



GENERAL PROJECT INFORMATION		info 1	info 2
Design working file	EN 1990 (Table 2.1)	50 years	category 4
Building category	C2	CC2	Main steel frame
Reliability	RC2	RC2	Special structures
	RC2	RC2	Main steel frame
	RC2	RC2	Special structures
Applicable fire standard:			National Standard
The classification of building		No requirements	
Environmental classification:		No requirements	
	EN ISO 15644	C4	structures inside structures outside
Expected durability of corrosion protection:		Over 15 years	H (high)
Surface treatment, painting		EN ISO 15646-5	Steel frame
For use galvanizing		EN ISO 1461	Steel frame and gratings

MATERIALS		AD Requirements	
• Hot-rolled H and I sections	grade	A992	EN 10025-2
• Hot-rolled C and L sections	S355JR	S355JR	EN 10025-2
• Welded built-up sections	S355J2	S355J2	EN 10025-2
• Hot-finished tubular sections	S355L20	S355L20	EN 10025-1
• Cold finished hollow sections	S355J2H	S355J2H	EN 10219-1
• Plates in compression	S355L20H	S355L20H	EN 10025-2
• Structural Steel Sheet	S14037		EN 10098-2
CONNECTIONS		Dimensional standard	
Fasteners in steel connections	grade	A4-70	EN 10014
Bolts	M20, M30	8.8 (EN ISO 898-1)	EN 10017
Bolts	M16, M18	8.8 (EN ISO 898-1)	EN 10017
Nuts	M16, M30	8.8 (EN ISO 898-1)	EN 10017
Washers	M20, M30	20H4H	EN 10078
Washers	M16, M18	20H4H	EN 10078
Nuts in pre-bolted connections	M20, M30	8.8 (EN ISO 898-1)	EN 10017
Nuts in pre-bolted connections	M20, M30	10 (EN ISO 898-1)	EN 14399-3 (HR)
Washers in pre-bolted connections	M20, M30	H/200	EN 14399-3
Tightening of bolted connections			
Non-pre-bolted bolts	EN 10990-2 (Section 8.3)		
Pre-bolted bolts	EN 1090-2 (Section 8.5)		
Welding of pre-bolted bolts	Welding (PRE)		
Fasteners to concrete:			
• drilled anchors	8.8 (EN ISO 898-1)	HEALTHY(U) + HAS-E(F) not approved	
• expanded fasteners	1.4307 (EN 10082-2)	Structures connection plate for concrete	

Diagram illustrating the typical saddle clip assembly. The diagram shows a cross-section of the clip with dimensions: 6 inches (width), 1/2 inch (height), and 1/4 inch (thickness). The clip is labeled "TYPICAL SADDLE CLIP". Below the diagram, the text reads: "STANDARD CLIP PILING OF CRATING".

Mark	Sts	Date	Name	Approved	REVISED				Revisions			
01		21.02.2018	KCC									
ITEM / DOWNSIDE		POS		DESCRIPTION		DESIGNATION/CONSTRUCTION/MATERIAL/FORMING				NET WEIGHT		
		SURFACE Q235 Ra μm		QUALITY Q235 Q235 1748 - A K		QUALITY Q235 Q235 1920B - B F		QUALITY Q235 Q235 1981 - E		QUALITY Q235 Q235 1952		
		CUSTOMER NAME Bunge Andriessen		CUSTOMER'S SPEC. NAME LOCATION OF MILL Virtrol, Belgium		CUSTOMER'S POS. NAME POR0061312				SYSTEM AHC4AD		
NO. / PROJECT NO. ATA087		LANGUAGES EN / FI		SCALE		DRAWN ASKED		DATE 11.02.2018		DATE 11.02.2018		
DOCUMENT NAME 3D modelling						TOULU		DATE 11.02.2018		DATE 11.02.2018		
TITLE Batch Cooking						DRAWING		DATE 11.02.2018		DATE 11.02.2018		
ACCOMPANIMENT 2, service platforms, steel structures										PROJECT 17 /		
REASON FOR ISSUE										PROJECT 17 /		
POR0061312										01		