CANADIAN BLACKBOARD COMPANY LTD

SPECIFICATIONS FOR ARCHITECTS

SECTION 10
WRITING BOARDS

SURFACE THERMOSETTING ACRYLIC STEEL
PORCELAIN STEEL

PART 1 - GENERAL

1.1 RELATED WORK

.1	*Strapping & Grounds*	*Section 06100* *Section 06101*
.2	*Carpentry*	*Section 06200*
.3	*Finishing of the molding on site.*	*Section 09900*
.4	*Tack boards*	*Section 10*

1.2 SAMPLES

.1 Submit two 300MM x 300MM samples of each type of writing board and one 300mm long sample of each type of trim.

1.3 SHOP DRAWINGS

.1 Submit shop drawings in accordance with section 01340 concerning shop drawings, technical data and sample.

.2 Indicate location, type, size panel arrangement, backing, hardware, anchor or mounting details, frame or trim and accessories.

1.4 MAINTENANCE INSTRUCTIONS

.1 Provide instructions regarding use and maintenance of the writing Boards, and include them with Operating and Maintenance Manual specified in Section 01730.

.2 Affix removable maintenance instruction labels to all writing boards.

1.5 WARRANTY

.1 The supplier must provide the owner with a written signed warranty in the owner's name, specifying that under conditions of normal use the surface of the board is guaranteed against fading, peeling, cracking, blistering and, it will not become smooth or shiny or unusable for a period of fifty (50) years for the chalkboards, and five (5) years for the whiteboards. This warranty is effective as of the signing date of the final certificate upon completion of the work.

.2 For porcelain surfaces (chalkboard or whiteboard), the period of warranty is fifty (50) years.

PART 2 – PRODUCTS

2.1 BASIC MATERIALS

.1 Galvanized steel sheet : .400 mm thick, commercial grade in accordance with ASTM, Standard A526-80, with grade Z275 zinc coating.

.2 Laminating adhesive for panels: to manufacturer's standards.

.3 Joint reinforcement for boards over 12 feet concealed mechanical jointing system to provide straight, rigid, continuously supported, tight butt, flush joints with hairline appearance at surface.

.4 Anchor clips, brackets and fasteners : concealed type, as per the architect's recommendations.

2.2 MATERIAL FOR

SURFACE

.1 Galvanized steel sheet, .400 mm thick, commercial grade in accordance with ASTM Standard A 526-80 with grade Z275 zinc coating, cleaned and pre-treated to ensure maximum adherence of scientifically formulated thermosetting acrylic enamel.

2.3 WRITING BOARD CORE

.1 Impregnated sound-absorbing fiberboard, 11 mm thick, tarred on both sides.

2.4 WRITING BOARD MANUFACTURE

.1 Writing board panels must be manufactured to sizes indicated.

.2 The boards, factory-laminated under 350 lbs pressure per square inch, consisting of a .400 mm thick facing sheet, laminated onto a 11 mm thick tarred frame and strengthened by a 0.5 mm thick galvanized steel backing sheet, such as that manufactured by Canadian Blackboard Co. Ltd. or a comparable manufacturer.

2.5 WRITING BOARD FINISHES

.1 High-performance surface Lauzonite formula, the finish consists of a steel sheet coated 4 layers of specially formulated resin with carborundum applied using equipment and baked at a high temperature. The resole is a smooth, easy-to-clean flattened durable surface that ensures full, well-defined chalk lines visible from a distance without any reflexion. The color of the board, selected by the architect will be even and will not fade or change over time.

Choice of color :
Green ( )
Black ( )
Slate ( )

.2 The boards will be produced by a manufacturer having at least 5 years proven satisfactory experience in the manufacture of this product. The minimal properties and performance of the writing Surfaces are as follows :

.1 Surface finish must be suitable for chalk use : the architect will select color. Location to be indicated on the architect's drawings or in the specifications.

.2 Surface finish must be suitable for felt markers (dry-erasing type). For choice of colors, see list. (Location to be indicated on the architects drawings or specifications.

.3 Must be unaffected by solvents and reagents such as benzene, gasoline, acetone xylol, 10% caustic soda and lacquer thinners.

.4 Must resist impact of 180 lbs sq. in. (Gardner Impact Teter).

.5 Must withstand 180 degree measured using bending on a metal substrate without cracking or loss of bond.

.6 Must pass adherence test consisting of scratches 0.8mm apart to the depth of the substrate, followed by cellulose tape operation and quick removal, without any damage to adjacent surfaces.

.7 Must be usable on a continuous basis, and not exceed the following results when subject to a factory test consisting of 100 000 alternating back-and-forth strokes of two chalkboards erasers, used in tandem and exerting 2.25 kb pressure with chalk stick placed between them and exerting 225g of pressure.

2.6 WRITING BOARD FINISHES (Felt Board)

.1 Finish with a surface composed of clear layers of enamel (porcelaine) applied on metal sheet and baked at very hot temperature.

2.7 TRIM AND FRAMING

.1 Extruded Aluminum : Aluminum Association Alloy AA 60/63-T5, minimal thickness of 1.5 mm.

.2 Extruding vinyl : rigid PVC/ mainly in black color, with a minimal wall thickness of 1 mm.

.3 Writing board trim and framing must include perimeter trim or frame with a rail for hooks equipped with a vinyl trim, and another rail with closed casting at the ends to ensure.

Check off desired molding.
2000 series ( )
3000 series ( )
5000 series ( )
8000 series ( )

.4 check off the desired accessories.

Plain hooks No.21 ( ) by ( ) linear foot
Clip hooks No.22 ( ) by ( ) linear foot
Clip hooks No.42 ( ) by ( ) linear foot (8000 series only)
Map hooks No.23 ( ) by ( ) linear foot

2.8 ALUMINUM TRIM FINISHES

.1 The exposed surfaces of all aluminum components must be finished in accordance with Aluminum Association Designation System for Aluminum Finish-1980.

.1 Clear anodized finish : designation AA-C10 C22 A31

.2 The appearance and properties of anodized finishes, designated by the Aluminum Association are architectural finish as grades 1 and 2, architectural finished, or as protective or ornamental finishes.

2.9 FACTORY – INSTALLED TRIM

.1 Factory install trim on panels, ensure hairline it of miters and intersecting joints, free of rough edges. Use concealed brackets to reinforce panels, and make sure joints are tight and flush. Supplementary joints may not be added without approval. No exposed fasteners permitted.

.2 Overlap trim 6 mm onto board panels.

.3 Assemblies that are too large for shipment to side in one piece, must be factory-fit, then dissembled for delivery and reassembled on site.

PART 3- EXECUTION

3.1 FIELD INSTALLATION

.1 Install the writing boards level and flush in accordance with the manufacturer's instructions in order to provide a rigid, secure writing surface.

.2 For mechanical attachment :

.1 A concrete or solid masonry surface use lag screws and expansion bolts or screws and fiber plugs as required handling anticipated stresses.

.2 To hollow masonry surface use toggle bolts or equivalent.

.3 To a wood or sheet metal surface use screws. Secure into framing members in stud walls.

3.2 CLEANING

.1 Clean surfaces after installation according to the manufacturers recommended cleaning procedures.