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|---------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>DATOS DE LA PIEZA A CERTIFICAR:</b><br>PART DESCRIPTION                                  |                                                         |
| <b>Denominación: PARAGOLPES DELANTERO CON IMPRIMACIÓN</b><br>Name: Front bumper with primer |                                                         |
| <b>Adaptable a: HYUNDAI i30 (10)</b><br>Adaptable to                                        |                                                         |
| <b>Fabricado por: PHIRA</b><br>Manufactured by                                              |                                                         |
| <b>Ref. fabricante: I30-10200</b><br>Manufacturer reference                                 | <b>Ref. Constructor: 865112R500</b><br>O.E.M. reference |
| <b>Nº Certificación: 14 319 1409</b><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:</p> <p>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              | Cumple requisitos CZ<br>It is according to requirements of CZ                           |
| Espesor de la pieza (mm)<br>Part thickness           | Conforme<br>Approved | Cumple requisitos CZ<br>It is according to requirements of CZ                           |
| Espesor armazón (mm)<br>Frame thickness              | NP                   |                                                                                         |
| Espesor cierre (mm)<br>Fastener thickness            | NP                   |                                                                                         |
| Masa de la pieza (Kg)<br>Weight                      | 2,821                | Consultar informe FC-CE-018-03 (masa13084)<br>See report FC-CE-018-03 (weight13084)     |
| Embutición (mm)<br>Ball punch deformation test       | NP                   |                                                                                         |
| Prestaciones Mecánicas<br>Impact resistance          | Conforme<br>Approved | Consultar informe FC-CE-050-02 (impacto 13084)<br>See report FC-CE-050-02 (impact13084) |
| 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 13084IP-AD01-HR01<br>See report 13084IP-AD01-HR01 |
| Tiempo de montaje (u.t)<br>Assembly time                                                                      | 8,14                                       | Consultar informe 13084TM01-HR01<br>See report 13084TM01-HR01       |
| Proceso de trabajo<br>Assembly process                                                                        | Similar a constructor<br>Similar to O.E.M. | Consultar informe 13084IP-AD01-HR01<br>See report 13084IP-AD01-HR01 |
| Montaje de accesorios<br>Adaptability of Accessories                                                          | Conforme<br>Approved                       | Consultar informe 13084IP-AD01-HR01<br>See report 13084IP-AD01-HR01 |
| Holguras<br>Gaps                                                                                              | Similar a constructor<br>Similar to O.E.M. | Consultar informe 13084HG01-HR01<br>See report 13084HG01-HR01       |
| Paralelismos<br>Parallelism                                                                                   | Similar a constructor<br>Similar to O.E.M. | Consultar informe 13084IP-AD01-HR01<br>See report 13084IP-AD01-HR01 |
| Alineaciones<br>Alignment                                                                                     | Similar a constructor<br>Similar to O.E.M. | Consultar informe 13084IP-AD01-HR01<br>See report 13084IP-AD01-HR01 |
| Funcionalidad<br>Functional features                                                                          | Conforme<br>Approved                       | Consultar informe 13084IP-AD01-HR01<br>See report 13084IP-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                               | NP                   |                                                                                              |
| Dureza<br>Hardness                                                          | Conforme<br>Approved | Cumple requisitos CZ<br>It is according to requirements of CZ                                |
| Embutición (mm)<br>Ball punch deformation<br>test                           | NP                   |                                                                                              |
| 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<br>lavado alta<br>presión<br>High pressure<br>resistance     | Conforme<br>Approved | Consultar informe FC-CE-033-03<br>(resistAP13084)<br>See report FC-CE-033-03 (resistAP13084) |
| Resistencia del<br>recubrimiento a<br>los disolventes<br>Solvent resistance | Conforme<br>Approved | Cumple requisitos CZ<br>It is according to requirements of CZ                                |
| CALIFICACIÓN DEL CONTROL DE RECUBRIMENTOS<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                       | NP                   |                                                                                                       |
| Distancia (mm) entre puntos soldadura<br>Distance between spots weld | NP                   |                                                                                                       |
| Puntos soldadura defectuosos<br>Quality of sports weld               | NP                   |                                                                                                       |
| 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 EN LOS SISTEMAS DE UNIÓN**

MECHANICAL BEHAVIOUR IN SYSTEMS OF UNION

**5.1 CAPÓS**

Bonnet

| ENSAYO<br>Test                                                 | RESULTADO<br>Result | OBSERVACIONES<br>OBSERVATION |
|----------------------------------------------------------------|---------------------|------------------------------|
| Diferencia de retroceso (cm)<br>Diference in backward movement |                     |                              |
| Forma de plegado<br>Folded shape                               |                     |                              |
| Adhesivo y sellante<br>Mastic behavior                         |                     |                              |
| Cierre<br>Fastener behavior                                    |                     |                              |
| CALIFICACIÓN EN LOS SISTEMAS DE UNIÓN<br>Test result           |                     | NO PROCEDE<br>NOT APPLICABLE |

**5.2 PARAGOLPES**

Bumper

| ENSAYO<br>Test                                       | RESULTADO<br>Result  | OBSERVACIONES<br>OBSERVATION                                  |
|------------------------------------------------------|----------------------|---------------------------------------------------------------|
| Crash-Test frontal<br>Frontal crash-test             | Conforme<br>Approved | Cumple requisitos CZ<br>It is according to requirements of CZ |
| Crash-Test oblicuo<br>Lateral crash-test             | Conforme<br>Approved | Cumple requisitos CZ<br>It is according to requirements of CZ |
| CALIFICACIÓN EN LOS SISTEMAS DE UNIÓN<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









