



## Contents

|          |                                                               |    |
|----------|---------------------------------------------------------------|----|
| 1.       | General Provisions.....                                       | 4  |
| 1.1.     | Purpose.....                                                  | 4  |
| 1.2.     | Scope.....                                                    | 5  |
| 1.3.     | Definitions.....                                              | 5  |
| 2.       | Defining key objectives and strategies.....                   | 8  |
| 2.1.     | Key objectives.....                                           | 8  |
| 2.2.     | Key Strategies.....                                           | 8  |
| 3.       | Assessment of the Overall Risk of an Archaeological Site..... | 9  |
| 3.1.     | Assessment criteria.....                                      | 9  |
| 3.1.1.   | Topography.....                                               | 9  |
| 3.1.2.   | Estimated climate risk for forest fires.....                  | 9  |
| 3.1.3.   | Infrastructure / Networks.....                                | 9  |
| 3.1.4.   | Visitor numbers at the archaeological site.....               | 10 |
| 3.1.5.   | Escape Routes – Emergency Exits.....                          | 10 |
| 3.1.6.   | Access by firefighting vehicles.....                          | 11 |
| 3.2.     | Scoring system.....                                           | 12 |
| 3.3.     | Determination of the Overall Risk.....                        | 14 |
| 4.       | Fire-protection measures.....                                 | 15 |
| 4.1.     | Measures to Ensure the Safe Escape of the Public.....         | 15 |
| 4.1.1.   | Emergency Lighting.....                                       | 15 |
| 4.1.2.   | Safety Signage.....                                           | 15 |
| 4.1.3.   | Evacuation Plans.....                                         | 16 |
| 4.1.4.   | Fire-Detection and Alarm Systems.....                         | 16 |
| 4.1.4.1. | Public-Address System.....                                    | 16 |
| 4.1.4.2. | Manual fire-alarm call-point system.....                      | 17 |
| 4.1.4.3. | Portable public-address devices (megaphones).....             | 17 |
| 4.1.5.   | Plans – Drills – Training.....                                | 17 |
| 4.1.5.1. | Organised Evacuation Plan.....                                | 17 |
| 4.1.5.2. | Preparedness Drills.....                                      | 17 |
| 4.1.5.3. | Staff Training.....                                           | 18 |

|          |                                                                                                                |    |
|----------|----------------------------------------------------------------------------------------------------------------|----|
| 4.2.     | Preventive Fire-Protection Measures.....                                                                       | 18 |
| 4.2.1.   | Building-Protection Zones.....                                                                                 | 18 |
| 4.2.2.   | Fire-protection of structural elements of the building shell.....                                              | 19 |
| 4.2.3.   | Vegetation Management.....                                                                                     | 20 |
| 4.2.4.   | General Preventive Measures.....                                                                               | 21 |
| 4.3.     | Active Fire Protection.....                                                                                    | 22 |
| 4.3.1.   | Portable Equipmet and Other Means.....                                                                         | 22 |
| 4.3.1.1. | Portable Fire Extinguishers.....                                                                               | 22 |
| 4.3.1.2. | Simple Water-Supply Firefighting Network/Wheeled Fire<br>Extinguishers.....                                    | 22 |
| 4.3.2.   | Fixed Firefighting Systems.....                                                                                | 23 |
| 4.3.2.1. | Fixed Water-Supply Firefighting Network.....                                                                   | 23 |
| 4.3.2.2. | Fixed Firefighting Network with Water Cannons.....                                                             | 24 |
| 4.3.3.   | Maintenance and inspection of fire-protection systems and<br>means                                             | 24 |
| 5.       | Assessment of the Current Level of Fire-Protection.....                                                        | 24 |
| 5.1.     | Grading System of Existing Fire-Protection Measures.....                                                       | 24 |
| 5.1.1.   | Determination of an Effectiveness Indicator.....                                                               | 28 |
| 6.       | Implementation and Supervision Process.....                                                                    | 29 |
| 6.1.     | Preparation of the Overall Risk Assessment Form and the<br>Existing Fire-Protection Level Assessment Form..... | 29 |
| 6.2.     | Drafting of a Technical Report on the Adaptation and<br>Improvement of Fire-Protection Measures.....           | 29 |
| 6.3.     | Preparation of an Implementation and Adaptation Report.....                                                    | 30 |
| 6.4.     | Submission of Forms.....                                                                                       | 31 |
| 6.5.     | Inspections in the Context of Supervision.....                                                                 | 31 |
| 6.5.1.   | Procedure for Imposing a Fine – Lodging an Objection.....                                                      | 32 |
| 6.5.2.   | Notification and Collection of Fines.....                                                                      | 33 |
| 7.       | Transitional Provisions.....                                                                                   | 34 |
| 8.       | Final Provisions.....                                                                                          | 34 |
| Annexes  | .....                                                                                                          | 35 |
| Annex A  | .....                                                                                                          | 36 |
|          | “Estimated Climate-Risk Map for Forest Fires” – Assessment methodology.....                                    | 36 |

|                                                        |    |
|--------------------------------------------------------|----|
| Annex B .....                                          | 40 |
| “Overall Risk Assessment Form” .....                   | 40 |
| Annex C .....                                          | 43 |
| “Existing Fire-Protection Level Assessment Form” ..... | 43 |

# 1. General Provisions

## 1.1. Purpose

The purpose of this Regulation is to establish a comprehensive regulatory framework for the implementation and monitoring of fire-protection measures and means for open-air archaeological sites, with a view to enhancing the level of fire safety, reducing vulnerability and limiting the spread of potential fires.

To achieve this objective, this Regulation lays down the minimum requirements for the implementation of measures and means to ensure the timely alerting of the public in the event of a fire, the availability of escape routes and emergency exits, the installation of the necessary signage, the preparation of Organised Evacuation Plans, staff training, vegetation management and the creation of protection zones, structural fire protection of building envelopes, the implementation of active fire protection measures, and the inspection and maintenance of fire protection equipment and systems.

Furthermore, the implementation of the Regulation facilitates coordination and strengthens cooperation between the competent services and bodies, thereby ensuring a uniform, coordinated and effective response to any threat, as well as their required preparedness and immediate operational response in the event of an incident.

This Regulation, as a specific fire-protection regulation for open-air archaeological sites, sets out detailed provisions supplementing the general rules and provisions on fire protection for open-air areas, such as the Fire Safety Regulation for Properties within or near Forests (B' 3475), the Fire Safety Regulations for Buildings (Presidential Decree 41/2018, A' 80 and Presidential Decree 71/1988, A' 32), the Fire Service Provision 3/2015 (B' 529) and the **Fire Service Provision 20/2024 (B' 2695)**, and takes precedence over the requirements set out therein.

However, as a specific regulation addressing fire safety requirements, it applies in parallel with the requirements of other specific regulations governing the safety and functionality of structures or their installations.

This Regulation does not cover cases of arson, sabotage, vandalism, fires resulting from terrorist acts, or other similar acts.

## **1.2. Scope**

1. The scope of this Regulation applies to open-air archaeological sites accessible to the public that include ancient monuments, as defined in Article 2, paragraph (ba) of Law 4858/2021, which:
  - are delineated by natural or artificial fencing, or the surviving remains themselves or individual sections thereof (such as fortresses, enclosures, fortifications, etc.) and serve to demarcate the area protected by the Ministry of Culture and the area under its jurisdiction
  - have controlled access, with or without the payment of an admission fee, and possibly basic or developed visitor infrastructure, such as walking trails, viewpoints, information signs, lighting, surveillance systems, or other facilities that support visitor access and public safety.
2. The provisions of this Regulation do not apply to the following categories of archaeological sites/ monuments:
  - Caves and palaeontological sites, as defined in Article 2(ba) of Law 4858/2021.
  - Submerged archaeological sites and shipwrecks, in accordance with Articles 15, 15A and 15B of Law 4858/2021.
  - Historic sites, traditional settlements or other areas of cultural interest, regulated by more specific provisions.
3. Moreover, this Regulation does not cover fire-safety matters relating to:
  - a) buildings and facilities located within archaeological sites (such as conference centres, museums, lecture halls, meeting rooms, amphitheatres, multi-purpose halls, libraries, temples and places of worship, exhibition halls, catering areas, leisure areas and retail areas, shops, offices, canteens, toilet facilities, other ancillary spaces), to which the applicable special fire protection legislation applies based on building use, in accordance with Article 2 of Chapter A of Presidential Decree 41/2018 (A' 180) and any other relevant regulatory provision;
  - b) modern monuments, as defined in Article 2(bb) and buildings designated as listed buildings.
4. The provisions of this Regulation apply exclusively to fire-protection matters without prejudice to the powers of the Ministry of Culture to protect, enhance and manage archaeological sites in accordance with Law 4858/2021.

### 1.3. Definitions

- **Fire season** means the period from 1 May to 31 October (Article 1 of Joint Ministerial Decision 12030Φ.109.1/1999, Government Gazette 713 B').
- **Forest fire** means a phenomenon classified as a natural disaster under the General Civil Protection Plan, with the code name "XENOKRATIS".
- **Fire-Protection Measures Report means** the declaration submitted annually by the department of the Ministry of Culture responsible for the archaeological site (Ephorate of Antiquities), indicating all the necessary steps taken or initiated by the department to comply with the requirements of the Regulation in conjunction with those set out in the Technical Report.
- **Active fire protection** means the set of fire protection measures designed to detect and warn of a fire at an early stage and to respond to and extinguish it immediately. Suppression measures include portable and mobile fire extinguishers, a simple water supply network with fire cabinets, a permanent water supply network with fire nests and/or water cannons.
- **The Overall Risk Assessment Form** is the document drawn up by the person in charge of the archaeological site, which, based on the assessment criteria set out in this Regulation, determines the overall risk category of the archaeological site.
- **Protection Zone** (defence area) is the natural or designated area around the building or construction designed to reduce the risk of fire being spread and allow its suppression.
- **Combustible material** means any material or substance that can ignite and burn during a fire. This category includes, inter alia natural vegetation, construction works (such as buildings and sheds), facilities (such as fuel or water tanks) as well as stored products or materials (such as piles of wood, furniture and other combustible objects). The continuity and density of combustible material constitute critical factors for the intensity, speed of spread and behaviour of the fire.
- **Climate risk:** means the risk of adverse consequences associated with climate change, arising from the combination of the severity of climate events, exposure and the vulnerability of the affected systems.
- **Climate exposure:** means all the people, infrastructure, activities, natural and cultural features, and resources located in areas where climate-related hazards occur and which could be adversely affected by them.
- **Climate hazard:** means the likelihood and intensity of current and future climate events, which can cause loss of human life, loss of and

damage to property, infrastructure, services, ecosystems, environmental resources and elements of cultural heritage.

- **Climate vulnerability:** It refers to the extent to which exposed systems are adversely affected in the event of occurrence of a climate hazard.
- **Escape route** means the continuous, unobstructed route for evacuation in the event of a fire, leading from the accessible areas of the archaeological site to the site's final exits.
- **Prevention** means the set of actions, measures and steps taken prior to the occurrence of a fire, with the aim of preventing it from breaking out and/or limiting its adverse and destructive consequences.
- **Total risk:** means the category into which the archaeological site is classified following an assessment and evaluation of all the predefined criteria set out in this Regulation, and includes climate risk.
- **Final exit** means the end of an escape route leading from the accessible areas of the archaeological site to an area outside the site's perimeter.
- **Technical report** means the report-study, specifying the required fire protection measures and means for the implementation of this Regulation.

## **2. Defining key objectives and strategies**

### **2.1. Key objectives**

The purpose of this Regulation is to establish a strategic fire-protection plan, to be applied uniformly and comprehensively at archaeological sites, with the exception of those expressly excluded in Chapter 1.2, and to enhance their level of fire safety. The level of fire safety is determined in relation to the achievement of specific key and fundamental objectives, which primarily concern the protection and safeguarding of human life, monuments and their building structures, as well as the natural environment in which they are situated.

### **2.2. Key Strategies**

The criterion for selecting the strategies to achieve the key objectives is the extent to which each strategy can make a substantial contribution to the desired outcome and to the achievement of the specific objectives. These strategies focus, on the one hand, on ensuring the safe escape and evacuation of visitors and staff from the archaeological site and, on the other hand, on the adoption and implementation of appropriate fire-protection measures.

In order to achieve the objective of protecting human life in archaeological sites, an important factor and strategic priority is to ensure all appropriate measures and conditions for the safe evacuation of visitors and the timely clearance of the archaeological site. These include the provision of adequate and suitable escape routes and emergency exits, the provision of adequate emergency lighting, clearly visible and appropriate safety signage and evacuation plans, the installation and operation of reliable fire-detection and alarm systems, the existence of effective Organised Evacuation Plans in accordance with the General Secretariat for Civil Protection's standard plan for the precautionary evacuation of visitors and staff due to imminent danger from an impending forest fire, and the conduct of regular drills and training for the staff of the Ministry of Culture.

Accordingly, the strategies that make a decisive contribution to achieving the objectives relating to the protection of archaeological sites, building infrastructure and their surroundings are the implementation of preventive fire-protection measures and actions and the adoption of appropriate active fire-protection measures and means.

### **3. Assessment of the Overall Risk of an Archaeological Site**

A prerequisite for developing appropriate strategies aimed at strengthening fire protection and safeguarding archaeological sites is carrying out an Overall Risk Assessment. This process takes into account the characteristics of the archaeological site, the infrastructure and networks and utilities, visitor traffic, and the climate-related risk of fire in the near future (2026–2045). The assessment is carried out through qualitative analysis and the scoring of predefined criteria, which are considered key parameters for the final determination and calculation of the overall risk level of each archaeological site.

#### **3.1. Assessment criteria**

##### **3.1.1. Topography**

The location of the archaeological site in relation to specific topographical features is taken into account in assessing this criterion.

The topography of the archaeological site is a key factor for its vulnerability in the event of a fire. The specific topographical features of each area, such as valleys, ridges, gorges and elevations, may create or exacerbate conditions of increased risk. In particular, valleys, due to their hollow form, favour the concentration and acceleration of winds, which may increase the intensity and speed of spread of the fire. In the gorges, this phenomenon is more pronounced, whilst on the ridges, due to the higher elevation, the winds are stronger and more turbulent, thereby intensifying the fire's momentum as it advances towards them. In general, orographic features, such as narrow valleys or natural mountain openings contribute to the increase in wind intensity and, consequently, to an increased fire risk.

##### **3.1.2. Estimated climate risk for forest fires**

The climate risk class for forest fires, as determined by the relevant estimated climate risk map—which was produced using the accompanying methodology—is taken into account in evaluating this criterion (Annex A).

##### **3.1.3. Infrastructure / Networks**

The assessment of this criterion takes into account the existence, location and operational condition of energy infrastructure, water-abstraction

facilities and early fire-warning systems within, around or in the wider vicinity of the archaeological site.

The presence of overhead high- or medium-voltage lines and/or transformers is considered an aggravating risk factor, due to the potential for a fire caused by an electrical fault, overheating or damage to the network, or due to the intensification of an already developing fire in the event of contact with the high or medium-voltage electrical network, thereby hindering firefighting operations and the safe approach of firefighting crews.

Another equally important factor is the presence of fire hydrants in the vicinity of the archaeological site, with sufficient flow and pressure to quickly fill fire-service vehicles. The absence or inadequate functioning of the above infrastructure constitutes an aggravating factor, as it hinders the immediate and effective suppression of fires.

Early fire-detection and warning systems, through the use and application of advanced technologies, such as smoke and temperature sensors and optical and thermal imaging cameras, are considered a factor in reducing the risk to the archaeological site and aim to detect fires at an early stage, to provide immediate and automated alerts via operational centres for the rapid mobilisation of fire services, the coordination of all relevant agencies and services, and the activation of all established plans and protocols for the immediate suppression of the fire.

#### **3.1.4. Visitor numbers at the archaeological site**

The maximum daily number of visitors to the archaeological site is used as a factor in assessing this criterion. At archaeological sites hosting cultural events, the maximum number of visitors per day is calculated also taking into account the maximum attendance of the event.

Visitor traffic at the archaeological site is a factor that should be taken into account when assessing the level of risk, particularly with regard to ensuring the safe evacuation and timely organized clearance of visitors. The large number of visitors, combined with their ability to respond, affects the evacuation time and can increase the difficulties in implementing it. Consequently, a high level of organisation and coordination is required to ensure the timely evacuation and safe movement of visitors in the event of a fire.

### **3.1.5. Escape Routes - Emergency Exits**

This criterion is assessed on the basis of the maximum length of the escape routes and the number of final exits from the archaeological site.

The main objective of designing and establishing escape routes at an archaeological site open to the public is to ensure that it can be safely evacuated in the event of an emergency, particularly when the site is assessed as being threatened by a developing or imminent fire. At every point along the visitor route, it must be ensured that visitors can proceed immediately to the final exits via appropriately designed escape routes, which must be of sufficient number and dimensions to accommodate the expected number of visitors. Escape routes must remain safe and effective for as long as necessary and must be readily identifiable to all visitors. Any obstacles in these areas must be removed immediately so that the routes remain fully accessible up to the final exit. Where possible, it is recommended that the final exits be spaced apart and arranged in such a way as to minimise the likelihood of them becoming blocked simultaneously during an evacuation. Doors on escape routes and at final exits must open in the direction of escape and provide a full opening width.

### **3.1.6. Access by firefighting vehicles**

The criterion is assessed on the basis of the ability to ensure safe, timely and unimpeded access and approach for firefighting vehicles and other emergency vehicles, both to the archaeological site and within and around it, with the aim of ensuring immediate and effective intervention in the event of a fire.

In particular, the feasibility of firefighting vehicles accessing the archaeological site via the existing road network is assessed, taking into account the number, width and trafficability of the roads, as well as any access restrictions.

In addition, the feasibility of firefighting vehicles moving around and operating on the perimeter of the archaeological site and, where possible, within it, is assessed, taking into account the restrictions imposed by the legal framework for its protection. In particular, the following are taken into account: the existence and adequacy of perimeter or internal access routes, their clear width and load-bearing capacity, the ability to manoeuvre, stop and deploy firefighting equipment, and the connection of these routes to critical points within the archaeological site.

Archaeological sites located in hard-to-reach or remote areas with an inadequate or limited road network and limited or no access for firefighting vehicles, are characterised by an increased level of risk, as the above situation hinders firefighting operations.

### 3.2. Scoring system

To assess and classify archaeological sites by their overall fire risk, the **Analytic Hierarchy Process (AHP)** is applied. This method is a multicriteria analysis tool used to evaluate complex and multi-factorial issues. Its purpose is to identify, weigh and compare multiple criteria that affect the making of the final decision or the achievement of a specific objective, taking into account the different weight or importance attributed to each criterion.

When assessing the overall fire risk at archaeological sites, the process begins by identifying the key criteria that influence the sites' exposure and vulnerability, as outlined in paragraph 3.1.

The criteria are then compared on a pairwise basis. This process produces the weighting factors for each criterion. A weighting factor is a numerical value that expresses the relative importance of each criterion in the assessment. This value is not limited to the mere presence or absence of risk, but reflects the extent to which each criterion contributes to determining the overall risk of an archaeological site in the event of a fire. In this way, the analysis enables a systematic and reasoned approach, as the various criteria do not contribute equally to determining the overall risk level of the archaeological site. The numerical values of the weighting factors are presented in Table (1):

| OVERALL RISK OF AN ARCHAEOLOGICAL SITE |                                                                                                                |                 |                  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------|------------------|
| Criterion                              | Assessment element/Description                                                                                 | Criterion score | Weighting Factor |
| <b>3.1.1. Topography</b>               | An archaeological site located outside a valley or gorge, or not in the vicinity of ridges or other elevations | 1               | 0.10             |
|                                        | An archaeological site located within a valley, gorge, or near a ridge and other elevations                    | 5               |                  |
| <b>3.1.2.</b>                          | Very low                                                                                                       | 1               | 0.32             |

|                                                          |                                                                                           |   |      |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------|---|------|
| <b>Estimated climate risk for forest fires</b>           | Low                                                                                       | 2 |      |
|                                                          | Medium                                                                                    | 3 |      |
|                                                          | High                                                                                      | 4 |      |
|                                                          | Very High                                                                                 | 5 |      |
| <b>3.1.3. Infrastructure / Networks</b>                  | Without overhead high- or medium-voltage lines                                            | 1 | 0.03 |
|                                                          | With overhead high- or medium-voltage lines                                               | 3 |      |
|                                                          | With overhead high- or medium-voltage lines and transformers                              | 5 |      |
|                                                          | Fire hydrants within 500 metres                                                           | 1 | 0.06 |
|                                                          | Fire hydrants within 2,500 metres                                                         | 3 |      |
|                                                          | Without fire hydrants                                                                     | 5 |      |
|                                                          | With Early Fire-Detection System                                                          | 1 | 0.05 |
|                                                          | Without Early Fire-Detection System                                                       | 5 |      |
|                                                          |                                                                                           |   |      |
| <b>3.1.4. Visitor numbers at the archaeological site</b> | < 100 visitors per day                                                                    | 1 | 0.19 |
|                                                          | 100–1,000 visitors per day                                                                | 3 |      |
|                                                          | > 1,000 visitors per day                                                                  | 5 |      |
| <b>3.1.5. Escape Routes - Emergency Exits</b>            | Maximum escape-route length less than 50 m                                                | 1 | 0.04 |
|                                                          | Maximum escape-route length from 51 m to 100 m                                            | 3 |      |
|                                                          | Maximum escape-route length greater than 100 m                                            | 5 |      |
|                                                          | Number of final exits: > two (2)                                                          | 1 | 0.04 |
|                                                          | Number of final exits: two (2)                                                            | 3 |      |
|                                                          | Number of final exits: one (1)                                                            | 5 |      |
| <b>3.1.6. Access by firefighting</b>                     | Full/Increased access for firefighting vehicles within and around the archaeological site | 1 | 0.09 |

|                 |                                                                                                                                                                                           |   |      |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| <b>vehicles</b> | Partial access for firefighting vehicles within and around the archaeological site                                                                                                        | 3 |      |
|                 | No/Limited access for firefighting vehicles within and around the archaeological site                                                                                                     | 5 |      |
|                 | Firefighting vehicles can access the site from the existing road network to the boundaries of the archaeological site via two (2) access roads of sufficient width and trafficability     | 1 | 0.08 |
|                 | Firefighting vehicles can access the site from the existing road network to the boundaries of the archaeological site via a single (1) access road of sufficient width and trafficability | 3 |      |
|                 | Inadequate or narrow road network and limited or no access for firefighting vehicles                                                                                                      | 5 |      |

Table (1): Table of scores and weighting factors for overall risk

### 3.3. Determination of the Overall Risk

In order to determine the overall risk of an archaeological site, the following procedure is applied:

- For each of the criteria listed in paragraph 3.1, a scoring system from 1 to 5 is applied, where the minimum score (1) represents the most favourable condition for the criterion and the maximum score (5) represents the most unfavourable condition (Table 1).
- The score awarded for each criterion is multiplied by the corresponding weighting factor, and the resulting products are added together to derive the overall assessment score. The resulting final score determines the overall risk level of the archaeological site by assigning it to one of the three ranges of Table (2):

| <b>RANGE OF FINAL ASSESSMENT SCORES</b> | <b>OVERALL RISK LEVEL</b> |
|-----------------------------------------|---------------------------|
| 1.00-2.30                               | <b>Low</b>                |
| 2.31-3.40                               | <b>Medium</b>             |
| 3.41-5.00                               | <b>High</b>               |

Table (2): Determination of the Overall Risk Level for Archaeological Sites

## **4. Fire-protection measures**

In order to guarantee the objectives of this Regulation, a framework of minimum mandatory and proposed measures is established to increase the level of fire-protection of the archaeological site. Fire-protection measures are classified into three main categories, which form all three key strategies of this Regulation, as detailed in paragraph 2.2:

- Measures to ensure the safe evacuation of the public;
- Preventive fire-protection measures;
- Active fire-protection measures.

### **4.1. Measures to Ensure the Safe Escape of the Public**

The measures to ensure safe and timely evacuation from a public archaeological site in the event of a fire concern the appropriate configuration, layout and organisation of the site, with sufficient escape routes and final exits to ensure the unhindered exit of visitors, the existence of appropriate safety signage and emergency lighting and evacuation plans to facilitate the orientation of visitors during their exit. In addition, measures must be taken to ensure the availability of appropriate fire-detection and alarm systems to promptly alert visitors, as well as for the existence of an up-to-date Organized Evacuation Plan, with which the archaeological site's staff must be familiar through regular drills and training.

#### **4.1.1. Emergency Lighting**

The installation of emergency lighting is intended to ensure adequate visibility and safe orientation for visitors, enabling them to evacuate safely and promptly in the event of an emergency, particularly in the case of archaeological sites operate during evening hours for cultural events.

Emergency lighting is designed and installed in accordance with the requirements of the ELOT EN 1838 standard "Lighting applications - Emergency lighting for buildings" and the ELOT EN 60598-2-22 standard "Luminaires - Part 2-22: Specific requirements - Luminaires for emergency lighting", in its current version, along the escape routes up to the final exit.

#### **4.1.2. Safety Signage**

The installation of appropriate and clearly visible safety signage along escape routes, at final exits and on firefighting equipment, as well as

prohibition and warning signs, helps to ensure the correct orientation and safe guidance and evacuation of visitors during an emergency, as well as the immediate location and effective use of fire-fighting equipment by staff, facilitating early intervention and limiting potential damage or injury. The signage must be easily understandable, clear, adequate and visible.

The safety signs of escape routes, final exits and firefighting material/equipment and the prohibition and warning signs are designed and installed in accordance with the requirements of ELOT EN ISO 7010: “Graphical symbols – Safety colours and safety signs – Registered safety signs”, in its current version.

#### **4.1.3. Evacuation Plans**

Evacuation plans help to ensure that visitors and staff are safely informed and guided in the event of an emergency. They must be clearly visible and easy to read, and must be positioned at appropriate locations along circulation and visitor routes, as well as near any buildings, where present, so as to provide clear guidance and directions to both staff and visitors.

Evacuation plans, together with the corresponding signs and symbols, are designed and installed in accordance with the requirements of the ELOT ISO 23601 standard: “Safety identification – Escape and evacuation plan signs”, in its current version.

#### **4.1.4. Fire-Detection and Alarm Systems**

Fire-detection and alarm systems are designed to provide timely information and guidance to visitors and staff in the event of a fire or other emergency. These include the public-address system for broadcasting emergency messages, the manual fire-alarm call point system and portable public-address devices (megaphones).

##### **4.1.4.1. Public-Address System**

Public-address systems for broadcasting emergency audio messages, in the event of a fire or other emergency, inform visitors of the danger and the steps they must take to leave the site immediately. The system’s loudspeakers are positioned in such a way that their coverage fully includes the accessible areas of the archaeological site. The system is activated and operated via a central control panel, which is housed in a specially designed room and serves as the control and monitoring centre for all emergency systems, with staff on duty at all times during the

archaeological site's opening hours. The alert messages broadcast may consist of live voice messages or prerecorded messages, repeated in Greek and at least one foreign language.

The design and installation of public address systems are governed by the ELOT EN 54-24 standard, "Components of voice alarm systems - Loudspeakers".

#### **4.1.4.2. Manual fire-alarm call-point system**

The manual fire notification system ensures immediate fire notification by audiovisual means. It shall be installed at a height of between 0.80 metres and 1.40 metres, in appropriate locations along the escape routes and near the exits / final exits.

The study, design and installation of manual fire-alarm call-point systems are governed by the ELOT EN 54-11 standard "Fire detection and fire alarm systems - Part 11: Manual call points" and ELOT EN 54-14 "Fire detection and fire alarm systems - Part 14: Guidelines for planning, design, installation, commissioning, use and maintenance", in their current version.

#### **4.1.4.3. Portable public-address devices (megaphones)**

Portable public-address devices (megaphones) are used to guide and inform the public as a means of notification at archaeological sites where there is no public address system, or as a supplement to such a system.

### **4.1.5. Plans - Drills - Training**

#### **4.1.5.1. Organised Evacuation Plan**

The Organised Evacuation Plan for the public from archaeological sites due to an imminent fire risk is now mandatory at archaeological sites which are open to the public and are located within forests, forest areas or in their vicinity (within a 50-metre radius) and which have an average daily number of visitors of more than 100 people.

The preparation or update of the Organised Evacuation Plan will follow the template drawn up in cooperation between the Secretariat-General for Civil Protection and the Ministry of Culture. This template, with the appropriate adjustments, also applies to archaeological sites that are not located within or adjacent to forests and forest land, in order to ensure a standardised and safe evacuation process in all circumstances.

The Organised Evacuation Plan is notified to the Fire Service and the relevant Civil Protection Departments of the local authorities to ensure its coordinated and effective implementation in the event of an emergency.

#### **4.1.5.2. Preparedness Drills**

The planning and conduct of emergency drills are **mandatory** in venues with a maximum daily number of visitors exceeding 1,000 people, to ensure the proper implementation of the Organised Preventive Evacuation Plan, as well as for the timely and effective management of emergencies arising from fires. The drills are held every two years in collaboration with the relevant authorities, such as Municipalities, Regions, the Hellenic Police, the National Ambulance Service (EKAV) and the Fire Service, and focus primarily on the assigning of roles and responsibilities. The aim of the drills is to strengthen the interoperability and cooperation of all competent bodies involved, to ensure a coordinated and effective response to fire-related hazards and to minimise their impact on archaeological sites. At the same time, these drills help to train staff and familiarise them with evacuation procedures and the use of fire safety-protection, thereby enhancing preparedness and ensuring the safety of visitors and personnel.

#### **4.1.5.3. Staff Training**

Annual staff training contributes to the safe and effective implementation of the Organised Evacuation Plan for visitors and personnel in the event of a fire emergency, as well as the correct use of firefighting equipment in accordance with the provisions of the 14th Fire Regulation, in its current version.

The training shall include practical exercises and fire scenario simulations to enable staff to react effectively, guide visitors safely and ensure timely evacuation of the site. At the same time, it makes it possible to assess the operational readiness and effectiveness of the Organised Preventive Evacuation Plan, allowing it to be constantly adapted and improved, identifying and addressing potential dysfunctions before the real need, ensuring a high level of life safety.

### **4.2. Preventive Fire-Protection Measures**

Preventive fire-protection measures include all actions and steps that must be taken in advance to eliminate any hazardous factors or conditions that could cause or fuel a fire, as well as effectively limiting and slowing its spread. Such measures involve the establishment of building-

protection zones and the fire-protection of structural elements of the building envelope, the clearing and management of vegetation and combustible material within the archaeological site, as well as other general preventive measures for all open areas within the boundaries of the fenced archaeological site.

#### **4.2.1. Building-Protection Zones**

The establishment of perimeter protection zones around buildings located within the archaeological site and serving its operations (museums, ticket offices, storage areas, workshops, construction site huts, functional covered spaces, etc.) is **mandatory** when the site is located within or near (within a 50-metre radius of) forests and forest areas.

A perimeter protection zone is established with the aim of isolating the structures from vegetation, thereby helping to prevent the spread of fire and ensuring the fire-protection of the archaeological site. In addition, it creates a safe area that facilitates the intervention and operations of the firefighting forces.

This zone must have a minimum width of ten (10) metres. It should be subdivided into three graduated protection levels, progressively reducing the amount of combustible material as one approaches the building, with corresponding variation and management of vegetation. In particular:

- The first protection zone (Zone 1), which is directly adjacent to the building, must be at least two (2.00) metres wide and free from any planting or accumulation of combustible materials, in order to protect the building's external envelope and structure. In this zone, risks must be minimised as far as possible and the surface must be surfaced with non-combustible hard materials; however, if this is not feasible, the zone may remain unpaved.
- The second zone (Zone 2) must be three (3.00) metres wide and adjacent to Zone 1. Its surface must consist of non-combustible materials. Only low-growing vegetation, such as ground cover plants and low shrubs, is permitted in this zone; these should preferably be fire-resistant. Trees or tall shrubs are prohibited.
- The third protection zone (Zone 3) is the last zone in the sequence; it follows Zone 2 and is the furthest from the building. It is five (5.00) metres wide. Trees and tall shrubs must be at least 3.00 metres apart. Trees must be pruned from ground level up to a height of three (3.00) metres, depending on their age and condition, and must not be located near power lines. Shrubs, whether standing alone or in small groups, must not be located beneath trees.

For the remaining area of the archaeological site which is not covered by the above-mentioned protection zones around buildings, the actions and measures for the management of vegetation and combustible material detailed in paragraph 4.2.3 should be implemented.

#### **4.2.2. Fire-protection of structural elements of the building shell**

The implementation of fire-protection measures for the structural elements of the building envelope of facilities located within the archaeological site and serving its operation is **mandatory** in cases where these specific areas are located within or near (within 50 metres of) forests and woodland.

1. The measures applied are the following:

- Sealing of external building gaps with appropriate non-combustible materials. Installation of metal mesh in ventilation openings and chimney apertures of appropriate cross-section and density. Alternatively, specialised fire-barrier systems may be used.
- Replacement of roof gutters where they are not made of non-combustible materials, category A1 or A2L-s1,d0.
- Replacement of awnings with permanent shading structures made of non-combustible materials, provided that no fabrics treated with suitable materials that slow down the surface spread of flame are used.

2. Where buildings are located in high-risk archaeological sites and within or near forest land:

- Installation of metal-fibre mesh on the building's window and door frames.
- Sealing of gaps between the roof covering and the eaves covering exposed wooden elements with fire-resistant materials (fire-stopping boards, intumescent varnishes, fire-resistant plasterboard, etc.).

#### **4.2.3. Vegetation Management**

Measures to manage vegetation and combustible vegetation are **mandatory** across all open areas within the boundaries of the archaeological site, with priority given to areas accessible to visitors, and include:

- Thorough cleaning around monuments within the archaeological site in order to create a non-combustible buffer zone around them.

- Removal of combustible plant matter lying on the ground, such as leaf litter, dry grass and fallen branches and dry twigs, etc.
- Pruning the base of the tree canopy and raising the canopy base above ground level in accordance with the trees' age and species, in order to reduce the likelihood of a fire developing on the ground spreading to the tree canopy and subsequently spreading through the canopy with hazardous behaviour.
- Thinning of any tree species that are not fire-resistant.
- Pruning of branches that come into contact with the external structural elements of the building, including the roof, provided the archaeological site is not near or within forest areas.
- Felling and removal of dead and broken branches, as well as trees where necessary, with priority given to those that are dead, diseased, or stunted, over-mature, and dangerously inclined to prevent them from falling, particularly those adjacent to ancient monuments and ruins, evacuation routes, and buildings.
- Reducing the density of shrubby vegetation as ground cover.
- Regular removal of debris from roof and gutters, such as pine needles, dry leaves and grass, etc., from the building infrastructure within the archaeological site.
- Clearing vegetation around the perimeter of electrical substations, outdoor lighting fixtures, etc.
- Collection and removal of vegetation-management residues.

It is important that plant material management works are carried out on a systematic basis throughout the year and that they are adequately maintained when required so that during the fire season (from 1 May to 31 October) optimal vegetation-management conditions have been achieved.

The works in question must be carried out without contravening the provisions of forestry and archaeological legislation and, where necessary, shall be carried out under the guidance of and in cooperation with the competent local forestry authorities.

#### **4.2.4. General Preventive Measures**

The following general preventive measures are **mandatory** in all outdoor areas within the archaeological site:

- Prohibition of open-air storage of combustible or flammable materials and objects in the vicinity of buildings and within a distance of up to

five (5) metres, particularly for archaeological sites within or near forests and forested areas. In particular, prohibition of storing items under balconies, raised terraces or near external openings and window frames of buildings.

- If combustible, flammable or explosive materials are stored within the archaeological site, they must be properly arranged within an enclosed space.
- Removal of any abandoned combustible or explosive materials or objects within the archaeological site.
- Where liquid fuel tanks are installed at the archaeological site, they may be installed only within a fire-resistant enclosure with a minimum fire resistance rating of (R)EI-30 in accordance with ELOT EN 13501-2, around which a protection zone one and a half (1.50) metres wide with non-combustible ground surfacing.
- Prohibition of installing above-ground LPG tanks and cylinders outdoors.
- Diligent maintenance and regular inspection and testing of the facilities and the equipment according to the relevant regulations and the manufacturer's specifications.
- Installation of a containment basin of adequate capacity in liquid fuel tanks to collect any fuel leaks.
- Inspection following cessation of activity at the archaeological site, including during working hours, to identify and eliminate any fire risk factors.
- Permanent posting of clearly visible non-smoking signage.
- Prohibition of placing objects or structural elements on escape routes and at emergency exits that could reduce their clear width or obstruct free movement of people in the event of an emergency.

### **4.3. Active Fire Protection**

Active fire-protection measures and equipment include all portable devices and permanently installed systems at an archaeological site that are used or activated in the event of a fire to immediately contain and extinguish it, until the arrival of the fire service at the scene.

### **4.3.1. Portable Equipment and Other Means**

#### **4.3.1.1. Portable Fire Extinguishers**

The installation of portable fire extinguishers is **mandatory** at all archaeological sites.

They are installed at selected locations that allow immediate access in the event of a fire. They must be of dry-powder or water-based, with a fire extinguishing capacity of at least 21A-113B-C, and in areas with electromechanical installations, carbon-dioxide type, with a fire extinguishing capacity of at least 55B-C. They must be protected from weather conditions (rain, sun, moisture) to ensure their operational reliability.

In all cases, they must be located near circulation routes, escape routes and final exits, in such a way that no point along the circulation or escape routes shall be more than 50 metres from the nearest fire extinguisher. In addition, they must comply with the requirements of ELOT EN 3-7 and of the Joint Ministerial Decision 618/43/05/20.01.2005 (B' 52), as subsequently amended and currently in force.

#### **4.3.1.2. Simple Water-Supply Firefighting Network/Wheeled Fire Extinguishers**

For archaeological sites that do not have a fixed water-supply fire-fighting network, a simple water-supply firefighting network is **mandatory**, supplied by the mains water supply and housed in fire-hose cabinets, which must be positioned in suitably selected, clearly visible and easily accessible locations.

The simple water-supply fire-fighting system shall be of metal construction, red in colour with appropriate marking, and shall have a flexible hose of  $\Phi 15 - \Phi 19$  mm diameter, with a 20-metre hose and nozzle assembly.

If there is no water supply network, wheeled fire extinguishers shall be installed every 100 metres along the visitor and escape routes.

The wheeled fire extinguishers must comply with the requirements of ELOT EN 1866: "Mobile fire extinguishers", as in force and Joint Ministerial Decision 618/43/05/20-01-2005 ( $\Phi$ EK B' 52), as amended, supplemented and currently in force.

## **4.3.2. Fixed Firefighting Systems**

### **4.3.2.1. Fixed Water-Supply Firefighting Network**

The fixed water-supply firefighting network with hose reeled cabinets is an active fire-protection system, designed for the immediate and effective response to fires. The network consists of an underground or surface-mounted piping system, which is supplied by a reliable water source (tank or water supply network) and terminates at hose-reel cabinets suitably distributed throughout the premises.

Each hose-reel cabinet contains a fire hose, a nozzle and a shut-off valve, ensuring an adequate water supply and pressure in accordance with current legislation. The layout and design of the network components are planned in such a way as to minimise construction impact. The system enables staff or the Fire Service to intervene immediately in the event of a fire.

The design, planning and installation of the fixed water-supply fire-fighting network are covered by the Technical Guideline T.O.T.E.E.. 2451/1986: "Installations in buildings: Fixed water-based fire-fighting systems" and/or supplementary requirements for the components of such systems, in accordance with the ELOT EN 671 standard: "Fixed firefighting systems - Hose-reel systems", in its current version.

At archaeological sites, the fixed water-supply firefighting network with hose-reel cabinets should cover, for example, visitor routes, footpaths, plazas, rest and viewing points, areas of the site with natural vegetation and, in particular, those adjacent to monuments and ancient remains, buildings and facilities serving the public and supporting the site's operation, etc., taking into account the site's terrain morphology, the characteristics of the archaeological site, and any restrictions imposed by the institutional framework for its protection.

### **4.3.2.2. Fixed Firefighting Network with Water Cannons**

The water cannon firefighting system operates in support of the hose-reel cabinets to protect the archaeological site from high-intensity, rapidly spreading fires and covers critical areas of the site, such as, for example, extensive areas of vegetation, the perimeter zones of the archaeological site to prevent the entry or spread of fire from neighbouring areas, areas inaccessible for immediate intervention with portable firefighting equipment, high-risk points due to terrain features (slopes, ravines, steep gradients), etc.

#### **4.3.3. Maintenance and inspection of fire-protection systems and means**

Preventive maintenance and inspection of fire- protection measures at the archaeological site are **mandatory** at all archaeological sites and include the inspection of all installed systems and equipment. Specifically, inspection, maintenance, and repair procedures must be followed for each portable fire-protection device or permanently installed fire-protection system (e.g. portable or mobile fire extinguishers, manual fire-alarm call-point system, public-address system, fixed water-supply firefighting network and hose-reel cabinets or water cannons), as applicable and in accordance with current legislation, European standards and international standards.

### **5.Assessment of the Current Level of Fire-Protection**

The assessment process includes documenting the current condition of fire-protection measures, identifying any deficiencies or weaknesses and evaluating their effectiveness against the requirements of this Regulation.

The assessment results are used to determine the effectiveness index and to take corrective measures to enhance the fire-safety level of the archaeological site.

#### **5.1. Grading System of Existing Fire-Protection Measures**

To determine the existing fire-protection level of each archaeological site, the Analytic Hierarchy Process (AHP) is applied. In accordance with this method, the evaluation parameters for the fire-protection measures in Chapter 4, which are used to assess safe public evacuation, preventive fire-protection measures and active fire-protection measures, are analysed and compared in terms of the extent of their relative impact and importance on the existing protection level of the archaeological site against the risk of fire. The result of this process is the determination of weighted factors for each individual fire-protection measure; depending on their numerical value, these factors will prioritise the fire-protection measures, with priority given to those that are most effective and contribute most to enhancing the fire-safety level at the archaeological site. A weighting factor is a numerical value that expresses the relative importance or weight of each existing measure in the final assessment of the fire-protection level; it does not merely indicate whether that measure is in place, but how important or effective it is in determining the

protection level and the fire-resilience degree of an archaeological site in the event of a fire.

| EXISTING FIRE-PROTECTION LEVEL                            |                                                   |                                                                        |                                             |         |                  |
|-----------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------|---------|------------------|
|                                                           | MEASURE                                           | CONTROL ELEMENT                                                        | DESIGNATION                                 | Grading | Weighting factor |
| 4.1. Measures to Ensure the Safe Evacuation of the Public | <b>4.1.1. Emergency lighting</b>                  | Emergency lighting of escape routes and exits/final exits              | Fully provided                              | 5       | 0.02             |
|                                                           |                                                   |                                                                        | Partially provided                          | 3       |                  |
|                                                           |                                                   |                                                                        | Not provided                                | 0       |                  |
|                                                           | <b>4.1.2. Safety signs</b>                        | Marking of escape routes, exits/final exits and firefighting equipment | Fully provided                              | 5       | 0.01             |
|                                                           |                                                   |                                                                        | Partially provided                          | 3       |                  |
|                                                           |                                                   |                                                                        | Not provided                                | 0       |                  |
|                                                           | <b>4.1.3. Evacuation plans</b>                    | Evacuation plans with corresponding signs and symbols                  | Fully provided                              | 5       | 0.01             |
|                                                           |                                                   |                                                                        | Partially provided                          | 3       |                  |
|                                                           |                                                   |                                                                        | Not provided                                | 0       |                  |
|                                                           | <b>4.1.4. Fire-alarm and notification systems</b> | Public-address system                                                  | Fully provided                              | 5       | 0.02             |
|                                                           |                                                   |                                                                        | Partially provided by the use of megaphones | 3       |                  |
|                                                           |                                                   |                                                                        | Not provided                                | 0       |                  |

|                                                 |                                                                            |                                                                                              |                    |   |      |
|-------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------|---|------|
|                                                 |                                                                            | Manual fire-alarm call-point system                                                          | Fully provided     | 5 | 0.02 |
|                                                 |                                                                            |                                                                                              | Partially provided | 3 |      |
|                                                 |                                                                            |                                                                                              | Not provided       | 0 |      |
|                                                 | <b>4.1.5. Plans - Drills - Training</b>                                    | Organised Evacuation Plan for the public from archaeological sites due to imminent fire risk | Fully provided     | 5 | 0.04 |
|                                                 |                                                                            |                                                                                              | Partially provided | 3 |      |
|                                                 |                                                                            |                                                                                              | Not provided       | 0 |      |
|                                                 |                                                                            | Preparedness drills                                                                          | Fully provided     | 5 | 0.06 |
|                                                 |                                                                            |                                                                                              | Partially provided | 3 |      |
|                                                 |                                                                            |                                                                                              | Not provided       | 0 |      |
|                                                 |                                                                            | Staff training                                                                               | Fully provided     | 5 | 0.08 |
|                                                 |                                                                            |                                                                                              | Partially provided | 3 |      |
|                                                 |                                                                            |                                                                                              | Not provided       | 0 |      |
| <b>4.2. Preventive Fire-Protection Measures</b> | <b>4.2.1. Building-Protection Zones</b>                                    | Configuration of perimeter building-protection zones                                         | Fully provided     | 5 | 0.16 |
|                                                 |                                                                            |                                                                                              | Partially provided | 3 |      |
|                                                 |                                                                            |                                                                                              | Not provided       | 0 |      |
|                                                 | <b>4.2.2. Fire-protection of structural elements of the building shell</b> | Implementation of fire-protection measures for the structural elements of the building shell | Fully provided     | 5 | 0.07 |
|                                                 |                                                                            |                                                                                              | Partially provided | 3 |      |
|                                                 |                                                                            |                                                                                              | Not provided       | 0 |      |
|                                                 | <b>4.2.3. Vegetation</b>                                                   | Implementation of vegetation-                                                                | Fully provided     | 5 | 0.27 |

|                             |                                             |                                                                              |                                                                                                                 |   |      |
|-----------------------------|---------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---|------|
| 4.3. Active Fire-Protection | <b>Management</b>                           | management measures within the archaeological site                           | Partially provided                                                                                              | 3 |      |
|                             |                                             |                                                                              | Not provided                                                                                                    | 0 |      |
|                             | <b>4.2.4. General Preventive Measures</b>   | Implementation of general preventive measures within the archaeological site | Fully provided                                                                                                  | 5 | 0.08 |
|                             |                                             |                                                                              | Partially provided                                                                                              | 3 |      |
|                             |                                             |                                                                              | Not provided                                                                                                    | 0 |      |
|                             | <b>4.3.1. Portable Equipment</b>            | Installation of portable fire-extinguishers                                  | Fully provided                                                                                                  | 5 | 0.01 |
|                             |                                             |                                                                              | Partially provided                                                                                              | 3 |      |
|                             |                                             |                                                                              | Not provided                                                                                                    | 0 |      |
|                             | <b>4.3.2. Fixed Firefighting Systems</b>    | Fixed Water-Supply Firefighting Network with Hose-Reel Cabinet.              | Fully provided                                                                                                  | 5 | 0.07 |
|                             |                                             |                                                                              | Partially provided                                                                                              | 3 |      |
|                             |                                             |                                                                              | Partially provided by the existence of a simple water-supply firefighting network or wheeled fire-extinguishers | 2 |      |
|                             |                                             |                                                                              | Not provided                                                                                                    | 0 |      |
|                             |                                             | Fixed Water-Supply Firefighting Network with Water Cannons                   | Fully provided                                                                                                  | 5 | 0.04 |
|                             |                                             |                                                                              | Partially provided                                                                                              | 3 |      |
|                             |                                             |                                                                              | Not provided                                                                                                    | 0 |      |
|                             | <b>4.3.3. Maintenance and inspection of</b> | Maintenance, inspection and control of installed fire-protection             | Fully provided                                                                                                  | 5 | 0.05 |
|                             |                                             |                                                                              | Partially provided                                                                                              | 3 |      |

|  |                        |                       |              |   |  |
|--|------------------------|-----------------------|--------------|---|--|
|  | <b>Fire-Protection</b> | systems and equipment | Not provided | 0 |  |
|--|------------------------|-----------------------|--------------|---|--|

Table (3): Grading table of existing fire-protection measures

### 5.1.1. Determination of an Effectiveness Indicator

To determine the effectiveness indicator of an archaeological site, the following procedure is followed:

Each individual fire-protection measure in Chapter 4 is examined and assessed, and each control element is assigned the following designation:

- “fully provided” means that all relevant conditions set out in Chapter 4 for that specific control element are met, or that there is no obligation to apply the preventive measures set out in Chapter A, sections 4.2.1 and 4.2.2.
- “partially provided” means that the conditions set out in Chapter 4 for that specific control element are not fully met
- “not provided” means that none of the conditions set out in Chapter 4 for that specific control element are met, or that the control element is absent.

The selected rating for each control element is multiplied by the corresponding weighting factor and the resulting products are added together to obtain the overall effectiveness indicator determining the existing fire-protection level of the archaeological site.

The final outcome of the assessment is determined by comparing the existing effectiveness indicator of the archaeological site with the minimum effectiveness indicator (minEI) for each Overall Risk Level, as shown in Table (4).

| Overall Risk Level | Minimum Effectiveness Indicator (minEI) |
|--------------------|-----------------------------------------|
| Low                | <b>60%</b>                              |
| Medium             | <b>70%</b>                              |
| High               | <b>80%</b>                              |

Table (4): Determination of the Effectiveness Indicator per Overall Risk Level

If the result of the assessment is lower than the Minimum Effectiveness Indicator (minEI) for each Overall Risk Level, the additional fire-protection

measures required to achieve the Minimum Effectiveness Indicator are determined as part of the drafting of the Technical Report on the Adaptation and Improvement of Fire-Protection Measures, in accordance with Chapter 6.2.

## **6. Implementation and Supervision Process**

For the purposes of implementing this Regulation, supervisory procedures are established which include the collection, analysis and evaluation of data, information and records, the planning and conduct of on-site inspections, the provision of updates, information and guidance, and the monitoring of the compliance with the provisions of the Regulation.

### **6.1. Preparation of the Overall Risk Assessment Form and the Existing Fire-Protection Level Assessment Form**

Upon the entry into force of the Regulation, the person in charge of the archaeological site assesses the site's overall risk criteria in accordance with Chapter 3 and completes the Site Overall Risk Assessment Form (Annex B).

A reassessment of the overall risk by completing the form again is required only when the criteria under consideration have changed, such as in the following cases:

- a) following a fire incident within or in the immediate vicinity of the archaeological site
- b) changes to the layout, use, accessibility or functional organisation of the archaeological site that may affect visitor evacuation (pathways, entrances, exits) and visitor flow.

After assessing the overall risk, the person in charge of the archaeological site also carries out an assessment of the existing fire-protection level as set out in Chapter 4 by completing the Existing Fire-Protection Level Assessment Form (Annex C).

### **6.2. Drafting of a Technical Report on the Adaptation and Improvement of Fire-Protection Measures**

1. A Technical Report on the Adaptation and Improvement of Fire Protection Measures is drawn up under the responsibility of the relevant Ephorate of Antiquities, in accordance with the assessment of the existing fire-protection level, and includes at least the following:

- General information about the archaeological site: spatial and topographical data, site area, and a description of buildings and facilities within the supervised area.
  - Reference to the evidence supporting the selection of classification criteria in relation to the site's overall risk and the fire-protection measures in place.
  - A floor plan depicting the essential elements of the archaeological site required to implement the Regulation, such as: ancient monuments and remains, buildings, routes, final exits, protection zones, etc., noting the locations and other elements of existing fire-protection systems.
  - Other supporting documentation, such as maintenance and operational certificates for fire-protection systems and equipment, photographic evidence of vegetation-management work, etc.
  - A description of the existing fire-protection measures and an indication of the additional measures, actions and works needed to adapt them to meet the requirements of the Regulation.
  - A time frame for completing the implementation of any required fire-protection measures and equipment in accordance with the deadlines set out in the “Transitional Provisions” chapter.
2. In the event that objective practical difficulties arise in implementing the general provisions regarding measures and means of safe evacuation, preventive and active fire-protection measures due to the specific characteristics and constraints of the archaeological site, the option is provided to use alternative methods, systems, structures and adaptations, provided that an equivalent level of fire safety is ensured for the intended purpose. Alternative applications and adaptations are described and justified in detail in the technical report, supported by appropriate documentation and relevant supporting material.
  3. If the installation of fixed firefighting systems (a fixed water-supply network with hose-reel cabinets and/or a fixed water-supply firefighting network with water cannons), a public-address system and a manual fire-alarm call-point system is proposed, an implementation study and tender documents must be drawn up in accordance with the applicable regulatory framework, following the preparation of the corresponding final study, which will have been reviewed by the Central Archaeological Council.

### **6.3. Preparation of an Implementation and Adaptation Report**

Under the supervision of the competent Ephorate of Antiquities, an Implementation and Adaptation Report on Fire-Protection Measures is drawn up, which sets out all necessary actions taken or initiated by the Service to comply with the requirements of the Regulation in conjunction with those referred to in the Technical Report, where applicable.

### **6.4. Submission of Forms**

Under the supervision of the competent Ephorate of Antiquities, the following are submitted to the relevant central Directorates of the Ministry of Culture, with a copy to the relevant Prefectural Fire Service Administration (DIPYN): (a) by 31 December 2026, the Overall Risk Assessment Form, the Existing Fire-Protection Level Assessment Form and the Technical Report, where required, and (b) by 30 April of each year, the Fire-Protection Measures Implementation and Adaptation Form.

The relevant central directorates of the Ministry of Culture, having collected and assessed the data submitted, shall take the necessary coordination measures to ensure effective implementation of the Regulation, address any problems identified, and compile the relevant statistical data. In addition, it sends the relevant Prefectural Fire Service Administrations a list of archaeological sites classified by overall risk category, so that the supervision procedure may be implemented in accordance with Chapter 6.5.

The archaeological site supervision file, which includes the Overall Risk Assessment Form, the Technical Report on the Adaptation and Improvement of Fire Protection Measures, the Fire-Protection Measures Implementation Report, the Fire-Protection Measures Assessment Form and any accompanying documents and supporting material, must be kept in the archives of the competent Ephorate of Antiquities as part of the archaeological site's fire-safety file.

### **6.5. Inspections in the Context of Supervision**

Inspection as part of the supervision of compliance with the Regulation is carried out through an on-site inspection by staff of the Preventive Fire-Protection Office of the competent Prefectural Fire Service Administration (or joint inspection, at the discretion of the Ministry of Culture, by

representatives of the competent central directorate(s) of the Ministry of Culture and the relevant Prefectural Fire Service Administration).

The frequency of inspections is determined according to the Overall Risk Level, as shown in Table (5)

| Overall Risk Level | Frequency of inspections               |
|--------------------|----------------------------------------|
| <b>Low</b>         | No planned inspections are carried out |
| <b>Medium</b>      | Every three (3) years                  |
| <b>High</b>        | Every one (1) year                     |

Table (5): Frequency of Inspections per Overall Risk Level of archaeological sites.

Specifically for the first year of implementation (2027), inspections will be carried out at all archaeological sites, regardless of their Overall Risk Level.

The inspectors verify whether the information contained in the Overall Risk Assessment and the Assessment of the Existing Fire-Protection Level at the archaeological site reflects the actual situation, and check the implementation of the prescribed fire-protection measures, in accordance with the Technical Report on the Adaptation and Improvement of Fire Protection Measures and the Implementation and Adaptation Report.

In cases of deviation from or non-compliance with all the measures and means of fire-protection provided for in this Regulation and the Technical Report, written recommendations are issued, detailing the deficiencies found and the corrective action plan, and a deadline is set for compliance. The above deadline may not exceed one year, taking into account the seriousness of the deficiencies and the estimated time for their correction, with the exception of the deadlines referred to in the transitional provisions.

Upon expiry of the specified period, a new inspection is carried out and, if compliance has not been achieved by the specified date, the penalties provided for in the Chapter 6.6 are imposed.

The above audit information is also forwarded to the relevant central directorate(s) of the Ministry of Culture for their information.

### **6.5.1. Procedure for Imposing a Fine - Lodging an Objection**

If an on-site inspection reveals non-compliance with the requirements of the Regulation, the Fire Service imposes an administrative fine, depending on the Overall Risk Level, as set out in Table 6.

| Overall Risk Level | Amount of the administrative fine (in EUR) |
|--------------------|--------------------------------------------|
| <b>Low</b>         | 1,000                                      |
| <b>Medium</b>      | 2,000                                      |
| <b>High</b>        | 5,000                                      |

Table (6): Administrative Fine per Overall Risk Level

In the event of a repeat offence within a year, the administrative fine for each overall-risk category is doubled.

The Act Imposing a Fine is drawn up by the competent inspection body of the Fire Service, a copy of which is given to the Head of the Ephorate of Antiquities, who may submit an objection within a strict deadline of ten working days to the competent Prefectural Fire Service Administration, the Director of which examines the objection in accordance with the law and on its merits and decides either to reject the objection or to cancel, in whole or in part, the administrative fine imposed.

Once the aforementioned deadline has expired without action being taken, or once the objection has been rejected, the decision to impose the administrative fine is deemed final.

### **6.5.2. Notification and Collection of Fines**

The fine imposed in accordance with the provisions of this Decision by the Fire Service is collected in accordance with the Public Revenue Collection Code, as follows:

a) Within fifteen (15) working days of the date of notification of the Act imposing a Fine, via an electronic fee (e-fee) from the General Secretariat for Information Systems for Public Administration (GSIS), issued either directly from the website <https://www.gsis.gr/eparavolo> (Greek State or competent fine-imposing authority), or from Citizen Service Centres (KEP), or from banks, or from local tax offices. If an objection is lodged, the

period within which the offender must pay the fine is suspended from the date the objection is submitted until notification of the decision on it.

b) If the deadline for payment of the fine referred to in sub-paragraph (a) expires, the competent Fire Service shall, within ten (10) calendar days, send a list of amounts due to the Independent Authority for Public Revenue (IAPR), in accordance with Article 2 of Law 4978/2022 (A' 190) and paragraph 1 of Article 58 of Law 5100/2024 (A' 49), for the notification and collection of the administrative fine.

c) Notified fines are collected as public revenue in Detailed Revenue Account (DRA) 1560989001 "Other Fines and Penalty Payments" of the General Accounting Office of the State.

## **7. Transitional Provisions**

1. For the current year (2026), it is recommended that all archaeological sites falling within the scope of the Regulation immediately implement at least the preventive measures provided for in Chapter 4.2. and prepare an Organised Evacuation Plan for the public from archaeological sites due to an imminent fire risk, as provided for in Chapter 4.1.5.1.
2. The active fire-protection provisions of mandatory application apply from the entry into force of this Regulation.
3. The preventive fire-protection provisions apply from the next fire season, i.e. from 1 May 2027.
4. Where the Technical Report on the Adaptation and Improvement of Fire-Protection Measures provides for the installation of a fixed water-supply firefighting network with hose-reel cabinets and/or water cannons, a public-address system or a manual fire-alarm call-point system, a deadline of up to five (5) years is set for the completion of their installation.

## **8. Final Provisions**

1. At archaeological sites hosting cultural events, the body responsible for organising the events provides the necessary staff and equipment to ensure the safety of those attending. The organiser is also responsible for the safe operation of the infrastructure and facilities it places as part of the events and makes available, where necessary, a plan for the evacuation of the public from the event area in case of fire, which is notified to the competent department of the Ministry of the Culture so that it can be included in the broader evacuation plan.

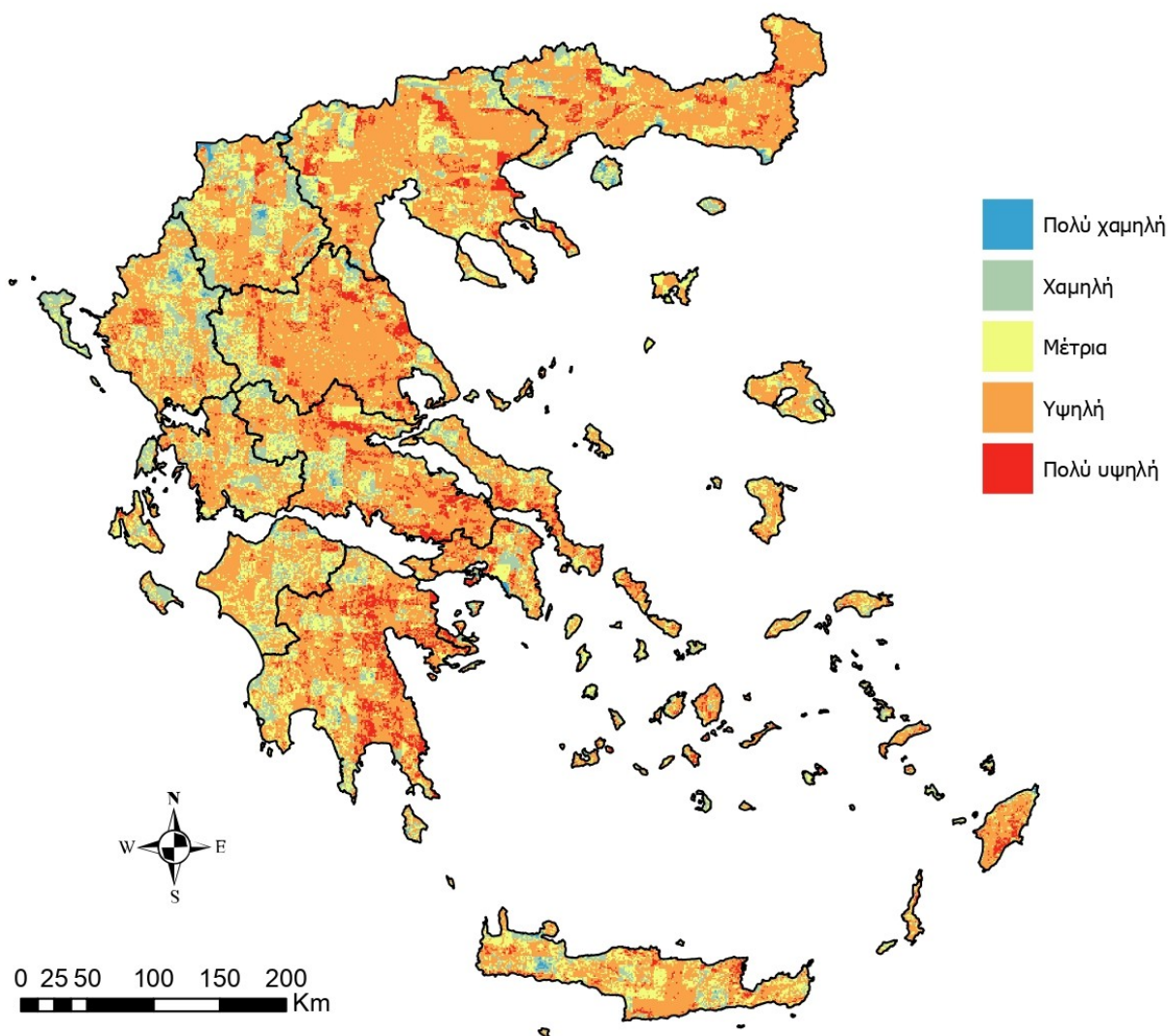
The above is included in the terms and conditions governing the use of archaeological sites for cultural events.

2. The procedures for the implementation, control and supervision of the Regulation set out herein may also be carried out digitally via the Ministry of Culture's electronic platform.
3. It is the responsibility of the competent Ephorate of Antiquities to ensure the installation, maintenance and proper operation of fire-protection systems and equipment, as well as to take the necessary preventive fire-protection measures at archaeological sites.

# **Annexes**

## Annex A

### “Estimated Climate-Risk Map for Forest Fires” - Assessment methodology



Πολύ χαμηλή  
Χαμηλή  
Μέτρια  
Υψηλή  
Πολύ υψηλή

Very low  
Low  
Medium  
High  
Very high

Climate risk is defined as the combination of the effects of a natural phenomenon and its probability of occurrence, as determined by the interaction of climate hazard, exposure and vulnerability (IPCC, 2022). The climate risk assessment (Figure 1) adopts the guiding principles of the Intergovernmental Panel on Climate Change (IPCC, 2022) and the European Climate Risk Assessment Framework (EUCRA, 2024).

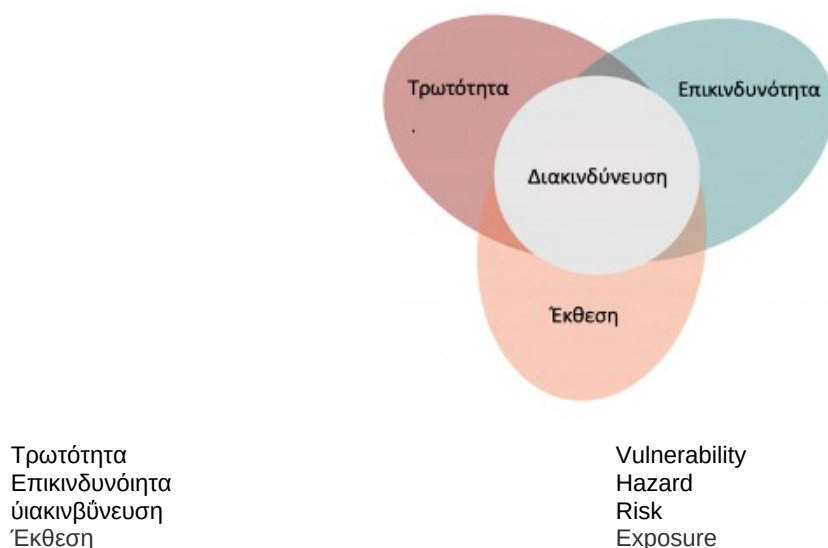


Figure 1. Climate risk assessment framework

The assessment of climate risk requires calculating climate hazard, which expresses the probability of occurrence and intensity of climate phenomena in the present and future, exposure, which concerns all people, infrastructure, activities and natural features located in areas where climate hazards occur, and vulnerability, which reflects the extent to which exposed systems are adversely affected should a climate risk occur. The combination of the above factors leads to a comprehensive assessment of climate risk, both today and in the future.

### Climate-Risk Assessment Methodology for Forest Fires

To assess the climate risk of forest fires in Greece, data relating to climatic and non-climatic parameters are used: spatial data from climate simulations, land cover data, as well as geophysical and biophysical data. The analysis was carried out using a Geographic Information System.

In particular, the risk of forest fires is assessed using the Composite Fire Weather Index (FWI) to describe the fire-meteorological conditions prevailing in Greece. The FWI is calculated on the basis of climate data, such as temperature, humidity, rainfall and wind speed, and expresses both the probability of occurrence and the intensity of fires. Data from regional climate simulations were used to assess the risk at national level to identify the days on which the indicator is associated with high or very

high forest fire risk. The regions of Greece were categorised into five classes, ranging from very low to very high risk, taking into account the frequency of such days. Looking ahead, the risk was assessed for the periods 2026–2045 and 2046–2065, in accordance with an intermediate climate-radiative-forcing scenario that predicts a of 4.5 W/m<sup>2</sup> change in the Earth-atmosphere system’s radiative balance by 2100<sup>1</sup>.

A region’s exposure to forest fires is categorised into five classes based on land-cover data from the CORINE Land Cover (CLC) product, which provides a pan-European inventory of land cover and land use across a total of 44 thematic categories (Corine, 2018). Accordingly, the vulnerability of the area was categorised into five classes, based on the fuel categorisation proposed by Aragoneses et al. (2023), who propose linking each fuel category to forest fuel models. The slope of the terrain was also taken into account, as indicated by high-resolution DEM data. In the vulnerability calculation, the influence of the combustible material was considered more critical and constituted 70 % of the indicator, while the influence of slope was accounted for 30%. The cartographic synthesis of these non-climatic factors provides a unified visual representation, incorporating the degree to which areas are exposed to external risks, as well as the vulnerability of the areas themselves to fires, based on their inherent characteristics. The composite exposure/vulnerability map, generated using GIS software classifies the country’s regions into five levels (from very low to very high).

The combination of hazard and exposure/vulnerability indicators, using equal weights in the risk indicator, leads to five risk classes, highlighting high-priority areas for fire protection. Analysis of forest-fire risks reveals clear trends indicating an increasing risk in most parts of Greece. These changes are mainly related to the increase in risk from the period 2026 – 2045 to the medium-term period 2046 – 2065.

It should be noted that the map accompanying the Regulation does not take into account the risk to archaeological sites located within a built-up urban environment and not adjacent to forest land or similar areas (groves, parks, etc.).

---

<sup>1</sup> These are the emissions, concentrations and heating potential projected by the SSP2-4.5 scenario, but without taking social and economic conditions into account. It is essentially identical to the RCP4.5 scenario.

## Bibliography

IPCC, 2022: Climate Change 2022: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [H.-O. Pörtner, D.C. Roberts, M. Tignor, E.S. Poloczanska, K. Mintenbeck, A. Alegría, M. Craig, S. Langsdorf, S. Löschke, V. Möller, A. Okem, B. Rama (eds.)]. Cambridge University Press. Cambridge University Press, Cambridge, UK and New York, NY, USA, 3056 pp., doi:10.1017/9781009325844.

European Environmental Agency (EEA), 2024: European Climate Risk Assessment (EUCRA), <https://www.eea.europa.eu/publications/european-climate-risk-assessment>

CORINE Land Cover 2018 (2018). European Union's Copernicus Land Monitoring Service information. Available at <https://land.copernicus.eu/pan-european/corine-land-cover>

Aragoneses, E., García, M., Salis, M., Ribeiro, L.M. and Chuvieco, E., 2023. Classification and mapping of European fuels using a hierarchical, multipurpose fuel classification system. *Earth System Science Data*, 15(3), pp.1287-1315.

## Annex B

### “Overall Risk Assessment Form”

| ΕΝΤΥΠΟ ΑΞΙΟΛΟΓΗΣΗΣ ΣΥΝΟΛΙΚΗΣ ΔΙΑΚΙΝΔΥΝΕΥΣΗΣ ΤΟΥ ΑΡΧΑΙΟΛΟΓΙΚΟΥ ΧΩΡΟΥ |  |
|---------------------------------------------------------------------|--|
| ΑΡΧΑΙΟΛΟΓΙΚΟΣ ΧΩΡΟΣ                                                 |  |
| ΕΦΟΡΕΙΑ ΑΡΧΑΙΟΤΗΤΩΝ                                                 |  |
| ΕΚΤΑΣΗ ΕΞΕΤΑΖΟΜΕΝΟΥ ΑΡΧΑΙΟΛΟΓΙΚΟΥ ΧΩΡΟΥ                             |  |
| ΣΥΝΤΑΚΤΕΣ ΕΝΤΥΠΟΥ                                                   |  |
| ΗΜΕΡΟΜΗΝΙΑ ΣΥΜΠΛΗΡΩΣΗΣ ΕΝΤΥΠΟΥ                                      |  |
| ΥΠΟΓΡΑΦΗ ΥΠΕΥΘΥΝΟΥ ΑΡΧΑΙΟΛΟΓΙΚΟΥ ΧΩΡΟΥ                              |  |

| OVERALL RISK ASSESSMENT FORM OF THE ARCHAEOLOGICAL SITE      |  |
|--------------------------------------------------------------|--|
| ARCHAEOLOGICAL SITE                                          |  |
| EPHORATE OF ANTIQUITIES                                      |  |
| SURFACE OF THE ARCHAEOLOGICAL SITE IN QUESTION               |  |
| FORM AUTHORS                                                 |  |
| DATE OF FORM COMPLETION <sup>1</sup>                         |  |
| SIGNATURE OF THE PERSON IN CHARGE OF THE ARCHAEOLOGICAL SITE |  |

| ΑΞΙΟΛΟΓΗΣΗ ΣΥΝΟΛΙΚΗΣ ΔΙΑΚΙΝΔΥΝΕΥΣΗΣ ΑΡΧΑΙΟΛΟΓΙΚΟΥ ΧΩΡΟΥ                  |                                                                                                                                                                                 |               |                              |                                 |                               |  |
|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------|---------------------------------|-------------------------------|--|
| Κριτήριο<br>(1)                                                          | Στοιχείο Αξιολόγησης<br>Επιλέγεται το κατάλληλο (✓ )<br>(2)                                                                                                                     | Βαθμός<br>(3) | Επιλεγμένος<br>Βαθμός<br>(4) | Συντελεστής<br>Βαρύτητας<br>(5) | Τελικός Βαθμός<br>(6)=(4)×(5) |  |
| 3.1.1.<br>Τοπογραφία                                                     | Αρχαιολογικός χώρος εκτός κοιλάδας, φαραγγιού, ή χωρίς εγγύτητα σε κορυφογραμμές και λοιπές εξάρσεις                                                                            | 1             |                              | 0,10                            |                               |  |
|                                                                          | Αρχαιολογικός χώρος εντός κοιλάδας, φαραγγιού, ή πλησίον κορυφογραμμής και λοιπών εξάρσεων                                                                                      | 5             |                              |                                 |                               |  |
| 3.1.2.<br>Εκτιμώμενη κλιματική<br>διακινδύνευση για<br>δασικές πυρκαγιές | Πολύ Χαμηλή                                                                                                                                                                     | 1             |                              | 0,32                            |                               |  |
|                                                                          | Χαμηλή                                                                                                                                                                          | 2             |                              |                                 |                               |  |
|                                                                          | Μέτρια                                                                                                                                                                          | 3             |                              |                                 |                               |  |
|                                                                          | Υψηλή                                                                                                                                                                           | 4             |                              |                                 |                               |  |
|                                                                          | Πολύ Υψηλή                                                                                                                                                                      | 5             |                              |                                 |                               |  |
| 3.1.3.<br>Υποδομές / Δίκτυα                                              | Χωρίς δίκτυα εναέριων καλωδίων υψηλής ή μεσαίας τάσης                                                                                                                           | 1             |                              | 0,03                            |                               |  |
|                                                                          | Με δίκτυα εναέριων καλωδίων υψηλής ή μεσαίας τάσης                                                                                                                              | 3             |                              |                                 |                               |  |
|                                                                          | Με δίκτυα εναέριων καλωδίων υψηλής ή μεσαίας τάσης και μετασχηματιστών                                                                                                          | 5             |                              |                                 |                               |  |
|                                                                          | Πυροσβεστικά υδροστόμια σε απόσταση μικρότερη των 500 μέτρων                                                                                                                    | 1             |                              | 0,06                            |                               |  |
|                                                                          | Πυροσβεστικά υδροστόμια σε απόσταση μικρότερη των 2500 μέτρων                                                                                                                   | 3             |                              |                                 |                               |  |
|                                                                          | Χωρίς πυροσβεστικά υδροστόμια                                                                                                                                                   | 5             |                              |                                 |                               |  |
|                                                                          | Με Σύστημα Έγκαιρης Ανίχνευσης πυρκαγιάς                                                                                                                                        | 1             |                              | 0,05                            |                               |  |
|                                                                          | Χωρίς Σύστημα Έγκαιρης Ανίχνευσης πυρκαγιάς                                                                                                                                     | 5             |                              |                                 |                               |  |
| 3.1.4.<br>Επισκεψιμότητα<br>αρχαιολογικού χώρου                          | < 100 επισκέπτες/ημέρα                                                                                                                                                          | 1             |                              | 0,19                            |                               |  |
|                                                                          | 100 – 1000 επισκέπτες/ημέρα                                                                                                                                                     | 3             |                              |                                 |                               |  |
|                                                                          | > 1000 επισκέπτες/ημέρα                                                                                                                                                         | 5             |                              |                                 |                               |  |
| 3.1.5.<br>Οδεύσεις Διαφυγής –<br>έξοδοι κινδύνου                         | Μέγιστο μήκος οδεύσεως διαφυγής μικρότερο των 50μ.                                                                                                                              | 1             |                              | 0,04                            |                               |  |
|                                                                          | Μέγιστο μήκος οδεύσεως διαφυγής από 51μ. μέχρι 100μ.                                                                                                                            | 3             |                              |                                 |                               |  |
|                                                                          | Μέγιστο μήκος οδεύσεως διαφυγής μεγαλύτερο των 100μ.                                                                                                                            | 5             |                              |                                 |                               |  |
|                                                                          | Αριθμός τελικών εξόδων: > των δύο (2)                                                                                                                                           | 1             |                              | 0,04                            |                               |  |
|                                                                          | Αριθμός τελικών εξόδων: δύο (2)                                                                                                                                                 | 3             |                              |                                 |                               |  |
|                                                                          | Αριθμός τελικών εξόδων: μία (1)                                                                                                                                                 | 5             |                              |                                 |                               |  |
| 3.1.6.<br>Πρόσβαση<br>πυροσβεστικών<br>οχημάτων                          | Πλήρης/Ανεξίτηλη Δυνατότητα προσέγγισης πυροσβεστικών οχημάτων εντός και περιμετρικά του αρχαιολογικού χώρου.                                                                   | 1             |                              | 0,09                            |                               |  |
|                                                                          | Μερική Δυνατότητα προσέγγισης πυροσβεστικών οχημάτων εντός και περιμετρικά του αρχαιολογικού χώρου                                                                              | 3             |                              |                                 |                               |  |
|                                                                          | Χωρίς/Περιορισμένη Δυνατότητα προσέγγισης πυροσβεστικών οχημάτων εντός και περιμετρικά του αρχαιολογικού χώρου                                                                  | 5             |                              |                                 |                               |  |
|                                                                          | Με δυνατότητα προσέγγισης πυροσβεστικών οχημάτων από το υφιστάμενο οδικό δίκτυο έως τα όρια του αρχαιολογικού από δύο(2) οδούς πρόσβασης με ικανοποιητικό πλάτος και βεβαιότητα | 1             |                              | 0,08                            |                               |  |
|                                                                          | Με δυνατότητα προσέγγισης πυροσβεστικών οχημάτων από το υφιστάμενο οδικό δίκτυο έως τα όρια του αρχαιολογικού από μία(1) οδό πρόσβασης με ικανοποιητικό πλάτος και βεβαιότητα   | 3             |                              |                                 |                               |  |
|                                                                          | Ανεπαρκές ή στενό οδικό δίκτυο και περιορισμένη έως αδύνατη πρόσβαση πυροσβεστικών οχημάτων                                                                                     | 5             |                              |                                 |                               |  |
| ΤΕΛΙΚΗ ΒΑΘΜΟΛΟΓΙΑ:                                                       |                                                                                                                                                                                 |               |                              |                                 |                               |  |
| ΕΠΙΠΕΔΟ ΔΙΑΚΙΝΔΥΝΕΥΣΗΣ:                                                  |                                                                                                                                                                                 |               |                              |                                 |                               |  |

| ASSESSMENT OF THE OVERALL RISK TO THE ARCHAEOLOGICAL SITE |                                                                                                                                                                                         |             |                    |                      |                           |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|----------------------|---------------------------|
| Criterion (1)                                             | Assessment criterion: Select the appropriate option (V) (2)                                                                                                                             | Grading (3) | Selected Grade (A) | Weighting factor (5) | Final Grade (6) (4) x (5) |
| 3.1.1. Topography                                         | An archaeological site located outside a valley or gorge, or not in the vicinity of ridges or other elevations                                                                          | 1           |                    |                      |                           |
|                                                           | An archaeological site located within a valley, gorge, or near a ridge and other elevations                                                                                             | 5           |                    |                      |                           |
| 3.1.2. Estimated climate risk for forest fires            | Very Low                                                                                                                                                                                | 1           |                    | 0.32                 |                           |
|                                                           | Low                                                                                                                                                                                     | 2           |                    |                      |                           |
|                                                           | Medium                                                                                                                                                                                  | 3           |                    |                      |                           |
|                                                           | High                                                                                                                                                                                    | 4           |                    |                      |                           |
|                                                           | Very High                                                                                                                                                                               | 5           |                    |                      |                           |
| 3.1.3. Infrastructure / Networks                          | Without high or medium voltage overhead cable networks                                                                                                                                  | 1           |                    | 0.03                 |                           |
|                                                           | With high or medium voltage overhead cable networks                                                                                                                                     | 3           |                    |                      |                           |
|                                                           | With high or medium voltage overhead cable networks and transformers                                                                                                                    | 5           |                    |                      |                           |
|                                                           | Fire hydrants at a distance of less than 500 metres                                                                                                                                     | 1           |                    |                      |                           |
|                                                           | Fire hydrants at a distance of less than 2,500 metres                                                                                                                                   | 3           |                    | 0.06                 |                           |
|                                                           | Without fire hydrants                                                                                                                                                                   | 5           |                    |                      |                           |
|                                                           | With Early Fire Detection System                                                                                                                                                        | 1           |                    |                      |                           |
|                                                           | Without Early Fire Detection System                                                                                                                                                     | 5           |                    |                      |                           |
| 3.1.4. Visitor traffic at the archaeological site         | < 100 visitors per day                                                                                                                                                                  | 1           | 0.19               |                      |                           |
|                                                           | 100-1,000 visitors per day                                                                                                                                                              | 3           |                    |                      |                           |
|                                                           | = 1,000 visitors per day                                                                                                                                                                | 5           |                    |                      |                           |
| 3.1.5. Escape routes- Emergency exits                     | Maximum length of escape route less than 50 m.                                                                                                                                          | 1           |                    | 0.04                 |                           |
|                                                           | Maximum escape route length: from 51 m to 100 m                                                                                                                                         | 3           |                    |                      |                           |
|                                                           | Maximum length of escape route greater than 100 m.                                                                                                                                      | 5           |                    |                      |                           |
|                                                           | Number of final exits: > two (2)                                                                                                                                                        | 1           |                    | 0.04                 |                           |
|                                                           | Number of final exits: two (2)                                                                                                                                                          | 3           |                    |                      |                           |
|                                                           | Number of final exits: one (1)                                                                                                                                                          | 5           |                    |                      |                           |
| 3.1.6. Access by fire-fighting vehicles                   | Full/Increased access for fire-fighting vehicles within and around the archaeological site                                                                                              | 1           |                    | 0.09                 |                           |
|                                                           | Partial access for fire-fighting vehicles within and around the archaeological site                                                                                                     | 3           |                    |                      |                           |
|                                                           | No/Limited access for fire-fighting vehicles within and around the archaeological site                                                                                                  | 5           |                    |                      |                           |
|                                                           | Fire-fighting vehicles can access the site from the existing road network to the boundaries of the archaeological site via two (2) access roads of sufficient width and passability     | 1           |                    | 0.08                 |                           |
|                                                           | Fire-fighting vehicles can access the site from the existing road network to the boundaries of the archaeological site via a single (1) access road of sufficient width and passability | 3           |                    |                      |                           |
|                                                           | Inadequate or narrow road network and limited to impossible access for fire-fighting vehicles                                                                                           | 5           |                    |                      |                           |
| FINAL GRADING:                                            |                                                                                                                                                                                         |             |                    |                      |                           |
|                                                           |                                                                                                                                                                                         |             |                    | RISK LEVEL:          |                           |

## **Annex C**

### **“Existing Fire-Protection Level Assessment Form”**

| ΕΝΤΥΠΟ ΑΞΙΟΛΟΓΗΣΗΣ ΥΦΙΣΤΑΜΕΝΟΥ ΕΠΙΠΕΔΟΥ ΠΥΡΟΠΡΟΣΤΑΣΙΑΣ |  |
|--------------------------------------------------------|--|
| ΑΡΧΑΙΟΛΟΓΙΚΟ ΧΩΡΟΣ                                     |  |
| ΙΣΟΡΡΙΑ ΑΡΧΑΙΟΤΗΤΩΝ                                    |  |
| ΕΚΔΟΣΗ Ε-ΕΛΑΦΙΟΜΕΝΟΥ ΑΡΧΑΙΟΛΟΓΙΚΟΥ ΧΩΡΟΥ               |  |
| ΣΥΝΑΚΤΕΣ ΕΝΤΕΛΕΥ                                       |  |
| ΠΛΗΡΟΦΟΡΙΑ ΣΥΜΠΛΗΡΩΣΕΩΣ ΕΝΤΕΛΕΥ                        |  |
| ΕΠΙΒΛΑΣΤΕΥΣΑΚΩΣ ΑΝΑΚΟΙΝΩΣΕΩΣ                           |  |
| ΥΠΟΓΡΑΦΗ ΥΠΕΥΘΥΝΟΥ ΑΡΧΑΙΟΛΟΓΙΚΟΥ ΧΩΡΟΥ                 |  |

**EXISTING FIRE-PROTECTION LEVEL ASSESSMENT FORM**

|                                                                   |   |
|-------------------------------------------------------------------|---|
| ARCHAEOLOGICAL SITE                                               |   |
| EPHORATE OF ANTIQUITIES                                           |   |
| SURFACE OF THE ARCHAEOLOGICAL SITE<br>IN QUESTION                 |   |
| FORM AUTHORS                                                      |   |
| DATE OF COMPLETION OF FORM                                        |   |
| OVERALL RISK LEVEL                                                | 9 |
| SIGNATURE OF THE PERSON IN CHARGE<br>OF THE ARCHAEOLOGICAL FUNNEL |   |

| RATING OF FIRE PROTECTION MEASURES                    |                                                                        |                                                                                                 |                                                  |           |                    |                      |                             |  |
|-------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------|--------------------|----------------------|-----------------------------|--|
|                                                       | Measure (1)                                                            | Control Element (2)                                                                             | Assessment Select the appropriate option (V) (3) | Grade (4) | Selected Grade (5) | Weighting factor (6) | Final Grade (7) = (5) x (6) |  |
| 4.1. Measures to Ensure the Safe Escape of the Public | 4.1.1. Emergency lighting                                              | Emergency lighting of escape routes and exits/final exits                                       | Fully provided                                   |           |                    | 0.02                 |                             |  |
|                                                       |                                                                        |                                                                                                 | Partially provided                               | 3         |                    |                      |                             |  |
|                                                       |                                                                        |                                                                                                 | Not provided                                     | 0         |                    |                      |                             |  |
|                                                       | 4.1.2. Safety signs                                                    | Marking of escape routes, exits/final exits and fire-fighting equipment                         | Fully provided                                   | 5         |                    | 0.01                 |                             |  |
|                                                       |                                                                        |                                                                                                 | Partially provided                               | 3         |                    |                      |                             |  |
|                                                       |                                                                        |                                                                                                 | Not provided                                     | 0         |                    |                      |                             |  |
|                                                       | 4.1.3. Evacuation plans                                                | Evacuation plans with corresponding signs and symbols                                           | Fully provided                                   | 5         |                    | 0.01                 |                             |  |
|                                                       |                                                                        |                                                                                                 | Partially provided                               | 3         |                    |                      |                             |  |
|                                                       |                                                                        |                                                                                                 | Not provided                                     | 0         |                    |                      |                             |  |
|                                                       | 4.1.4. Fire alarm and notification systems                             | Public address system                                                                           | Fully provided                                   | 5         |                    | 0.02                 |                             |  |
|                                                       |                                                                        |                                                                                                 | Partially provided by the use of megaphones      | 3         |                    |                      |                             |  |
|                                                       |                                                                        |                                                                                                 | Not provided                                     | 0         |                    |                      |                             |  |
|                                                       |                                                                        | Manual fire notification system                                                                 | Fully provided                                   | 5         |                    | 0.02                 |                             |  |
|                                                       |                                                                        |                                                                                                 | Partially provided                               | 3         |                    |                      |                             |  |
|                                                       |                                                                        |                                                                                                 | Not provided                                     | 0         |                    |                      |                             |  |
|                                                       | 4.1.5. Plans – Drills – Training                                       | Organised Evacuation Plan of the public from archaeological sites due to an imminent fire risk  | Fully provided                                   | 5         |                    | 0.04                 |                             |  |
|                                                       |                                                                        |                                                                                                 | Partially provided                               | 3         |                    |                      |                             |  |
|                                                       |                                                                        |                                                                                                 | Not provided                                     | 0         |                    |                      |                             |  |
|                                                       |                                                                        | Preparedness drills                                                                             | Fully provided                                   | 5         |                    | 0.06                 |                             |  |
|                                                       |                                                                        |                                                                                                 | Partially provided                               | 3         |                    |                      |                             |  |
|                                                       |                                                                        |                                                                                                 | Not provided                                     | 0         |                    |                      |                             |  |
|                                                       |                                                                        | Personnel training                                                                              | Fully provided                                   | 5         |                    | 0.08                 |                             |  |
|                                                       |                                                                        |                                                                                                 | Partially provided                               | 3         |                    |                      |                             |  |
|                                                       |                                                                        |                                                                                                 | Not provided                                     | 0         |                    |                      |                             |  |
| 4.2. Preventive Fire Protection Measures              | 4.2.1. Building Protection Zones                                       | Configuration of perimeter protection zones in buildings                                        | Fully provided                                   | 5         |                    | 0.16                 |                             |  |
|                                                       |                                                                        |                                                                                                 | Partially provided                               | 3         |                    |                      |                             |  |
|                                                       |                                                                        |                                                                                                 | Not provided                                     | 0         |                    |                      |                             |  |
|                                                       | 4.2.2. Fire protection of structural elements of the building envelope | Implementation of fire protection measures for the structural elements of the building envelope | Fully provided                                   | 5         |                    | 0.07                 |                             |  |
|                                                       |                                                                        |                                                                                                 | Partially provided                               | 3         |                    |                      |                             |  |
|                                                       |                                                                        |                                                                                                 | Not provided                                     | 0         |                    |                      |                             |  |
|                                                       | 4.2.3. Vegetation management                                           | Implementation of vegetation management measures within the archaeological site                 | Fully provided                                   | 5         |                    | 0.27                 |                             |  |
|                                                       |                                                                        |                                                                                                 | Partially provided                               | 3         |                    |                      |                             |  |
|                                                       |                                                                        |                                                                                                 | Not provided                                     | 0         |                    |                      |                             |  |
|                                                       | 4.2.4. General preventive measures                                     | Implementation of general preventive measures within the archaeological site                    | Fully provided                                   | 5         |                    | 0.08                 |                             |  |
|                                                       |                                                                        |                                                                                                 | Partially provided                               | 3         |                    |                      |                             |  |
|                                                       |                                                                        |                                                                                                 | Not provided                                     | 0         |                    |                      |                             |  |
| 4.3. Active Fire Protection                           | 4.3.1. Portable means                                                  | Installation of portable fire extinguishers                                                     | Fully provided                                   | 5         |                    | 0.01                 |                             |  |
|                                                       |                                                                        |                                                                                                 | Partially provided                               | 3         |                    |                      |                             |  |
|                                                       |                                                                        |                                                                                                 | Not provided                                     | 0         |                    |                      |                             |  |
|                                                       | 4.3.2. Fixed Fire-fighting Systems                                     | Fixed Water-Supply Fire-Fighting Network with Fire Hydrant Cabinet                              | Fully provided                                   | 5         |                    | 0.07                 |                             |  |

|                                              |                                                                           |                                                                                    |                                                                                                                 |  |   |  |  |      |
|----------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--|---|--|--|------|
|                                              |                                                                           | Fixed Water-Supply Fire-Fighting Network with Water Cannons                        | Partially provided                                                                                              |  | 3 |  |  | 0.06 |
|                                              |                                                                           |                                                                                    | Partially provided by the existence of a simple fire-fighting water-supply network or mobile fire extinguishers |  | 2 |  |  |      |
|                                              |                                                                           |                                                                                    | Not provided                                                                                                    |  | 0 |  |  |      |
|                                              |                                                                           |                                                                                    | Fully provided                                                                                                  |  | 5 |  |  |      |
|                                              |                                                                           |                                                                                    | Partially provided                                                                                              |  | 3 |  |  |      |
|                                              | 4.3.3.<br>Maintenance and inspection of fire protection systems and means | Maintenance, inspection and control of installed fire protection systems and means | Not provided                                                                                                    |  | 0 |  |  | 0.05 |
|                                              |                                                                           |                                                                                    | Fully provided                                                                                                  |  | 5 |  |  |      |
|                                              |                                                                           |                                                                                    | Partially provided                                                                                              |  | 3 |  |  |      |
|                                              |                                                                           |                                                                                    | Not provided                                                                                                    |  | 0 |  |  |      |
|                                              | FINAL GRADING (FG):                                                       |                                                                                    |                                                                                                                 |  |   |  |  |      |
| EFFECTIVENESS INDEX (EI %) = (FG) + 100 / 5: |                                                                           |                                                                                    |                                                                                                                 |  |   |  |  |      |
| OVERALL RISK LEVEL:                          |                                                                           | >=> MINIMUM EFFECTIVENESS INDEX (Min E 1):                                         |                                                                                                                 |  |   |  |  |      |
| ADDITIONAL MEASURES REQUIRED:                |                                                                           |                                                                                    |                                                                                                                 |  |   |  |  |      |