Insulation inspection checklist

Yellow cells are for you to fill in. Free template from Deskely · deskely.com/resources/insulation-inspection-checklist

Project	Report number	Revision

Line / tag	Insulation class	Service temperature (°C)

Insulation material	Specification (CINI, NORSOK R-004, project)	Inspection date

Progress

Accept: 0 Reject: 0 N/A: 0 of 22 checks

No.	Check	Result	Reference	By	Date
1. BEFORE INSULATION: SURFACE AND COATING RELEASED					
1	Pressure test complete and accepted for the line or item		Test pack		
2	Coating applied, DFT recorded and released by the painting inspector		Coating report		
3	Surface clean and dry at the time of insulation		Visual		
4	Heat tracing installed and tested, where specified		Heat tracing ITR		
5	Hold point: release to start insulation		ITP		
2. MATERIAL CHECK					
6	Material type and density to the insulation specification		Datasheet, delivery note		
7	Material dry, undamaged and stored under cover off the ground		Visual		
8	Low chloride certificate for material on austenitic stainless steel		Material certificate		
9	Cladding material and sheet thickness to specification		Material certificate		
3. APPLICATION					
10	Thickness and number of layers to specification (readings below)		Specification		
11	Joints tightly butted and staggered between layers		Visual		
12	Bands or wires at the specified spacing		Specification		
13	Cold: vapour barrier continuous, sealed and undamaged		Specification		
14	Cold: contraction joints where specified		Specification		
15	Removable boxes or covers at flanges and valves where specified		Specification		
16	Hold point: insulation inspected and released before cladding		ITP		
4. CLADDING AND JACKETING					
17	Overlaps at least the specified minimum (readings below)		Specification		
18	Overlaps water-shedding: upper sheet over lower, seams away from the top		Specification		
19	Sealant at penetrations, supports, nozzles and terminations		Specification		
20	Cold: screws or rivets do not pierce the vapour barrier		Specification		
21	End caps and weather seals fitted at terminations		Specification		
22	Tag, line and flow direction labels refitted on the cladding		Visual		

THICKNESS READINGS					
Point	**Location on the line or item**	**Specified (mm)**	**Measured (mm)**	**Check**	**Remarks**
1	*Example: 1 m downstream of flange F-12, top*	*50*	*50*	***OK***	
2	*Example: same position, bottom*	*50*	*45*	***Below spec***	
3					
4					
5					
6					
7					
8					

CLADDING OVERLAP		
Minimum overlap required (mm)	50	From the insulation specification (50 mm is common)
Smallest overlap measured (mm)		Measure longitudinal and circumferential overlaps
Overlap check		Calculated

Result (Accept / Reject)	
NCR or punch number if rejected	

Sign-off	**Name**	**Signature**	**Date**
Contractor			
Client			
Third party (TPI)			

Insulation inspection log

One line per line or item. Thickness and overlap checks fill in by themselves against the specified values. Grey rows are an example: overwrite them.

Project	Area / module	Minimum cladding overlap (mm)
		50

Status

Lines: 3 Accepted: 2 Rejected: 1 Thickness below spec: 1 Overlap below spec: 1 Hold point not released: 0

No.	Line / tag	Service temp. (°C)	Class	Material	Thk. spec. (mm)	Thk. meas. (mm)	Thickness	Vapour barrier (cold)	Overlap (mm)	Overlap	Water-shedding	Sealant at penetr.	Hold point released	Result	Inspector	Date	Remarks
1	*6"-P-1203-A1A*	*180*	*Hot*	*Mineral wool*	*50*	*50*	***OK***	*N/A*	*55*	***OK***	*Yes*	*Yes*	*Yes*	***Accept***	*AB*	*12-Oct-26*	*Example*
2	*4"-R-2104-C1A*	*-35*	*Cold*	*Cellular glass*	*80*	*75*	***Below spec***	*Yes*	*40*	***Below spec***	***No***	*Yes*	*Yes*	***Reject***	*AB*	*12-Oct-26*	*Example: NCR raised*
3	*E-3001 (shell)*	*120*	*Personnel protection*	*Mineral wool, mesh*	*40*	*40*	***OK***	*N/A*	*50*	***OK***	*Yes*	*N/A*	*Yes*	***Accept***	*CD*	*14-Oct-26*	*Example*
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