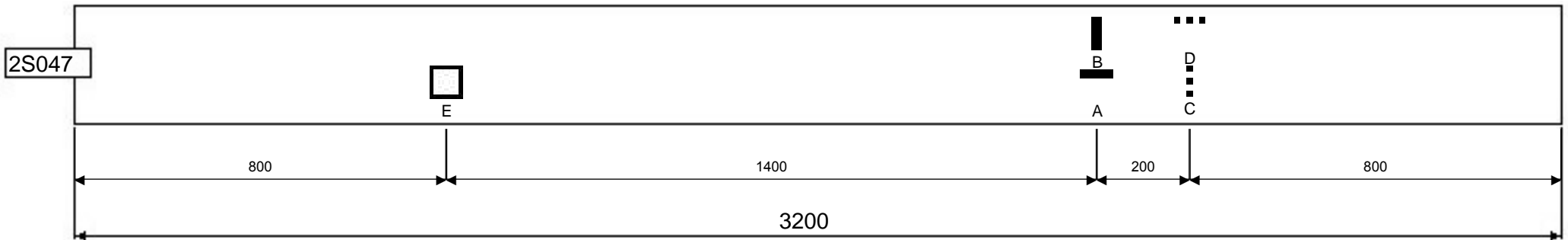


Tubo patrón número  
Reference standard #

**2S047**

### Datos del Producto Product Information

|                                |       |                                       |                     |                                   |           |
|--------------------------------|-------|---------------------------------------|---------------------|-----------------------------------|-----------|
| Diametro [mm]<br>Diameter      | 219,1 | Cliente<br>Client                     | TENARIS<br>QUINGDAO | Ciclo<br>Product                  | 83068     |
| Espesor [mm]<br>Wall Thickness | 23,8  | Tratamiento Termico<br>Heat Treatment | SI                  | Colada<br>Heat                    | 54260     |
| Trazabilidad<br>Traceability   | 42    |                                       |                     | Expediente<br>Manufacturing Order | 5/6411.01 |



Valores Pedidos / Requested Values

Valores Medidos / Measured Values

| Posicion<br>Position | Tipo de Notch<br>Notch Type             | Ancho / Diam<br>Max [mm]<br>Max Width / Diam | Profundidad<br>Nominal [%]<br>Depth | Tolerancia<br>[%]<br>Tolerance | Profundidad<br>Maxima [mm]<br>Max Depth | Profundidad<br>Minima [mm]<br>Min Depth | Profundidad<br>Nominal [mm]<br>Nom Depth | Longitud<br>Maxima [mm]<br>Max Length | Longitud<br>[mm]<br>Length | Profundidad A [mm]<br>Depth A | Profundidad B [mm]<br>Depth B | Ancho / Diam<br>[mm]<br>Width / Diam | Responsable<br>Responsible | Fecha<br>Date |
|----------------------|---|--|-------------------------------------|--------------------------------|---|---|--|---------------------------------------|----------------------------|-------------------------------|-------------------------------|--------------------------------------|----------------------------|---------------|
| A                    | Longitudinal Externo<br>longitudinal OD | 0,85   | 5                                   | ±15                            | 1,369                                   | 1,012                                   | 1,190                                    | 48,80                                 | 48,80                      | 1,331                         | 1,353                         | 0,85                                 | Carlos Aguilar             | 07/02/19      |
| B                    | Transversal Externo<br>Transverse OD    | 1,00   | 5                                   | ±15                            | 1,369                                   | 1,012                                   | 1,190                                    | 50,80                                 | 48,60                      | 1,330                         | 1,330                         | 0,85                                 | Carlos Aguilar             | 07/02/19      |
| C                    | Transversal Interno<br>Transverse ID    | 1,00   | 5                                   | ±15                            | 1,369                                   | 1,012                                   | 1,190                                    | 50,80                                 | 40,20                      | 1,355                         | 1,360                         | 0,85                                 | Carlos Aguilar             | 07/02/19      |
| D                    | Longitudinal Interno<br>Longitudinal ID | 1,00   | 5                                   | ±15                            | 1,369                                   | 1,012                                   | 1,190                                    | 50,80                                 | 50,60                      | 1,280                         | 1,265                         | 0,85                                 | Carlos Aguilar             | 07/02/19      |
| E                    | Reduccion de Espesor<br>Externo         | 25,40  | 10                                  | ±0                             | 2,380                                   | 2,380                                   | 2,380                                    | 25,40                                 | 25,10                      | -                             | -                             | 22,00                                | Default Default            | 08/02/19      |

### Instrumentos de Medicion Utilizados:

Proyector de Perfiles Mitutoyo PJ-A3000 Codigo: 302-711A

#### Notas:

- Todas las dimensiones son en milímetros excepto que se indique lo contrario.
- Minima Profundidad Nominal de las ranuras 0.3 mm.

CERTIFICADO CON REPLICA SI

#### Notes:

- All dimensions in milimeters unless stated.
- Minimum notch nominal depth 0.3 mm.

CERTIFIED WITH PLASTIC REPLICA YES

OT-PMANT

Fecha  
Date

08/02/2019  
11:26:05 a.m.

Hoja  
Page

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Documento  
Vigencia

TAND-001-05  
17/04/2006