TECHNICAL BULLETIN

STRUCTURAL BOARD ASSOCIATION

Representing the OSB Industry

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MARKING OF OSB AND WAFERBOARD PANELS

Oriented strand board (OSB) and waferboard panels manufactured to Canadian Standard Association (CSA) Standard CSA O437.0 **OSB and Waferboard** have long been recognized in the National Building Code of Canada and the individual provincial Building Codes. The latest NBCC (2005 Edition) also recognizes a group of panels meeting the requirements of the performance standard CSA O325.0 **Construction Sheathing** as being acceptable alternatives to panels manufactured to CSA O437.0. The performance standard system of panel requirement has been used in the US for over 20 years. Similar panels are being manufactured for US markets, conforming to US DOC PS 2 **Performance Standard for Wood-Based Structural-Use Panels**.

Product Uses

Oriented strand board (OSB) and waferboard are bonded with exterior grade waterproof and boilproof adhesive and are primarily used as structural sheathing panels in residential commercial, and industrial construction. They are increasingly being used in renovation and do-it-yourself projects.

Panel Marks (Canadian Markings)

Panels meeting CSA O325.0 – This standard requires that panels meeting this standard must be clearly marked with:

1. The designation CSA O325.0
2. The panel mark denoting the span rating and end use
3. The nominal thickness
4. The certification agency logo

   The building code also requires that the panels bear the designation “EXT BOND”, or “EXTERIOR BOND”

CONSTRUCTION SHEATHING
EXTERIOR BOND
MILL 000
CSA O325.0
1R24/2F16
12.5 mm

CERTIFICATION AGENCY XYZ

REJECT PANELS – All panels which do not meet the requirements of CSA O325.0 will be marked **“REJECT – ALL OTHER MARKS VOID”**. This mark will be placed adjacent to the original grade mark if the panel has been previously marked. Reject panels are **NOT INTENDED FOR STRUCTURAL USE**. Contact the manufacturer for panel specifications prior to purchasing.

NOTE – The CSA standards states that Reject panels are **NOT SUITABLE FOR BUILDING CONSTRUCTION**.

Other Marks

The **CSA O437.0 Standard** requires that all OSB and waferboard panels made in conformance with this standard shall be clearly marked with:

1. The manufacturer’s name or mill number
2. The designation CSA O437.0
3. The words Exterior Bond or EXT. BOND
4. The appropriate grade mark R-1, O-1, O-2
5. The nominal thickness in mm
6. The direction of orientation if O-1 or O-2 grade
7. THIS SIDE DOWN on the back of T and G panels

MANUFACTURER’S
NAME OR LOGO
EXTERIOR BOND
MILL 000
CSA O437.0
EXTERIOR BOND
R-1 OR O-1 OR O-2
12.5 MM

MADE IN CANADA

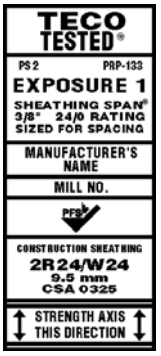
NOTE: Panels for export are marked MADE IN CANADA
The Structural Board Association logo may also appear on the panel (above other marks) or on the bundles.

Shop Panels – These panels meet the requirements of CSA-O437.0 except that they will have a limited number of manufacturing defects on the edge or ends. These defects are: edge or end damage, small voids, major impressions, sanding defects or broken corners. They are limited to:
1. 150mm (6") of the ends or edges of the panel, or
2. 300mm (12") to one end or one edge

Shop panels marked by member mills of the Structural Board Association have 2.6m^2 (28ft^2) of usable area, and are suitable for construction or industrial uses when cut up and he defective areas eliminated.

All panels graded as Shop will have the words SHOP PANEL applied adjacent to the other panel marks and two colored vertical lines on the two opposing corners.

Panels Meeting PS 2 (US Markings)
The certification agency stamp will show the following information for panel identification:
1. The span rating
2. The nominal thickness
3. The exposure durability
4. The grade
5. The manufacturer's name or mill number
6. The certification agency logo
7. The symbol PS 2
8. The quality assurance report number
9. The direction of surface strand alignment



The following table shows the relationship between panel mark or span rating and nominal thickness.

	Panel Mark (CSA-O325)	Nominal Thickness [1] (CSA-O437)		Span Rating [2] (PS2)
Application		**Metric (mm)**	**Imperial (in.)**	
Walls	W16 or 2R16	6.0, 7.5, 9.5	1/4, 5/16, 3/8	16/0
	W20 or 2R20	7.5, 9.5, 11.0	5/16, 3/8, 7/16	20/0
	W24 or 2R24	9.5, 11.0, 12.0, 12.5	3/8, 7/16, 15/32, 1/2	24/0
	1R24	11.0, 12.0, 12.5	7/16, 15/35, 1/2	24/16
Roofs	2R16	6.0, 7.5, 9.5	1/4, 5/16, 3/8	16/0
	2R20	7.5, 9.5, 11.0	5/16, 3/8, 7/16	20/0
	2R24	9.5, 11.0, 12.0, 12.5	3/8, 7/16, 15/32, 1/2	24/0
	1R24	11.0, 12.0, 12.5	7/16, 15/32, 1/2	24/16
	1R32	12.0, 12.5, 15.0, 16.0	15/32, 1/2, 19/32, 5/8	32/16
	1R40	15.0, 18.0, 19.0	19/32, 23/32, 3/4	40/20
	1R48	18.0, 19.0, 22.0	23/32, 3/4, 7/8	48/24
	1R54	19.0, 22.0, 25.0	3/4, 7/8, 1	54/32
	1R60	25.0, 28.5	1, 1-1/8	60/48
Floors	2F16	12.0, 12.5, 15.0, 16.0	15/32, 1/2, 19/32, 5/8	32/16
	1F16	15.0, 16.0	19/32, 5/8	16 o.c.
	2F20	15.0, 16.0, 18.0, 19.0	19/32, 5/8, 23/32, 3/4	40/20
	1F20	15.0, 16.0	19/32, 5/8	20 o.c.
	2F24	18.0, 19.0, 22.0	23/32, 3/4, 7/8	48/24
	1F24	18.0, 19.0	23/32, 3/4	24 o.c.
	2F32	19.0, 22.0, 25.0	3/4, 7/8, 1	54/32
	1F32	22.0, 25.0	7/8, 1	32 o.c.
	2F48	25.0, 28.5	1, 1-1/8	60/48
	1F48	28.5	1-1/8	48 o.c.

1. The first thickness listed is the predominant thickness for each span rating. The other nominal thicknesses are alternative thicknesses. Check with suppliers for availability.
2. US PS 2 span ratings are equivalent to CSA-O325 panel marks.