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# BENIF

2023 -2024







CW154 (EW154)

CW175 (EW175)

CW177 (EW177)

CW240 (EW240)

CW258 (EW258)

CW292 (EW292)

CW314 (EW314)

CW316 (EW316)

CW320 (EW320)

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DW644 (EW644)

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| BM      |    |
|---------|----|
| BM001   | 79 |
| BM002   | 79 |
| BM003   | 80 |
| BM004   | 80 |
| BM006   | 79 |
| BM007   | 79 |
| BM008   | 79 |
| BM009   | 80 |
| BM010   | 80 |
| BM011   | 80 |
| BM012   | 80 |
| BM013 🚫 | 77 |
| BM015 🚫 | 77 |
| BM016 N | 78 |
| BM017 🔃 | 78 |
| BM019 N | 77 |
| BW      |    |
| BW001   | 48 |
| BW002   | 50 |
| BW003   | 51 |
| BW004   | 51 |
| BW005   | 49 |
| BW006   | 49 |
| BW007   | 48 |

| DWOOL |        | 40 |       | ( ,     |
|-------|--------|----|-------|---------|
| BW002 |        | 50 | CW454 | (EW454) |
| BW003 |        | 51 | CW455 | (EW455) |
| BW004 |        | 51 | CW459 | (EW459) |
| BW005 |        | 49 | CW466 | (EW466) |
| BW006 |        | 49 | CW469 | (EW469) |
| BW007 |        | 48 | CW506 | (EW506) |
| BW008 |        | 51 | CW509 | (EW509) |
| BW009 |        | 51 | CW511 | (EW511) |
| BW010 |        | 49 | CW512 | (EW512) |
| BW011 |        | 51 | CW513 | (EW513) |
| BW012 |        | 51 | CW518 | (EW518) |
| BW013 |        | 49 | CW519 | (EW519) |
| BW014 |        | 49 | CW521 | (EW521) |
| BW015 |        | 49 | CW527 | (EW527) |
| BW016 | N      | 46 | CW530 | (EW530) |
| BW017 | N      | 47 | CW531 | (EW531) |
| BW018 | N      | 47 | CW535 | (EW535) |
| BW019 | N      | 47 | CW537 | (EW537) |
| BW020 | N      | 45 | CW544 | (EW544) |
| BW021 | N      | 45 | CW552 | (EW552) |
| BW022 | N      | 45 | CW554 | (EW554) |
| BW023 | N      | 45 | CW556 | (EW556) |
|       |        |    | CW557 | (EW557) |
|       | CW     |    | CW575 | (EW575) |
|       |        |    | CW579 | (EW579) |
| CW44  | (EW44) | 73 | CW582 | (EW582) |
| CW69  | (EW69) | 73 | CW590 | (EW590) |
| CW79  | (EW79) | 72 | CW597 | (EW597) |
| CW87  | (EW87) | 73 | CW598 | (EW598) |

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CW111 (EW111)

CW124 (EW124)

CW141 (EW141)

CW150 (EW150)

CW151 (EW151)

CW152 (EW152)

| 12 | CW606    | (EW000)  |
|----|----------|----------|
| 72 | CW609    | (EW609)  |
| 73 | CW611    | (EW611)  |
| 67 | CW615    | (EW615)  |
| 73 | CW616    | (EW616)  |
| 64 | CW618    | (EW618)  |
| 69 | CW619    | (EW619)  |
| 71 | CW624    | (EW624)  |
| 73 |          | (EW626)  |
| 73 |          | (EWAC1)  |
| 71 |          | (EWB1)   |
| 68 |          | (EWPF3)  |
| 70 |          | (EWSH2)  |
| 64 |          |          |
| 65 |          | DP       |
| 65 |          | DI       |
| 66 | DP001    | 0        |
| 73 | DP002    | 0        |
| 70 |          | 0        |
| 66 | DP004    | 0        |
| 69 | DP005    | 0        |
| 72 | DP006    | 0        |
| 69 |          |          |
| 73 |          | DW       |
| 64 |          | DW       |
| 65 | DW157    | (EW157)  |
| 70 |          | (EW159)  |
| 67 |          | (EW161)  |
| 68 |          | (EW179)  |
| 66 |          | (EW180)  |
| 69 |          | (EW182)  |
| 73 |          | (EW190)  |
| 68 |          | (EW207)  |
| 70 |          | (EW307)  |
| 67 | DW308    | (EW308)  |
| 66 |          | (EW371)  |
| 66 |          | (EW398)  |
| 68 |          | (EW400)  |
| 70 | DW406    | (EW406)  |
| 72 | DW456    | (EW456)  |
| 67 | DW467    | (EW467)  |
| 66 | DW548    | (EW548)  |
| 70 | DW549    | (EW549)  |
| 64 | DW550    | (EW550)  |
| 68 | DW633    | (EW633)  |
| 67 | DW634    | (EW634)  |
| 70 | DW635    | (EW635)  |
| 70 | DW636    | (EW636)  |
| 72 | DW637    | (EW637)  |
| 67 | DW638    | (EW638)  |
| 72 | DW639    | (EW639)  |
| 70 | DW640    | (EW640)  |
| 67 | DW641    | (EW641)  |
| 70 | DW642    | (EW642)  |
| 70 | DW643    | (EW643)  |
| 70 | 2 11 043 | (111040) |

| DW647 (EW647)                      | 63 | ML94 🚫                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| DW648 (EW648)                      | 63 | ML95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| DW649 (EW649)                      | 63 | ML96 🚫                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| DW650 (EW650)                      | 63 | ML97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| DW651 (EW651) 🛇                    | 63 | ML98 🛇                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| DW652 (EW652) 🛇                    | 63 | ML99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| DW653 (EW653) N                    | 63 | ML101 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| DW654 (EW654) N                    | 63 | MLS01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| DW655 (EW655) N<br>DW656 (EW656) N | 63 | MLS02 MLS03 MLS03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| DW030 (EW030) W                    | 63 | MLS04 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| EL                                 |    | MLS05 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| ET                                 |    | MLS06 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| EL043                              | 93 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| EL044                              | 93 | MS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| EL049                              | 93 | MO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| EL051                              | 93 | MS01 (MSE01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| EL176                              | 87 | MS09 (MSE09)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| EL177                              | 87 | MS18 (MSE18)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| EL178                              | 87 | MS19 (MSE19)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| EL235                              | 93 | MS20 (MSE20)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                    |    | MS21 (MSE21)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| FW                                 |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                                    |    | NS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| FWES3 (EWES3)                      | 71 | NCOOF O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|                                    |    | NS005 NS006 |  |
| ML                                 |    | 13000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| ML22                               | 87 | NV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| ML23                               | 84 | 141001 <b>0</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| ML24                               | 84 | NV001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| ML45                               | 93 | NV002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| ML47                               | 93 | NV003 NV004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| ML48<br>ML49                       | 93 | NV004 NV005 |  |
| ML56                               | 89 | NV006 🔊                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| ML57                               | 89 | 111000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| ML58                               | 89 | NW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| ML64                               | 87 | .,,,,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| ML67                               | 89 | NW006 (NE006)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML71                               | 84 | NW007 (NE007)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML72                               | 84 | NW008 (NE008)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML73                               | 84 | NW014 (NE014)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML74                               | 84 | NW015 (NE015)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML75                               | 84 | NW017 (NE017)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML76                               | 84 | NW032 (NE032)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML77                               | 84 | NW033 (NE033)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML80                               | 84 | NW034 (NE034)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML83 🚳                             | 95 | NW038 (NE038)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML84 🔇                             | 95 | NW039 (NE039)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML85                               | 95 | NW041 (NE041)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML86 🔊                             | 95 | NW042 (NE042)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML87                               | 95 | NW043 (NE043)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML88                               | 95 | NW044 (NE044)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| ML89 🕦                             | 82 | NW045 (NE045)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| MI 91 N                            |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |

NW046 (NE046)

NW053 (NE053)

NW055 (NE055)

|          | =3 |
|----------|----|
|          | -3 |
|          | =3 |
| <b>E</b> | =3 |
|          | =  |
| <b>E</b> | =3 |
|          | =  |
| =        | =  |
|          | =  |
| =        | =3 |
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|          | -3 |
|          | -3 |
| 8        | =3 |
| =        | =3 |
|          | =3 |
| =        | =3 |

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| NW056 (NE056) | 61  | PW            |
|---------------|-----|---------------|
| NW057 (NE057) | 53  |               |
| NW058 (NE058) | 55  | PW101         |
| NW059 (NE059) | 55  | PW102         |
| NW060 (NE060) | 56  | PW103         |
| NW062 (NE062) | 53  | PW104         |
| NW063 (NE063) | 57  | PW105         |
| NW067 (NE067) | 55  | PW106         |
| NW068 (NE068) | 61  | PW107         |
| NW070 (NE070) | 53  | PW108         |
| NW071 (NE071) | 53  | PW109         |
| NW072 (NE072) | 55  | PW110         |
| NW073 (NE073) | 52  | PW111         |
| NW078 (NE078) | 53  | PW112         |
| NW080 (NE080) | 52  | PW113         |
| NW082 (NE082) | 58  | PW114         |
| NW083 (NE083) | 54  | PW115         |
| NW084 (NE084) | 59  | PW116         |
| NW085 (NE085) | 54  | PW117         |
|               |     | PW118         |
| NW086 (NE086) | 59  | PW119         |
| NW087 (NE087) | 56  |               |
| NW088 (NE088) | 54  | PW120         |
| NW089 (NE089) | 56  | PW121         |
| NW090 (NE090) | 57  | PW122         |
| NW092 (NE092) | 59  | PW123         |
| NW099 (NE099) | 52  | PW124         |
| NW100 (NE100) | 59  | PW125         |
| NW101 (NE101) | 59  | PW126         |
| NW102 (NE102) | 52  | PW127         |
| NW104 (NE104) | 57  | PW128         |
| NW109 (NE109) | 59  | PW129         |
| NW110 (NE110) | 58  | PW130         |
| NW111 (NE111) | 58  | PW131         |
| NW112 (NE112) | 52  | PW132         |
| NW113 (NE113) | 58  | PW133         |
| NW114 (NE114) | 58  | PW134         |
| NW116 (NE116) | 60  | PW135         |
| NW117 (NE117) | 60  | PW136         |
| NW118 (NE118) | 61  | PW137         |
| NW119 (NE119) | 60  | PW138         |
| NW120 (NE120) | 60  | PW139         |
| NW121 (NE121) | 60  | PW140         |
| NW122 (NE122) | 60  | PW141 🚫       |
| NW123 (NE123) | 61  | PW142 🚫       |
|               |     | PW143 🔕       |
| PME           |     |               |
|               |     | RE            |
| (PME01)       | 27  | Duos -        |
| (PME02)       | 27  | RE03 (ESE03)  |
| (PME03)       | 27  |               |
| (PME04)       | 27  | RGM           |
| (PME05)       | 27  |               |
| (PME06)       | 27  | RGM02 (EGM02) |
| (PME07)       | 27  | RGM03 (EGM03) |
| (PME08)       | 27  | RGM05 (EGM05) |
| (DMEOO)       | 0.7 | DOMES (ECVIE) |

(PME09)

(PME10)

RGM13 (EGM13) N 23

RGM14 (EGM14) N 22

RS87 (ES87)

RS88 (ES88)

|     |          | _  |              |                  |    |       |         |          |
|-----|----------|----|--------------|------------------|----|-------|---------|----------|
|     | PW       |    |              | (EGM15) N        | 23 | RS89  | (ES89)  | 24       |
|     |          |    | RGM16        | (EGM16) N        |    | RS91  | (ES91)  | 24       |
| 01  |          | 38 |              |                  |    | RS92  | (ES92)  | 25       |
| 02  |          | 38 |              | RM               |    | RS98  | (ES98)  | 20       |
| 03  |          | 40 |              |                  |    | RS100 | (ES100) | 25       |
| 04  |          | 42 | RM12         |                  | 89 | RS101 | (ES101) | 21       |
| 05  |          | 36 |              |                  |    | RS103 | (ES103) | 19       |
| 06  |          | 36 |              | RP               |    | RS104 | (ES104) | 19       |
| 07  |          | 41 |              |                  |    | RS105 | (ES105) | 19       |
| 80  |          | 41 | RP03         | (RPE03)          | 31 | RS106 | (ES106) | 20       |
| 09  |          | 36 | RP04         | (RPE04)          | 31 | RS107 | (ES107) | 20       |
| 10  |          | 36 | RP06         | (RPE06)          | 30 | RS108 | (ES108) | 20       |
| 11  |          | 42 | RP08         | (RPE08)          | 31 | RS116 | (ES116) | 19       |
| 12  |          | 42 | RP42         | (RPE42)          | 31 | RS118 | (ES118) | 24       |
| 13  |          | 35 | RP45         | (RPE45)          | 30 | RS119 | (ES119) | 24       |
| 14  |          | 39 | RP46         | (RPE46)          | 31 | RS120 | (ES120) | 25       |
| 15  |          | 41 | RP47         | (RPE47)          | 30 | RS121 | (ES121) | 24       |
| 16  |          | 34 | RP48         | (RPE48)          | 30 | RS122 | (ES122) | 25       |
| 17  |          | 35 | RP49         | (RPE49)          | 31 | RS123 | (ES123) | 25       |
| 18  |          | 38 | RP50         | (RPE50)          | 31 | RS124 | (ES124) | 24       |
| 19  |          | 38 | RP51         | (RPE51)          | 31 | RS125 | (ES125) | 24       |
| 20  |          | 42 | RP52         | (RPE52)          | 30 | RS127 | (ES127) | 25       |
| 21  |          | 41 | RP53         | (RPE53)          | 31 | RS128 | (ES128) | 25       |
| 22  |          | 43 | RP54         | (RPE54) N        | 29 | RS130 | (ES130) | 24       |
| 23  |          | 35 | RP55         | (RPE55) N        | 29 | RS131 | (ES131) | 24       |
| 24  |          | 41 | RP56         | (RPE56) N        | 28 | RS132 | (ES132) | 24       |
| 25  |          | 41 | RP57         | (RPE57) N        | 28 | RS133 | (ES133) | 24       |
| 26  |          | 34 |              |                  |    | RS134 | (ES134) | 24       |
| 27  |          | 35 |              | RS               |    | RS135 | (ES135) | 25       |
| 28  |          | 42 |              | No               |    | RS136 | (ES136) | 25       |
| 29  |          | 35 | RS13         | (ES13)           | 24 | RS138 | (ES138) | 2        |
| 30  |          | 36 | RS22         | (ES22)           | 25 | RS139 | (ES139) | 2        |
| 31  |          | 37 | RS27         | (ES27)           | 24 | RS140 | (ES140) | 2        |
| 32  |          | 39 | RS31         | (ES31)           | 25 | RS141 | (ES141) | 2        |
| 33  |          | 37 | RS35         | (ES35)           | 25 | RS142 | (ES141) | 2        |
| 34  |          | 40 | RS40         | (ES40)           | 25 | RS144 | (ES142) | 2        |
|     |          |    | RS45         |                  |    |       |         | 2        |
| 35  |          | 43 |              | (ES45)           | 24 | RS145 | (ES145) |          |
| 36  |          | 35 | RS46         | (ES46)           | 25 | RS150 | (ES150) | 20       |
| 37  |          | 38 | RS47         | (ES47)           | 25 | RS151 | (ES151) | 20       |
| 38  |          | 42 | RS48         | (ES48)           | 25 | RS158 | (ES158) | 25       |
| 39  |          | 36 | RS49         | (ES49)           | 25 | RS159 | (ES159) | 2        |
| 40  |          | 38 | RS51         | (ES51)           | 25 | RS160 | (ES160) | 2        |
| 41  |          | 33 | RS52         | (ES52)           | 25 | RS161 | (ES161) | 2        |
| 42  |          | 33 | RS55         | (ES55)           | 24 | RS162 | (ES162) | 2        |
| 43  | <u> </u> | 33 | RS56         | (ES56)           | 24 | RS163 | (ES163) | 24       |
|     |          |    | RS57         | (ES57)           | 25 | RS164 | (ES164) | 24       |
|     | RE       |    | RS58         | (ES58)           | 25 | RS165 | (ES165) | 24       |
|     |          |    | RS61         | (ES61)           | 24 | RS166 | (ES166) | 24       |
| 3   | (ESE03)  | 25 | RS68         | (ES68)           | 25 | RS167 | (ES167) | 24       |
|     |          |    | RS69         | (ES69)           | 24 | RS168 | (ES168) | 25       |
|     | RGM      |    | RS70         | (ES70)           | 25 | RS170 | (ES170) | 19       |
|     |          |    | 73.07        | (E071)           | 25 | RS171 | (ES171) | 25       |
|     | Rom      |    | RS71         | (ES71)           | 20 |       |         |          |
| 102 | (EGM02)  | 23 | RS71<br>RS76 | (ES71)<br>(ES76) | 24 | RS172 | (ES172) |          |
|     |          | 23 |              |                  |    |       |         | 24       |
| [03 | (EGM02)  |    | RS76         | (ES76)           | 24 | RS172 | (ES172) | 24<br>19 |

| ):비방역             | 염 컬러 No        | on-Flame I | Retar |
|-------------------|----------------|------------|-------|
|                   |                |            |       |
| 4                 | (ES180)        | N .        |       |
| 4                 | RS181          | (ES181)    | N     |
| 5                 | RSCK1          | (ESCK1)    |       |
| 0                 | RSJD1          | (HSJD1)    |       |
| 5                 | RSP01          | (ESPO1)    |       |
| 21                |                |            |       |
| 9                 |                | SF         |       |
| 9                 |                |            |       |
| 9                 | SF002          |            |       |
| 0                 | SF003          |            |       |
| 0                 | SF005          |            |       |
| 0                 | SF006          |            |       |
| 9                 | SF008          |            |       |
| 4                 | SF009          |            |       |
| 4                 | SF011          | N          |       |
| 5                 | SF012          | 0          |       |
| 4                 | SF013          | 0          |       |
| <del>-</del><br>5 | SF013          | 0          |       |
|                   | SF014<br>SF015 |            |       |
| 5                 |                | 0          |       |
| 4                 | SF016          | <u> </u>   |       |
| $\frac{4}{2}$     |                |            |       |
| 5                 |                | SM         |       |
| 5                 | 03.40.01       |            |       |
| 4                 | SM001          |            |       |
| 4                 | SM002          |            |       |
| 4                 | SM003          |            |       |
| 4                 | SM005          |            |       |
| 4                 | SM006          |            |       |
| 5                 | SM007          |            |       |
| 5                 | SM008          |            |       |
| 21                | SM009          | N          |       |
| 21                | SM010          | 0          |       |
| 21                | SM011          | 0          |       |
| 21                | SM012          | <u> </u>   |       |
| 21                | SM013          | <u> </u>   |       |
| 21                | SM014          | N          |       |
| 21                | SM015          | N          |       |
| 0                 | SM016          | N          |       |
| 0                 |                |            |       |
| 5                 |                | SW         |       |
| 21<br>21          | SW001          |            |       |
| 21                | SW002          |            |       |
| .1<br>21          | SW003          |            |       |
| 4                 | SW004          |            |       |
| <del>4</del><br>4 | SW005          |            |       |
| $\frac{4}{4}$     | SW006          |            |       |
| 4<br>-<br>4       | SW007          | 0          |       |
| _                 |                | <u> </u>   |       |
| 4<br>5            | SW008          | 0          |       |
| _                 | SW009          | 0          |       |
| 9                 | SW010          | 0          |       |
| 5                 | SW011          | 0          |       |

### **Contents**

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LX하우시스 인테리어필름의 다양한 정보를 온라인에서 만나보세요. Discover various information about LX Hausys Interior Films online. www.lxhausys.com/gl/index

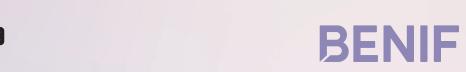


LX지인 인테리어필름의 Repeated Image들을 확인해보세요. Please check the repeated images of LX Z:IN Interior Film. www.lxbenifdesign.com



LX지인 도어와 창호를 인테리어필름과 함께 리모델링해보세요. Try remodel your LX Z:IN doors and windows with Interior Film. www.lxbenifcolortable.com

- 방염 컬러 Flame Retardant
- 비방염 컬러 Non-Flame Retardant
- S 2023년 출시 신제품입니다. This is a new product to be released in 2023.
- 이미지에 적용된 컬러입니다.
- ি পাশাপা পত্ত ভারন । । The color is applied to the photographic image.
- 해당 컬러는 샘플북 맨 뒤 시공 유의사항을 반드시 지켜주세요. Be sure to follow the application instructions at the back of the sample book for the relevant color.
- In Stock



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당신이 바라던 공간에 대한 모든 것, Benif에 있습니다.

Everything you could ever long for in a space, BENIF has.

### Recommendation

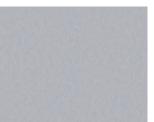
# Dual Fig

빛의 각도에 따라 때론 우아하게, 때론 유니크하게. 공간에 새로움을 더합니다.

Depending upon the angle of light, sometimes elegantly and sometimes uniquely. Increase novelty to the space.



DP002



DP005



NV003



NV002







SM013



SM015











Big Granite BM019

Big Granite









SF012 SF015







BW020







※ 제품이 보는 방향에 따라 색상이 다르게 보이므로 정확한 색상 확인을 원하실 경우, 구매 전 실제 제품을 확인해 보세요.



# *Misty* 미스티

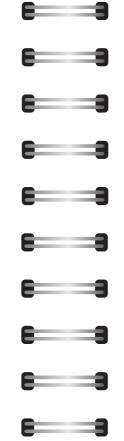
내추럴한 표면 위에 화이트 도장을 한 듯 부드럽고 화사한 분위기를 선사합니다.

Make a present of soft and fluorescent mood as if white paint was applied on a natural surface.









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**■**SM001**◎** 

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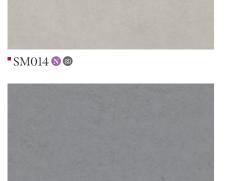




Emboss 엠보스

은은하게 반사되는 텍스처와 다채로운 색감이 만나 온기를 더합니다. The delicately reflective texture and colorful colors increase warmth.







■SM008 ●



■SM005 ●

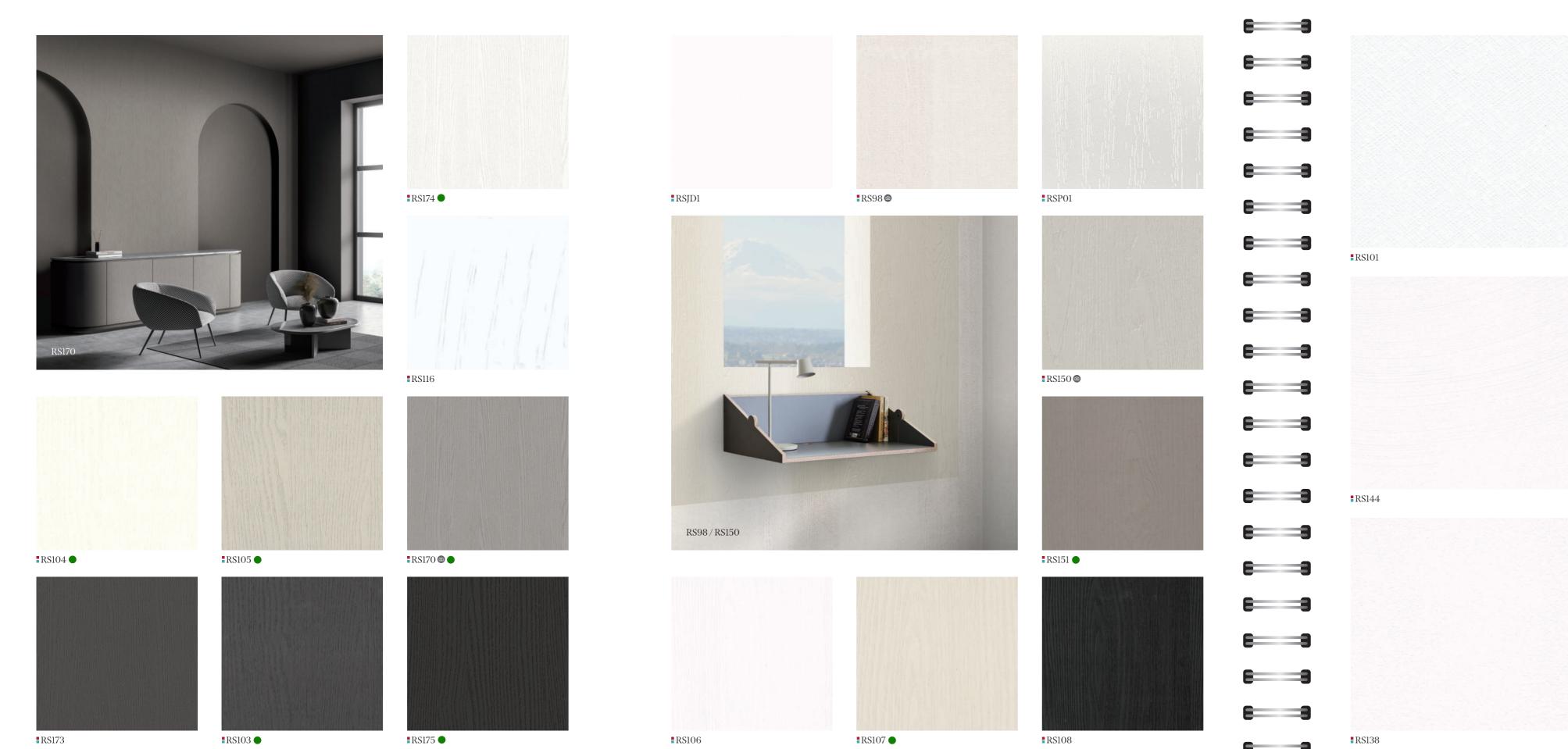


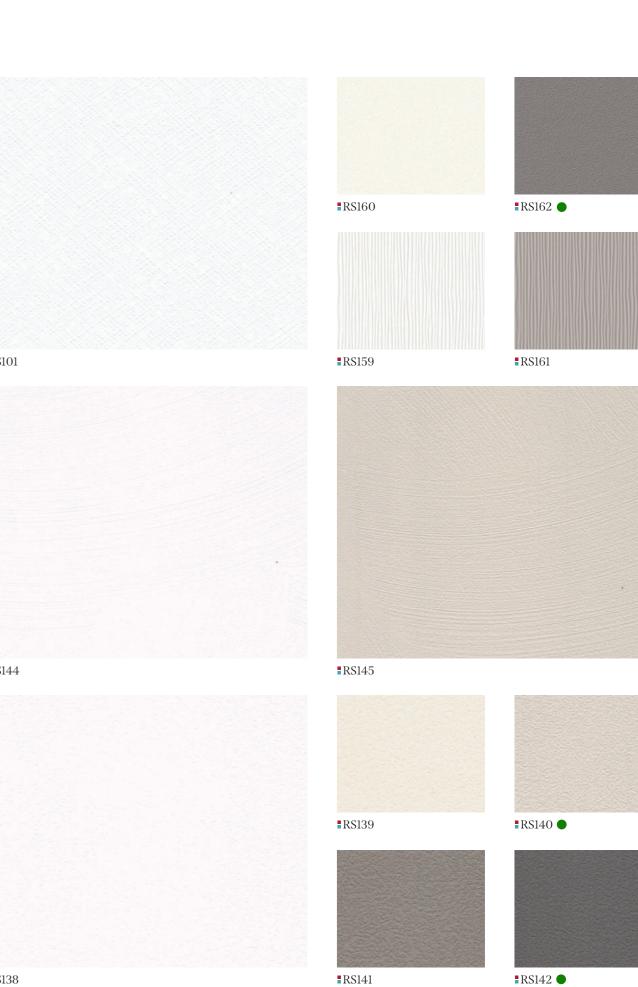




■SM016 🕲

# Emboss 엠보스





# Emboss 엠보스











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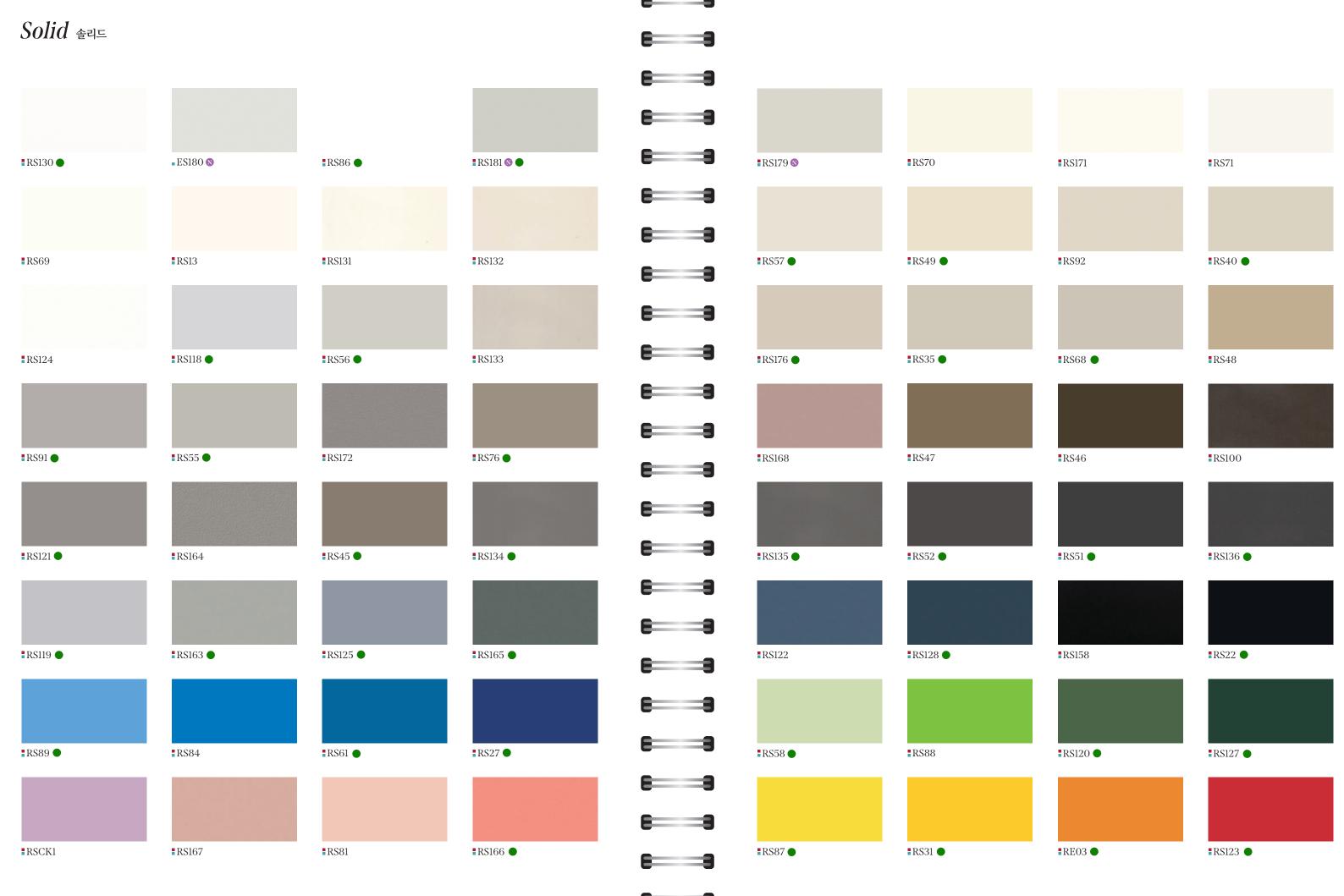




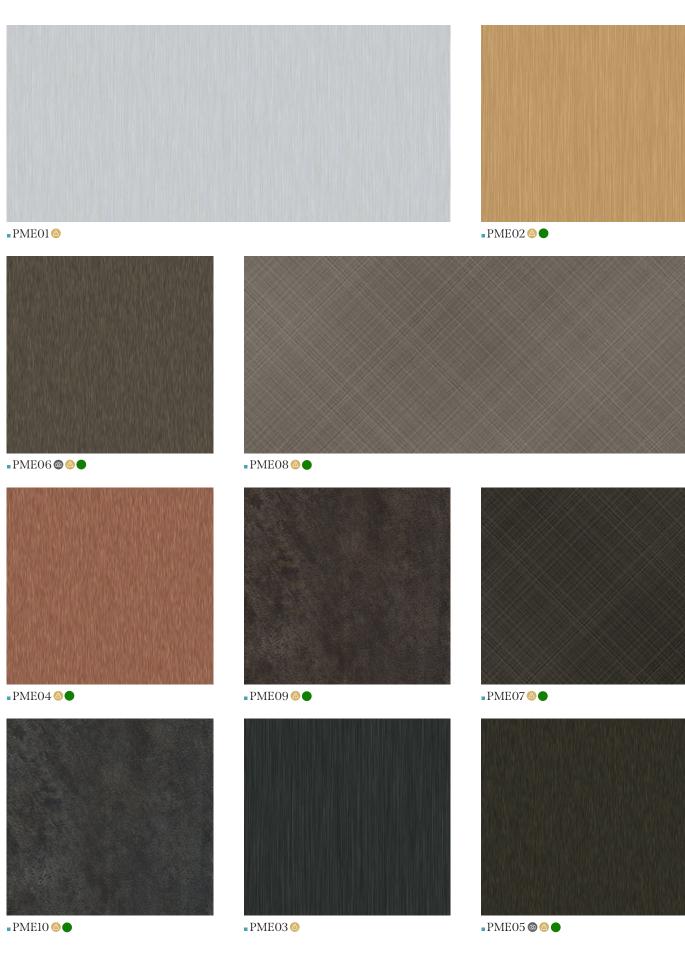




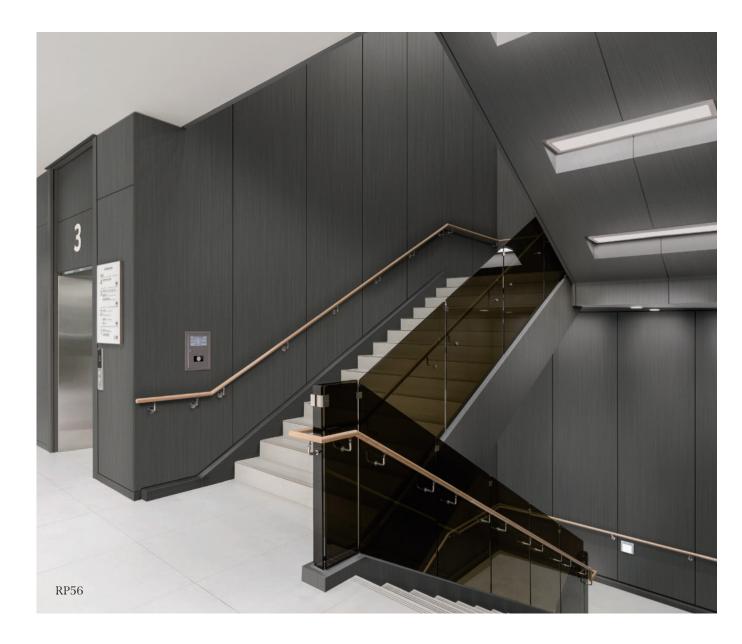
**■**RGM12 **③** 







# Metal **m**b





₽RP57 🔕



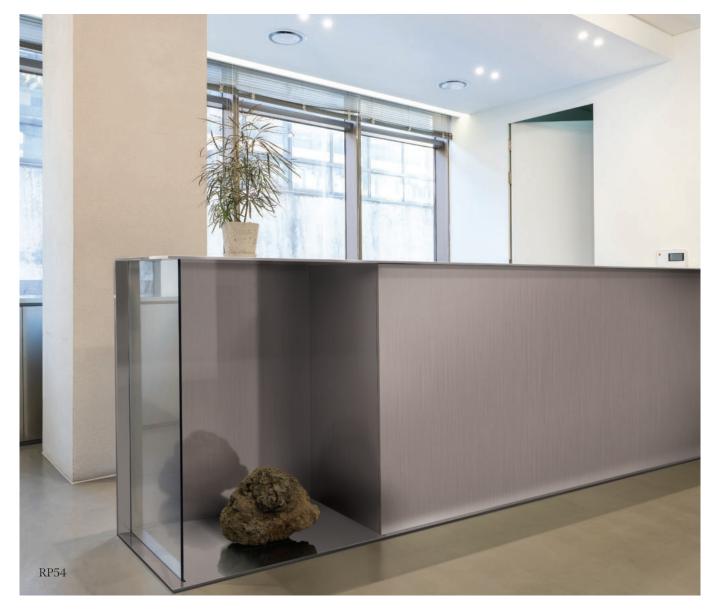


※ 상기 이미지 안의 제품 패턴과 색상은 실제 제품과 차이가 있을 수 있음을 알려드립니다.





**■**RP54 **◎ ◎** ₽RP55 **(** 



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# Metal mlb







※ 상기 이미지 안의 제품 패턴과 색상은 실제 제품과 차이가 있을 수 있음을 알려드립니다.

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■PW142 🗞 🙆 Soft Walnut



PW143 ♥ 
Soft Walnut

•PW116 ◎ ●



Standard Oak



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Slap Oak ■PW113 🙆







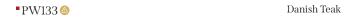


※ 상기 이미지 안의 제품 패턴과 색상은 실제 제품과 차이가 있을 수 있음을 알려드립니다.











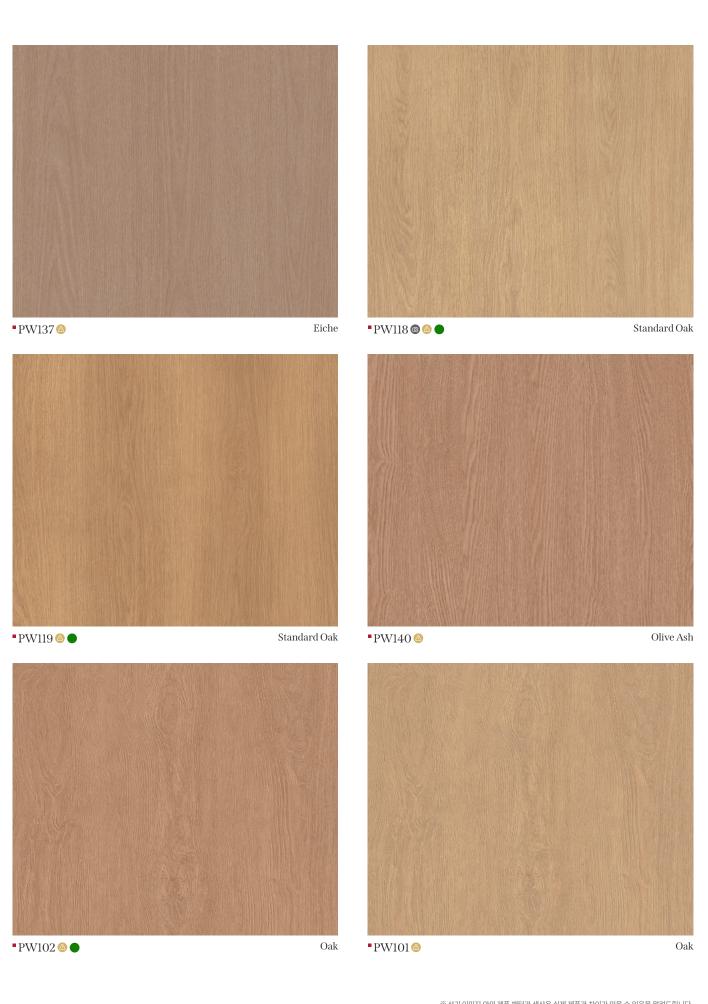


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■PW106 @

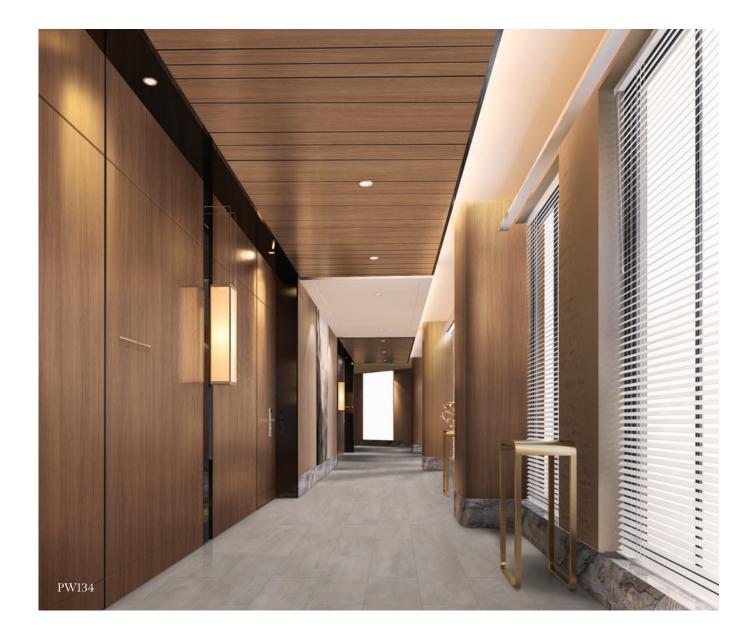




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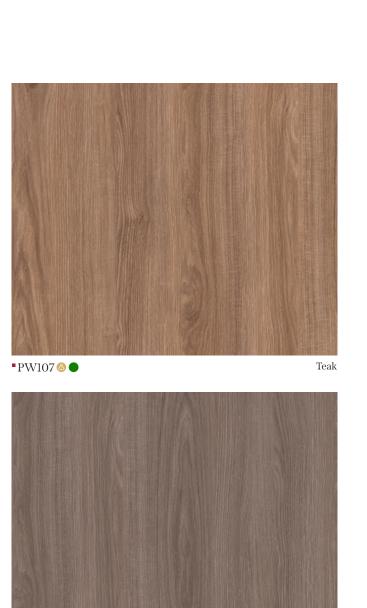






■PW103 @













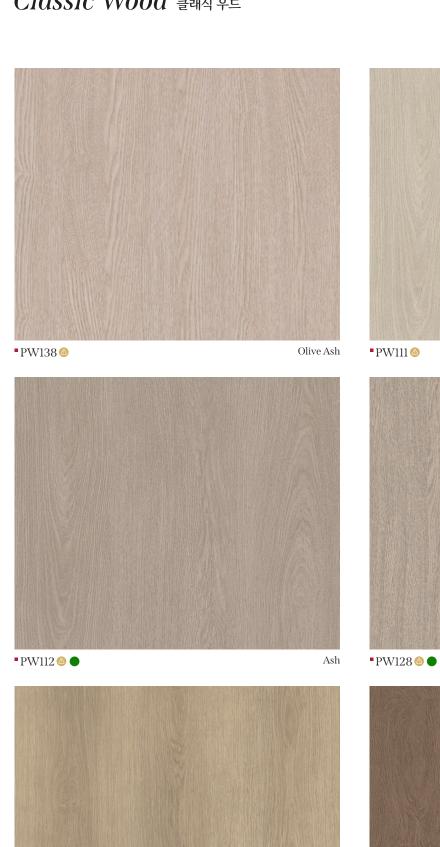


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Standard Oak













PW135 ◎ ◎ ● Danish Teak

PW122 ◎ ● Standard Oak



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■PW120 🚳





■BW020 
Walnut



■BW021 🛇 🕲 Walnut





BW023 ♥ Walnut BW022 ♥ Walnut

# Big Wood খণ্ড





■BW016 

Teak



■BW017 🗞 🚳



■BW018 ♥ Teak



■BW019 

Teak

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# Big Wood খণ্ড





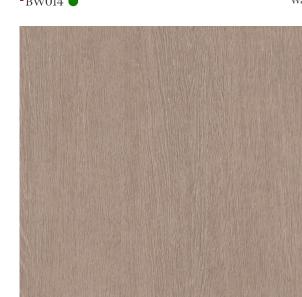


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**■**BW015 ●





Washed Ash





Walnut ■BW002 ●



**■**BW008 **⊚** 













Walnut **■**BW003 ●

Lauan ■BW012

### Premium Wood ভ্রনাপ প্র

깊이 있고 자연스러운 나뭇결을 있는 그대로 고스란히 담습니다.

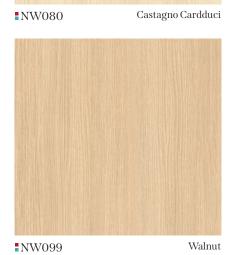
Put the deep and natural wood grain into itself as it is.



White Oak









※ 상기 이미지 안의 제품 패턴과 색상은 실제 제품과 차이가 있을 수 있음을 알려드립니다.















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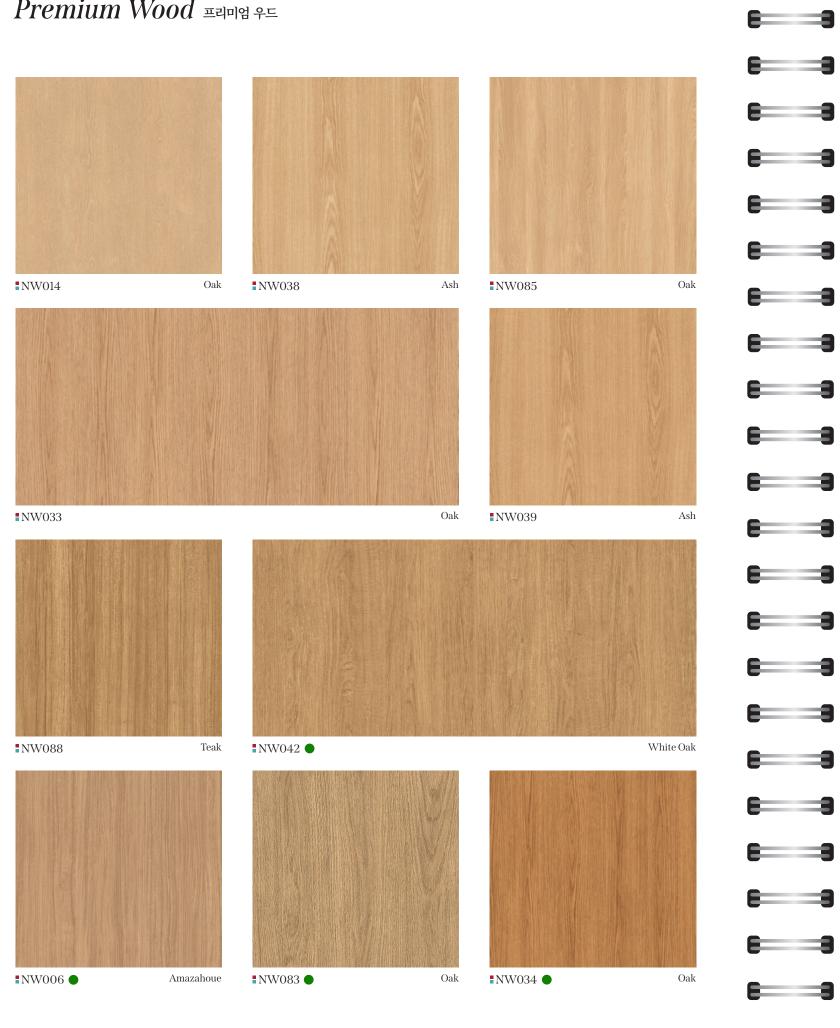
E 3

■NW078

Teak

NW041 @

# Premium Wood 프리미엄 우드



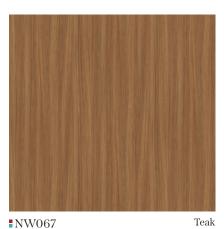














### Premium Wood ভ্রাণার প্র



NW089



Walnut NW045



NW007 Amazahoue



NW087









※ 상기 이미지 안의 제품 패턴과 색상은 실제 제품과 차이가 있을 수 있음을 알려드립니다.























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# Premium Wood ভ্রনাপ্র প্র







Ash

■ NW113

























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NW114 @

### Premium Wood ভ্রাণার প্র

















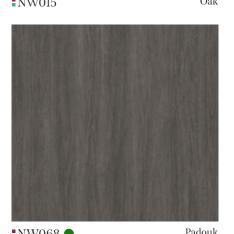


※ 상기 이미지 안의 제품 패턴과 색상은 실제 제품과 차이가 있을 수 있음을 알려드립니다.



















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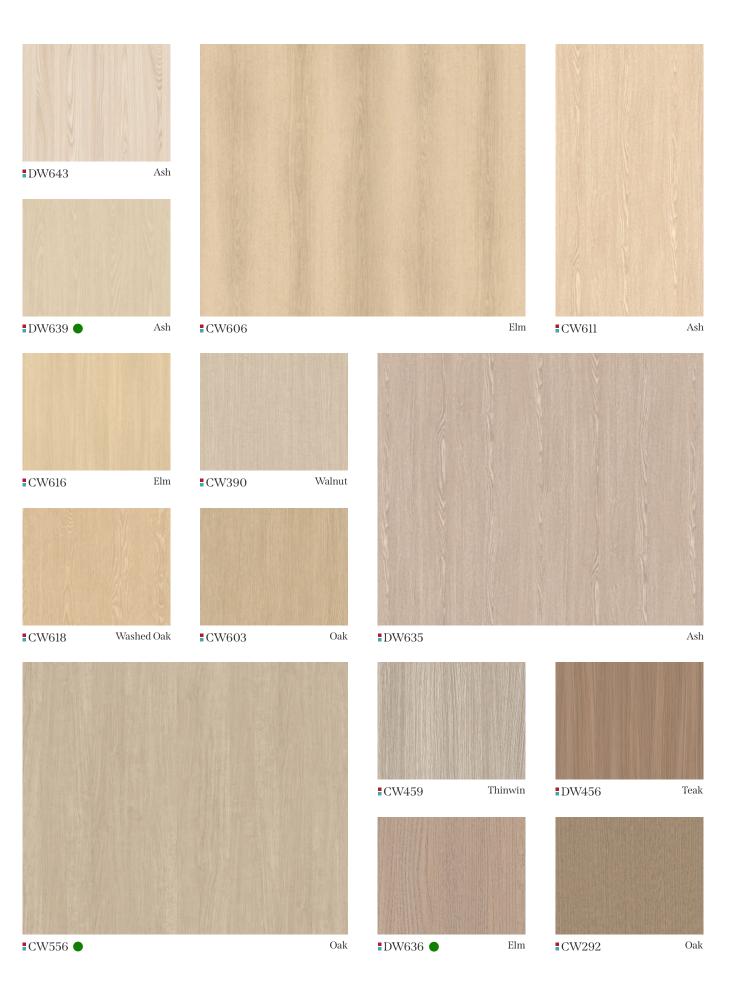
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# Wood 95









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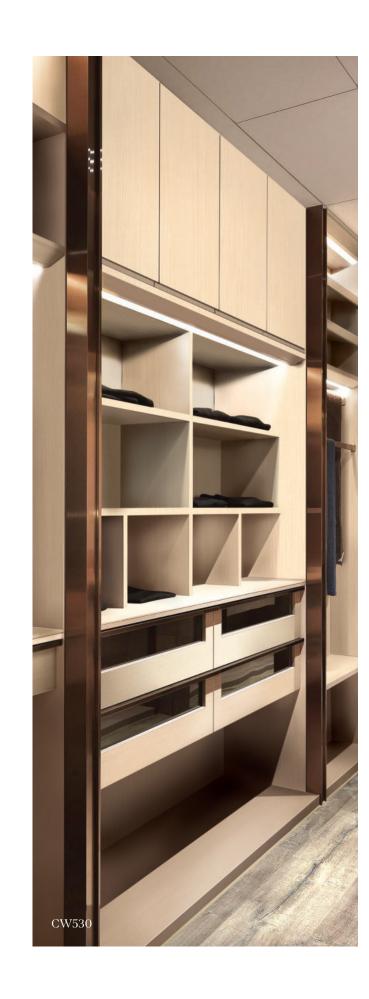
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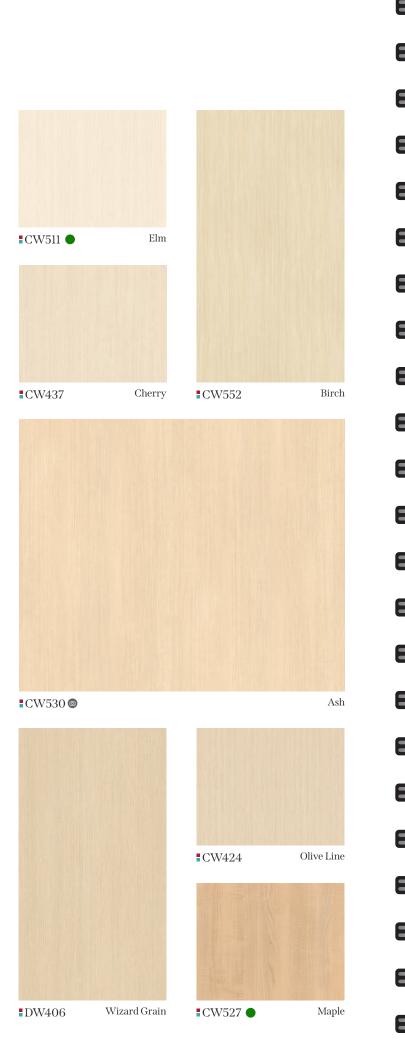
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# Wood ≈=

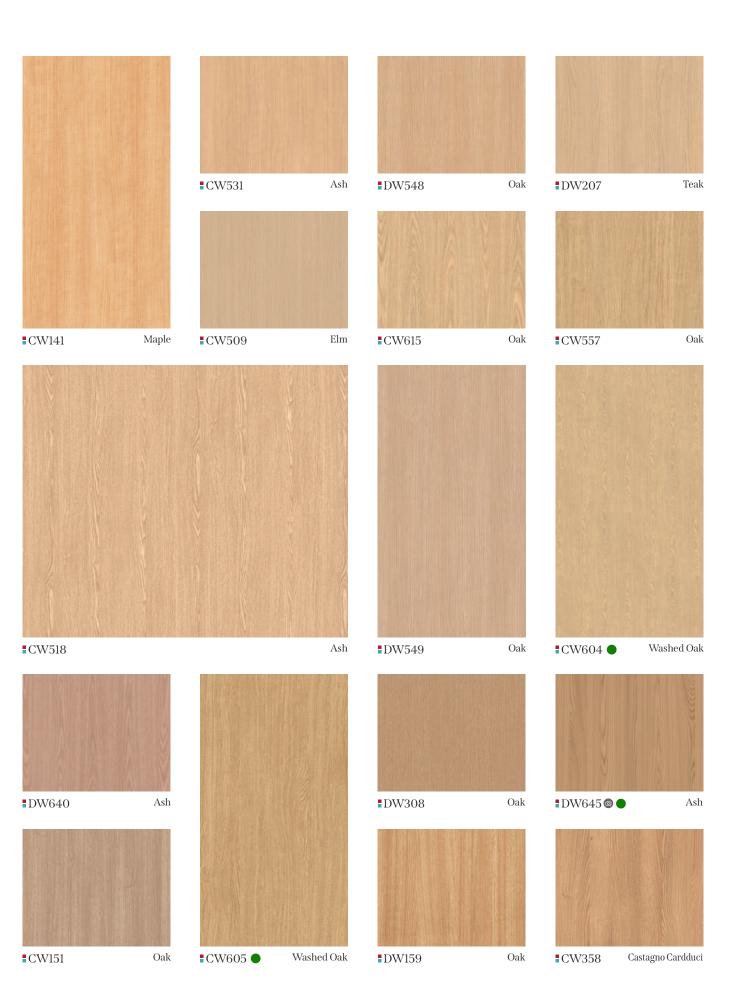






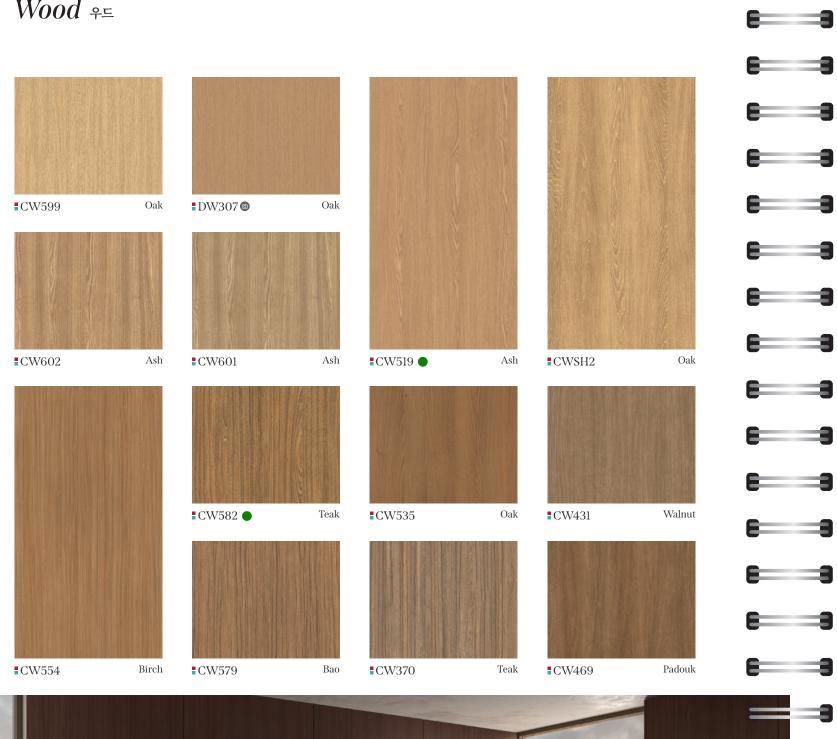


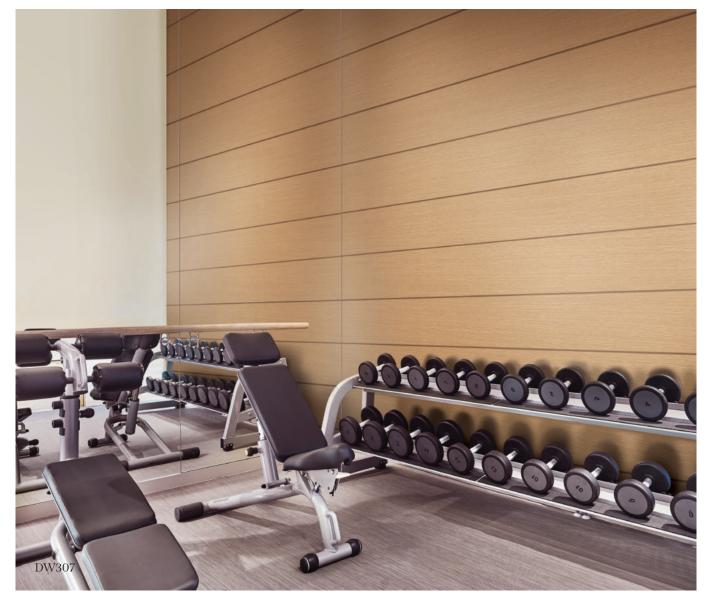
# Wood 95





# Wood ≈=





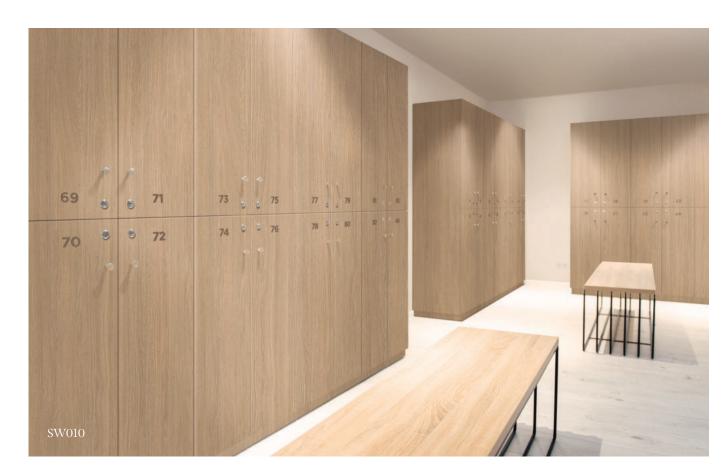




Coconut



# Wood ≈=





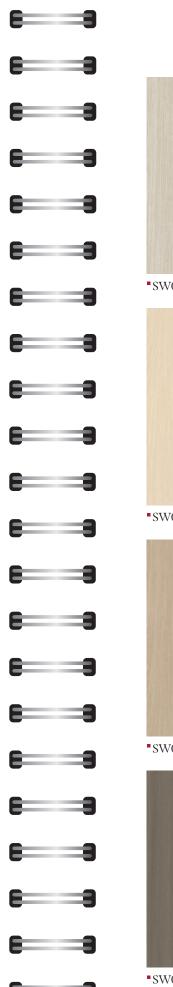












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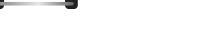








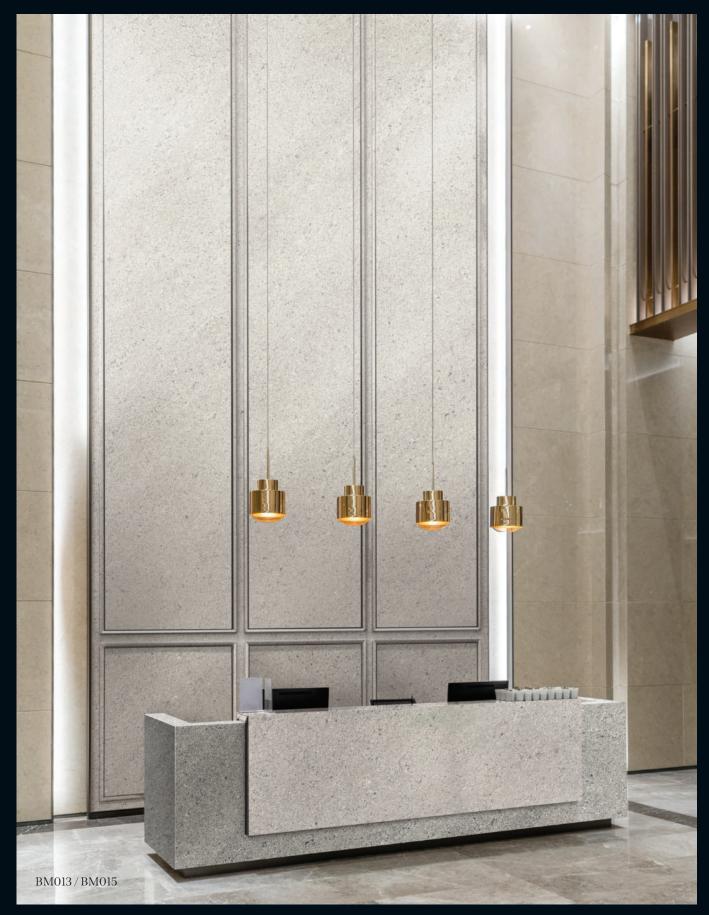


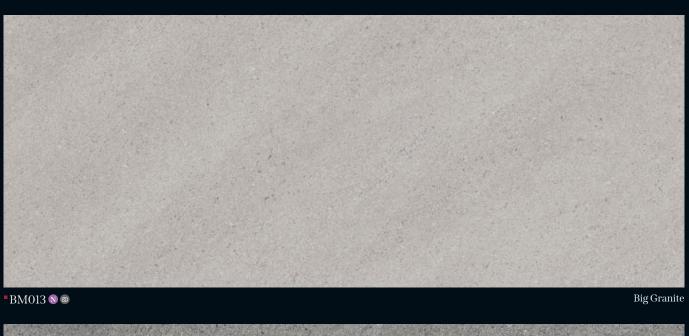


■SW005 @

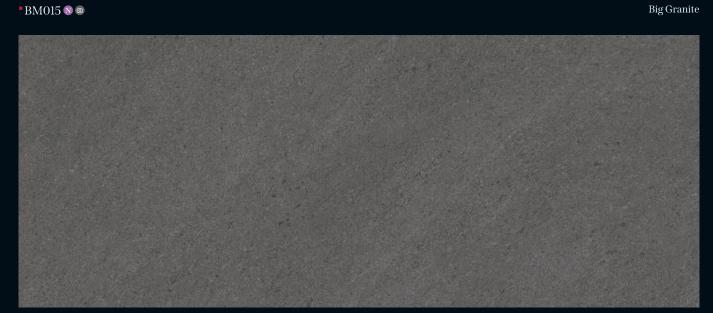
# $Big\ Stone$ ੫스톤

빅 슬랩의 웅장한 마블링과 곧게 뻗은 크랙의 숨결을 느껴보세요. Feel the majestic marbling of the big slab and the breath of straight cracks.







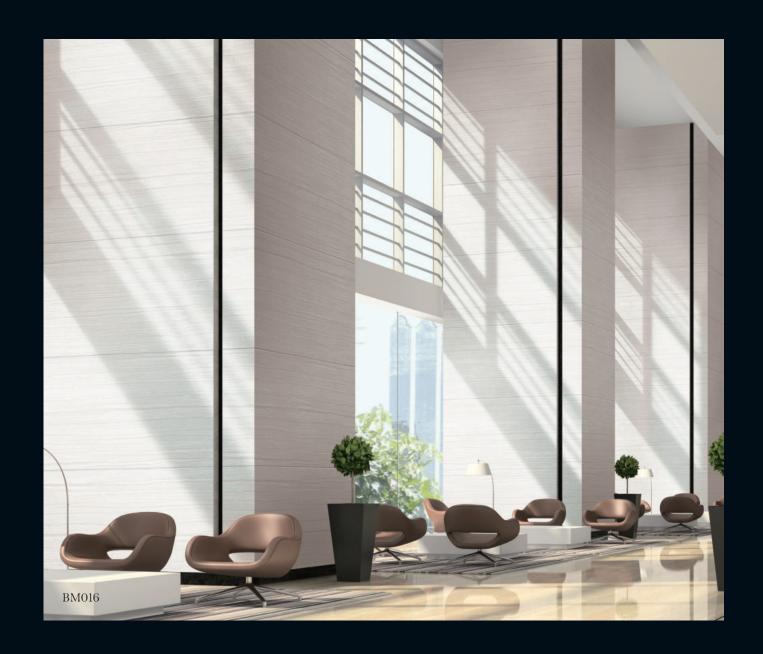


■BM019 

Big Granite

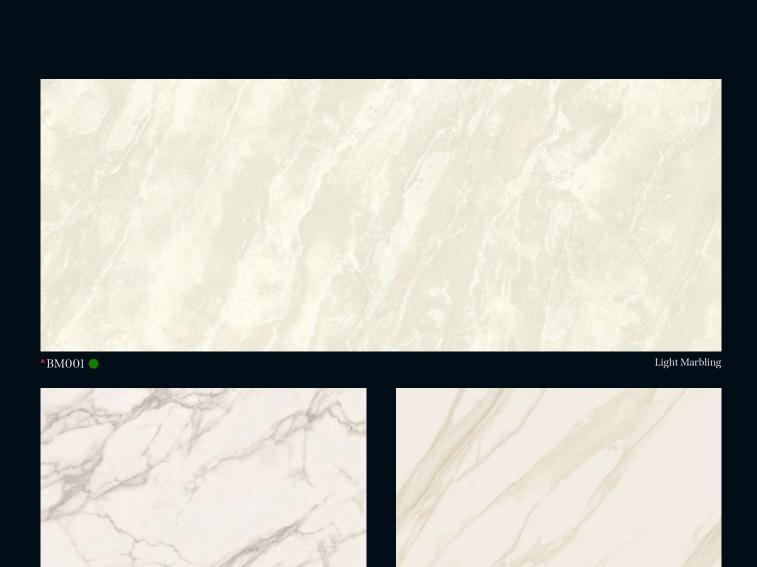
※ 상기 이미지 안의 제품 패턴과 색상은 실제 제품과 차이가 있을 수 있음을 알려드립니다.

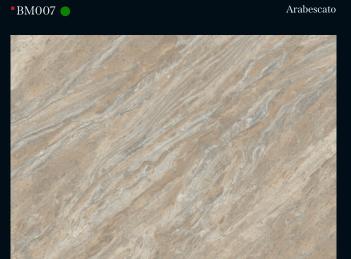
# $Big\,Stone$ ੫스톤













**B**M002

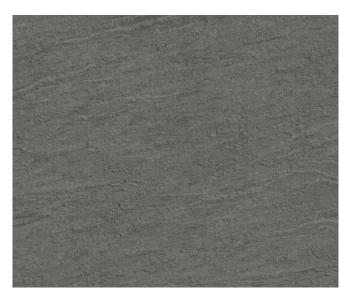
# $Big\ Stone$ ੫스톤



# Stone 4.

부드럽고 섬세한 컬러 위에 스톤의 느낌을 살린 터치감을 경험하세요. Experience the touch feeling of stone on top of soft and detailed colors.







"NS006 N @ @

"NS005 🛇 🙆

# Stone 4.













# Stone 4.



■ML80 ●





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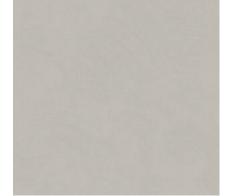
Stucco 스타코











■MLS01 🚳



**■**MLS06 **③** 



■MLS04 **③** 

■ML76 ●















■ML23 ●

■ML24 ●





# Concrete / Mortar स्वाया / प्रवास

가공되지 않은 거친 질감과 시크함으로 나만의 앤틱한 공간을 연출해 보세요.

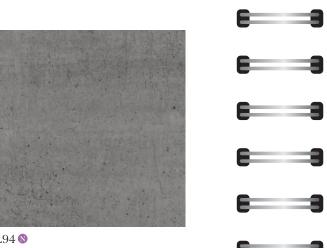
Create your own antique space with unfashioned texture and chic.



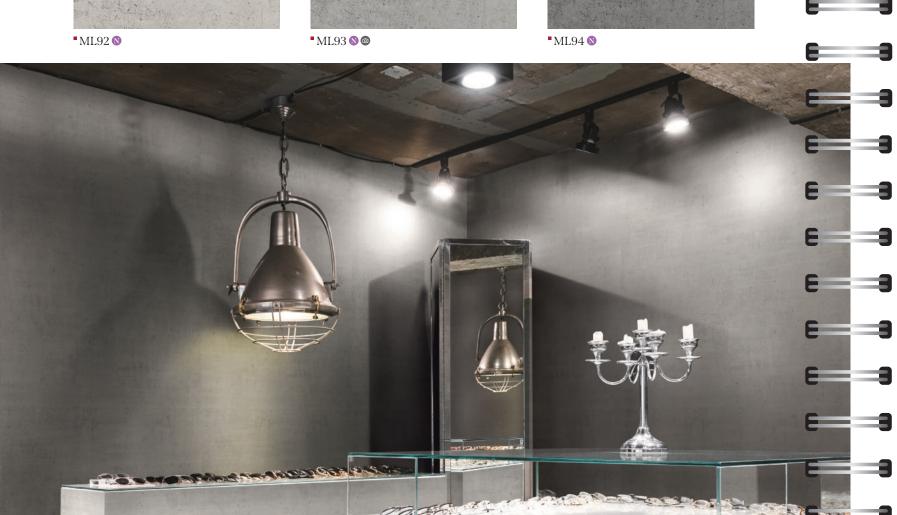




※ 상기 이미지 안의 제품 패턴과 색상은 실제 제품과 차이가 있을 수 있음을 일

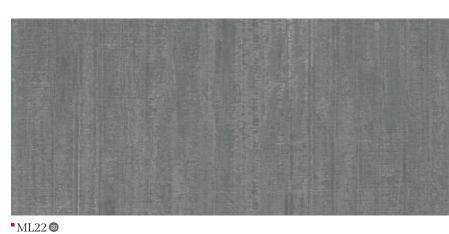


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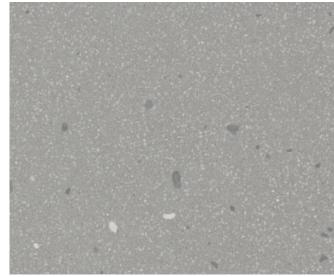


■EL178 🗅

# Marble 마블

고급스러운 유럽풍의 대리석이 선사하는 아름다움과 깨끗함을 느껴보세요. Feel the beauty and cleanliness of luxurious European-style marble.





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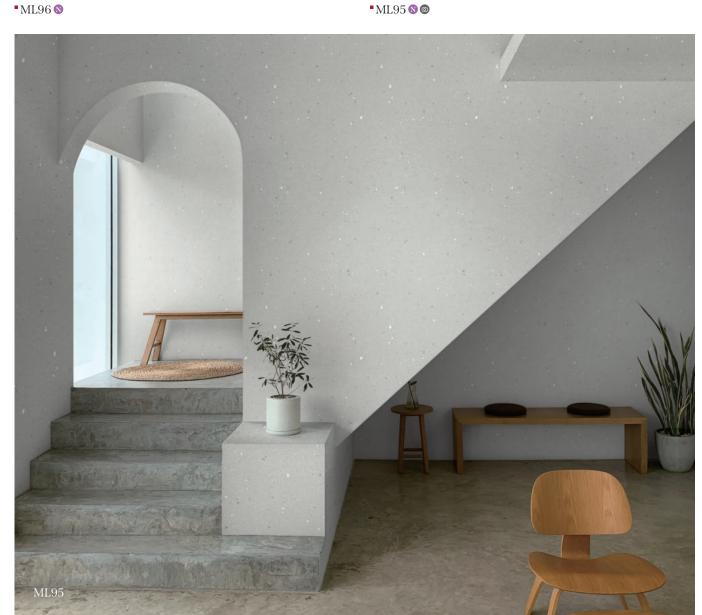
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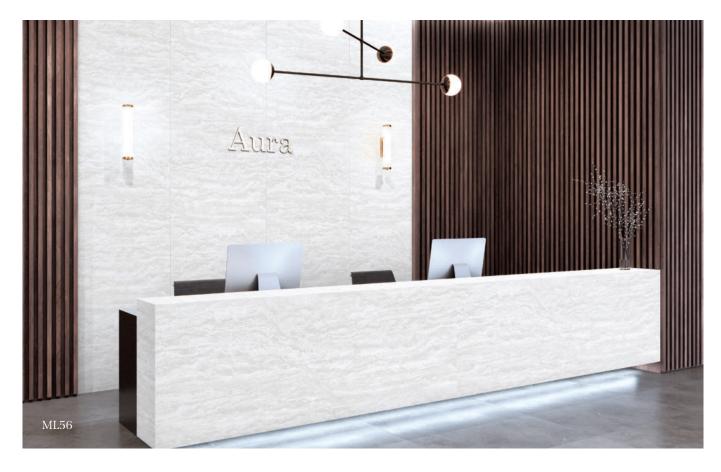
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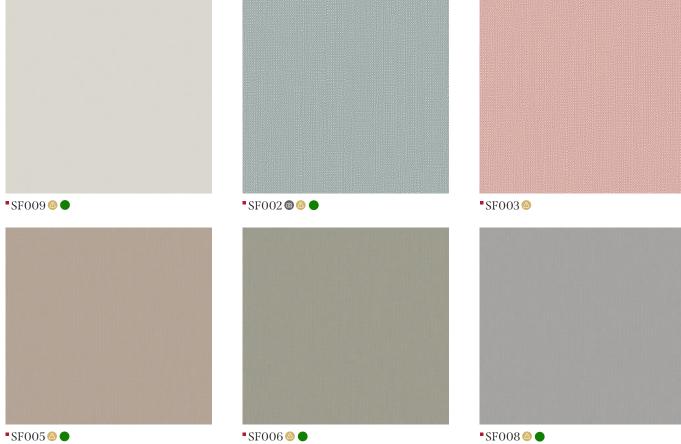


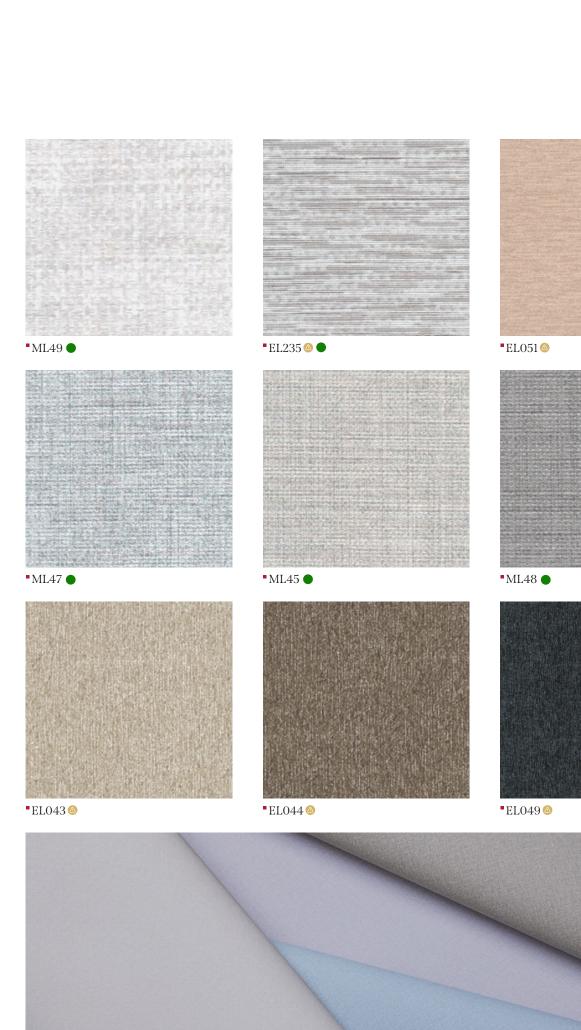
■ML56 @ ● ■ML57 ●



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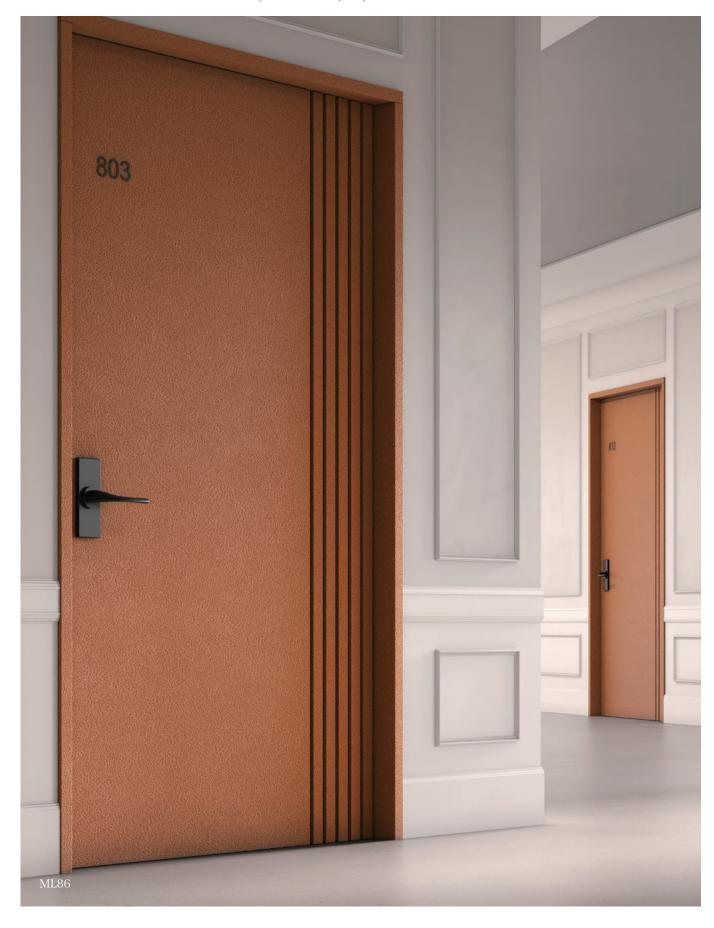
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# Leather and

가죽만이 지닌 클래식하면서도 고급스러운 색상, 리얼한 터치감은 럭셔리 그 자체입니다.

The classic and luxurious colors and the realistic touch of leather are luxury itself.





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## Interior Film for railroad application

We offer Interior film specialized for railroad application meeting the technical standards of the Korean Ministry of Land, Infrastructure and Transport, and it is applied to KTX and SRT.

| Inside Panel Fire Safety Standards                                        |                   |                        |                  |       |       |      |  |  |  |
|---------------------------------------------------------------------------|-------------------|------------------------|------------------|-------|-------|------|--|--|--|
| Fire<br>Performance<br>Requirements                                       | Test Method       |                        | Passing Criteria |       |       |      |  |  |  |
|                                                                           | Test Standard     | Test Unit              | HL1              | HL2   | HL3   | HL4  |  |  |  |
| Inside Panel                                                              | ISO 5660-1        | MARHE(kW/m², @50kW/m²) | -                | ≤90   | ≤90   | ≤60  |  |  |  |
|                                                                           | ISO 5658-2        | Qasb(MJ/m²)            | ≥1.2             | ≥1.2  | ≥1.5  | ≥1.5 |  |  |  |
|                                                                           | ISO 5658-2        | CFE(kW/m²)             | ≥15              | ≥18   | ≥20   | ≥20  |  |  |  |
|                                                                           | ASTM E 662        | DS(1.5min)             | ≤ 150            | ≤100  | ≤75   | ≤50  |  |  |  |
|                                                                           | ASTM E 662        | DS(4.0min)             | ≤300             | ≤200  | ≤ 150 | ≤100 |  |  |  |
|                                                                           | ASTM E 662        | DS(10min)              | -                | -     | ≤300  | ≤200 |  |  |  |
|                                                                           | BS 6853 Annex B.2 | Toxic index(R)         | ≤3.6             | ≤ 2.7 | ≤ 1.6 | ≤1.6 |  |  |  |
| HI 4 is the highest Hazard level in the Fire Performance for Inside nanel |                   |                        |                  |       |       |      |  |  |  |





## Specialized Flame retardant Interior Film

### Japanese Non-Flammable Test

DFS03

50 X 30mm

LX Hausys offers interior film certified for non-flammable and eco-friendly (F\*\phix\phix\phi) of Japanese Ministry of Land, Infrastructure, Transport and Tourism.

Japanese non-flammable Certification (limited patterns only)









## Chinese Flame Resistance

LX Hausys Interior Film has the non-combustible rating(A2) according to Article 9 of the Fire Control Law of the People's Republic of China.

Chinese non-combustible rating (A2) Report (limited patterns only)



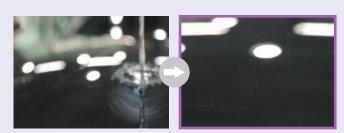




## Self-healing Interior Film

LX Hausys Self-healing Interior Film can be self-repaired by applying hot water (80°C ↑) or hot air to everyday scratches.





Scratch the film

Self-repaired with hot water

- % Test method: Scratches are generated on the surface using a \*Wire Brush (15mm/min, 5 reciprocations), and residual scratches are measured after pouring hot water (80°C or above) and removing moisture.
- \*\* This is based on our own test results, and actual results may vary depending on the usage environment or test conditions.

| * Wire Brush                |                    |
|-----------------------------|--------------------|
| Model No.                   | Brass brush 4 lows |
| Wire diameter x hair length | ф0.14 x 16mm       |

### **Experience it for yourself**

Create scratches on the sample surface, and remove them by wiping with hot water.

Caution: Excessive exposure to heat may cause permanent damage due to film deformation. 
 (Optimal surface temperature: 80 ~ 120°C)



\* There is a minimum order quantity for this product. If you wish to make a purchase, please inquire at your nearest vendor.

## Window Film

This is a decorative film for windows that can be used in various places such as commercial, residential areas, and offices.

Windeco(PVC) \_ EP115, LC5510





Windeco(PET)\_LC5601

EP115





LC5601



# **Certification & Test Report**

## Fire Safety

## Interior space



It is Korean Flame Retardant Certificate. LX Hausys uses fire retardants approved by Korea Fire Institute, and only products have passed the flame retardant test can be released to the market. (Certificates are issued for products that pass the test)



It is the stability verification standard of European Union(EU). The product's stability within the European market has been substantiated by passing not only the flame spread rate test but also formaldehyde and heavy metal tests.

(Certification Number 1121-CPR-KA5008, limited to flame retardancy product)

LX Hausys Interior film BENIF's fire safety is recognized by earning the global fire certifications



### UL flammability and smoke diffusion test (UL723) examination

LX Hausys is constantly striving to minimize substances harmful to the human body and the environment,

Our products have passed the flammability and smoke diffusion test (UL723) conducted by the global safety certification organization UL (Underwriters Laboratories).

(Test report number R26170)

## Eco-**Friendly**



## considering the safety and environment of customers and builders.



Human-friendliness

### **Eco-Friendly construction materials certification**

We have obtained the highest level in the verification of harmful substances in building materials in accordance with the Healthy Building Material Certification (HB Mark) established by the Korea Air Cleaning Association However, please note that the safety of these materials in contact with food has not been verified. Also, there are some colors that have not been certified, so please check the certification document for more information

(Group Standard Certification No. HB2679G22-01)

of age. (Certification No. SE025 164519 TESTEX)



### The European textile product quality certification

This certification verifies the absence of approximately 200 harmful substances in products that come into contact with skin, such as general products, bedding, toys, and interior materials. BENIF's Solid colors were the first in the industry to obtain a 1st class certification (Baby Class) under this standard, which confirms their suitability for use in clothing and toys for infants and toddlers under 3 years

## Environment-friendliness



### **Environmental Product Declaration (EPD)**

It is a system that evaluates the environmental impact of the entire process, including raw materials, production, distribution, use, and disposal of certified products, and encourages environmental improvements. BENIF Wood (CW, DW, FW, SW) has obtained this certification and is continuously striving for environmental improvement. (Environmental Product Certification No. 2020-483)



### Low Carbon Product Certification

If the carbon footprint value is equal to or less than the maximum allowable carbon emissions (average carbon emissions of environmentally friendly labeled products of the same type), or if the minimum carbon reduction rate is achieved, it is certified by the Korea Environmental Industry & Technology Institute. BENIF Solid (RS, RGM) has obtained this certification and is widely used as an environmentally friendly product. (Environmental Product Certification No. 2019-030)



# **Installation Instructions**

## 1. Preliminary Work

- It is necessary to check the type and condition of the adherend(MDF, etc.) on which the film is applied to see if any problems may occur during installation.
- In the case of MDF, it is recommended to use MDF with uniform density, as the difference in installation adhesion and flame retardant performance occurs depending on the density.
- The painted surface should be cleaned with alcohol to remove contaminants and checked for damage by the solvent. The uneven areas should be polished with sandpaper after putting treatment and foreign matters should be removed with a dust brush.
- For iron plates, after removing contaminants from the surface with alcohol or lacquer, the uneven areas caused by welding should be treated by puttying. Foreign matters should be removed with a dust brush after polishing the surface with sandpaper
- It is necessary to perform preliminary inspection on whether the product selected by the consumer has defects. (pattern name, appearance, etc.)
- Film installation should be carried out after carpentry work and before painting and wallpapering.

## 2. Surface Pre-work

- The cross-section(cutting) part of the adherend(MDF, etc.) where the film will be applied must be sufficiently polished
- In particular, in the case of wood(MDF, PB, etc.), smoothness of the bent and joint parts is important. Therefore, if the surface condition is rough after inspecting in advance, it must be sufficiently polished with sandpaper or putty treatment before installation

## 3. Primer Treatment (PM-04)

- When applying the film, LX Hausys proprietary water-based primer (PM-04) must be used.
- For the primer treatment, the cut surface of wood(MDF, PB, etc.) among the adherends has a high primer absorption rate, so the primer should be applied 2-3 times. Overlapping is done after the primer applied before has been completely dried.
- Please take note of the recommended dilution ratio and drying time for Primer as provided below.

| D                                   | Time                     | Month                          | Primer | Water | Drying time (recommended) |
|-------------------------------------|--------------------------|--------------------------------|--------|-------|---------------------------|
| Ratio of mixing<br>water and water- | Winter season            | December - March               | 1      | 1     | 24                        |
| based primer                        | Spring and Autumn season | April - May, October- November | 1      | 1.5   | 12                        |
| busca primer                        | Summer season            | June - September               | 1      | 2     | 8                         |

### 4. Installation Methods

- Film installation must be carried out in accordance with the installation guidelines in the specification sheet, and for further details, please refer to the installation manual.(service.lxhausys.co.kr - reference)
- During installation, the cut surface of the film should not be visible as much as possible.
- Film should be applied in a way that the substrate is not visible as much as possible.
- Color differences may occur between product lots, so it is necessary to sort the lots for installation
- The site temperature should be maintained at 15~25°C from 72 hours before installation to 48 hours after installation. In winter, if the product is left outside, adhesion may decrease due to a drop in temperature.

## 5. Installation Instructions for **Specific Products**

## SW. EL

- These products do not have a surface film layer but only do surface treatment. If you strongly rub the corners with wool felt or cotton gloves, the printed layer may be damaged, so please use our product carefully.
- Due to the surface treatment layer, it may slip when film is overlapped. Therefore, the installation should be done after applying the water-based primer PM-04 undiluted solution and drying it sufficiently.

• When applying the film to a surface with foreign substances or contaminants, those substances may protrude from the surface and negatively affect the film's adhesion. Therefore, it is essential to thoroughly clean the surrounding environment and perform sanding work on the adhesive surface to ensure optimal

PW. SF. NS • When installing products that are thicker and have a different depth or shape of embossing than regular products, it is necessary to apply sufficient pressure to attach the product to the surface after primer treatment. Also, it is important to apply more force to the folding and overlapping areas to prevent any lifting.

### 6. Other Precautions

- Film installation must be carried out according to the installation standards of the specification.
- For installation methods and adherends (MDF, etc.), in case of the installation on a different type of adherend from the specifications, you must contact LX Hausys or a vendor to confirm the possibility of installation. - Air bubbles may occur during installation on acrylic adherends, so please check with LX Hausys or a vendor before installation.
- The shelf life of LX Hausys Interior Film is valid for two years from the date of factory production. Please store the product in a place without high temperature and humidity and avoid direct sunlight. The ideal conditions for storage are 20°C temperature and 50% humidity.
- When moving or transporting the product, please avoid dropping it as the product may break due to impact
- Please be advised that release paper may undergo contraction or expansion during processing and storage due to the impact of heat and moisture. Consequently, we recommend utilizing release paper measurements as a point of reference, and when cutting, we suggest providing extra margin beyond the actual dimensions of the adhering surface.
- For products with deep embossing, special attention should be paid during installation to ensure sufficient adhesion through stronger pressure, as the area of adhesive installation on overlapping parts may be reduced.