



# **Evacuation plan (NEN 8112)**

# **Fraijlemaborg**

Fraijlemaborg 133

1102 CV Amsterdam

07-09-2017

# List of contents

List	of contents2
0.	Revision document3
1.	Declaration of intention5
2.	Ground plan6
3.	Organisation, Building and Installation technical details7
3.1.	Organisation details7
3.2.	Company Emergency Response organisation7
3.3.	Building details9
3.4.	Installations and facilities 10
4.	Alarm procedure (internal and external) 12
4.1.	High-risk incidents 12
4.2.	Internal alarm 12
4.3.	External alarm
5.	Method of evacuation and evacuation organisation14
5.1.	Evacuation 14
6.	Vulnerable people 15
7.	What to do in the case of a fire or an evacuation 16
7.1.	Upon discovering a fire 16
7.2.	How to act in the case of a fire or an evacuation alarm16
Арр	endix 1. Location of safety equipment Fraijlemaborg17
Арр	endix 2. DCT and CCT 18
Арр	endix 3. Direct alarm slow-whoop 19
Арр	endix 4. Tasks of members of <i>BHV</i> organisation 20
Арр	endix 5. Bomb alert form 25

#### 0. Revision document

#### Mutations to Evacuation plan

Updated by:	Date	Chapter	Description	Initials	

# **Document copy holders**

Dean / operational manager BHV Head Control room monitoring and reception rooms UvA-HvA Central Control room FS/Safety

BHV	Company emergency response	
ВМС	Fire alarm centre	
BMI	Fire alarm system	
Calamity	An event as a result of which a serious disruption to the general safety has occurred, whereby the life and health of many people, or material or immaterial interests are at serious threat and whereby an actual coordinated deployment by departments, the <i>BHV</i> organisation and external emergency organisations with various disciplines is required.	
ССТ	Central Crisis Team	
СМК	UvA/HvA Central Control Room	
DCT	Decentral Crisis Team	
ЕНВО	First aid for accidents and clinical pictures	
LMP	Local Contact Point = reception)	
NEN	Dutch Norm	
PZI	People Search system (= tracer system)	
Salto keycard	Electronic locking system within the UvA/HvA	
FMB	Fraijlemaborg	

# Description of terms and abbreviations

#### 1. Intentieverklaring

Door ondertekening van deze intentieverklaring verklaart de decaan/directeur zorg te dragen en toe te zien op een adequate Bedrijfshulpverlening conform de Arbowet. Want ondanks het aanbrengen van preventieve voorzieningen en voorzorgsmaatregelen in een gebouw, is het ontstaan van een incident niet geheel uit te sluiten. In ieder gebouw kunnen zich situaties voordoen die het noodzakelijk maken dat bezoekers en personeel het gebouw zo snel mogelijk moeten verlaten.

Hiervoor is naast de genomen preventieve maatregelen een ontruimingsplan noodzakelijk. Voorwaarde voor een goede ontruiming is dat de opzet van dit plan bij alle medewerkers bekend is. Door middel van periodieke oefeningen en minimaal één jaarlijkse ontruimingsoefening zal dit ontruimingsplan aan de praktijk worden getoetst en zo nodig worden bijgesteld.

Decaan/directeur bedrijfsvoering

FR Refel (Naam)

...... (Handtekening)

Ontruimingsplan FMB v0.3

Met opmerkingen [J1]: Fromeel decaan gedelegeerd aan bedrijfsvoerder?





VERKLARING SYMBOLEN				
Brandmeldpaneel	Hoofdschakelaar E elektra			
Nevenpaneel	Bovengrondse hydrant			
Brandweerhoofdingang	우 Sleutelkluis			
Water afsluiter	Verzamelplaats			

### 3. Organisation, Building and Installation technical details

#### 3.1 Organisation details

Owner of building	Amsterdam University of Applied Sciences		
User(s) of building	Faculty of Business and Economics		
Address Fraijlemaborg	Faijlemaborg 133		
	1102 CV Amsterdam Zuid- Oost		
Reception telephone number	+31 (0)20 523 6311		
Contact / person responsible for Company	Jothan Purmer, tel.: 06 21158980		
Emergency Response service			
Service Desk telephone number	+ 31(0)20 525 7575		
Accessibility and opening hours	Opening hours Fraijlemaborg:		
	Mon – Thurs 7.30 - 20.00 hrs (for students open from 8 00 hrs)		
	Fri 7 30 - 18 00 hrs (for students open from		
	8.00 hrs)		
	<ul> <li>Salto: for the purpose of lockable rooms, accessible by means of an employee keycard.</li> <li>Partly accessible for third parties.</li> </ul>		

#### 3.2 Company Emergency Response organisation

In this building a Company Emergency Response (*bedrijfshulpverlening, BHV*) organisation is active. The list with the names of the *BHV* team members is available from the reception.

The fire alarm system (*Brandmeldinstallatie*, *BMI*) applies to the whole building. It concerns a fire alarm system to which the following applies:

Partial monitoring, non-automatic monitoring, room monitoring and object monitoring.

The Fire alarm centre (*Brandmeldcentrale, BMC*) is located in room 0.039 next to the reception on the ground floor. In the reception there is a geographic side panel with operation and detection possibilities available.

Upon activating the fire alarm, the alarm is visible on the *BMC*s on the fire alarm panel. The reception and/or a *BHV* officer is thus able to read the current situation.

In the case of calamities with a high risk, the main Team Leader scales the situation up to the Decentral Calamity team (DCT) of the Faculty or the Central Crisis Team (CCT) of the UvA-HvA. This takes place via the Central Control Room (*Centrale Meldkamer, CMK*), **emergency number 020 595 3333**. The current list of names of the Central and Central Crisis Team are available there.

#### Communication between the BHV organisation and the Fire Brigade

In the case of a fire alarm, an automatic transfer to the Control room of the Fire Brigade takes place. When the Fire Brigade arrives, it is received at the entrance to the Fraijlemaborg and is supported by the *BHV* team member in the building. (With the exception of specific incidents such as a gas alarm. Then the *BHV* team member calls 112.)

# 3.3. Building details

User function of complex	Office function
	Educational function
	Other user function (Parking)
Activities	Office/administrative activities
	Teaching activities
Number of storeys	<b>-</b> .
Fraiilemaborg	• 5 storeys
	<ul> <li>The height of the building is approx. 20 metres.</li> </ul>
Number of storeys in use	<ul> <li>Basement: Parking (cars and motorcycles). Not under</li> </ul>
	management of HvA
	• Ground floor: reception, study areas, technical rooms, restaurant
	Floors: offices. education rooms. technical rooms
Outside opening hours to	
	Security service/surveillance
be entered via:	
Maximum number of	Maximum number of persons permitted 4685:
people present according	2817 ground floor
to throughput capacity	
LBP 2012	

# Special and/or high-risk rooms

Technical rooms	City heating distribution station+ emergency generator:
	0.048.1 Air treatment: 0.062, 1.032 and 2.122 and roof construction
	Switch room kitchen+ emergency lighting batteries: 1.074.2 Serving room: 0.056
	Light & Electricity switchbox: 0.114; 1.074; 2.118, 3.098, 4.088
Low voltage room	Various shafts
Restaurant with kitchen	1.024.1
MER/ SER room	1.072 -1.074 (issue + kitchen); 2.011 (restaurant)
	0.049; 0.112; 1.061; 1.074.4; 2.005; 2.116;3.017; 3.096; 4.017; 4.086

# 3.4. Installations and facilities

Fire alarm system, Evacuation system Fraijlemaborg Connection nr: 13 - 4455	In Fraijlemaborg, the <i>BMI</i> is with <ul> <li>partial monitoring</li> <li>room monitoring</li> <li>object monitoring</li> </ul>
	This systems consists of manual fire alarms, automatic fire alarms, smoke detectors, supporting indicators and control modules (in accordance with the Programme of Requirements 2011): Fire brigade safe, door hold-open devices, ventilation, escalators, lifts, pressure differential system stairwell C, shutters (restaurant, corridor, issue), access control system, sun blinds, tourniquet doors, unlocking of gates, transmission equipment, compressor Louvre's Braat, windows gable Alicon, flashlight.
	The evacuation system type B is linked to the <i>BMI</i> with a direct transmission. The evacuation alarm (slow-whoop) is <u>immediately</u> activated in the part of the building in question by pressing a manual fire alarm and <u>without delay</u> in the case of an automatic alarm in the part of the building in question (phased alarm).
	There is a public address system present.
Sprinkler system	In the waste storage room (1.020) a sprinkler system has been installed which is operated by the <i>BMC</i> .
Fire alarm centre Fraijlemaborg	The Fire alarm centre is located in room 0.039 next to the reception. There is a fire alarm panel in the lock by the fire escape next to the main entrance: room 0.173. In the case of an alarm, this can be read on the panel for the purpose of
	the BHV organisation.
Transmission to the Fire Brigade	Upon the activation of the fire alarm system or evacuation system, an alarm follows on the BMC, on the side panel at the reception, at the Central Alarm room of the HvA and the RAC of the Fire Brigade.
Ventilation	An air ventilation system has been fitted in the complex. The ventilation system provides the air treatment in various rooms. The ventilation system is automatically operated via the Building Management System ( <i>Gebouw Beheer Systeem (GBS</i> )). During a fire alarm the air treatment is scaled up to 100% fresh air and the recirculation switched off.
City heating system	FMB is connected to the city heating of the municipality of Amsterdam. The <b>valve</b> is located in room <b>0.048.1.</b>

Lift Fraijlemaborg (Intercom) Specifications: Alarm in the case of a malfunction	In Fraijlemaborg there are 4 lifts in the central hall. The far right of these lifts is equipped as a fire brigade lift. With the lifts in the hall, all the floors can be reached from the first floor. All the lifts are machine room free lifts. The control panel is located on the 4 <sup>th</sup> floor immediately next to the lift. The operating instructions for turning cables of the lift are also located there. The lifts are linked to the fire alarm centre. In the case of an evacuation alarm, the lifts will go to the ground floor and remain open there. If a lift malfunction occurs, using the intercom in the lift, the reception can be contacted via the alarm telephone.
Electric doors/ keycards/unlocking	The building is fitted with doors which are open and closed electronically using keycards (Salto). The emergency exits that are not linked to the <i>BMI</i> can be opened by means of a releaser next to the door.
Emergency and transparent lighting	In the building an emergency lighting system has been fitted which is switched on if the normal energy supply cuts out or drops to under 70% of the normal voltage. In the event of a power cut, the lighting can guarantee up to 60 minutes of light supply, according to the guidelines.
	In room: 0.029.1
ELEKTRA NOODSCHAKELAAR	1.024.1
City heating	0.048.1

# 4. Alarm procedure (internal and external)

#### 4.1. High-risk incidents

Below, incidents are listed which could lead to an evacuation of the Fraijlemaborg building.

- Bomb alert
- Fire alarm
- Electricity short circuit
- Gas leak
- Environmental incidents (unforeseen)
- Water supply closure

#### 4.2. Internal alarm

The table below lists the possibilities regarding which the reception, *CMK* and emergency services are alerted about a possible incident.

Type of alarm	Method of alerting	Alarm
Manual alarm	Pressing manual fire alarm or control panel of the <i>BMI</i>	Alarm received by the reception Alarm received by <i>CMK</i> Alarm received by the RAC fire brigade Activation of evacuation alarm (slow-
		whoop) on the floor in question.
Automatic alarm	Activating smoke alarm	Alarm received by the reception Alarm received by <i>CMK</i> Alarm received by the RAC fire brigade Activation of evacuation alarm (slow- whoop) on the floor in question.
Telephone alarm via (020 595) 3333	From <i>CMK</i> , (alarm number 3333), under the assignment of a DCT, dean or in the case of an alert by external parties (e.g. a bomb alert). From reception to <i>CMK</i>	Alarm received by the reception (if call is from a landline via 3333 or via the red emergency telephone). Mobile telephone calls go directly to CMK. In the case of a bomb alert, the reception alerts CMK.
Verbal alarm	At the reception desk (if an incident has been detected)	Direct paging of <i>BHV</i> team (via reception), contact with <i>CMK</i> via (020
Evacuation plan FN	MB v 1 12	595) <b>3333.</b>

#### 4.3. External alarm

An external alarm is for the purpose of calling in the professional emergency services and is <u>reserved for the *BHV* Head Team Leader</u>, unless it is a matter of an immediate life-threatening situation. In the case of a calamity, the external alarm works as follows:

- With the fire alarm system, by breaking the glass of a manual fire alarm or engaging a smoke alarm. In this case, there is a direct transmission to the Fire Brigade.
- By telephone to the alarm centre of the Fire Brigade via (0)-112.

*Remark*: In the case of the government alarm, evacuation does not take place, but windows and doors must be closed and the local media followed. The *BHV* team will coordinate the required actions within the building and prevent the undesired exit of people from the building.

### 5. Method of evacuation and evacuation organisation

#### 5.1. Evacuation

In the case of a calamity, it must be considered whether evacuation is necessary. If the alarm sounds, the floor where the alarm was activated is immediately evacuated. Next, the situation is charted and on the basis of this it is considered what further action is necessary. At the indication of the *BHV* Head Team Leader or external emergency services, a part of the building or the whole building will be evacuated.

If there is an immediate threat to the people present, members of the *BHV* organisation or other people present can initiate an evacuation of a section of the building or floor by breaking the glass of a manual fire alarm. The slow-whoop can also be set off manually at the reception.

#### Ad 1. Evacuation of the floor where the incident took place

In most cases, horizontal evacuation can take place in the case of fire in one room of the building. Act according to the instructions applicable to you:

- 1. Firstly, the room where the fire started must be evacuated.
- 2. Next, the room opposite must be evacuated.
- 3. Next, the rooms next to the fire must be evacuated.
- 4. Next, the other rooms (from inside to outside) must be evacuated.

In the case of a partial evacuation, employees must go to the **next safe fire compartment**. From this situation, evacuation is continued. (See figure 1: Order of evacuation in the case of a horizontal evacuation). The figures shown on the drawing indicate the sequence of evacuation).



Figure 1: Sequence of evacuation in the case of horizontal evacuation

#### Ad. 2. Floors above and below the incident

When the floor on fire has been evacuated, a start can be made with evacuating the other floors. In the case of a vertical evacuation, the floor located above the fire must be evacuated first. Once this has happened, a start can be made with evacuating the floor located under the fire. Next, the other floors above and below the fire must be evacuated, preferably starting with the floors above the fire.



Figure 2: Sequence of evacuation in the case of a vertical evacuation

# 6. Vulnerable people

If the building has to be evacuated, during the evacuation it will become clear if and where vulnerable people are located. Next, these people will be assisted by a *BHV* team member in leaving the building. If this is not possible, the *BHV* team will take these people to a place as safe as possible (e.g. behind a smoke and fire resistant door or to another compartment) and will report this to the *BHV* Head Team Leader.

#### 7. What to do in the case of a fire or an evacuation

#### 7.1. Upon discovering a fire

- Remain calm.
- Report the fire:
  - by breaking the glass of the nearest manual fire alarm;
  - > and/or by reporting the fire directly to *CMK* via alarm number (020-595)**3333** or the reception.
- Safeguard the people present, possibly with the own staff. Consider your own safety and the safety of others.
- Prevent the spread of fire by:
  - closing windows and doors;
  - > if possible, extinguishing the fire yourself (if the fire has just started).
- Use the nearest exit or emergency exit.
- Follow the instructions of the *BHV* team members or the competent authority.
- In the case of smoke development, remain close to the floor.
- Go with your guests to the nearest meeting point.
- Never leave the meeting point without permission.

#### 7.2. How to act in the case of a fire or an evacuation alarm

- The start of the evacuation procedure is announced by means of the evacuation signal (slow-whoop).
- If possible, pack your precious belongings.

Follow the instructions of the *BHV* team members/ Evacuators and/or the text announced.

- Close windows and doors.
- Instruct your colleagues/students/guests; you are also responsible for them.
- Use the nearest exit or emergency exit.
- In the case of smoke development, remain close to the floor.
- Go with your guests to the nearest meeting point.
- Never leave the meeting point without permission.

# Appendix 1. Location of safety equipment Fraijlemaborg

<ul> <li>At reception desk (from room 0.039)</li> <li>2<sup>nd</sup> and 4<sup>th</sup> floor next to the lifts</li> </ul>
• All the floors in the <i>BHV</i> island (next to the lifts)
<ul> <li>Reception</li> <li>All the floors next to the <i>BHV</i> islands and</li> <li>First Aid room (0.12)</li> </ul>
• Reception + <i>BHV</i> cupboards
Key safe next to main entrance

# Appendix 2. DCT and CCT

Up-to-date list always known at the CMK.



# Brandalarm protocol A - direct alarm slow whoop

# Appendix 4. Tasks of members of BHV organisation

## BHV Head

Per campus/ cluster a BHV Head is appointed.

#### Tasks

- ensures all the necessary financial activities that are carried out or processed for the purpose of the own BHV team, such as the annual BHV reimbursement, anniversaries, declarations, budgeting and charging on;
- ensures the composition of the team on the basis of hazard identification and risk assessment (*RI&E*);
- ensures the team is sufficiently trained, by means of the correct training courses and evacuation drills;
- organises the consultation with Head Team Leaders and/or Team Leaders;
- passes on names and work locations of employees and if possible students with a disability to the Head Team Leader;
- ensures the administrative feedback.

#### **Responsibilities:**

- responsible for adequately functioning *BHV* teams for the buildings which fall under his/her responsibility;
- responsible for drawing up the BHV planning;
- assesses in consultation with the Head Team Leader or Team Leader whether the members of the team meet the requirements and competences;
- safeguards that the Head Team Leader makes agreements with employees and if possible – students with a disability that in the case of an evacuation they can leave the building in a safe and fast way.

#### Powers:

• appointing a Head Team Leader in consultation with the mandatary.

#### Competences:

- strategic thinking and development of vision
- organisational skills
- monitoring plans and progress
- setting objectives
- delegating
- organisation insight
- oral and written communicational skills

#### **Training**

- BHV Head training course (strategic)
- basic BHV training course repeated annually

In practice, supporting tasks and powers which are described under the function of *BHV* Head can be delegated to various persons, as a result of which the *BHV* Head is under less pressure.

# **BHV Head Team Leader**

Evacuation plan FMB v 1

Tasks:

- manages the deployment of the BHV organisation in the case of calamities and incidents and carries out the coordination for the cluster/ the campus;
- in collaboration with the *BHV* Head, ensures an adequate occupancy of the *BHV* in relation to the activities and nature of the building;
- reports an incident digitally (see Incident Policy);
- monitors that after a deployment after-care is given to the people involved (victims and internal aid workers);
- organises information in the field of company emergency response;
- makes agreements with employees and if possible students with a disability about the way in which, in the case of an evacuation, they can leave the building in a safe and fast way.

#### **Responsibilities:**

- responsible that the team is sufficiently practically trained and has the necessary equipment and knowledge of the building;
- responsible for periodically carrying out a safety round concerning the availability and condition of *BHV* equipment, including any compressed air supplies;
- responsible for composing an evaluation report of drills or deployment and following up advice resulting from this.

#### Powers

- upon deployment of the *BHV* organisation, makes decisions with regard to evacuation and engaging emergency services;
- if necessary, intervenes in the case of dangerous situations in his building and reports directly to both the *BHV* Head or if necessary the Control room;
- can ask FS for advice with regard to safety issues.

#### Competences supplementary to Team Leader:

- planning and organising
- delegation
- verbal communication
- leadership
- team builder
- conflict management
- able to deal with stress
- decision-making skills
- responsibility

#### Training:

- basic BHV training course repeated annually;
- BHV Team Leader training course (operational);
- instruction in operating available safety system(s).

#### **Team Leader**

#### Tasks:

- in the case of an incident and/or calamity, manages a team of BHV members;
- the managerial tasks of a BHV Team Leader comprise at any rate the following activities:
  - exploration;
  - communication;
  - care and transport of wounded;
  - firefighting;
  - evacuation;
  - damage limitation.
- monitors that after a deployment, space is given for the after-care of the people involved.

#### **Responsibilities:**

- responsible that upon an evacuation of the building, all the people from the building or part of the building allocated to him are directed to the meeting point in an adequate way;
- responsible that his BHV team members do not run unnecessary risks during a deployment;
- responsible for having a valid diploma for training courses indicated;
- participation in annual evacuation drills and other BHV drills.

#### Competences:

- delegating
- able to deal with stress
- decision-making skills
- collaboration
- verbal communicational skills
- responsibility

#### Training:

- basic *BHV* training course repeated annually;
- *BHV* Team Leader training course (operational);
- instruction in operating available safety system(s).

## Company aid worker (BHV team member)

#### Tasks:

- ensures the actual incident and calamity combatting;
- ensures that the evacuation procedure takes place quickly and safely;
- is responsible in any case for the following tasks:
  - providing First Aid in the case of accidents;
  - limiting and fighting fire and preventing and limiting accidents;
  - in emergency situations, alerting and evacuating all the people who are present in the building;
  - alerting and collaborating with the Fire Brigade and other External Emergency Services.

#### **Responsibilities:**

- reports a detected unsafe situation to the Team Leader/BHV Head;
- responsible for having a valid diploma for training courses indicated;
- participation in annual evacuation drills and other BHV drills;
- willingness to follow instructions that are relevant for the execution of the role of *BHV* team member.

#### Competences:

- collaboration
- responsibility
- able to deal with stress
- taking initiative

#### Training:

• basic BHV training course.

#### **Evacuator**

#### <u>Tasks:</u>

- the evacuator assists the BHV in the case of an evacuation of the building;
- reports to the Team Leader when the evacuation assignment given has been completed;
- education rooms: makes agreements with the Head Team Leader if students with a disability attend his lectures about the way in which they can leave the building safely in the case of an evacuation.

#### **Responsibilities:**

• the evacuator is responsible for evacuating all the people from the part of the building allocated to him/her or education room to the meeting point indicated.

#### Training:

• Internal Evacuator Instruction.

### First Aid worker

#### Tasks:

• If present, the First Aid worker ensures the care of a wounded or sick victim.

#### Responsibilities:

- the First Aid worker assesses the condition of the victim and assesses what emergency services must possibly be engaged;
- the First Aid worker informs the ambulance service about the condition of the victim;
- the circumstances and any relevant past history;
- responsible for having a valid diploma for training courses indicated;
- participation in annual evacuation drills and other *BHV* drills.

#### Powers:

• the First Aid worker is authorized to take over the aid from non-specialized *BHV* team members/employees.

#### Competences:

- able to deal with stress
- taking initiative

#### <u>Training</u>

• First Aid training course

# Appendix 5. Bomb alert form

Bomb alert form					
. Content of mes	ssage:		o Time: :(24-hour clock)		
2. Ask in a frien	dly voice:				
When will the bomb	go off?				
Where is the bomb?					
What type of bomb	is it?	o explosive b	omb		
		o firebomb			
What does the bomb	o look like?	o is open and	exposed		
		o packaged ir	:		
<b>Why</b> was the bomb p	placed?				
Who are you?					
If second-hand info	ormation: from who	m/how did you hear this	?		
3. Identifying m	essenger:				
Voice	o Male	o Female	o Child		
	o Adult	o Dutch	o Foreigner		
Speech	o Slow	o Normal	o Fast		
	o Gruff	o Serious	o Laughing		
	o Excited	o Loud	o Soft		
	o Stammering	o Lisping	o Hoarse/raspy		
Language	o French	o German	o English		
o Other language:					
o Accent:					
o Dialect:	·····				
o Other:		abtau			
4. Background n	oises: 0 Lau	gnter	o Taiking		
	0 Mus		o Reyboard		
	o Tra	ttic	o Workplace		
	o Chi	ldren	o Aircraft		
o Mobile phone					
o Other:					
5. Message pass	ed on to:				
6. Special details	S:				
7. Answered by:					