

TEST REPORT OF PLYWOOD AS PER IS 4990:2011

NATURE OF THE SAMPLE : CONCRETE SHUTTERING FILM FACED
 SIZE OF THE SAMPLE : 2440X1220X18MM
 GRADE : WBP
 BRAND : PLYMARC DENSIFIED

| SI: NO | CLAUSE NO: | TESTS | VALUE AS PER SPECIFICATION | RESULTS/ OBSERVATION |
|--------|------------|--|----------------------------|------------------------|
| 1 | 8.1&8.3 | WORKMANSHIP AND FINISH | | SATISFACTORY |
| 2 | 7 | NOMINAL THICKNESS | 18MM \pm 5% | 17.74 TO 18.27 |
| 3 | 7 | LENGTH | 2440 +6/-0 MM | 2441 |
| 4 | 7 | WIDTH | 1220 +3/ 0MM | 1222 |
| 5 | 7 | SQUARENESS | 0.2% Max | 0.08% |
| 6 | 7 | EDGE STRAIGHTNESS | 0.2% MAX | 0.05% |
| 7 | 10.1.1 | MOISTURE CONTENT | 5 to 15% | 9.03% |
| 8 | 10.1.2 | <u>GLUE ADHESION IN DRY STATE</u> | | |
| | | AVERAGE | 1350 N Min | 1482 |
| | | MINIMUM INDIVIDUAL | 1100 N Min | 1274 |
| | | ADHESION OF PLIES | Min Pass Standard | PASS STANDARD |
| 9 | 10.1.3 | <u>WATER RESISTANCE TEST</u> | | |
| | | AVERAGE | 1000 N Min | 1173 |
| | | MINIMUM INDIVIDUAL | 800 N Min | 916 |
| | | ADHESION OF PLIES | Min Pass Standard | PASS STANDARD |
| 10 | 10.1.5 | <u>MYCOLOGICAL TEST</u> | | |
| | | SEPARATION AT THE EDGES | SHOW NO SIGN OF SEPERATION | NO SEPERATION OBSERVED |
| | | AVERAGE | 1000 N Min | 1280 |
| | | MINIMUM INDIVIDUAL | 800 N Min | 1125 |
| | | ADHESION OF PLIES | Min Pass Standard | PASS STANDARD |

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| 11 | 10.1.6 | <u>TENSILE STRENGTH</u> | | |
| | | PARALLEL TO GRAIN DIRECTION OF FACE VENEER | 32.5 N/mm ² Min. | 46.43 |
| | | PERPENDICULAR TO GRAIN DIRECTION OF FACE VENEER | 22.5 N/mm ² Min. | 45.86 |
| | | SUM OF TENSILE STRENGTH | 84.5 N/mm ² Min. | 92.29 |
| 12 | 10.1.7 | <u>STATIC BENDING TEST</u> | | |
| | | MOE (IN DIRECTION PARALLEL TO GRAIN DIRECTION) | | |
| | | AVERAGE | 7500 N/mm ² | 7739 |
| | | MININIMUM INDIVIDUAL | 6700 N/mm ² | 7565 |
| | | MOR (IN DIRECTION PARALLEL TO GRAIN DIRECTION) | | |
| | | AVERAGE | 50 N/mm ² | 53 |
| | | MININIMUM INDIVIDUAL | 45 N/mm ² | 51 |
| | | <u>STATIC BENDING TEST</u> | | |
| | | MOE (IN DIRECTION PERPENDICULAR TO GRAIN DIRECTION) | | |
| | | AVERAGE | 4000 N/mm ² | 9860 |
| MININIMUM INDIVIDUAL | 3600 N/mm ² | 7946 | | |
| MOR (IN DIRECTION PERPENDICULAR TO GRAIN DIRECTION) | | | | |
| AVERAGE | 30 N/mm ² | 63 | | |
| MININIMUM INDIVIDUAL | 27 N/mm ² | 56 | | |
| 13 | 10.1.8 | <u>WET BENDING TEST</u> | | |
| | | MOE (IN DIRECTION PARALLEL TO GRAIN DIRECTION) | | |
| | | AVERAGE | 3750 N/mm ² | 5799 |
| | | MININIMUM INDIVIDUAL | 3400 N/mm ² | 4672 |
| | | MOR (IN DIRECTION PARALLEL TO GRAIN DIRECTION) | | |
| | | AVERAGE | 25 N/mm ² | 36 |
| MININIMUM INDIVIDUAL | 22 N/mm ² | 35 | | |

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| | 10.1.8 | WET BENDING TEST | | |
| | | MOE (IN DIRECTION PERPENDICULAR TO GRAIN DIRECTION) | | |
| | | AVERAGE | 2000 N/mm ² | 9010 |
| | | MINIMUM INDIVIDUAL | 1800 N/mm ² | 6858 |
| | | MOR (IN DIRECTION PERPENDICULAR TO GRAIN DIRECTION) | | |
| | | AVERAGE | 15 N/mm ² | 46 |
| | | MINIMUM INDIVIDUAL | 13 N/mm ² | 45 |
| 14 | 10.1.9 | PRESERVATIVE CHEMICALS | | |
| | | TOTAL RETENTION OBTAINED | 12 Kg/m ³ Min. | 14.39 |