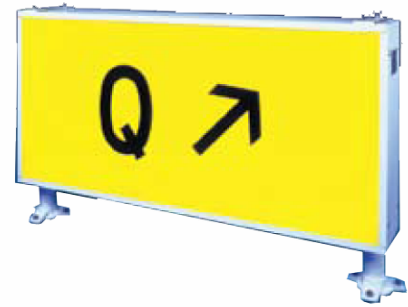


# GUIDANCE SIGNS

## PVH

### Internally Illuminated Guidance Signs with Halogen Lamps



#### Compliance with Standards

**ICAO:** Annex 14, Volume I, para 5.4 and Appendix 4.  
**CENELEC:** pr ENV 50235/1996.  
**NATO:** STANAG 3316  
Various national standards.

#### Uses

On Civil Aerodromes:

- Mandatory instruction signs
- Information signs
- VOR check-point sign

On Military Airbases: as above, plus:

- Runway distance-to-go signs
- Arrestor barrier signs.

#### Features

- Reliable start and operation from  $-55^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$ .
- High power factor, non-distorting load.
- Modular construction : commonality of mechanical and electrical components throughout entire sign range.
- 48 W – 1500 hours cold mirror prefocus halogen lamp, common to all sizes.
- Good color contrast and sign legibility in daytime and night time conditions.
- No internal reflectors to achieve photometric requirements.
- Multi-lamp design and the use of lamp cut-outs safeguards signal availability in case of partial lamp failure.
- Removable top panel for easy relamping.
- Message symbols obtained by self adhesive film, vacuum applied on panel inner face.
- Seamless message panels (up to 3.7 m long) made of long life, self-extinguishing polycarbonate; U.V., abrasion and high temperature resistant.
- 4 mm panel thickness exceeds industry standards for improved resistance to high winds and jet blast.
- 6.6 A series power supply, 50/60 Hz.

- Low mass, frangible yet rigid construction based on aluminum extrusions and panels.
- Frangibility according to ICAO or FAA requirements, withstanding wind velocities up to 322 km/h.
- IP34 protection class (IP44 in option)

#### Materials and Finish

Corrosion-proof, maintenance-free concept.

- Body: aluminum extrusions, panels, corner leg supports and mounting legs.
- Legend panel: long-life polycarbonate, UV- and abrasion-resistant, self-extinguishing.
- Plain stainless steel hardware.
- Baked polyester powder coating, color: white RAL 9016.

#### Sign Selection

Extensive guidance material on the selection and the definition of the length of signs is provided in chapter 5.4 and Appendix 4 of ICAO Annex 14.

Sign sizes are governed by:

1. the runway code they are associated to (for their height)
2. their type: Mandatory or Information
3. the message length.

**Mandatory signs** are used to identify a location beyond which an authorization from the tower is required to proceed. They include: road-, taxi- and Cat I, II and III holding position signs, runway designation signs and "NO ENTRY" signs. They have white legends on red background.

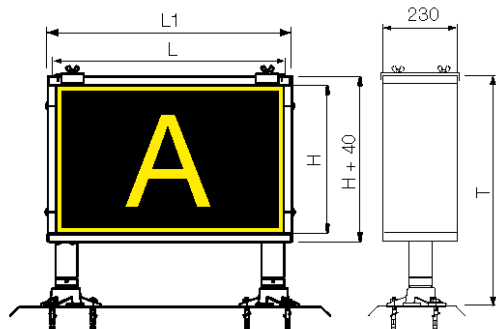
**Information signs** are all other signs (except runway distance signs) providing information on routing (direction or destination) and on location. Information signs have black lettering on yellow background, except location signs.

**Location signs** have a yellow legend on a black background. The message on stand-alone location signs is surrounded by a yellow border.

# GUIDANCE SIGNS

## PVH

### Dimensions



L (mm)	700	900	1100	1300	1500	1700	1900
L1 (mm)	748	948	1148	1349	1550	1750	1951
Qty of lamps	3	4	4	5	6	8	8

L (mm)	2100	2300	2500	2700	2900	3300	3700
L1 (mm)	2151	2351	2552	2752	2953	3352	3752
Qty of lamps	10	10	10	12	12	14	16

H = 400, 600 or 800 mm  
 Symbol height = H/2  
 T = 620, 820 or 1020 mm.

*Outline Dimensions (mm)*

### Standard Options

#### Bird deterrent

These polycarbonate strips with bayonet spikes, to deter the birds from sitting on the PVH, are located on the sign cover. An adhesive tape on the bottom of the strips and the provision for joining several strips, makes them easy to install.

#### Safety switch

This switch disconnects the power supply from the sign to allow safe maintenance.

#### Safety ropes

ADB Safegate strongly recommends the use of safety ropes in order to prevent signs flying around in case of accidental blow down due to exceptional wind gusts or jet blast.

### Photometric Performances (Typical Values)

**Lamp(s):** 48 W, cold-mirror prefocus halogen, 1500 hours rated at full intensity

#### Average sign luminance

Calculated as per ICAO Annex 14, Appendix 4, Fig. 4.1.

Color	Luminance (cd/m <sup>2</sup> )	Min. ICAO requirement RVR <800 m
Red	62	30
Yellow	225	150
White	320	300

- Red/White ratio: 1/7.1 (Specified :1/5 < Ratio < 1/10 )
- Uniformity factor: 2.5/ 1 (Specified : <5/1) between maximum and minimum values over whole sign area.

#### Additional information

Colorimetry of sign in night condition

According to CIE no 39-2 (TC – 1,6) 1983 Fig. 4

Color	x	y
Red	0.68849	0.30517
Yellow	0.53966	0.45563
White	0.41179	0.40003

Illuminant : internal source

CIE 1931 2. Standard Colorimetric Observer.

## Power Consumption

Qty of lamps	Series supply – 2.8 to 6.6 A	
	ADB RST series transformers (W)	CCR load (VA)
1	150	150
4	200	200
5	300	250
6	300	300
8	2 x 200	400
10	1 x 300	500
	1 x 200	
12	2 x 300	600
14	1 x 300	700
	2 x 200	
16	1 x 200	800
	2 x 300	

## Electrical Supply

Series: 2.8 to 6.6 A;  
through (a) suitable series transformer(s) (Fig.6).  
2-core cable (length: 1 m) with FAA L-823, 2-pole plug  
supplied with the PVH.

Provision for earthing.

## Ordering Code

## Face Height (H)

04 = 400 mm

06 = 600 mm

08 = 800 mm

## Power Supply

4 = Series circuit 6.6

## Length (L)

07 = 700 mm

09 = 900 mm

11 = 1100 mm

13 = 1300 mm

15 = 1500 mm

17 = 1700 mm

19 = 1900 mm

21 = 2100 mm

23 = 2300 mm

29 = 2900 mm

33 = 3300 mm

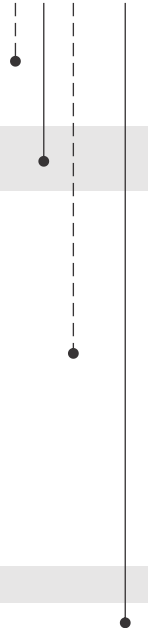
37 = 3700 mm

0

S = Special requirements to be specified in full text

N.B: Each ordering code shall be completed with the legend panels and colors

PVH 06 4 23 0 S



## GUIDANCE SIGNS

### PVH

#### Packing Data

Length code	H = 400			H = 600			H = 800		
	Net Weight (kg)	Packing sizes (mm)	Gross Weight (kg)	Net Weight (kg)	Packing sizes (mm)	Gross Weight (kg)	Net Weight (kg)	Packing sizes (mm)	Gross Weight (kg)
07	19	350 × 630 × 800	24	24	350 × 830 × 800	29	29	350 × 1030 × 800	34
09	21	350 × 630 × 1000	30	26	350 × 830 × 1000	35	31	350 × 1030 × 1000	40
11	25	350 × 630 × 1200	34	30	350 × 830 × 1200	39	35	350 × 1030 × 1200	44
13	29	350 × 630 × 1400	38	34	350 × 830 × 1400	43	39	350 × 1030 × 1400	48
15	34	350 × 630 × 1600	43	39	350 × 830 × 1600	48	44	350 × 1030 × 1600	53
17	40	350 × 630 × 1800	50	47	350 × 830 × 1800	57	56	350 × 1030 × 1800	66
19	42	350 × 630 × 2000	54	51	350 × 830 × 2000	61	58	350 × 1030 × 2000	70
21	44	350 × 630 × 2200	58	52	350 × 830 × 2200	65	60	350 × 1030 × 2200	74
23	49	350 × 630 × 2400	65	59	350 × 830 × 2400	75	69	350 × 1030 × 2400	85
25	53	350 × 630 × 2600	70	63	350 × 830 × 2600	80	73	350 × 1030 × 2600	90
27	58	350 × 630 × 2800	75	68	350 × 830 × 2800	85	78	350 × 1030 × 2800	95
29	63	350 × 630 × 3000	80	73	350 × 830 × 3000	90	83	350 × 1030 × 3000	100
33	69	350 × 630 × 3400	87	79	350 × 830 × 3400	97	89	350 × 1030 × 3400	107
37	79	350 × 630 × 3800	97	89	350 × 830 × 3800	107	99	350 × 1030 × 3800	117

**Note:** N.B. Panel height 1200 mm available on request.

[www.adbsafegate.com](http://www.adbsafegate.com)

Product specifications may be subject to change, and specifications listed here are not binding. Confirm current specifications at time of order.