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# ALUMAX-HEXCORE

## FULL CONTACT TYPE INTERNAL FLOATING ROOF

### MATERIAL SPECIFICATION SHEETS

Rev :05, 05.06.2012 , Kocaeli-TURKEY

**ALUMAX-HEXCORE FLOATING ROOF MATERIAL SPECIFICATION**

| PART/ITEM                          | Dimensions / Thickness / Size                | Material Description   |         |
|------------------------------------|--|------------------------|---------|
|                                    |  | AA Code                | EN Code |
| <b>ROOF PANEL</b>                  |  |                        |         |
| Panel Type                         | Honeycomb Panel                              |                        |         |
| Configuration                      | Flat Rectangular 1-1/2"                      |                        |         |
| Core Material                      | Aluminium foil                               | AL3003                 |         |
| Core Configuration                 | 1" Hexagonal Cells 0.003" (0.050-0.060 mm)   |                        |         |
| Skin Material                      | 3003-H16 or H26                              | AL3003 or AL5052       |         |
| Skin Thickness                     | 0.016"[0.5 mm] or (0.040" inch (1 mm)        |                        |         |
| Core-to Skin Bond                  | Heat Cured Epoxy                             | MB101                  |         |
| Size, approximate                  | up to 60" – 120"                             |                        |         |
| Test Plug                          | Hex Head Sealing Bolt M10 with Teflon O-Ring | SS18-8                 |         |
| <b>STRUCTURES</b>                  |  |                        |         |
| Panel Modul Closure                | Custom Extrusion                             | AL6061                 |         |
| Rim Profile                        | Custom Extrusion 0,098 inch (2,5 mm)         | AL6061                 |         |
| <b>LEGS</b>                        |  |                        |         |
| Leg Profile                        | Tube 1 1/2" Diameter x 2 mm wall thickness   | AL6061-T6 or AL6063-T6 |         |
| Leg Sleeve                         | Tube 2" Sch40                                | AL6061                 |         |
| Leg Sleeve Reinforcing Plates      | Sheet – 3 mm                                 | AL5052                 |         |
| Leg Isolation Pad                  | Custom Molded                                | ABS or TEFLON          |         |
| Support Cables                     | Wire Rope 6 mm                               | SS304                  |         |
| Cable Attachment Plates            | Sheet – 2 mm                                 | SS304                  |         |
| Wire Rope Thimble                  | Thimble – Thin pattern aircraft              | SS304                  |         |
| Wire Rope Clip                     | U-Bolt and Saddle Type                       | SS304                  |         |
| Stop Sleeve                        | Compression Sleeve – 5 mm Crimp-On           | Tin Plated Copper      |         |
| <b>WELLS &amp; APPURTENANCES</b>   |  |                        |         |
| Sheet for Wells and Appurtenances  | Formed Sheet – 2,5 mm                        |                        |         |
| Gasket for Wells and Appurtenances | Extruded Bulb                                | NBR or EPDM            |         |
| <b>MECHANICAL SHOE SEAL</b>        |  |                        |         |
| Shoe                               | Formed Sheet – 1,2 mm                        | SS304                  |         |
| Shoe Seal Spring                   | Formed Hardened Strip                        | SS301                  |         |
| Gasket                             | Continuous Strip – 3 mm                      | Volara – PE            |         |
| Shoe Seal Vapor Barrier            | 380 mm x 0,23/0,3 mm                         | Teflon                 |         |
| Shoe Seal Support Bracket          | Formed Sheet – 2,5 mm                        | AL5052                 |         |
| Fabric Clamp                       | Custom Extrusion                             | AL6061                 |         |
| Seal Clamp % Fabric Clamps         | Custom Extrusion                             | AL6061                 |         |
| <b>WIPER SEALS</b>                 |  |                        |         |
| Wiper Seal                         | 12" Wide Closed Cell Wiper                   | Urethane               |         |
| Secondary Seal Riser               | 6" High or 9" high custom extrusion          | AL6063 or AL606        |         |
| Seal Clamp                         | Custom Extrusion                             | AL6061                 |         |
| <b>FASTENERS</b>                   |  |                        |         |
| Support Leg Pin Bolt               | 10 mm Hex Head                               | SS18-8                 |         |
| Module Clamp-to-Clamp Bolt         | 6 mm Hex head                                | SS18-8                 |         |
| Accessory and other Bolts          | 6 mm Hex Head                                | SS18-8                 |         |
| Nuts                               | 8 mm x 10 mm Hex Head                        | AL6061                 |         |
| Bolt and Nut to the Shoe Seal shoe | 8 mm Hex Head                                | SS18-8                 |         |

The above are Standard material specifications and may be changed to meet Project specifications and/or material compatibility. All thickness are nominal. Subject to change without notification.

## ALUMAX-HEXCORE SEAL SYSTEM MATERIAL SPECIFICATIONS

| PART/ITEM  | Dimensions/Thk/Size   | Material Description     |                    |
|--|---|--------------------------|--------------------|
|  |   | EN Code                  | AA Code            |
| <b>WIPER SEAL ( SINGLE &amp; DOUBLE ) ( WPE)/(WPE/T)</b> |   |                          |                    |
| Wiper Type   | Closed Cell Polyethylene (PE) , covered with Teflon PE seal.      |                          |                    |
| Clamps   | 2 mm Extrusion Channels 30 mm x 10 mm                             | AlMgSi 0,5 F20-F22       | AAG060-T6          |
| Fasteners  | Bolts + Nuts  | 1.4301 SS                | AISI 304 SS SS18-8 |
| <b>SPRING SUPPORTED DOUBLE SEAL ( DS/T)</b>              |   |                          |                    |
| Seal Assembly  | Closed Cell Polyethylene (PE) + covered with Teflon - wrapper     |                          |                    |
| Seal Fabric  | 0,3 mm PTFE (Teflon) Fabric                                       |                          |                    |
| Spring   | formed spring (tempered )<br>3 mm thick.                          | 1.4301 SS                | AISI 301 SS        |
| Vapour Barrier Fabric                                    | 0,3 mm thick PTFE ( Teflon )                                      |                          |                    |
| Fabric Clamps  | 2 mm Extrusion Profile 30 mm x 10 mm                              | AlMgSi 0,5 F20-F22       | AAG060-T6          |
| Gaskets  | Polyethylene (Volara) , EPDM or as required.                      |                          |                    |
| Fasteners  | Bolts + Nuts  | 1.4301 SS                | AISI 304 SS SS18-8 |
| Fabric-Wiper Conn. Plates                                | formed sheets 0,5 mm  | 1.4301 SS                | AISI 304 SS SS18-8 |
| <b>MECHANICAL SHOE SEAL ( MS/T)</b>                      |   |                          |                    |
| Shoe Plates  | Formed sheet 1,2 mm,450 mm width 2500/3000 mm long.               | 1.4301 SS                | AISI 304 SS        |
| Shoe Tension Spring                                      | Formed Spring (1/4 Hardened ) 1,2 mm thick. 3" Wide.              | 1.4301 SS                | AISI 304 SS        |
| Vapour Barrier Fabric                                    | 0,23/0,25 mm thick PTFE ( Teflon ) or 0,5 mm Polyurethane Fabric. |                          |                    |
| Fabric Clamps  | 2 mm Extrusion Profile 30 mm x 10 mm                              | AlMgSi 0,5 F20-F22       | AAG060-T6          |
| Support Brackets, Arms & Braces                          | Formed Sheet 1,2 mm   | 1.4301 SS                | AISI 304 SS        |
| Gaskets  | Polyethylene (Volara) , EPDM or as required.                      |                          |                    |
| Fasteners  | Bolts + Nuts  | 1.4301 SS                | AISI 304 SS SS18-8 |
| <b>SECONDARY WIPER SEAL ( SW)</b>                        |   |                          |                    |
| Support Plates   | Formed Sheet 0,6/0,7 mm and 330 mm Wide.                          | 1.4301 SS ¼" Hardened    |                    |
| Wiper Tip & Vapor Barrier Fabric                         | 0,23/0,25 mm  | Teflon - FEP             |                    |
| Wiper Tip Support  | Extruded Wiper 5" Wide.   | Polyurethane or Neoprene |                    |
| Secondary Clamps   | 2 mm Extrusion Profile 30 mm x 10 mm                              | AlMgSi 0,5 F20-F22       | AAG060-T6          |
| Fasteners for Seal                                       |   |                          |                    |
| Primary and Secondary                                    | 3/8", ¼", 3/8"x5" Clevis pins, #10 x 1¼", Hair Pins.              | 1.4301 SS                | AISI 304 SS        |
| Nuts   | 3/8", ¼"  | 1.4301 SS                | AISI 304 SS        |