

Report of test and inspection results of reinforcing bar joints (For each inspection lot)

Lot No.	Reinforcement joint part	Rebar joint construction method	Type of rebar used	Testing company name	Break position (Enter the number)	Yield point (N/mm ²)					Acceptance /Rejection of inspection lot
		Joint company name	Joint test and inspection method	Test/inspection date	Pass/fail (Enter the number of pcs)	Tensile strength (N/mm ²)					
						1	2	3	4	5	
	Pile/foundation slab/ underground beam /Floor columns/floor beams		SD D		Main()Joint()						Acceptance /Rejection
			Tensile/non-destructive		Pass()Fail()						
	Pile/foundation slab/ underground beam /Floor columns/floor beams		SD D		Main()Joint()						Acceptance /Rejection
			Tensile/non-destructive		Pass()Fail()						
	Pile/foundation slab/ underground beam /Floor columns/floor beams		SD D		Main()Joint()						Acceptance /Rejection
			Tensile/non-destructive		Pass()Fail()						
	Pile/foundation slab/ underground beam /Floor columns/floor beams		SD D		Main()Joint()						Acceptance /Rejection
			Tensile/non-destructive		Pass()Fail()						
	Pile/foundation slab/ underground beam /Floor columns/floor beams		SD D		Main()Joint()						Acceptance /Rejection
			Tensile/non-destructive		Pass()Fail()						
	Pile/foundation slab/ underground beam /Floor columns/floor beams		SD D		Main()Joint()						Acceptance /Rejection
			Tensile/non-destructive		Pass()Fail()						
Testing/ Inspection confirmation table (Total)	Number of joints (spots)		Number of tests		Ultrasonic deep flaw /Measurement inspection (location/lot or %)		Change reason				
	Plan	Implementation	Plan	Implementation	Plan	Implementation					

Concrete testing and inspection results (per inspection lot) report

Lot No.	Casting location		Casting date		Concrete type	Chloride content (kg/m ³)	Slump (cm)	Concrete temperature (°C)	Design standard strength (N/mm ²)	nominal strength (Formulation control strength)	Pass/Fail judgement	Judgment standard strength (N/mm ²)		Pass/Fail judgement	Material Age (day)	Compressive strength ③ (N/mm ²)	Testing company name (Registration number)
	Casting volume(m ³)		Weather	Temperature (°C)	Cement type	Measuring instrument	Air volume (%)	Sample curing method	Quality standard strength (N/mm ²)	Compressive strength ① (N/mm ²)		Material age	Material		Compressive strength ② (N/mm ²)	Material Age (day)	Compressive strength ④ (N/mm ²)
	Pile/Foundation slab /Underground beam /Super structure~ Floor slab				Regular / Light 1 / Light 2												
					N · H ()												
	Pile/Foundation slab /Underground beam /Super structure~ Floor slab				Regular / Light 1 / Light 2												
					N · H ()												
	Pile/Foundation slab /Underground beam /Super structure~ Floor slab				Regular / Light 1 / Light 2												
					N · H ()												
Testing confirmation table (Total)	Casting volume (m3)		Number of testing's (No.)		Other number of testing (No.)		Change reason										
	Plan	Implementation	Plan	Implementation	Plan	Implementation											

1 Compressive strength

①Acceptance inspection (standard curing sample) =Inspection of concrete to be used

②Sample for supporting removal timing (On-site watering curing sample)

③Inspection of structural concrete (On-site watering curing) 、 On-site sealing cure、 Core or standard cured specimen)

④Specimen for determining prestress introduction timing (on-site under water curing specimen)

Construction management situation report for reinforcing bar and concrete construction

Main instructions for construction designer inspections, etc. • Indications and correction method.

Person who performed work involved with testing and inspection	Structural concrete (If you are not the contractor, enter the name of the company)			Reinforcing bar joint (If you are not the contractor, enter the name of the company)		
	Concrete collection	Air/slump test /Test piece production	Transport to testing laboratory	Test piece collection	Transport to testing laboratory	
	Construction contractor	Construction contractor	Construction contractor	Construction contractor	Construction contractor	

Confirmation of results based on the construction plan

Concrete construction	Confirmation of Strength								
	Cover thickness control								
	Curing method and casting defect inspection								
Reinforcing bar construction	Construction work	Joint type	Gas press welding joint	Mechanical joint		Welding joint		Lap joint (Other)	
		Location to used							
		Joint method name (Welding material)							
		Joint work company Name (Superior gas welding company)							
		SA class joint			Have/Haven't				
		A class joint	Have/Haven't		Have/Haven't		Have/Haven't		
			A class	Other	SA, A class	Other	A class	Other	
		Confirmation of skills and pre construction test							
	Using a cold square cutter								
	Testing/Inspection	Visual inspection (%)							
		Tensile test only (Location/Lot)							
		Ultrasonic flaw detection /Measurement inspection (location/lot or %)							
Combine with tensile test									

	Tensile testing company name	Registration No.
	Name of non-destructive inspection agency	Registration No. Inspector License
	Appearance inspection operator	Construction management/Construction contractor/Inspection company Registration No. Inspector License

Troubleshooting method

Concrete construction	
Rebar construction	
Retaining wall construction	
Temporary construction	
Other	

Confirmation item report of foundation reinforcing bar arrangement

Part to be inspected (circle with ○)		Foundation construction		
Confirmation item		Confirmation contents	Construction contractor	Construction designer
			Confirmation method	Confirmation method
① Whole	Common	a) Column, beam, wall, slab location confirmation		
		b) Ensuring cover thickness		
		c) Rebar material quality (JIS standard) confirmation		
		d) Concrete material quality (JIS standard) confirmation		
② Ground/Foundation	Supporting ground (Describe each of the test pile (trial) and the main pile.)	a) Confirmation of the position, type, bearing capacity, etc. of the supporting ground		
		b) Confirmation of position and type of supporting ground for piles (including load test)	Test	
	Main			
	Pile type, Reinforcing bar arrangement (About Testing pile and main pile)	a) Bore pile, Method, Length, Diameter, Location, Pile head treatment, joint, Main bar diameter • Quantity, Cover, Confirmation of reinforcement due to eccentricity	Test	
			Main	
		b) PC pile material, Method, Length, Diameter, Location, Pile head treatment, Joint, Confirmation of reinforcement due to eccentricity	Test	
			Main	
		c) Steel pipe pile material, Method, Length, Diameter, Location, Pile heat treatment, Joint, Confirmation of reinforcement due to eccentricity	Test	
			Main	
		d) Diagram continuous wall material, Method, Length, Diameter, Location, Joint, Reinforcing steel, Confirmation of reinforcement due to eccentricity		
		e) Pile material for evaluation method, etc., Method, Length, Diameter, Location, Pile head treatment, Joint, Main bar diameter • Quantity, cover, Confirmation of reinforcement due to eccentricity	Test	
			Main	
		f) Water condition during piling construction	Test	
			Main	
		g) Eccentricity status (within construction error tolerance, necessity of reinforcement, change procedure not required/required/completed)		
h) Confirmation of ground improvement materials, construction methods, diameters, lengths, positions, strength, etc.				

		i) Confirmation of ground anchor direction, material, construction method, yield strength, etc.		
	Foundation type, Rebar arrangement	a) Confirmation of raft foundation type, member dimensions, main reinforcement diameter, number, position, pitch, anchorage, etc.		
		b) Confirmation of continuous foundation type, member dimensions, main reinforcement diameter, number, position, pitch, anchorage, etc.		
		c) Confirmation of independent foundation type, member dimensions, main reinforcement diameter, number, position, pitch, anchorage, etc.		
	Underground beam	Underground beam section dimensions、 Main bar diameter、 Quantity、 Location、 Setting method、 Joint (Location、 Length)、 Position of stirrup bars、 Diameter、 Space、 Shape、 Reinforcement of eccentricity、 Through hole location and reinforcement (Confirmation of product grade specifications) confirmation		
	Mass concrete	Casting plan、 Concrete temperature、 Temperature、 Curing、 Confirmation of concrete condition、 Repair, etc.		
	Column Pedestal	a) Exposed column base Anchor bolts arrangement、 Setting Length、 Shape、 cross-sectional area、 Nut detent、 Base plate thickness、 Hole diameter、 Edge distance etc.		
b) Root wrap type Height of root wrap、 RC column main bar 、 Shape、 Stirrup Embedded type Depth of embedded part、 reinforcing bars of corner posts, cover thickness of steel frame				
③Column	General floor main bar	a) Column dimension、 Main bar diameter、 Number of bars、 arrangement (director)、 Confirmation of reinforcement due to eccentricity		
		b) Double bar position (space) confirmation		
	Bottom floor main bar	Confirmation of setting of the main bar at foundation of bottom floor		
	Setting/Joint	a) Main bar joint position and length confirmation		
		b) Confirmation of reinforcing bar arrangement by the size of the additional part		
	Stirrup	a) Rebar diameter、 space、 Number of bars (Also stripe rebar) and shape confirmation)		
		b) Main bar tie part、 bend part stripe bar confirmation (Reference: Reinforcement Arrangement Guidelines 「Column bar tie position and tie method」 , etc.)		
		c) Confirmation of stripe bar arrangement of intersection part		
		d) Confirming the position of the first stirrup and the binding stirrup of the capital of column.		
		e) Confirming of welding shape of stirrup hook and union.		
④Beam	Beam main bar	a) Beam section dimension、 Beam main bar diameter、 Number of bar and position confirmation		
		b) Securing the spacing of the middle suspension rebars and checking the length.		
	Setting/Joint	a) Beam rebar setting length, position confirmation		
		b) Lap joint position and length confirmation		
		c) Confirmation of hooks on the ends of reinforcing bars at the corners of beams		
	Extra size, reinforcement of through-holes	Is the reinforcement method of extra size appropriate or not, and confirming of through-hole position and reinforcement (Confirming of product assessing specifications).		
Stirrup bars	a) Stirrup bars diameter、 Number of bars (secondary stirrups) and pitch confirmation			

		b) Stirrup bar hooks shape, cohesion confirmation		
	Cantilever beam	Cantilever beam main bars setting, stirrup bars position confirmation		
	Small beam	Small beam arrangement position and setting confirmation		
⑨Slab	Slab bars	a) Support conditions for slab thickness, dimension, rebar pitch and diameter confirmation		
		b) Main bar arrangement (short side/long side and bent rebar arrangement) confirmation.		
	Setting, lap joint	a) Setting and length and (beam setting, adjacent slab, different level slab setting)		
		b) Fixing the cantilever slab and securing the position of the upper end rebar (with or without end point wall)		
		c) Joint position and length		
	Reinforcement rebars	a) Reinforcement of out and in corners of floor slabs		
		b) Hole opening part reinforcement bars confirmation		
		c) Stair part rebar arrangement and reinforcement rebar confirmation		
	⑩Wall	Wall rebars	Wall thickness, Rebar diameter, pitch, position (earth pressure wall main bars/stair support bars) confirmation	
Setting/lap joint		a) Sitting confirmation (beam, column, slab, wall setting)		
		b) Lap joint position and length confirmation		
Reinforcement bar		a) Hole opening reinforcement bars confirmation		
		b) Slit (completely, part) position, shape and rebars arrangement confirmation		
⑪Other	Facility piping	Facility piping (CD pipe) arrangement confirmation		
	Gas pressure welding joint	a) Welding part length and bulge diameter, Welding surface misalignment, Confirmation of eccentricity of rebar central welding axis		
		b) Welding part inspection (tensile test, Ultrasonic testing, etc.) Inspection location, inspection rate, passing rate confirmation		
	Special rebars joint	a) Certification, confirmation of the specifications of the evaluation method and joint performance		
		b) Certification, Confirmation of mortar, grout material or torque for non-rated product.		
	Confirmation of formwork and existing placement	a) Formwork and supporting tightening, clean situation confirmation		
		b) Defected concrete treatment, removal and repair of wooden pieces such as formwork		
		c) Foundation, column, beam, floor board, wall structure dimension confirmation		
		d) Confirmation of supporting retention period of formwork		
		e) After concrete casting curing		
		f) Concrete mixing and confirmation of compressive strength		
EXP.J confirmation	Position and space confirmation			
PCa quality / strength confirmation	a) Concrete mixing and compressive strength confirmation b) Rebar arrangement confirmation c) Cover thickness confirmation d) Dimensional accuracy confirmation e) Confirmation of joining and tightening, etc. f) Product inspection result (Dimensional accuracy, casting defect, etc.) g) Have or haven't of structural part detrimental cracks and other defects after built			

	Prestressed concrete setting and materials confirmation	a) Prestressed concrete setting method confirmation, mortar strength of crimping surface b) Confirmation of tension material strength of prestressed concrete c) Confirmation of PC strength when production prestress d) Confirmation of prestress production tension		
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(Caution): Confirmation method

A : Visually confirmation at the construction site

B : Measure inspection by using inspection equipment at the construction site

C : Confirmation by report

D : Measure inspection by using inspection equipment at the factory and result confirmed by the construction management and construction contractor

E : Measure inspection by using inspection equipment by a third-party organization and result confirmed by construction management or construction contractor

F : Construction management (Structure responder : Company name _____ Person in charge name _____) directly confirmed

- The construction management and construction contractor fill in confirmation method from A to F as a reference. In addition, for important items such as rebar arrangement work, fill in [+F] (example: A+F, B+F, C+F) for items directly confirmed by person in charge of structure who are in list of construction management organization chart.

Reinforcement concrete structure

confirmation items report

Confirmation item		Confirmation contents	Construction contractor	Construction management
			Confirmation method	Confirmation method
① Whole	Common	a) Column, beam, wall, slab location confirmation		
		b) Ensuring cover thickness		
		c) Rebar material quality confirmation		
		d) Concrete material quality confirmation		
② Ground/Foundation	Ground supporting (Describe each of the test pile and the main pile)	Ground supporting location, type, soil bearing capacity confirmation		
	Foundation/ pile type, rebar arrangement (Describe each the test pile and the main pile)	Foundation type, pile construction method, length, diameter, location, pile head treatment, confirmation of reinforcement due to eccentricity, base dimensions, main bar diameter, quantity, position, setting confirmation		
	Underground beam	Underground beam section dimension, main bar diameter, quantity, position, setting method, joint (position, length), stirrup bars position, diameter, space, shape, confirmation of reinforcement due to eccentricity		
③ Column	General floor main bar	a) Column dimension、 Main bar dimension、 quantity、 Arrangement (direction), confirmation of reinforcement due to eccentricity		
		b) Double bars position (space) confirmation		
	Top floor main bar	Column rebar fix height, main bar external corner hooks confirmation, Confirmation of fixation to the beams of the main bar on the top floor		
	Bottom floor main bar	Confirmation of fixation of the main bar on the bottom floor to the foundation		
	Setting/joint	a) Main bar joint position and length confirmation		
		b) Confirmation of reinforcing bar arrangement by the size of the additional part		
	Stirrup	a) Rebar diameter, space, quantity (Confirmation of rebar diameter, spacing, number (secondary stirrup) and shape)		
		b) Confirmation of reinforcement of stirrup at main reinforcing bar narrowed part and bent part		
		c) Confirmation of the arrangement of the stirrup at the joint		
		d) Confirmation of location of first stirrup and column head stirrup binding		
e) Confirmation of stirrup hook or shape of welding, joint				
④ Beam	Beam main bar	a) Confirmation of beam section dimension, main bar diameter, position of number of rebar		
		b) Securing the spacing of the suspension bars and checking the length		
	Setting/Joint	a) Beam rebar fixing length, location confirmation		

⑤ Slab		b) Lap joint position and length confirmation		
		c) Beam rebar outer end part rebar head hooks confirmation		
	Addition part, reinforcement of through holes	Is the reinforcement of additional part appropriate, confirmation of through holes position and reinforcement (Confirmation of graded product specification)		
	Stirrup rebars	a) Stirrup rebars, quantity (Secondary stirrups) pitch b) confirmation		
		c) Stirrup bars hook shapes, cohesion confirmation		
	Cantilever beam	Cantilever beam main bars setting, stirrup bar position confirmation		
	Small beam	Small beam bar arrangement position and setting confirmation		
	Slab rebars	a) Check slab thickness support conditions, dimensions, rebar pitch and diameter		
		b) Main bar arrangement (Short side/long side and bent reinforcement arrangement) confirmation		
	Setting, lap joint	a) Setting and length and method (beam setting, adjacent slab, different level slab setting)		
c) Fixing the cantilever slab and securing the position of the upper rebar (with or without wall hook)				
d) Joint position and length				
Reinforcement rebar	a) Reinforcement of in and out corner of floor slabs			
	b) Opening hole reinforcement rebar confirmation			
	c) Stair part rebar arrangement and reinforcement rebar confirmation			
⑥ Wall	Wall rebar	Wall thickness, rebar diameter, pitch, location (earth pressure wall main rebar/stair support rebar) confirmation		
	Setting/lap joint	a) Setting confirmation (beam, column, slab, wall setting)		
		b) lap joint position and length confirmation		
	Reinforcement rebar	a) Opening hole reinforcement rebar confirmation		
b) Slit (whole, part) location, shape and rebar arrangement confirmation				
⑦ Others	Facility piping	Facility piping (CD pipe) arrangement confirmation		
	Gas pressure welding joint	a) Welding part length and bulge diameter, welding surface gap, Confirmation of eccentricity of rebar central axis		
		b) Welding part inspection (tensile test, Ultrasonic testing, etc.) inspection point, inspection rate, passed rate confirmation		
	Special rebar joint	a) Confirmation, evaluation method specification and joint performance confirmation.		
		b) Confirmation, Confirmation of mortar, grout material or torque for non-rated products		
	Confirmation of formwork and existing placement	a) Formwork and supporting tightening, cleaning situation confirmation		
		b) Defected treatment, removal and repair formwork wood chips		
		c) Foundation, column, beam, floor plate, wall structure dimension confirmation		
d) Formwork supporting retention period confirmation				
e) Curing after concrete casting				
f) Concrete mixing and compressive strength confirmation				
EXP.J confirmation	Location and space confirmation			

PCa quality, strength confirmation	a) Concrete mixing and compressive strength confirmation b) Rebar arrangement confirmation c) Cover thickness confirmation d) Dimensional accuracy confirmation e) Connection and tightening confirmation f) Product inspection result (dimensional accuracy, casting defected, etc.) g) Have or haven't of structural material detrimental cracks and other defects after built		
Prestressed concrete setting and material confirmation	a) Prestressed concrete setting method confirmation, crimping surface mortar strength b) Prestressed concrete tension material strength confirmation c) PC strength confirmation during prestressed producing d) Prestressed production tensile strength confirmation		

(Caution) Confirmation method

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C : Confirmed by the report

D : Measurement test using inspection equipment at the factory, etc., and result confirmed by the construction management or construction contractor

E : Measure inspection by using inspection equipment by a third-party organization and result confirmed by construction management or construction contractor

F : Construction management (Structure responder : Company name _____ Person in charge name _____) directly confirmed

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