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GENERAL PRODUCT SPECIFICATIONS

Vitrex System 1000 Utility School Chalk Boards

(Document Reference CC/GPS/BOARD/01 Rev. 1 April 2010)

(E&OE - Document and content subject to change without prior notice)

Despite attempts to produce or use different material surfaces, Vitrex System 1000 vitreous enamel (VE) steel chalk boards remain to date the optimum, most durable and cost effective writing surface available. With a proven track record of over fifty (50) years across Southern Africa, this type of chalk board can be specified and used with complete confidence in any school environment.

Please note that the use of *italics* in the text indicates the need for an appropriate selection to be made by the Specifier:

“Standard Vitrex System 1000 vitreous enamel steel utility school chalk boards, to be manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein.

Chalk Boards supplied complete with *Aluminium Chalk Rail (ACR)* / *Permanent Chalk Rail (PCR)* ⁽¹⁾ and necessary fixing components.

Swing Leaves to consist of double sided enamel steel panels, fixed within epoxy coated tubular steel sections, fitted with one pair of rubber buffers to each side and secured in position by means of bespoke hinged brackets (top) and a pivot pins (bottom).

Enamel steel chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM 1797/2). Where specified, all screening ⁽²⁾ is to be white and permanent in nature, forming an integral part of the enamel surface.

The chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

The vitreous enamelled steel writing surface is to be guaranteed to perform specifically to the functions for which it was intended, and to remain functionally unchanged for a period of twenty (20) years, under the terms of the general Vitrex System 1000 Guarantee.”



Member of the Institute
of Vitreous Enamellers (IVE)

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Quality Management System



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(A) Specification Notes:

Refer to the numbered references in the specification text above.

- (1) Two alternative chalk rail options are offered:
 - i. **ACR** - Standard, extruded aluminium chalk rail fixed to the boards during installation. This rail enhances the overall appearance of the boards.
 - ii. **PCR** - Permanent chalk rail which is manufactured as an integral part of the board, providing a more economical and secure solution, as the chalk rail cannot be removed.

- (2) A variety of teaching aids can be permanently screened into the enamel surface as part of the manufacturing process of the chalk boards: lines, graph squares, music lines, ledger, journals and cash books. Refer to Item (C.4) hereunder for further details.

(B) Typical Specifications:

Example 1:

Vitrex System 1000 standard vitreous enamel steel wall mounted school chalk board, overall size 1140 mm high x 2400 mm long, reference (1009), complete with Permanent Chalk Rail (PCR), fixing components and secured in position to brickwork.

Unit of Measure = No.

Example 2:

Vitrex System 1000 standard vitreous enamel steel wall mounted school chalk board, overall size 900 mm high x 1200 mm long, reference (1002), including white 50 x 50 mm squares, reference (1021), permanently screened on, complete with Aluminium Chalk Rail (ACR), fixing components and secured in position to brickwork.

Unit of Measure = No.

Example 3:

Vitrex System 1000 standard vitreous enamel steel wall mounted school chalk board, overall size 1140 mm high x 3600 mm long, consisting of two standard wall mounted boards size 1140 mm high x 1800 mm long, reference (1008). Right hand board to have white lines spaced at 50 mm centres, reference (1025), permanently screened on. Boards complete with continuous Aluminium Chalk Rail (ACR), fixing components and secured in position to brickwork.

Unit of Measure = No.

Example 4:

Vitrex System 1000 folding type vitreous enamel steel wall mounted school chalk board, overall size 1140 mm high x 3600 mm long, reference (1019), consisting of one fixed centre board size 1140 mm high x 1800 mm long, two fixed side boards each size 1140 mm high x 900 mm long and two swing leaves each size 1140 mm high x 900 mm long. One swing leaf (LH) including white 50 x 50 mm squares, reference (1021), permanently screened on to the rear face and the other swing leaf (RH) to have white lines spaced at 50 mm centres, reference (1025), permanently screened on to rear face. Board supplied complete with continuous Aluminium Chalk Rail (ACR), fixing components and secured in position to brickwork.

Unit of Measure = No.

(C) Schedule of System 1000 Boards and Screening:

(C.1) Standard Wall Mounted Chalk Boards:

Vitrex Code	Height (mm)	Width (mm)
1001	900	900
1002	900	1200
1003	900	1800
1004	900	2400
1005	900	2700
1006	1140	900
1007	1140	1200
1008	1140	1800
1009	1140	2400
1010	1140	2700

(C.2) Swing Leaves:

Code	Height (mm)	Width (mm)
1012	900	900
1013	900	1200
1014	1140	900
1015	1140	1200

(C.3) Folding Type Wall Mounted Chalk Boards:

Code	Board Composition	Height (mm)	Width (mm)
1016	<i>Overall Size</i>	<i>900</i>	<i>3600</i>
(5 Piece)	Consisting of :		
	1 x Centre Board	900	1800
	2 x Side Boards	900	900
	2 x Swing Leaves	900	900
1017	<i>Overall Size</i>	<i>900</i>	<i>4800</i>
(5 Piece)	Consisting of :		
	1 x Centre Board	900	2400
	2 x Side Boards	900	1200
	2 x Swing Leaves	900	1200
1018	<i>Overall Size</i>	<i>1140</i>	<i>3600</i>
(4 Piece)	Consisting of :		
	2 x Side Boards	1140	900
	2 x Swing Leaves	1140	900
1019	<i>Overall Size</i>	<i>1140</i>	<i>3600</i>
(5 Piece)	Consisting of :		
	1 x Centre Board	1140	1800
	2 x Side Boards	1140	900
	2 x Swing Leaves	1140	900

1020	<i>Overall Size</i>	1140	4800
(5 Piece)	Consisting of :		
	1 x Centre Board	1140	2400
	2 x Side Boards	1140	1200
	2 x Swing Leaves	1140	1200

(C.4) Enamel Screening (Permanent):

Code	Screen Type	Size (mm)
On Boards up to 1200 mm wide and on Swing Leaves:		
1021	Squares	50 x 50
1022	Lines	50
1023	Music Staves	100
1024	Lines for Ledger, Journal, Cash Book	
On Boards over 1200 mm wide:		
1025	Squares	50 x 50
1026	Lines	50
1027	Music Staves	100
1028	Lines for Ledger, Journal, Cash Book	

(D) Technical Notes:

- a. Alternative painted steel writing surfaces, often categorized alongside vitreous enamel steel by a number of other manufacturers under the generic name of “*magnetic surfaces*”, and the high pressure density laminate (HPDL Formica) writing surfaces, also referred to as a “*non-magnetic*”, although more economical in the short term, cannot match vitreous enamel steel, in terms of material construction, properties and ultimate performance.
- b. Furthermore, the use of these alternative surfaces is not recommended, particularly in high use areas (such as teaching institutions), as these chalk board surfaces are susceptible to “Loss of Texture” - the surface becomes smooth, with consequent reduced writing ability and leading to the necessity to replace the boards in a relatively short period of time. Please also refer to the Vitrex Document Ref. CC/TN/SURF/01 “Technical Notes: Vitreous Enamel (VE) Steel Surface - vs - HPDL Formica (Non-magnetic) and Painted Steel (Magnetic) Surfaces”.
- c. Hinged Boards allow for the logical separation of subjects.
- d. Fixings suitable for masonry walls are supplied as a standard. Should special fixings be required (e.g. drywall), this should be noted at time of specification or requested at time of order.
- e. Our staff and Agents remain available to address any queries, provide project specific recommendations as well as to assist with selecting the appropriate System 1000 Chalk Board to suit your application.