

The technical documentation pursuant to currently applicable standards and guidelines is an integral part of the delivery scope. A product without documentation is regarded as incomplete. All documents must be available in German and in the language of the destination country.

	A1	A2	A3	A4	A5
	System automation (switchboard)	System automation (electronic small components): sensors, switches	System automation (complex hardware): regulator, control device, operating devices, PLC, frequency converter	Control and regulation software	Cabling
	EMSR				
CE declaration of conformity ¹	x	x	x		
Cabling certificate	x				x
Commissioning certificate	x				
Test and measuring log					
Acceptance log					
Material test certificate according to EN 10204					
Proof of quality testing					
Additional test certificate (ATEX certificate), if necessary	(x)	(x)	(x)		(x)
Operating and maintenance instructions / technical manual		(x)	x	x	
Technical datasheets / technical specification/ index cards		x	x		
Process flows, flow diagrams				x	
Manufacturing drawings (also in CAD) (detailed drawing)					
Overview drawings (also in CAD) (assembly)	x				
Component drawings / dimension sheet		x	x		
CAD model					
Verifiable statics					
Complete rod and detailed statics ⁷					
Electrical circuit diagrams, wiring diagrams, article parts list	x	x	x		x
Assembly and installation instructions		x	x		
Spare and wearing parts list, incl. details of the original manufacturer designation	x		x		
Maintenance checklist (WC)/ maintenance plan/ storage and preservation regulations	x		x	x	
Troubleshooting / troubleshooting table	x		x	x	
Setting parameters and values	x	x	x	x	

	B1	B2	B3	B4	C1
	Fans	Ventilation units	Deduster (with bonnet fan)	Filter elements	Oil and emulsion separator, cyclone without bonnet fan
	(incomplete) machine				
CE declaration of conformity ¹	x	x	x		
Cabling certificate					
Commissioning certificate					
Test and measuring log					
Acceptance log					
Material test certificate according to EN 10204					
Proof of quality testing					
Additional test certificate (ATEX certificate), if necessary	(x)	(x)	(x)	(x)	(x)
Operating and maintenance instructions / technical manual	x	x	x		x
Technical datasheets / technical specification/ index cards	x	x	x	x	x
Process flows, flow diagrams					
Manufacturing drawings (also in CAD) (detailed drawing)					
Overview drawings (also in CAD) (assembly)		x	(x)		
Component drawings / dimension sheet	x	x	(x)	x	x
CAD model	x	x	x		x
Verifiable statics					
Complete rod and detailed statics ⁷					
Electrical circuit diagrams, wiring diagrams, article parts list	x	x	x		
Assembly and installation instructions	x	x	x		x
Spare and wearing parts list, incl. details of the original manufacturer designation	x	x	x		x
Maintenance checklist (WC)/ maintenance plan/ storage and preservation regulations	x	x	x		x
Troubleshooting / troubleshooting table	x	x	x		
Setting parameters and values	x	x	x		

	D1	D2	D3	D4	D5	D6	D7	D8
	Steel structure according to EN 1090 ²	Steel structure according to DIN 18800 ²	Piping (steel pipelines) according to EN 1090 ²	Piping (steel pipelines) according to DIN 18800 ²	Piping (sheet metal construction)	Piping (miscellaneous)	Assembly material according to EN 1090 ²	Assembly material
	Sheet metal and steel construction							
CE declaration of conformity ¹	x ⁴	x	x ⁴	x			x ⁴	
Cabling certificate								
Commissioning certificate								
Test and measuring log	x ⁵	x ⁵	x ⁵	x ⁵				
Acceptance log	x ⁵	x ⁵	x ⁵	x ⁵				
Material test certificate according to EN 10204	x	x	x	x		x		
Proof of quality testing	x ¹¹		x ¹¹					
Additional test certificate (ATEX certificate), if necessary					x ⁶			
Operating and maintenance instructions / technical manual								
Technical datasheets / technical specification/ index cards					x ⁶			
Process flows, flow diagrams								
Manufacturing drawings (also in CAD) (detailed drawing)	x	x	x	x				
Overview drawings (also in CAD) (assembly)	x	x	x	x				
Component drawings / dimension sheet								
CAD model	x	x	x	x				
Verifiable statics								
Complete rod and detailed statics ⁷								
Electrical circuit diagrams, wiring diagrams, article parts list								
Assembly and installation instructions	x ¹²	x	x	x		x	x	
Spare and wearing parts list, incl. details of the original manufacturer designation								
Maintenance checklist (WC)/ maintenance plan/ storage and preservation regulations								
Troubleshooting / troubleshooting table								
Setting parameters and values								

	E1	F1	F2	G1	G2	G3	G4	G5	G6
	Statics	Driven functional components ⁸	Non-driven functional components ⁹	Suction arm	Suction table (=welding table)	Flame-cutting table	Cab	Suction hood ¹⁰	Streambag
		Functional components		Capture and outlet elements					
CE declaration of conformity ¹		x				x			
Cabling certificate		(x)							
Commissioning certificate									
Test and measuring log									
Acceptance log									
Material test certificate according to EN 10204									
Proof of quality testing									
Additional test certificate (ATEX certificate), if necessary		(x)	(x)	(x)	(x)	(x)	(x)	(x)	
Operating and maintenance instructions / technical manual		(x)		x		x	(x)		x
Technical datasheets / technical specification/ index cards		x	x	x	x	x	x	x	x
Process flows, flow diagrams									
Manufacturing drawings (also in CAD) (detailed drawing)									
Overview drawings (also in CAD) (assembly)		(x)	(x)			x			
Component drawings / dimension sheet		x	x	x	x	x	x	x	
CAD model				x	x	x	x	x	
Verifiable statics	x								
Complete rod and detailed statics ⁷	x								
Electrical circuit diagrams, wiring diagrams, article parts list		x							
Assembly and installation instructions		x	x	x	x	x	x	x	
Spare and wearing parts list, incl. details of the original manufacturer designation		(x)	(x)	x	x	x	x	x	
Maintenance checklist (WC)/ maintenance plan/ storage and preservation regulations		x		x	x	x	x	x	x
Troubleshooting / troubleshooting table		(x)				x			
Setting parameters and values									

Final scores

¹Depending on the guidelines applied, different designations are used for the conformity declaration, e.g. declaration of incorporation, manufacturers declaration, conformity declaration, CE declaration, Ü mark. All materials that are subject to building products regulation 305/2011 must display a CE label.

²Documentation in accordance with the requirements of EN 1090, material test certificate according to EN 10294 (assignment of the material test certificates to the components in the structure in EXC 3, assignment of the material test certificates to order in EXC 2). For CE labelling according to EN 1090-1: CE labelling of the individual components and not the whole structure

³Documentation according to the requirements of DIN 18800

⁴The CE labelling must include the following points, among others: number of the in-house production control system, declaration process and static calculation according to the Eurocode.

⁵For assembly award

⁶For hoses

⁷Material specification, proof process, proof of limit deformations and limit bearing capacity, estimate of pre-torsion and distortions, specifications of all foundation forces incl. foundation capacity plan, measurement of the node points

⁸Electrical or pneumatic flaps, rotary valve, double dump valves, trough screw conveyor, fire extinguishing facilities

⁹Manually actuated flaps, curtains or ball valves

¹⁰Stationary and robotic suction hoods

¹¹Non-destructive testing

¹²The assembly and installation instructions may also be provided in the form of drawings, from which the work steps and their sequence is apparent.