

# Third Party Inspection Items for Steel Products

Typical TPI scope varies by product type and project requirement. This guide summarizes the most common inspection items Octal Steel can support for export steel orders.

## Typical TPI Scope by Product Type

Product Type	Visual Inspection	Dimensional Inspection	Documents / Traceability	Witness / Testing Review
<b>Steel Pipe</b>	<ul style="list-style-type: none"> <li>- Surface condition</li> <li>- Appearance and visible defects</li> <li>- Coating condition (if applicable)</li> <li>- End condition / bevel appearance</li> </ul>	<ul style="list-style-type: none"> <li>- OD</li> <li>- WT</li> <li>- Length</li> <li>- Straightness</li> <li>- Ovality</li> <li>- Bevel angle / end preparation</li> </ul>	<ul style="list-style-type: none"> <li>- Heat number traceability</li> <li>- Mill test certificate (MTC)</li> <li>- Marking review</li> <li>- Dimensional records</li> </ul>	<ul style="list-style-type: none"> <li>- Hydrotest record review</li> <li>- NDT records where required</li> <li>- PMI or other specified test review</li> </ul>
<b>Steel Plate</b>	<ul style="list-style-type: none"> <li>- Surface condition</li> <li>- Visible defects check</li> <li>- Flatness visual review</li> <li>- Edge condition</li> </ul>	<ul style="list-style-type: none"> <li>- Thickness</li> <li>- Width</li> <li>- Length</li> <li>- Flatness</li> <li>- Edge dimensions (if specified)</li> </ul>	<ul style="list-style-type: none"> <li>- Heat number traceability</li> <li>- MTC review</li> <li>- Marking verification</li> <li>- Mechanical / chemical record review</li> </ul>	<ul style="list-style-type: none"> <li>- Witness testing if required by order</li> <li>- Review of mechanical test records</li> <li>- Additional project-specific test review</li> </ul>
<b>Pipe Fittings</b>	<ul style="list-style-type: none"> <li>- Surface condition</li> <li>- Appearance check</li> <li>- Bevel end visual check</li> </ul>	<ul style="list-style-type: none"> <li>- OD</li> <li>- WT / wall consistency</li> <li>- End preparation</li> <li>- Angle / radius where applicable</li> <li>- Dimensional tolerance</li> </ul>	<ul style="list-style-type: none"> <li>- Marking verification</li> <li>- Heat number traceability</li> <li>- Inspection report review</li> </ul>	<ul style="list-style-type: none"> <li>- NDT or other test record review if specified</li> <li>- Witness points if required by project</li> </ul>
<b>Flanges</b>	<ul style="list-style-type: none"> <li>- Surface condition</li> <li>- Facing visual check</li> <li>- Appearance review</li> </ul>	<ul style="list-style-type: none"> <li>- OD</li> <li>- Bore size</li> <li>- Thickness</li> <li>- Bolt hole quantity / spacing</li> <li>- Facing type dimensions</li> </ul>	<ul style="list-style-type: none"> <li>- Marking review</li> <li>- Heat number traceability</li> <li>- Dimensional inspection records</li> </ul>	<ul style="list-style-type: none"> <li>- Test report review as specified</li> <li>- Additional witness checks if required</li> </ul>
<b>Pipeline Materials / Line Pipe Orders</b>	<ul style="list-style-type: none"> <li>- Surface / coating condition</li> <li>- End condition</li> <li>- Visual release check</li> </ul>	<ul style="list-style-type: none"> <li>- OD</li> <li>- WT</li> <li>- Length</li> <li>- End condition</li> <li>- Bevel / fit-up related checks</li> </ul>	<ul style="list-style-type: none"> <li>- Heat number traceability</li> <li>- Marking review</li> <li>- Hydrotest / NDT record review</li> <li>- Packing and shipment document consistency</li> </ul>	<ul style="list-style-type: none"> <li>- Hydrotest witness review</li> <li>- NDT review where required</li> <li>- Coating or project-specific record review</li> </ul>