used for pedestrian traffic and/or goods traffic must be...
  - 6.4. Sufficient clearance must be allowed between vehicle traffic routes and...
  - 6.5. Traffic and access routes must be clearly identified for the...
  - 6.6. Where vehicles or machines enter workplaces, traffic regulations must be...
7. Outdoor workplaces
  - 7.1. Workstations, traffic routes and other areas or installations outdoors which...
  - 7.2. Workplaces outdoors must be adequately lit by artificial lighting if...
  - 7.3. When workers are employed at workstations outdoors, such workstations must...
8. Danger areas
  - 8.1. Danger areas must be clearly indicated.
  - 8.2. If the workplaces contain danger areas in which, owing to...
  - 8.3. Appropriate measures must be taken to protect workers authorized to...
9. Emergency routes and exits
  - 9.1. In the event of danger, it must be possible for...
  - 9.2. Emergency routes and exits must remain clear and lead by...
  - 9.3. The number, distribution and dimensions of the emergency routes and...
  - 9.4. Emergency doors must open outwards.
  - 9.5. Emergency doors must not be locked.
  - 9.6. Emergency routes and exits requiring illumination must be provided with...
  - 9.7. Specific emergency routes and exits must be indicated by signs...
10. Means of evacuation and escape
  - 10.1. Workers must be trained in the appropriate actions to be...
  - 10.2. Rescue equipment must be provided at readily accessible and appropriately...
11. Safety drills
12. First-aid facilities
  - 12.1. First-aid equipment must be available in all places where working...
  - 12.2. One or more first aid rooms must be provided where...
  - 12.3. First-aid rooms must be fitted with essential first-aid installations and...
  - 12.4. In addition, first-aid equipment must be available in all places...
  - 12.5. A sufficient number of workers must be trained in the...
13. Natural and artificial lighting
  - 13.1. Every workplace must be provided throughout with lighting capable of...
  - 13.2. Workplaces must as far as possible receive sufficient natural light...
  - 13.3. Lighting installations in rooms containing workplaces and in passageways must...
  - 13.4. Workplaces in which workers are exposed to risks in the...
14. Sanitary installations
  - 14.1. Changing rooms and lockers
    - 14.1.1. Appropriate changing rooms must be provided for workers if they...

- 14.1.2. Changing rooms must be sufficiently large and have facilities to...
  - 14.1.3. Provision must be made for separate changing rooms or separate...
  - 14.1.4. If changing rooms are not required under 14.1.1, each worker...
  - 14.2. Showers and washbasins
    - 14.2.1. Adequate and suitable showers must be provided for workers if...
    - 14.2.2. The shower rooms must be sufficiently large to permit each...
    - 14.2.3. Where showers are not required under the first subparagraph of...
  - 14.3. Laboratories and washbasins
15. Overburden dumps and other tips
16. Ancillary surface installations (additional special provisions)
- 16.1. Stability and solidity
  - 16.2. Floors, walls, ceilings and roofs of rooms
    - 16.2.1. The floors of workplaces must have no dangerous bumps, holes...
    - 16.2.2. The surfaces of floors, walls and ceilings in rooms must...
    - 16.2.3. Transparent or translucent walls, in particular all-glass partitions, in rooms...
    - 16.2.4. Access to roofs made of materials of insufficient strength must...
  - 16.3. Room dimensions and air space in rooms —freedom of movement...
    - 16.3.1. Workrooms must have sufficient surface area, height and air space...
    - 16.3.2. The dimensions of the unoccupied area at the workstation must...
  - 16.4. Windows and skylights
    - 16.4.1. Windows, skylights and ventilation devices which are meant to be...
    - 16.4.2. It must be possible to clean windows and skylights without...
  - 16.5. Doors and gates
    - 16.5.1. The position, number and dimensions of doors and gates, and...
    - 16.5.2. Transparent doors must be appropriately marked at a conspicuous level....
    - 16.5.3. Swing doors and gates must be transparent or have see-through...
    - 16.5.4. If transparent or translucent surfaces in doors and gates are...
    - 16.5.5. Sliding doors must be fitted with a safety device to...
    - 16.5.6. Doors and gates opening upwards must be fitted with a...
    - 16.5.7. Doors along escape routes must be appropriately marked.
    - 16.5.8. Doors for pedestrians must be provided in the immediate vicinity...
    - 16.5.9. Mechanical doors and gates must function without risk of accident...
  - 16.6. Ventilation of enclosed workplaces
    - 16.6.1. Steps shall be taken to ensure that there is sufficient...
    - 16.6.2. If air-conditioning or mechanical ventilation installations are used, they must...
  - 16.7. Room temperature
    - 16.7.1. During working hours, the temperature in rooms containing workstations must...
    - 16.7.2. The temperature in rest areas, rooms for duty staff, sanitary...
    - 16.7.3. Windows, skylights and glass partitions should allow excessive effects of...
  - 16.8. Rest rooms
    - 16.8.1. Where the safety or health of workers, in particular because...
    - 16.8.2. Rest rooms must be large enough and equipped with an...
    - 16.8.3. In rest rooms appropriate measures must be introduced for the...
    - 16.8.4. If working hours are regularly and frequently interrupted and there...
17. Pregnant women and nursing mothers

18. Disabled workers

PART B

SPECIAL MINIMUM REQUIREMENTS APPLICABLE TO SURFACE MINERAL-EXTRACTING INDUSTRIES

1. General

- 1.1. Without prejudice to Article 3 (2), the employer who, in...
- 1.2. The safety and health document must be brought up to...

2. Operation

- 2.1. Work must be planned taking into account the elements of...
- 2.2. Benches and haul roads must be stable enough for the...
- 2.3. Before the start or restart of work, stripping and extraction...
- 2.4. Faces and tips must not be worked in such a...

PART C

SPECIAL MINIMUM REQUIREMENTS APPLICABLE TO UNDERGROUND MINERAL-EXTRACTING INDUSTRIES

1. General

- 1.1. Without prejudice to Article 3 (2), the employer who, in...
- 1.2. The safety and health document must be brought up to...

2. Plans of underground workings

- 2.1. Plans of underground workings drawn to a scale which provides...
- 2.2. Plans of underground workings must be brought up to date...

3. Outlets

4. Workings

5. Transport

- 5.1. Transport facilities must be installed, operated and maintained in such...
- 5.2. Mechanical manwinding or manriding facilitates must be properly installed and...

6. Support and ground stability

7. Ventilation

- 7.1. All underground workings to which access is permitted must be...
- 7.2. Where the requirements of 7.1 cannot be met by natural...
- 7.3. The ventilation parameters must be measures periodically and recorded.

8. Gassy mines

- 8.1. An underground working is regarded as gassy if firedamp is...
- 8.2. The main ventilation must be provided by one or more...
- 8.3. Working must proceed taking account of firedamp emission.
- 8.4. Auxiliary ventilation must be limited to development and salvage work...
- 8.5. The ventilation measurement referred to under 7.3 must be supplemented...
- 8.6. Only explosives and initiating devices specifically for gassy mines may...
- 8.7. The provisions of 4.1.2 of Part A are replaced as...

9. Mines containing flammable dusts
  - 9.1. Coal mines are considered to be susceptible to flammable dusts...
  - 9.2. In mines with flammable dusts the provisions of 8.6 and...
  - 9.3. Steps must be taken to reduce flammable dust deposits, and...
  - 9.4. Propagation of flammable dust and/or firedamp explosions which are liable...
10. Gas outbursts, rockbursts and water inrushes
  - 10.1. In zones susceptible to gas outbursts with or without the...
  - 10.2. Measures must be taken to identify risk zones, protect workers...
11. Fires, combustions and heatings
  - 11.1. Provision must be made for the prevention and, where appropriate,...
  - 11.2. Flammable materials taken into underground workings must be limited to...
  - 11.3. Where it is necessary to use hydraulic fluids (fluids for...
12. Precautions for withdrawal of workers
13. Lighting
14. Underground workforce accounting
15. Rescue organization

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- (1) OJ No C 58, 5.3.1992, p. 3.
- (2) OJ No C 150, 15.6.1992, p. 128, and OJ No C 305, 23.11.1992.
- (3) OJ No C 169, 6.7.1992, p. 28.
- (4) OJ No L 393, 30.12.1989, p. 1.
- (5) OJ No L 183, 29.6.1989, p. 1.
- (6) OJ No L 348, 28.11.1992, p. 9.