

7.2 Architectural and topographical installation symbols

Description	Symbol	Description	Symbol
Lighting outlet position		Two-way switch, single pole	
Lighting outlet on wall		Intermediate switch	
Lamp, general symbol		Dimmer	
Emergency lighting luminaire		Time switch	
Self-contained emergency lighting luminaire		Push button	
Lighting point with built in switch		Push button with indicator lamp	
Projector or lamp with reflector		Push button with restricted access (glass cover etc.)	
Spotlight		Socket outlet (power), general symbol	
Floodlight		Socket outlet (power) with single-pole switch	
Luminaire, fluorescent lamp		Multiple socket outlet	
Luminaire with three fluorescent tubes		Socket outlet with isolating transformer, for example, shaver socket	
Alternative symbol, with five tubes		Socket outlet (telecommunications)	
Switch, general symbol		Distribution centre, shown with five conduits	
Switch with pilot light		Fan, shown with wiring	
Switch, two-pole		Water heater shown with wiring	
Pull-cord switch, single pole		Antenna	

Building components

Windows in horizontal/ vertical section/cut

6.101
any type



6.102
with cill/jamb/
threshold



Windows in elevation

6.201
any type



6.202
fixed



6.203
hinged at side



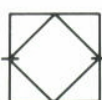
6.204
hinged at top



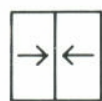
6.205
hinged at bottom



6.206
pivoted,
horizontal axis



6.213
sliding
horizontally



Doors and doorsets on plans

6.301
hinged leaf



6.307
two hinged
leaves, any type



Piped and ducted services

Pipes, ducts, drains and sewers

7.101
any type



Pipe fittings

7.211
draw off point
(tap)



7.212
spray outlet



Valves

7.301
straight two port



7.309
ballcock



Sanitary fittings (simplified representations on plan)

7.4R1
sink, any type



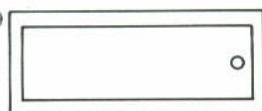
7.4R4
sinktop,
RH bowl



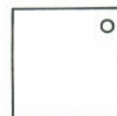
7.4R7
wash basin



7.4R9
bath



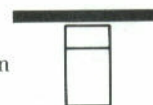
7.4R10
shower tray



7.4R11
bidet

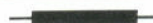


7.4R12
wc with close
coupled cistern



Pipework components

7.601
radiator



7.602
heated towel rail



Electrical services

Communications sockets

8.507
socket, telephone




18 Symbols for construction drawings


Information devices

Datums, levels, orientation

1.101
bench mark 


Steps and gradients

1.801
direction of
RISE, ramp/stair/
steps 

1.802
direction of
FALL, slope 


Applications

Straight
stair/steps
1.801 

Ramp
1.104
1.801 

Materials in section


Wood


2.101
any type, sawn 

2.105
softwood,
machined all
round 

2.106
hardwood,
machined all
round 

Manufactured materials

2.201
board/layer, etc,
any type; small
scale* 

2.202
sheet, any
type; large scale 

2.203
board, any
type; large scale 

2.205
plywood sheet 


2.206
glass sheet 

2.207
metal sheet 

2.208
blockboard 

2.209
insulation
board 

Masonry

2.301
blockwork 

2.302
brickwork 

2.303
stonework 

Site-formed materials

2.403
asphalt/
macadam 

2.404
plaster/render/
screed 

2.405
concrete 

2.406
granular fill 


2.407
hard fill 

2.408
subsoil 


Landscape

Existing trees





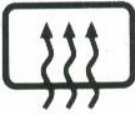













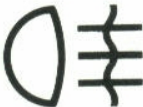











4.202
existing tree 

4.203
existing tree to
be removed 

Proposed trees

4.303
proposed tree,
any type 

8 Symbols for controls, indicators or tell-tales for road vehicles

				
Upper beam	Windshield wiper and washer	Horn	Headlamp cleaner	Rear window demisting and defrosting
				
Lower beam	Ventilating fan	Fuel	Lighter	Neutral indicator (on motorcycles)
				
Turn signals	Parking lights	Engine coolant temperature	Front fog light	Electric starter (on motorcycles)
				
Hazard warning	Front hood (bonnet)	Battery charging condition	Rear fog light	Run (on motorcycles)
				
Windshield wiper	Rear hood (boot)	Engine oil	Master lighting switch	Off (on motorcycles)
				
Windshield washer	Choke (cold starting aid)	Seat belt	Windscreen demisting and defrosting	Engine ignition cut-off (on mopeds)

PP7307:1989














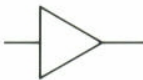
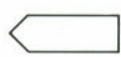
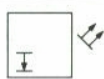

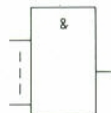

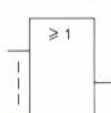



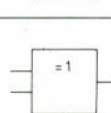

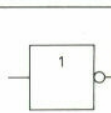

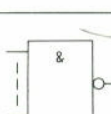

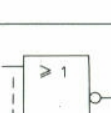

Graphical Symbols

for use in schools and colleges

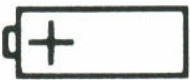






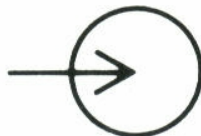




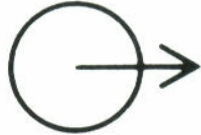



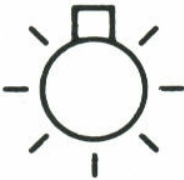


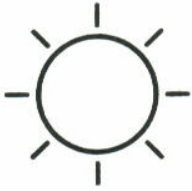



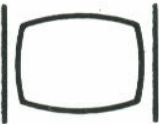

7.1 Selected electrical and electronic graphical symbols

Description	Symbol	Description	Symbol
Direct current		Fuse	
Alternating current		Resistor, general symbol	
Positive polarity		Variable resistor	
Negative polarity		Resistor with sliding contact	
Variability		Potentiometer with moving contact	
Pre-set adjustment		Heating element	
Primary or secondary cell		Capacitor, general symbol	
Battery of primary or secondary cells		Polarized capacitor	
Alternative symbol		Voltage-dependent polarized	
Earth or ground		Capacitor with pre-set adjustment	
Signal lamp, general symbol		Inductor, winding, coil, choke	
Electric bell		Inductor with magnetic core	
Electric buzzer		Transformer with magnetic core	
Crossing of conductors with no electrical connection		Ammeter	
Junction of conductors. A dot may be put at the intersection.		Voltmeter	
Double junction of conductors. A dot may be put at the intersection.		Wattmeter	
Plug (male)		Watt-hour meter	
Socket (female)			



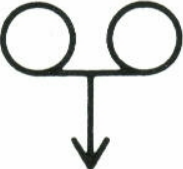
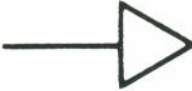








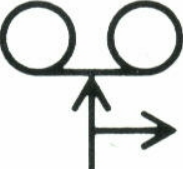




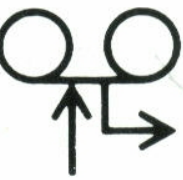

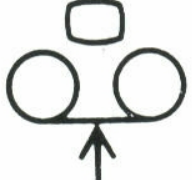

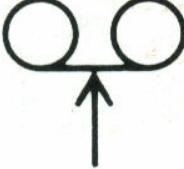
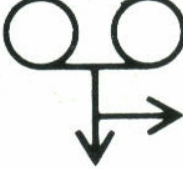


7.1 (concluded)

Description	Symbol	Description	Symbol	
Galvanometer		Photodiode		
Oscilloscope		Light-emitting diode, LED		
Motor		Tunnel diode		
Generator		PNP transistor		
Microphone		NPN transistor with collector connected to envelope		
Earphone (receiver)		Amplifier, simplified form		
Transducer head, general symbol		Laser		
Loudspeaker		Binary logic elements	AND	
Electric clock			OR	
Make contact, normally open. This symbol is also used as the general symbol for a switch			Logic identity	
			Exclusive OR	
			NOT (negator)	
			NAND	
Relay			NOR	
Semiconductor diode, general symbol				

17 Symbols for use on electrical equipment

				
Positioning of cell	Stand-by	Movement in both directions	Bass control	Colour television monitor
				
AC/DC converter, rectifier, substitute power supply	On/off (push - push)	Input	Tuner; radio receiver	Television receiver
				
Variability	On/off (push-button)	Output	Tuning	Focus
				
On (power)	Lamp; lighting; illumination	Dangerous voltage	Colour (qualifying symbol)	Brightness; brilliance
				
Off (power)	Bell	Treble control	Television monitor	Contrast

17 (concluded)

				
Colour saturation	Stereophonic	Play-back or reading from tape	Normal run	Foot switch
				
Hue	Balance	Erasing from tape	Fast run	Colour television camera
				
Horizontal picture shift	Music	Monitoring at the input during recording on tape	Stop (of action)	Video tape recorder
				
Vertical picture shift	Stereophonic pick-up for disc records	Monitoring from tape after recording on tape	Pause; interruption	Video recording
				
Monophonic	Recording on tape	Monitoring during play-back or reading from tape	Rejection	Electric shaver outlet

15 Symbols for data processing flow charts

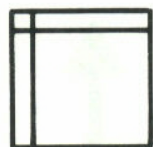
Data symbols



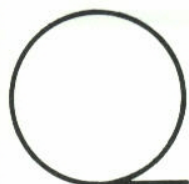
Data, medium unspecified



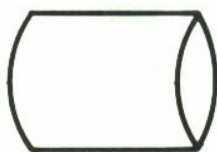
Stored data suitable for processing, medium unspecified



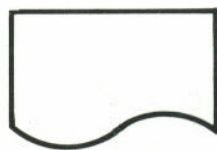
Data, medium internal storage



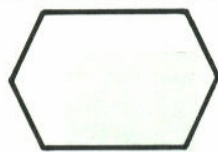
Sequentially accessible data, the medium being, for example, magnetic tape, tape cartridge, tape cassette



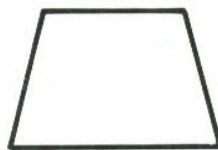
Directly accessible data, the medium being, for example, magnetic disk, drum, flexible disk



Human readable data, the medium being, for example, printed output, microfilm, data entry forms, optical character recognition document



Manually input data, the medium being, for example, on-line keyboard, switch settings, light pen, bar-code wand

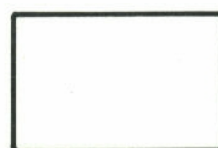


Data displayed for human use, by, for example, video screens, on-line indicators

Process symbols



Any kind of processing function, for example, operation resulting in a change of value, form or location of information



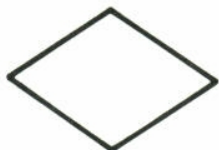
Predefined process consisting of one or more operations or program steps specified elsewhere, for example, a subroutine, a module



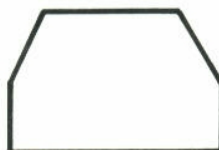
Any process performed manually



Preparation process which modifies an instruction so that a subsequent activity is affected, for example, setting a switch or initializing a routine.



Decision or switching type of function with a single entry but a number of alternative exits, only one of which is activated after evaluation of the condition shown in the symbol



Loop limit in which the two parts of the symbol represent the beginning and end of a loop

Line symbols



A line represents the flow of data or control. Solid or open arrowheads can be added to indicate direction of flow



Symbol for transfer of control from one process to another, the type of central transfer, for example, call, fetch, event, being named inside the symbol



Data transfer by telecommunication link

Special symbols



Connector, that is, an exit to, or entry from, another part of the same flowchart



Terminator, that is, an exit to, or an entry from, the outside environment



Annotation, used to add explanatory notes by connecting the dashed line to a symbol or to an envelope of dashed lines surrounding a group of symbols






6 Selected symbols for heating installations and piping systems

Description	Symbol	Description	Symbol
Crossing (unconnected) of pipelines		Positive displacement pump (reciprocating) electric motor driven	
Junction (connected) of pipelines		Compressor: reciprocating (basic symbol) with mechanical linkage	
Pipe in front of (or above) section		Fired heater/boiler (basic symbol)	
View of pipe perpendicular to the plane of the drawing		Tank heater	
Indication of fall (or rise)		Electrical heater (basic symbol)	
In-line (any type or pattern) valve		Oil burner	
3-way valve		Gas burner	
Trap drain, e.g. condensate release		Radiator	
Trapped vent, e.g. automatic air valve		Towel rail	
Meter (any type) NOTE. Letter F indicates flow measurement		Heater/cooler unit, downward type Example: heater unit NOTE. Annotate to indicate function, as follows. Heater: H or + Cooler: C or -	
Open tank (basic symbol)			
Rotary pump, fan or simple compressor (basic symbol)			
Centrifugal pump or centrifugal fan			

12.2 Prohibition signs

Safety sign	Meaning
	No smoking
	Smoking and naked flames prohibited
	Pedestrians prohibited
	Do not extinguish with water
	Not drinking water (that is, do not drink)

12.3 Mandatory signs


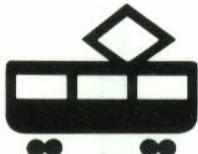




Safety sign	Meaning
	Eye protection must be worn
	Head protection must be worn
	Hearing protection must be worn
	Foot protection must be worn
	Hand protection must be worn

11 Public information symbols

11.1(a) Standard image content

No.	Name of symbol	Standard image content	Function
1	Direction	Arrow with Belgian head, with angle at apex of between 84° and 86°	To indicate direction
2	Smoking allowed	Cigarette with smoke in side view	To signify where smoking is allowed
3	Helicopter	Helicopter in side view	To signify a transport facility by helicopter
4	Tram (streetcar)	Electric tram (streetcar) in side view	To signify a transport facility by tram
5	Bus	Bus in side view	To signify a transport facility by bus
6	Male, man	Male figure	To signify a facility reserved for the male sex
7	Female	Female figure	To signify a facility reserved for the female sex
8	Telephone	Telephone receiver in profile	To signify communication facilities by telephone
9	Gasoline station	Gasoline pump with hose	To signify the availability of motor fuel
10	Drinking water (on tap)	Tap above glass containing water indicated by wavy lines	To signify drinkable tap water
11	Stairs	a) Where no direction is required: staircase with two human figures, one walking up, one walking down b) For staircases restricted to 'down' traffic: staircase with one figure walking down c) For staircases restricted to 'up' traffic: staircase with one figure walking up	To signify access facilities via a fixed staircase (does not cover the function 'Escalator')
12	Taxi	Front view of taxi cab with 'TAXI' incorporated into the symbol NOTE. For small-scale reproduction, the word 'TAXI' may be omitted.	To signify a transport facility by taxi
13	Waiting room	Two persons in side view with a clock overhead	To signify areas where people may wait, in stations or hospitals

11.1(b) Guide-line examples simplified for small-scale reproduction

					
(3)	(4)	(5)	(8)	(9)	(12)

11.1(c) Guide-line examples of public information symbols

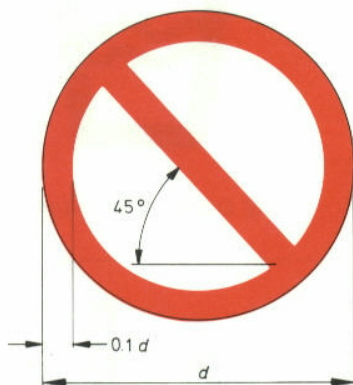
 <p>(1) Direction</p>	 <p>(6) Male, man</p>	 <p>(10) Drinking water (on tap)</p>
 <p>(2) Smoking allowed</p>	 <p>(7) Female</p>	 <p>(11) Stairs</p>
 <p>(3) Helicopter</p>	 <p>(8) Telephone</p>	 <p>(12) Taxi</p>
 <p>(4) Tram (streetcar)</p>	 <p>(9) Gasoline station</p>	 <p>(13) Waiting room</p>
 <p>(5) Bus</p>		

12.1 Safety signs



Danger identification

Used to identify the perimeter of a hazard.
Stripes are fluorescent orange-red or yellow and black in either case



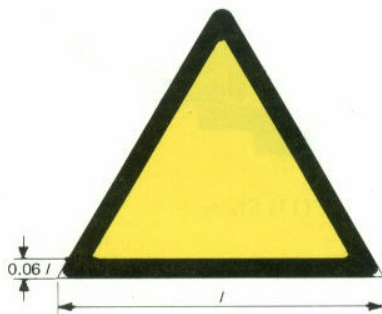
Prohibition signs

Background colour shall be white. Circular band and cross bar shall be red.

The symbol shall be black and placed centrally on the background, and shall not obliterate the cross bar.

Red shall cover at least 35 % of the area of the safety sign.

NOTE. Any text is to be put on a supplementary sign.

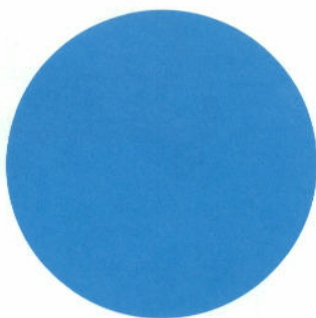


Warning signs

Background colour shall be yellow.

Triangular band shall be black.

The symbol or text shall be black and placed centrally on the background. Yellow shall cover at least 50 % of the area of the safety sign.



Mandatory signs

Background colour shall be blue.

The symbol or text shall be white and placed centrally on the background.

Blue shall cover at least 50 % of the area of the safety sign.



Safe condition signs

Background colour shall be green.

The symbol or text shall be white. The shape of the sign shall be oblong or square as necessary to accommodate the symbol or text.

Green shall cover at least 50 % of the area of the safety sign.

Examples:



First aid



Indication of direction

12.4 Warning signs

Safety sign	Meaning	Safety sign	Meaning
	Caution, risk of fire		Caution, overhead load
	Caution, risk of explosion		Caution, industrial trucks
	Caution, toxic hazard		Caution, risk of electric shock
	Caution, corrosive substance		General warning, caution, risk of danger
	Caution, risk of ionizing radiation		Caution, laser beam