

| DATOS DE LA PIEZA A CERTIFICAR:<br>PART DESCRIPTION      |                                                      |
|----------------------------------------------------------|------------------------------------------------------|
| Denominación: PARAGOLPES DELANTERO<br>Name: Front bumper |                                                      |
| Adaptable a: SEAT LEON / TOLEDO (98)<br>Adaptable to     |                                                      |
| Fabricado por: PHIRA<br>Manufactured by                  |                                                      |
| Ref. fabricante: TO-98220<br>Manufacturer reference      | Ref. Constructor: 1M0807217ANGRU<br>O.E.M. reference |
| Nº Certificación: 01 049 0301<br>Certification number    |                                                      |



|                                                                                                                                                                                                                                                            |                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <p>Valorando lo resultados obtenidos en los ensayos y verificaciones a los que ha sido sometida la pieza de recambio, el dictamen final es:<br/>Having analyzed the results of the test to which spare part has been subjected, the final decision is:</p> |                                        |
| <p><b>RESULTADO DE LA PIEZA</b><br/>Spare part result</p>                                                                                                                                                                                                  |                                        |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                        | <p><b>CERTIFICADA</b><br/>Approved</p> |
| <input type="checkbox"/>                                                                                                                                                                                                                                   | <p><b>NO CERTIFICADA</b><br/>Fail</p>  |

| 1. CONTROL DE MATERIAL<br>MATERIAL CONTROL           |                      |                                                                           |
|------------------------------------------------------|----------------------|---------------------------------------------------------------------------|
| ENSAYO<br>Test                                       | RESULTADO<br>Result  | OBSERVACIONES<br>OBSERVATION                                              |
| Tipo de material<br>Material                         | PP+EPDM              | Consultar certificado Nº 01048<br>See certificate Number 01048            |
| Espesor de la pieza (mm)<br>Part thickness           | 0,669                | Consultar informe IE-090-02 (TO-98220)<br>See report IE-090-02 (TO-98220) |
| Espesor armazón (mm)<br>Frame thickness              | NP                   |                                                                           |
| Espesor cierre (mm)<br>Fastener thickness            | NP                   |                                                                           |
| Masa de la pieza (Kg)<br>Weight                      | 14,631               | Cumple requisitos CZ<br>It is according to requirements of CZ             |
| Embutición (mm)<br>Ball punch deformation test       | 11,67                | Cumple requisitos CZ<br>It is according to requirements of CZ             |
| Prestaciones Mecánicas<br>Impact resistance          | Conforme<br>Approved | Cumple requisitos CZ<br>It is according to requirements of CZ             |
| Envejecimiento Acelerado<br>Colour resistance        | NP                   |                                                                           |
| Resistencia al calor (%)<br>Heat resistance          | Conforme<br>Approved | Cumple requisitos CZ<br>It is according to requirements of CZ             |
| Resistencia combustible (%)<br>Fuel resistance       | Conforme<br>Approved | Cumple requisitos CZ<br>It is according to requirements of CZ             |
| CALIFICACIÓN DEL CONTROL DEL MATERIAL<br>Test result |                      | CONFORME<br>APPROVED                                                      |

| 2. CONTROL DE LA PIEZA (ADAPTABILIDAD E INSPECCIÓN PREVIA)<br>PART CONTROL (ADAPTABILITY PREVIOUS INSPECTION) |                                            |                                                                     |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------|
| ENSAYO<br>Test                                                                                                | RESULTADO<br>Result                        | OBSERVACIONES<br>OBSERVATION                                        |
| Inspección previa<br>Previous inspection                                                                      | Conforme<br>Approved                       | Consultar informe 01049IP-AD01-HR01<br>See report 01049IP-AD01-HR01 |
| Tiempo de montaje (u.t)<br>Assembly time                                                                      | 4,49                                       | Consultar informe 01049TM01-HR01<br>See report 01049TM01-HR01       |
| Proceso de trabajo<br>Assembly process                                                                        | Similar a constructor<br>Similar to O.E.M. | Consultar informe 01049IP-AD01-HR01<br>See report 01049IP-AD01-HR01 |
| Montaje de accesorios<br>Adaptability of Accessories                                                          | Conforme<br>Approved                       | Consultar informe 01049IP-AD01-HR01<br>See report 01049IP-AD01-HR01 |
| Holguras<br>Gaps                                                                                              | Similar a constructor<br>Similar to O.E.M. | Consultar informe 01049HG01-HR01<br>See report 01049HG01-HR01       |
| Paralelismos<br>Parallelism                                                                                   | Similar a constructor<br>Similar to O.E.M. | Consultar informe 01049IP-AD01-HR01<br>See report 01049P-AD01-HR01  |
| Alineaciones<br>Alignment                                                                                     | Similar a constructor<br>Similar to O.E.M. | Consultar informe 01049IP-AD01-HR01<br>See report 01049P-AD01-HR01  |
| Funcionalidad<br>Functional features                                                                          | Conforme<br>Approved                       | Consultar informe 01049IP-AD01-HR01<br>See report 01049P-AD01-HR01  |
| CALIFICACIÓN DEL CONTROL DE LA PIEZA<br>Test result                                                           |                                            | CONFORME<br>APPROVED                                                |

| 3. CONTROL DE RECUBRIMENTOS<br>COATING CONTROL                        |                      |                                                                           |
|-----------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------|
| ENSAYO<br>Test                                                        | RESULTADO<br>Result  | OBSERVACIONES<br>OBSERVATION                                              |
| Espesor, $e_e$ ( $\mu\text{m}$ )<br>Thickness                         | 22,8                 | Consultar informe IE-267-01 (TO-98220)<br>See report IE-267-01 (TO-98220) |
| Dureza<br>Hardness                                                    | 105                  | Cumple requisitos CZ<br>It is according to requirements of CZ             |
| Embutición (mm)<br>Ball punch deformation test                        | 6,44                 | Cumple requisitos CZ<br>It is according to requirements of CZ             |
| Corrosión roja<br>(nº horas)<br>Corrosion resistance                  | NP                   |                                                                           |
| Adherencia<br>Adhesion                                                | Conforme<br>Approved | Cumple requisitos CZ<br>It is according to requirements of CZ             |
| Resistencia al lavado alta presión<br>High pressure resistance        | Conforme<br>Approved | Cumple requisitos CZ<br>It is according to requirements of CZ             |
| Resistencia del recubrimiento a los disolventes<br>Solvent resistance | Conforme<br>Approved | Cumple requisitos CZ<br>It is according to requirements of CZ             |
| CALIFICACIÓN DEL CONTROL DE RECUBRIMIENTOS<br>Test result             |                      | CONFORME<br>APPROVED                                                      |



| 4. CONTROLES ADICIONALES<br>ADDITIONAL CONTROL                       |                      |                                                                                                       |
|----------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------|
| ENSAYO<br>Test                                                       | RESULTADO<br>Result  | OBSERVACIONES<br>OBSERVATION                                                                          |
| Material en sistemas de unión<br>Material in joining parts           | NP                   |                                                                                                       |
| Materiales de subestructuras<br>Reinforcement material               | NP                   |                                                                                                       |
| Cumple funcionalidad<br>Functional features                          | NP                   |                                                                                                       |
| Área soldada (mm <sup>2</sup> )<br>Welded area                       | 511,7                | Cumple requisitos CZ<br>It is according to requirements of CZ                                         |
| Distancia (mm) entre puntos soldadura<br>Distance between spots weld | 24,01<br>97,69       | Cumple requisitos CZ<br>It is according to requirements of CZ                                         |
| Puntos soldadura defectuosos<br>Quality of sports weld               | 0                    | Cumple requisitos CZ<br>It is according to requirements of CZ                                         |
| Formas geométricas<br>Geometrical shape                              | Conforme<br>Approved | Sin partes puntiagudas, ni cortantes, ni susceptibles de enganches<br>Without sharp and pointed parts |
| Orientación superficies laterales<br>Lateral surface orientation     | Conforme<br>Approved | Vuelta al exterior<br>Turn over to external side                                                      |
| CALIFICACIÓN DE LOS CONTROLES ADICIONALES<br>Test result             |                      | CONFORME<br>APPROVED                                                                                  |



| 5. COMPORTAMIENTO MECÁNICO<br>MECHANICAL BEHAVIOR              |                                            |                                                               |
|----------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| ENSAYO<br>Test                                                 | RESULTADO<br>Result                        | OBSERVACIONES<br>OBSERVATION                                  |
| Diferencia de retroceso (cm)<br>Diference in backward movement | NP                                         |                                                               |
| Forma de plegado<br>Folded shape                               | NP                                         |                                                               |
| Adhesivo y sellante<br>Mastic behavior                         | NP                                         |                                                               |
| Cierre<br>Fastener behavior                                    | NP                                         |                                                               |
| Crash-Test frontal<br>Frontal crash-test                       | Similar a constructor<br>Similar to O.E.M. | Consultar informe 01049CT02-HR02<br>See report 01049CT02-HR02 |
| Crash-Test oblicuo<br>Lateral crash-test                       | Similar a constructor<br>Similar to O.E.M. | Consultar informe 01049CT02-HR02<br>See report 01049CT02-HR02 |
| CALIFICACIÓN DEL COMPORTAMIENTO MECÁNICO<br>Test result        |                                            | CONFORME<br>APPROVED                                          |

**ANEXO 1 – REPORTAJE FOTOGRÁFICO DE LA ADAPTABILIDAD**

ANNEX 1 – ADAPTABILITY PHOTO DOCUMENTATION

**Muestra Constructor**  
O.E.M. Part

**Muestra Fabricante**  
Spare Part

