

कोचीन शिपयार्ड लिमिटेड/COCHIN SHIPYARD LIMITED
कोच्ची/COCHIN - 682 015

पोत निर्माण प्रभाग/SHIP BUILDING DIVISION
आउटसोर्सिंग विभाग
OUTSOURCING DEPARTMENT



निविदा दस्तावेज़/TENDER DOCUMENT

TENDER NO. SB-OSD/MPV/750/2023 Dtd 28-02-2023

**FABRICATION AND SUPPLY OF HATCH COVERS &
TWEEN DECK PANELS/ GRAIN BULKHEADS FOR ECO
FRIEGHTER, MULTI PURPOSE VESSELS 7K
MPV – 8 No VESSELS [SH 029 – SH 036]**



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ONE EARTH • ONE FAMILY • ONE FUTURE



FEBRUARY - 2023

TENDER ENQUIRY NOTICE – Fabrication & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads for MPV vessels

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निविदा सूचना / TENDER NOTICE

कोचीन शिपयार्ड लिमिटेड / COCHIN SHIPYARD LIMITED
पोत निर्माण प्रभाग / SHIP BUILDING DIVISION

आउटसोर्सिंग विभाग
OUTSOURCING DEPARTMENT

SB-OSD/MPV/750/2023

28th FEBRUARY - 2023

निविदा सूचना / TENDER NOTICE

संक्षिप्त विवरण / BRIEF DETAILS:

निविदा जांच संख्या और तारीख Tender enquiry No. and date	Tender enquiry No. and date	SB-OSD/MPV/750/2023 Dtd: 28.02.2023
कार्य का नाम Name of work	Name of work	Fabrication & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads for Eight (08) number Multi - Purpose Vessels (7000 DWT Eco Freighter)
निविदाएं प्राप्त करने की अंतिम तिथि और समय Last date & time of receipt of Tenders (भाग/Part I – तकनीकी-वाणिज्यिक बोली और भाग – II मूल्य बोली/ Techno-Commercial Bid & Part II-Price Bid)	Last date & time of receipt of Tenders (Part I – Techno-Commercial Bid & Part II-Price Bid)	14 th March - 2023 at 15.00 Hrs IST
पूर्व बोली बैठक की तारीख Date of Pre bid meeting	Date of Pre bid meeting	08 th March - 2023 at 11.00 Hrs IST



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भाग I (तकनीकी-वाणिज्यिक) बोली खोलने की तिथि और समय Date & time of opening of Part I (Techno –Commercial) Bid	Date & time of opening of Part I (Techno – Commercial) Bid	14th March - 2023 at 15.30 Hrs IST
संपर्क व्यक्ति Contact Person	Contact Person	<u>For Commercial queries:</u> Mr. Adarsh.S, Mob No : 87146 30926, (Outsourcing Dept) <u>For Technical queries:</u> Mr. Joby Varghese, Mob. No: 98957 04410, AGM (HF-2)

Note: Before quoting against this Tender, the prospective bidder is requested to go through the Tender Enquiry document (& Annexes, if any) thoroughly & carefully. Deviations to the Terms & Conditions of the Tender are highly discouraged. Therefore, any doubts arising in respect of any of the Terms & Conditions stipulated, Qualification Criteria, Eligibility for exemption from submission of EMD, clarification if any w.r.t. Documentation / Procedural requirements, etc. shall get clarified by the prospective bidder through above noted contact persons invariably before the submission of the Bid.

- Cochin shipyard Limited, a leading Ship Building & ship repair industry and also well known player on the global ship building front, invites interested, reputed, resourceful and financially solvent firms/contractors to submit **single stage two part bids**.**
- The Sealed competitive tenders in the prescribed form should be as per the terms and conditions as mentioned in the annexure to tender enquiry,
- The pre-bid meeting will be held on 08.03.2023 at SB Conference Hall of CSL from 11.00 AM. to discuss the detail scope of work of the tender. The Contractors interested to participate in Pre-bid meeting should inform and forward their Pre-bid queries (if any) by 07.03.2023 positively.
- Information to participate in pre-bid meeting and queries, if any should be forwarded in time to following mail ID: jithu.gl@cochinshipyard.in
- The tenders are to be submitted in two bid system; **Part I : Techno Commercial Bid** and **Part II : Price Bid** as Soft copy and should reach the undersigned on or before the date and time as stipulated:



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6. MODE OF SUBMISSION OF BIDS

3a. Tender should be submitted in soft copy via E-mail only. CSL will not accept any other mode of tender considering prevailing COVID -19 SOP of CSL.

3b. The subject of the E mail should clearly state the tender enquiry number and due date of submission. Price Bids are to be password protected and password is not to be forwarded unless asked for.

3c. Tender Documents should be submitted in PDF Format and Directly openable from the PDF format. Offers not complying with the above shall be summarily rejected without further intimation.

3d. Tenders, Techno- commercial bid (Part-I) and Price bid(Part -II) shall be submitted separately via e mail to:

(i) jithu.gl@cochinshipyard.in

Copy to:

(ii) madhu.pk@cochinshipyard.in

(iii) ajithkumar.n@cochinshipyard.in



7. The Bids shall be received at Cochin Shipyard Ltd on or before 15.00 Hrs on 14th March - 2023 and Part I Techno-Commercial Bid will be opened at 15.30 Hrs on the same day.

8. Late tenders / tenders with conditions will be summarily rejected.

9. CSL takes no responsibility for delay, loss or non-receipt of tenders sent by e-mail.

10. Only technically qualified bids will be considered for price bid opening. After evaluating the bids for both technical aspects and commercial terms, the techno-commercially qualified bidders will be intimated regarding the date and time of opening of Part II - Price Bid. Intimation will be as per prevailing SOP with respect to the COVID-19 situation, until such time COVID-19 protocol is applicable in CSL.

11. Merely opening of Techno-Commercial Bid cannot be construed as acceptance of offer for awarding of contract.

12. All rules & regulations specified by the Govt of Kerala and CSL, pertaining to the present COVID-19 pandemic situation should be adhered by the bidder.

13. The following shall be submitted along with Part I (Techno-commercial) Bid:-

- i. **Original tender document duly signed on all pages** - including Terms & conditions of enquiry, general conditions, technical specification and drawings placed at Annexure I, II, III, IV, V, VI & Appendix A,B,C,D,E,F,G &H.
- ii. **The techno commercial Check List** at Annexure IV filled up completely and duly signed. **The non submission of duly filled techno commercial checklist will lead to the rejection of the bids.**

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- iii. **Copy of un-priced bid format** (price bid WITHOUT prices/numerals)
- iv. List of deviations/exclusions from the tender enquiry terms and conditions (if any).

14. PRE CONTRACT INTEGRITY PACT

The bidders who are participating in the tender shall sign the pre contract integrity pact, in case the bid is above Rs 1 crore.

15. MSME- PRIVILEGES

Public procurement policy initiatives of Govt. of India, pertaining to MSME's, Start-up etc. as per CSL website (www.cochinshipyard.in) shall be applicable for this tender.

16. Cochin Shipyard Limited (CSL) has registered in the **TReDS Portal viz., RXIL, M1xchange and Invoice Mart**. Those vendors who have registered in the TReDS portal may upload the invoice in the respective portal under an intimation to concerned executing officer for processing the payment through TReDS portal. Sub Contractors are requested to check with the concerned executing officer regarding the Quality inspection status, where ever applicable, before uploading the invoices in TReDS portal.

17. General Manager, Ship Building Division, Cochin Shipyard Limited, is the authorized person to accept the tender or part thereof, who does not bind himself to accept the lowest tender and reserves the authority to reject any or all of the tenders received without assigning any reason.



कृते उप महाप्रबंधक / For Deputy General Manager
आउटसोर्सिंग विभाग / Outsourcing Department



ANNEXURE- I

जांच की नियम और शर्तें / TERMS & CONDITIONS OF ENQUIRY

OUTSOURCING OF FABRICATION & SUPPLY OF HATCH COVERS AND TWEEN DECK PANELS/ GRAIN BULKHEADS FOR EIGHT (08) NUMBER MULTI -PURPOSE VESSELS (7000 DWT ECO FREIGHTER).

1. कार्य का विवरण / DESCRIPTION OF WORK

- 1.1. This tender enquiry pertains to the awarding of contract for **Outsourcing of Fabrication & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads** for Eight (08) number Multi -Purpose Vessels (7000 DWT Eco Freighter). as per the following documents:
 - 1.1.1. Cochin Shipyard Ltd - Terms and conditions (Annexure I)
 - 1.1.2. Cochin Shipyard Ltd - General conditions (Annexure II)
 - 1.1.3. Enquiry specification (Annexure III)
- 1.2. The scope of work includes Fabrication, outfitting & supply of approximately **2850 Tonnes** of Hatch covers and Tween Deck Panels/ Grain bulkheads for Eight (08) number Multi -Purpose Vessels (7000 DWT Eco Freighter) to the entire satisfaction of CSL / Owner / Class surveyor, and up to the delivery of the vessel; with materials provided by Cochin Shipyard Ltd (CSL) in accordance with the Scope of work specified at Annex-III and drawings, delivery schedule, CSL - Terms and conditions in all respects.
- 1.3. *Bidders are requested to study the scope of work before submitting their offer. Clarification, if any, required may be obtained from AGM (HF-2) before quoting.*

2. विक्रेताओं के लिए पात्रता मानदंड / PRE - QUALIFICATION FOR BIDDERS

- 2.1. The Bidder should qualify the following PQ Criteria:
 - a. The bidder should have prior experience in similar works during last 7 years ending 31 Jan 2023 and should be conversant with Ship Building /Ship repair/ Ship Construction procedures or paramilitary ships or submarines or offshore structure so that they could adhere to the CSL / Naval and Class requirements & specifications while carrying out fabrication & outfitting works.
 - b. The Bidder shall be a single firm/ Consortium / Joint venture having experience in Hull block fabrication and outfitting works. However lead firm should be in the field of Hull



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fabrication works. Consortium/ joint venture can be in the field of CNC Cutting, Blasting painting etc.

- c. The Bidder should furnish the required work-specific information and documentary evidence such as copy of work order / agreement and a certificate from the employer for satisfactory completion of work or any other relevant document indicating completion of work shall be submitted to CSL in support of its claim of experience.
- d. Bidder or consortium firm should have required facilities to execute entire scope of work such as Fabrication facility including cranes, welding machines, qualified welders, blasting & painting, CNC/ Plasma Cutting facility compatible with the cutting programme format provided by CSL.
- e. Bidder should specify mode of to and fro transportation and action plan for water transport.
- f. Bidder shall have an average annual turnover during last 3 years, ending 31st March of the previous financial year not less than Rs. 2.5 Crore (INR).

2.2. Bidder shall not be under a declaration of ineligibility issued by Govt. of India/ State govt./ Public Sector Undertakings etc. The bidder shall not have been debarred / black listed by CSL or by any of the Public Sector Undertaking or Government department etc.

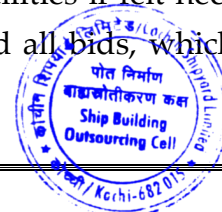
2.3. For order value above one crore, existing sub contractors with HSE rating of 4 stars or above only will be considered and for new vendors, these vendors who are submitting CSL approved HSE plan along with the tender document only will be considered.

2.4. The firm has to submit the documents, which validates the above mentioned requirements. CSL reserves the right to demand for a hardcopy of any of the above documents and any other related documents, if required. Bidders shall comply with the same.

2.5. All the qualifying documents indicated in the tender shall be strictly in the name of bidding firm. If the bidding firm is in consortium with other firm (Consortium agreement placed at **Appendix-B** to be duly signed by both firms). Qualifying documents submitted in the name of any other than bidding/consortium firm will not be considered for bidding firm's qualification.

2.6. Bidder should submit duly signed compliance matrix placed at **Appendix - A**

2.7. **RIGHT TO VERIFICATION:** CSL has the right to verify the authenticity of the above documents submitted by the Subcontractor and/or inspect the facilities if felt necessary. Based on this CSL reserves the right to accept and reject any and all bids, which in its opinion, appears to be most advantageous to CSL



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3. प्रस्ताव की वैधता/VALIDITY OF OFFER

3.1. The offer shall be valid for acceptance for a period of 90 days from the date of opening of the Part-I Techno-Commercial Bid.

4. काम और सुविधाओं की जगह / PLACE OF WORK & FACILITIES

4.1. The work is to be carried out by the contractor at their own premises utilizing CSL supplied materials using contractor's resources; facilities including contractors supply scope and labour, transportation etc.

5. अनुबंध प्रदान करने का तरीका / METHOD OF AWARDING CONTRACT

- 5.1. Total vessels under this contract for Fabrication & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads are for 8 Nos MPV vessels (SH-29 - 39)
- 5.2. Contract will be concluded with the Bidder qualifying to techno-Commercial conditions and emerging as L1 and bidder willing to match with L1 rate as per below noted clauses.
- 5.3. Considering the heavy quantum of work associated with the Fabrication, Outfitting & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads for 8 Nos. MPV vessels and also considering the limited time period available for project completion, CSL reserves the right to split order at L1 rate.
- 5.4. The scope of work corresponding to Four (4) vessels is assured for L1 bidder. Balance 4 vessel will be awarded to other two bidders who are willing to match the L1 rate. Selection of this bidder will be in the sequence of ascending order of lowest rate quoted. Percentage of work distribution will be in the order of 50%, 25% and 25% respectively for L1 and other two L1 matching bidders (i.e Firm 1 - 50% Firm 2 – 25%, Firm 3 – 25%)
- 5.5. More clarity on work distribution is as given below:

S.No.	Description	Qty per Vessel	Assured Quantity		
			Firm-1	Firm-2	Firm-3
1	Each Hatch cover is approx. spanning 14 m x 6.7 ~ 7.1 m x 0.66 m and 20~ 21 T weight (Approx.)	12Nos (252 T approx.)	12 Nos. X 4 Vessels	12 Nos.X 2 Vessels	12 Nos.X 2Vessels
2	Each Tween deck panel is approx. spanning 13.2 m x 5.03 m x 0.6 m and 17.3 T weight (approx.)	6Nos. (104 T approx.)	6 Nos.X 4 Vessels	6 Nos.X 2 Vessels	6 Nos.X 2 Vessels

NOTE: Firm-1 : L1 bidder, Firm-2&3: L1 rate matching bidders



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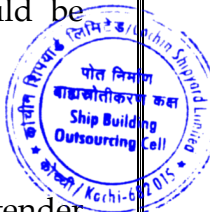
- 5.6. If, no one is willing match L1 rate 100% work (work corresponding to 8 Vessels) will be awarded to L1 firm. If only one firm is willing to match L1 rate, the work distribution will be in the order of 5 Vessels for L1 firm 3 vessels for L1 rate matching firms
- 5.7. However, CSL reserves right to reduce/ increase the percentage work based on the performance at site.
- 5.8. Once work order is placed successful bidder should be able to start the works immediately.
- 5.9. CSL reserves the right to cancel the tender if required.
- NOTE:** 'Work distribution in Vessels' means scope of works comes under each vessel as per Annex-III.

6. कार्य की प्रगति तथा समापन की समय-सारणी/WORK PROGRESS AND SCHEDULE OF COMPLETION

- 6.1. Fabrication, out fitting and delivery of Hatch Cover (HC-01 to HC-12) and Tween deck (TC-01 to TC-06) per ship at CSL is 75 days from the date of intimation to collect the material from CSL, Perumanoor P.O,Kochi-15. (Please refer Clause-12 of Annex-III regarding delivery)
- 6.2. If, the entire contract is awarded to a single firm, they should able to execute the works of multiple vessels (8 vessels) at a time to meet CSL time lines.
- 6.3. CSL shall indicate the master construction schedule of completion of the work of vessel. The contractor in turn shall submit their detailed scheduled of completion of the work, in consultation with the officer In-charge. The progress of work shall be made in tandem with the progress of completion of the vessel allowing sufficient time for other interface activities/works.
- 6.4. Yard has the right to change the schedules of the project to the interests of the company and the firm should be capable of adjusting the resources according to the instructions from the Yard contact person.
- 6.5. Detailed working schedule (Weekly/monthly) etc to be prepared and submitted to yard personnel. However, a detailed overall schedule, in a reasonable manner should be submitted prior to commencement of work.

7. कार्य प्रक्रिया / WORK PROCEDURE

- 7.1. Detailed for each category of works are mentioned in the Annexure III to the tender enquiry.



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- 7.2. Necessary job instructions, drawings etc. for the work will be issued by CSL.
- 7.3. Contractor is to carry out the work as per the specifications / drawings supplied, and to the satisfaction of CSL.
- 7.4. Contractor should maintain the quality as per CSL Quality Standards, yard quality procedures. Inspection will be carried out during fabrication by CSL.
- 7.5. Contractor shall submit the weekly /monthly progress reports to CSL.

8. अनुबंध की वैधता / VALIDITY OF CONTRACT

- 8.1. Once the contract is awarded, the price offered and mutually agreed shall remain firm (Contract concluded price as per Annex-V) till completion of work and no escalation in rate shall be allowed by CSL on whatsoever reason thereafter.

9. निरीक्षण / INSPECTION

- 9.1. The complete work has to be carried out under the survey of ship classification society / owner / CSL. For more details please refer Clause No.10.1 to 10.10 of Annexure-III and other relevant clauses under scope of work.
- 9.2. Contractor shall ensure various pre requisite to ensure quality such as qualification of WPS, use of calibrated welding machines and oven's, use of welding consumables approved by DNV, material / welder traceability, facility inspection and clearance by DNV etc.

10. बोलियां जमा करने के लिए दिशानिर्देश / GUIDELINES FOR SUBMISSION OF BIDS

10.1. Technical Bid (Part –I)

- 10.1.1. The technical bid as specified in the scope of work (Annexure III) shall be submitted in single sealed cover, super scribed by the bid No, tender No. and date.
- 10.1.2. **The following shall be submitted along with technical Bid, failing which the bid may be summarily rejected :-**
 - 10.1.2.1. Original tender document general Terms & conditions and technical specifications placed at Annexure I, II & III duly signed on all pages.
 - 10.1.2.2. The commercial Check List at Annexure IV filled up completely and duly signed
 - 10.1.2.3. Copy of un-priced bid format of each category of works at Annexure V.
 - 10.1.2.4. As per Govt. of India guidelines, Integrity pact (IP) should be signed for all contracts above Rs. One Crore. Accordingly IP should be signed and forwarded along with the offer.



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10.1.3. The non submission of duly filled commercial checklist will lead to the rejection of the bids.

10.2. Price Bid (Part-II)

10.2.1. The bid shall be comprehensive of the nature for the Fabrication & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads for MPV vessels shall be inclusive for all the applicable charges envisaged under the scope of the contractor as specified in the technical specification Annexure III.

10.2.2. Bidders shall quote total amount in figures and in words. Corrections and additions if any must be attested/ duly signed by the bidder. In the case of error in multiplication/addition in amount calculated, the rate quoted will be considered as correct and the amount will be calculated accordingly. Conditional rebates & discounts, incomplete/ ambiguous offer will be rejected.

10.2.3. The price bid shall be all inclusive of scope of contractor on lump sum basis and any rates on variable basis will not be accepted within the price bid and thereafter throughout the period of the contract. Any variable rates if deemed inevitable and applicable only in special cases/situations (not in the normal course of execution of contract) will only be considered for mutual agreement.

10.2.4. Price Bid Format: The price bids shall be prepared as per the format given in Annexure V to the enquiry. The bidder must quote all line items as per price bid format any failure in this regard will lead to the rejection of bid.

10.2.5. Rates of individual line items of the overall L1 is considered as L1 rate irrespective of lower rates in case of the line items of other bidders.

10.2.6. Currency: The price bids shall be prepared in Indian National Rupees for all bidders.

10.2.7. As per tender condition, the price bid which were not opened will not be returned back at any reason.

10.2.8. The bids which are not conforming above requirements shall be summarily rejected without any further notice.

11. कर / TAXES

11.1. GST shall be applicable extra on the prescribed work. Bidders should indicate the applicable GST percentage and HSN code of the category in the offer. Bidders are also requested to furnish the following details in the invoice/Bill.

11.1.1. Applicable rate of GST/SAC Code

11.1.2. Firms GST Reg. NO

11.1.3. Service accounting code (SAC) as prescribed by statutory authorities.



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- 11.1.4. GST Reg. No. of Cochin Shipyard Ltd (32AAACC6905B1ZD).
- 11.2. Any new tax/duty that may be made effective by the government for this work and paid by the contractor shall be reimbursed on production of documentary evidence.

12. भुगतान की शर्तें / PAYMENT TERMS

- 12.1. Payment will be made on pro-rata basis against completion of each Hatch cover & Tween deck panel and its outfitting works on certification by the Officer-in-charge. First stage payment will be subject to submission of PBG as per tender clause.
- 12.2. Payment shall be in 3 stages on completion of each 6 Nos of panels per ship (Hatch Cover or Tween deck) against actual weight of completed each set (6 Nos panels) as noted below:
- i) 1st Stage: 50 % payment against completion on Hull fabrication + class survey and comment closing:
 - ii) 2nd Stage : 30% on completion of outfitting work and delivery at CSL
 - iii) 3rd Stage: Balance 20% on final acceptance prior to erection works.
- 12.3. All claims for payment for the work/additional work shall be submitted by the subcontractor within one month of completion of work.
- 12.4. Statutory levies such as I.T, Contribution towards PF, ESI etc., shall be deducted from the bill as applicable.
- 12.5. Payment will be made by RTGS/NEFT to the account of contractor. The name of the bank, branch, A/C No., IFSC code & other particulars shall be furnished by the contractor in the proforma of CSL.

13. सीएसएल द्वारा जारी सामग्री के लिए बैंक गारंटी (क्षतिपूर्ति बांड) / BANK GUARANTEE FOR THE MATERIAL ISSUED BY CSL (INDEMNITY BOND)

The Contractor should furnish a Fixed Deposit/Bank Guarantee for the value of the material taken out from CSL in the approved format of CSL from any of the nationalized banks valid till the acceptance of finished items at CSL. Approximate value of BG to be furnished will be around Rs. 10 lakhs, assuming material taken out is around 150 Tonne in each load.

14. ट्रांजिट बीमा / TRANSIT INSURANCE

All material dispatched from CSL/ returned after completion of work from contractors works to CSL are insured by CSL for Transit risk(Water and Road transport) to full value under “ All risk Insurance cover” till the dispatched materials are returned to CSL.



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15. प्रतिभूति जमा / SECURITY DEPOSIT

15.1. The successful tenderer shall remit 3 % of the value of the contract as security deposit within 15 days of receipt of the work order. This amount has to be remitted by way of demand draft or bank guarantee (in approved proforma of CSL) from any of the nationalized banks, valid till the satisfactory completion of the entire work. The Security Deposit will be released after satisfactory completion of the contract/ guarantee period (if no separate BG as per clause 16 is not furnished) and on certification of nil liability to CSL by Executing Officer. The Security Deposit retained will not bear any interest.

16. निष्पादन गारंटी / PERFORMANCE GUARANTEE

16.1. The complete work carried out by the contractor shall be guaranteed against performance of work and/or poor workmanship for a period of one year from the date of completion of work. Any damage or failure due to defects in execution of the work for a period of 12 months from the date of completion such damage or failure occur within the guarantee period, the contractor shall rectify/rework the defect as applicable without any extra expenditure to CSL and such repaired work shall be guaranteed for a further period of one year from the date of repair.

16.2. Should any unsatisfactory performance and / or damage or failure occur due to poor workmanship and poor quality material used by the contractor, the contractor shall be solely responsible for payment/reimbursement of expenditure incurred by Ship owner for rectifying the defect.

16.3. Towards this, a performance guarantee equivalent to 3 % of the value of the contract to be furnished by the contractor along with submission of first bill in case of pro rata payment or completion of entire work in other cases, as per payment terms, by way of a bank guarantee (in approved proforma of CSL) from a nationalized bank valid till the expiry of the guarantee period.

16.4. Performance Guarantee is applicable for all bidders irrespective of MSME/NSIC registration for necessary coverage under the performance guarantee clause.

17. परिसमापन क्षतिपूर्ति / LIQUIDATED DAMAGES

17.1. The progress of work will be monitored against the mutually agreed detailed schedule referred in clause. Liquidated damages for delays in execution of the work envisaged as per this order, for any reason other than force majeure conditions, will be recovered at the rate of half percent (0.5%) of the basic value of the delayed work per week or part



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thereof, subject to a maximum of ten (10) percent of the basic value of the delayed work.

17.2. The amount of L.D. may be adjusted or set-off against any sum payable to the Contractor under this or any other Contract with CSL. Delays due to any disruptions on account of non-availability of CSL supplied material will be deducted from the total period of fabrication for the purpose of calculation of LD. In the event of non performance or non engagement of man power for the execution of job within the agreed schedule, CSL reserves right to cancel the order and no compensation whatsoever will be entertained. CSL shall also reserve right to impose tender holiday for a period of at least 3 years for similar work in CSL.

18. आदेश रद्द करना और जोखिम अनुबंध / CANCELLATION OF ORDER AND RISK CONTRACTING

18.1. In the event the contractor fails to complete the work promptly and satisfactorily as per the terms of the order, and if the work is delayed beyond the agreed schedule, CSL, without prejudice, reserves the right to cancel the order and get the work done at contractor's cost and the expenditure so incurred including any damage or loss will be recovered from him and the Security Deposit furnished by him is liable to be forfeited either in whole or in part.

18.2. In addition to above tender holiday will be imposed against the firm as per discretion of CSL.

19. कार्मिकों की सुरक्षा और प्राथमिक चिकित्सा/SAFETY OF PERSONNEL AND FIRST AID

19.1. The contractor shall be entirely responsible for the safety of all the personnel employed by him on the work. In this regard, he may adopt all the required safety measures and strictly comply with the safety regulations in force. A copy of CSL's "Safety Rules for Contractors (Revised)" is available with SB-Outsourcing department for reference.

19.2. The Contractor may arrange to suitably insure all his workmen/ other personnel in this regard. CSL will not be responsible for any injury or illness to the Contractor's workmen/other personnel during execution of the works due to whatsoever reasons.

19.3. In this regard, the Contractor will have to fully indemnify CSL against any claims made by his workmen/other personnel.

19.4. The Contractor shall provide and maintain so as to be readily accessible during all working hours, a first aid box with prescribed contents at every place where he employs contract labour for executing the works.



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20. अप्रत्याशित घटना / FORCE MAJEURE

- 20.1. Should failure in performance of any part of this contract arise from war, insurrection, restraint imposed by Government act or legislation of other statutory authority, from explosion, riot, legal lock-out, flood, fire, act of Govt. or any inevitable or unforeseen event beyond human control which will be construed as a reasonable ground for extension of time, CSL may allow such additional time as is mutually agreed to be justified by the circumstances of the case.
- 20.2. The occurrence / cessation of force majeure situation have to be informed with documentary evidence within 15days from the date of occurrence / cessation.

21. मध्यस्थता / ARBITRATION

- 21.1. Any disputes arising during the currency of the contract shall, in the first instance be settled by mutual discussions and negotiations. The results of such resolution of dispute shall be incorporated as an amendment to the contract, failing which the parties can resort to arbitration.
- 21.2. If any dispute, disagreement or question arising out of or relating to or in consequence of the contract, or to its fulfillment, or the validity of enforcement thereof, cannot be settled mutually or the settlement of which is not herein
Specifically provided for, then the dispute shall within thirty days from the date either party informs the other in writing that such disputes, disagreement exists, be referred to arbitration. The arbitrators shall be appointed and the arbitration proceedings shall be conducted in accordance with and subject to the Arbitration and Conciliation Act, 1996 (No. 26 of 1996) as amended from time to time and the decision of the Arbitrators shall be final and binding on the parties hereto. The arbitration will be done by a Board comprising one officer nominated by each party, and a mutually agreed Umpire. Each party shall bear its own cost of preparing and presenting its case. The cost of arbitration shall be shared equally by the parties unless the award provides otherwise. The enforcement of the award shall be governed by the rules and procedures in force in the State in which it is to be executed. Performance under this Contract shall however, continue during arbitration proceedings and no payment due or payable by the parties hereto shall be withheld unless any such payment is or forms a part of the subject matter of arbitration proceedings.
- 21.3. In case of disputes, the same will be subjected to the jurisdiction of courts at Ernakulam, Kerala, India only.



22. क्षेत्राधिकार / JURISDICTION

22.1. All questions, disputes or differences arising under/out of or in connection with this contract shall be subject to the jurisdiction of the Courts in Cochin.

23. गैर-प्रकटीकरण समझौता (एनडीए) / NON-DISCLOSURE AGREEMENT(NDA):

23.1. Prior to placement of Purchase Order, the successful bidder/s shall necessarily submit Non-Disclosure Agreement (NDA), as per format at **Appendix-D**. Drawings will be issued to the Successful bidder only after execution of Non-Disclosure agreement (NDA). This Non-Disclosure Agreement to be executed on a non-judicial stamp paper of INR 100. The Specifications, drawings, work instructions and protocols such issued against NDA shall be on returnable basis, without reproduction/retention of the copies at the bidder's end. Current illustrative format of NDA is enclosed at **Appendix-D**, for your ready reference. However, the successful Bidder/s (Contractor/s) would have to submit NDA as per the prevailing format, at the time of order placement. The same would be made available at appropriate time. Documents as indicated at Clause No 13 , 14 & 15 as per Annexure III will be provided by CSL against submission of Non-Disclosure Agreement:

24. सामान्य शर्तें / GENERAL CONDITIONS

- 24.1. Quality of workmanship shall conform to the specification/ standards laid down by CSL
- 24.2. CSL reserves the right to award the work to more than one contractor or to take over partially or fully the work depending upon the scheduled requirements.
- 24.3. Compliance of all statutory safety requirements and other safety rules stipulated by CSL and other applicable statutory bodies shall be the responsibility of the Contractor while working at CSL premises. The Contractor should ensure that their workmen and staff are adequately covered under Insurance.
- 24.4. Damages caused to the Shipyard properties/tools/accessories should be rectified by the Contractor at his cost or proportional recoveries will be made from the contractor while passing their bills for payment.
- 24.5. Cochin Shipyard Limited reserves the right to terminate the Contract at short notice in case the Contractor's performance is found not satisfactory with regard to progress of work, quality, time factor, labour dispute with their workers, poor safety records etc., and other contractual obligations. No claim whatsoever will be entertained by Cochin Shipyard Limited on this account.
- 24.6. The Contractor shall indemnify CSL and CSL's personnel against any claims arising out of accidents or injuries to workmen or other persons or damage to other property which

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may arise during the execution of the contract or from breach of any Law or Regulation prior to delivery and acceptance of the items at CSL.

24.7. It is also to be understood by the Contractor that Cochin Shipyard Limited does not bind itself to give the Contractor any regular or specific quantity or area of work and it shall be done at the sole discretion of CSL depending on the prevailing site conditions and other limiting factors and no claim on this account from the contractor shall be entertained.

24.8. The Contractor shall also be governed by the General Conditions of Contract of CSL, General Safety Rules and other relevant labour laws.

24.9. General Manager (SB) or his authorized representative will be the Officer-in-charge of this Contract.

24.10. Withdrawal of the quotation after it is accepted or failure to make contract execution within the stipulated completion period will entail cancellation of the order and forfeiture of EMD/ Security Deposit, if any/ and or risk purchase.

24.11. Subcontracting to other vendors shall be only after written intimation and approval of competent CSL authorities. Vendor shall not delegate or subcontract any of its obligations under the agreement without CSL's written consent. Vendor will remain liable for all subcontracted obligations and all acts or omissions of its subcontractors.

24.12. The procedures of work, standard operating procedures of work including documents like welding procedure specifications developed by CSL are intellectual property of CSL. Vendors shall not use or copy the procedure in any format without the written consent of competent authorities of CSL.

24.13. Vendor shall return the CSL resources to CSL immediately after provision of all deliverables and services or any termination of the agreement.

24.14. Conditional discounts, if any, will not be reckoned for tender evaluation/comparison purposes. However the same will be considered at the time of placement of purchase order if the firm turns out to be lowest bidder.

25. अधिलेखन और सुधार / OVERWRITING & CORRECTIONS

25.1. Tenders shall be free from overwriting or erasures. Corrections and additions, if any, shall be duly attested and a separate list of such corrections shall be attached with the offer.)

25.2. All terms and conditions, other than those mentioned above, contained in the Enquiry specification and drawings (Annexure I), Cochin Shipyard Ltd - General Terms and



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conditions (Annexure II) and other annexure pertaining to this tender shall also be attested by the bidder as a token of acceptance.

- 25.3. CSL reserves the right to reject any or all bids without assigning any reasons whatsoever and or based on the past unsatisfactory performance by the bidders at CSL/other PSE's/Government Departments. After issuing the work order, CSL reserves the right to terminate the contractor if the performance of the contractor is not found satisfactory. The decision of CSL regarding the same shall be final and conclusive.



कृते उप महाप्रबंधक / For Deputy General Manager
आउटसोर्सिंग विभाग / Outsourcing Department



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ANNEXURE-II

कोचीन शिपयार्ड लिमिटेड / COCHIN SHIPYARD LIMITED
कोच्ची / KOCHI-682015

आउटसोर्सिंग विभाग / OUTSOURCING DEPARTMENT

सामान्य शर्तें / GENERAL CONDITIONS

1. The complete work to be carried out with the highest degree of workmanship under the inspection of CSL, Classification Society (when specifically indicated in the technical specifications), Ship owner, or any other agency nominated by the Shipyard.
2. Any minor modifications, resulting from the change in statutory regulations prevailing at the time of final inspection of work by Classification Society, to be carried out by the Contractor free of cost. In case of rework/modification/additional work, written consent is to be obtained from the Officer-in-charge before commencement of the work.
3. Contractor shall carry out the complete work in accordance with Shipyard's approved drawings. Any minor modifications from drawing or any other work or supply of material, which is not specified hereunder, but is considered incidental and essential for the successful completion of the job shall be carried out by the Contractor without any additional charge.
4. Contractor shall execute, during or after completion of the work, any minor job connected with the work, should it be considered necessary by Shipyard and/or Classification Society
5. The contractor shall be responsible for any damage caused to the material supplied by CSL. Compensation with penalty for damage or loss of the item will be recovered from the Contractor, in the event of loss or damage.
6. Material supplied by CSL may not be in the required size and shape. These may be cut and prepared after proper nesting by the Contractor. Special care to be taken to reduce wastages. Shortage of any material (supplied by CSL) arising out of excess wastages due to improper planning shall have to be made up by Contractor free of cost.
7. Contractors are required to work round the clock / Sundays/ holidays as per the requirement of concerned department in order to complete the work in time.
8. Any particulars/literature/information/certificates required by the Shipyard in connection with the work is to be forwarded free of cost.
9. All correspondence with the Shipyard to be in English language. All documents and plans to be in English language and in metric units.



कृते उप महाप्रबंधक / For Deputy General Manager
आउटसोर्सिंग विभाग / Outsourcing Department

ANNEXURE III

TECHNICAL SPECIFICATION FOR SUPPLY OF FABRICATED HATCH COVERS AND TWEEN DECK PANELS/ GRAIN BULKHEADS

1. INTRODUCTION

1.1 This specification establishes the technical requirements for the supply of fabricated hatch covers and tween deck panels/ grain bulkheads partly/ wholly for Eight (08) number Multi -Purpose Vessels (7000 DWT Eco Freighter) which are being built for M/s HS Schiffahrt GmbH & Co. Germany by Cochin Shipyard Ltd., Kerala (hereafter referred to as yard/ CSL).

1.2 PARTICULARS OF VESSEL:

Length over all	:109,95 m
Length b.p.p	:107.70 m
Breadth mld	:16.50 m
Depth mld	: 9,50 m
Draft Summer	: 6,6 m
Deadweight at max draft	: 7000 ton
No of holds	: 1 number
Service Speed at summer draft	: 10.5 knots
Complement	: 14



1.3 The vessels are of DNV Classification and the fabricated hatch covers and tween deck panels/ grain bulkheads are subject to inspection and approval by DNV Classification Society surveyors.

2. OVERVIEW OF HATCH COVERS AND TWEEN DECK PANELS/ GRAIN BULKHEADS

2.1 HATCH COVERS

(All details will be as specified in the drawings provided in the later part of this specification)

- A. There are **12 pontoon hatch covers per ship** which are of slightly varying dimensions and construction.
- B. Each hatch cover is **approximately spanning 14 m x 6.7 ~ 7.1 m x 0.66 m** and is of **approximately 20 ~ 21 T weight**.

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- C. The hatch covers are of totally enclosed type and are handled by vessel's travelling overhead Gantry crane (lifting pockets will be fitted on the hatch covers).
- D. The hatch covers are of flush horizontal type fitted with recesses for dovetail ISO container fittings, allowing stowage of five (5) ISO containers in breadth on top of the hatch covers as well as lashing eyes. Lashing eyes will be provided as per Lashing Plan
- E. The Dovetail positions are at TEU and FEU positions.
- F. Bottom of hatch cover is of closed construction in favour of the carriage of grain/bulk.
- G. Sliding seals of neoprene rubber material is mounted inside hatch panel.
- H. Hatch covers will be secured on coaming by manual vertical heavy duty quick acting cleats and on cross joints by steel wedges.
- I. Hatch numbers are to be welded on the sides / top by weld bead and the hatch weight is to be welded on the top by weld bead.
- J. The twelve hatch covers are treated as separate units and are named as HC01, HC02, HC03, HC11 and HC12.

2.2 HATCH TWEEN DECK PANELS/ GRAIN BULKHEADS

(All details will be as specified in the drawings provided in the later part of this specification)

- A. There are **6 pontoon type tween deck panels** which are also used as separation grain bulkheads.
- B. The 6 pontoon type tween deck panels/ grain bulkheads are of identical construction.
- C. **Each tween deck panel is approximately spanning 13.2 m x 5.03 m x 0.6 m and is of approximately 17.3 T weight.**
- D. Tween deck panels are to be fitted with lashing pots as well as lifting pockets for cargo crane
- E. Tween deck are also to be fitted with securing device
- F. Part of tween deck panels will also act as grain bulkhead.
- G. The six tween deck panels are treated as separate units and are named as TC01, TC02, TC06.



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3. SCOPE OF WORK

- 3.1 The Contractor's scope of work is the supply of fabricated hatch covers and tween deck panels/ grain bulkheads as per the drawings for the hatch cover and grain bulkheads placed at Clause 13 and 14 of the Specification.
- 3.2 The details of material which is in Contractors scope are specified in Clause 5 of the Specification.
- 3.3 The fabricated hatch covers and the tween deck panels/ grain bulkheads will be inclusive of both steel structure part and the outfitting part involved in the hatch covers and the tween deck panels/ grain bulkheads.
- 3.4 The steel structure part of the hatch cover is to be fabricated as per the detailed production drawings specified at Clause 15 of the Specification. These drawings are based on the drawings for hatch covers and grain bulkheads (Clause 13 and 14 of the Speciation).
- 3.5 **Outfitting works** (fabrication, positioning and welding of outfitting items including sprinkler system) are to be carried out on the hatch covers and the tween deck panels/ grain bulkhead as per the Clause 8 of the Specification.
- 3.6 **Outfitting items** which needs to fabricated have been listed in Clause 8 of the Specification along with scope of material.
- 3.7 **The sprinkler system** is to be fitted as per the piping arrangement drawings specified at Clause 15 of the Specification.
- 3.8 Transportation of raw materials provided by CSL to the contractor's workshop. The transportation is in the scope of contractor, meeting all the statutory requirements as applicable on the mode of transport .The Crane facility can be used for loading the raw material into the transporter at CSL subject to availability of crane. However contractor should intimate in advance the arrangement of transporter with all required details. Moreover the capacity of the truck to be planned based on the weight/dimensions of the plate to be loaded
- 3.9 **The cutting and preparation (including edge preparation) of raw materials for the fabrication as per the Production drawings provided by the yard is in the contractors' scope. The contractor shall have CNC/ Plasma Cutting facility which would be compatible with the cutting programme format provided by CSL (See Clause 7 of the Specification).**
- 3.10 The contractor shall ensure that sufficient numbers of welders are qualified by DNV for executing the job as per CSL WPS. Additional costs for certification must be paid by the contractor at the current rate of Rs 9100 + GST in CSL, which is valid through

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March 31, 2023, after which the fee will change and the same to be applicable to contractor. The welder test is to be carried out in presence of DNV at CSL welding technology centre. The facilities for welding test like welding machine, welding consumables and test piece will be provided by CSL, where as the welding tools & accessories and personal PPE to be carried by the contractor.

- 3.11 The construction standards and dimensional tolerances for construction are to be as specified in the Standards for Construction Specified at Clause 9 of the Specification.
- 3.12 Any rectification works which arise due to inspection checks by CSL QC or during DNV survey are also part of the scope of work of the contractor and are to be under taken by the contractor.
- 3.13 The fabrication of the hatch covers and grain bulkheads will be considered complete only after the successful completion of the survey by CSL QC and DNV class and on receiving DNV certificate for each hatch cover and tween deck panel/ grain bulkhead (See Clause 10 of the Specification).
- 3.14 Painting of the hatch covers and grain bulkheads/ tween deck panels shall be carried out as per Clause 11 of the Specification.
- 3.15 Any revisions/ modifications/ additions required shall also be carried out by the contractor as per CSL issued drawings. Material for such revisions/ modifications/ additions shall also be governed by Clause 5 of this Specification.
- 3.16 All welding machines are to be calibrated, and CO2 welding is to be used.
- 3.17 The contractor must also have sufficient number of mother ovens and portable oven for baking electrodes as per requirements.
- 3.18 **The vessels are of DNV Classification hence the contractor has to work in line with the requirement of DNV Classification Society surveyors.**
- 3.19 **In case the contractor has any queries regarding any Clause of the Specification, the contractor shall clarify the same from CSL before quoting their offer.**

4. SCOPE OF CSL

- 4.1 Providing raw material for steel fabrication (preparation in contractor scope as per Clause 3.9). The plates will be provided in blasted and painted condition.
- 4.2 CSL's scope for outfitting is detailed at Clause 8 of the specification.
- 4.3 Providing production/ detailed fabrication drawings for structure and outfitting based on which the hatch covers and grain bulkheads are to be fabricated; the drawings shall be provided after placement of work order.



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- 4.4 Providing information (drawings/ documents) for cutting and for preparation of raw material required for fabrication.
- 4.5 Providing paint for outside and underside of the hatch covers and outside and underside of tween deck panels/ grain bulkheads as detailed in Clause 11 of this Specification.
- 4.6 Inspection of the hatch covers/ grain bulkheads as per CSL's QAP for the project.
- 4.7 Arrangement of inspection by DNV class for the hatch covers/ grain bulkheads.

5. MATERIALS FOR CONSTRUCTION INCLUDING PAINT

- 5.1 All raw materials for the construction of the steel structure of hatch covers and tween deck panels will be provided by CSL and is in CSL's scope.
- 5.2 Material grades and type are as specified in the drawings placed at Annexure 1 and 2 of the specification.

5.3 MATERIAL FOR OUTFITTING:

- A. The details of materials required for outfitting including the material for fabricated items is indicated in Clause 8 of this Specification.
- B. Pipes, angles for pipe supports, rectangular hollow sections, round rods, square rods, taper pins, hinges, bolts and nuts, and O-rings are the in the scope of the contractor and this material will NOT be provided by CSL.
- C. CSL will provide the details of the pipe sizes and pipe supports; quantity requirement for rest of the material shall be as per the hatch cover and tween deck panel drawings provided at Clause 13 and 14 of this Specification.
- D. Any other miscellaneous items required for the completion of outfitting work shall be under the scope of contractor.

5.4 PAINTING (SEE CLAUSE 11 OF THIS SPECIFICATION FOR DETAILS):

- A. Shop primer is in the scope of the contractor and is to be of marine grade.
- B. Paint for topside and underside of the hatch covers and the topside and underside tween deck panels/ grain bulkheads will be provided by the yard.

5.5 CONSUMABLES:

- A. All consumables including welding consumable is in the scope of the contractor and will NOT be provided by CSL.
- B. CSL share the contractor with the list of approved welding consumables like electrodes/ wires/ backing strips etc. Other weld consumables which are not in the list provided CSL shall NOT be used.



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- C. The consumables used by the contractor shall be complying with the material grade being specified in the drawing.
 - D. Records to be maintained towards the same and are to be provided to CSL's QC department along with delivery of the hatch covers and tween deck panels or as requested.
 - E. The purchase order of the weld consumable bought and being used by the contractor for executing this job shall be shared to CSL for records and to check the veracity.
- 5.6 Any other material required by the contractor as fabrication aids or skids for fabrication or temporary material or for the safe transport of the hatch cover for delivery at CSL is in the scope of the contractor and this material will NOT be provided by CSL.
- 5.7 No other material shall be used by the contractor for fabricating the hatch cover and grain bulkheads including the outfitting parts unless explicitly stated in this specification. Any such material which is in the contractor's scope shall be used only after written approval and consent from CSL.
- 5.8 **REMNANTS AND SCRAPS:**
- A. Remnants generated from cutting of plates, profiles and pipe or any other remnants generated from the material issued by CSL are to be kept in safe custody of the contractor and are to be returned in pristine condition along with the delivery of the hatch cover/ tween deck panel to CSL; list of such remnants will be provided/ indicated in the bill of materials issued by yard.
 - B. No remnants shall be used for any purposes other than that specified by CSL without explicit written consent of CSL.
 - C. Apart from remnants, all scraps generated during the course of hull fabrication shall also be kept in the safe custody of the contractor and are to be returned along with the delivery of the hatch cover/ tween deck panel to CSL.
- 5.9 Transportation of material provided by CSL in under contractors scope as detailed in Clause 3.8 of the Specification. Maximum efforts shall be made to provide the required material in one lot. However, situations may arise that the outfitting items or even steel material be supplied in stages/ batches based on the fabrication schedule of the hatch covers/ tween deck panels or availability of the material at CSL. Additional transportation trips for such cases might be necessitated and the contractor shall cater for the same.



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6. MATERIAL STANDARDS

- 6.1 All raw material provided by CSL will be as per the standards specified in the detailed drawings placed at **Appendix - D and E**.
- 6.2 Any material which is in the contractor's scope shall be procured and used only as per the standards specified in the detailed drawings or this specification. If no standard is specified, the materials shall be of marine grade, of good quality and free from rusting and material defects. A list of such items shall be maintained by the contractor and furnished to CSL along with the delivery and as requested by CSL.

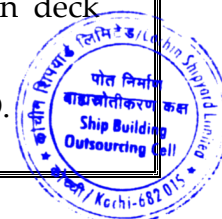
7. EXECUTION OF WORK – STRUCTURAL WORK

7.1 PREPARATION OF MATERIAL:

- A. The cutting of plate parts and edge preparation of plate parts from raw plates is to be done as per the nesting drawings issued by CSL.
- B. The cutting drawings (nestings) format shall be provided in dxf format. **If the contractor wishes to have the cutting drawings in any other format, the contractor shall check for the availability of the same with CSL before quoting their offer.**
- C. After cutting the plates, the Contractor shall also carry out edge preparation (bevel and chamfering if required); for welding for the plates. The details of such edge preparation will be provided in the drawings.
- D. Similarly, the cutting of plate parts and edge preparation of profile parts from raw profiles is to be done as per the stiffener cutting list issued by Yard.

7.2 FABRICATION

- A. The hatch covers and tween deck panels/ Grain Bulkheads shall be fabricated as per the Production Drawing specified at Clause 15 of this Specification.
- B. The inside of the hatch covers and tween deck panels/ grain bulkheads shall be inspected by CSL QC, DNV Class and Owner Surveyor before closing the hatch cover and tween deck panels by welding.
- C. The hatch covers have a compression bar (indicated in drawings) and the fitment of the compression bar including edge preparation/ profiling of the compression bar shall be carried out. Material for the compression bar is provided by CSL as part of the steel structure.
- D. The Production Drawings shall be prepared by CSL based on the Drawings for Hatch covers (See Clause 13 of the Specification) and drawings for tween deck panels/ grain bulkheads (See Clause 14 of the Specification)
- E. The actual Production Drawings shall be provided after the placement of P.O.



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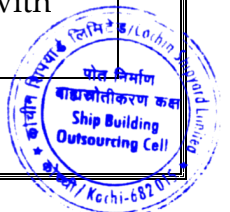
7.3 SURVEY COMPLETION:

- A. The hatch covers and tween deck panels/ grain bulkheads are subject to survey by CSL QC/ DNV /Owner
- B. Any rectification works which arise due to inspection checks by CSL QC or during DNV survey are also part of the scope of work of the Contractor and are to be under taken by the Contractor.
- C. The fabrication of the hatch covers and grain bulkheads will be considered complete only after the successful completion of the survey by CSL QC and DNV class and after receipt of DNV certification for each hatch cover and tween deck panel (See Clause 10 of the Specification).

8. OUTFITTING WORK

8.1 The following table shows the detailed scope of outfitting works to be carried out for hatch covers. Items which are to be fabricated have been marked.

OUTFIT ITEMS FOR HATCH COVER				
SL. NO.	ITEM	QTY per SHIP	MATERIAL SUPPLY	SCOPE OF WORK
1	Dovetail foundations	240 Nos.	CSL	Positioning by welding in accordance with the drawing.
2	Lashing Ring (D-ring) BL 500kN	192 Nos.	CSL	Positioning by welding in accordance with the drawing.
3	Lifting pocket	48 Nos.	CSL	Positioning by welding in accordance with the drawing.
4	Cleat Assembly C1	48 Nos.	To be fabricated. CSL will supply only Key parts indicated in the drawing of cleats and wedges	Fabrication and Positioning by welding in accordance with the drawing.
5	Cleat Assembly C2	36 Nos.		Fabrication and Positioning by welding in accordance with the drawing.
6	Wedge	66 Nos.		Fabrication and Positioning by welding in accordance with the drawing.



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7	Rubber seals	As per dwg	CSL	Positioning accordance with the drawing.
8	1/2"socket+galv. Plug	As per dwg	CSL	Positioning accordance with the drawing.
9	Sprinkler pipe & supports	As per dwg	Contractor Scope	Fabrication and Positioning by welding in accordance with the drawing.
10	Markings	As per dwg	Contractor Scope	Fabrication and Positioning in accordance with the drawing.
11	Name plate	As per dwg	CSL	Positioning in accordance with the drawing.
12	Cement hole	6 Nos.	Contractor Scope	Fabrication and Positioning by welding in accordance with the drawing.
13	Adhesive		Contractor Scope	Details will be provided by yard
14	Paint		Refer 11.7	Details will be provided by yard
Note: The quantity of item number 1 (Dovetail foundations) may increase; the final quantity will be informed during the P.O.				

- 8.2 Rubber beading/ seal to be pasted using adhesive. Approved adhesive list will be shared by CSL after placement of Purchase Order.
- 8.3 Tightness between hatch covers shall be achieved by means of rubber packing mounted on one panel and against compression bar mounted on the other covers. Appropriate test to be carried out to ensure water tightness between panels as per class requirements before despatching hatch cover to CSL.
- 8.4 Two of the hatch covers (Hatch Cover 3 and 4) are to be outfitted with pipe lines for the water sprinkler system as per the arrangement provided by yard.
- 8.5 All piping system to be tested at rated pressure before closing the hatch cover by welding. Testing procedure will be shared by CSL after PO.
- 8.6 After closing the hatch cover by welding, air pressure test to be done as per relevant rules and regulations.
- 8.7 Edge preparation if required for outfitting items like lifting sockets, lashing pot etc. shall be in the scope of the Contractor.

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8.8 The following table shows the detailed scope of outfitting works to be carried out for tween deck panels/ grain bulkheads.

OUTFIT ITEMS FOR TWEEN DECK PANEL / GRAIN BULKHEADS				
SL. NO.	ITEM	QTY per SHIP	MATERIAL SUPPLY	SCOPE OF WORK
1	Lifting Pockets	96 Nos.	CSL	Positioning by welding in accordance with the drawing.
2	Lashing pot	114 Nos.	CSL	Positioning by welding in accordance with the drawing.
3	Manhole Cover	12 Nos.	Contractor Scope	Fabrication and Positioning by welding in accordance with the drawing.
4	Securing pin	24 Nos.	Contractor Scope	Fabrication and Positioning by welding in accordance with the drawing.
5	Cover plate	48 Nos.	Contractor Scope	Fabrication and Positioning by welding in accordance with the drawing.
Note: The quantity of item number 1 (Lifting pockets) may increase; the final quantity will be informed during the P.O.				

8.9 FABRICATED ITEMS:

Items which need to be fabricated shall be fabricated as per the drawings for that item provided by the yard

8.10 SURVEY FOR OUTFITTING WORK:

- Outfitting items and the installation are subject to survey by CSL QC and by DNV Classification society.
- Any rectification works which arise due to inspection checks by CSL QC or during DNV survey are also part of the scope of work of the Contractor and are to be undertaken by the Contractor.
- The fabrication of the hatch covers and grain bulkheads will be considered complete only after the successful completion of the survey by CSL QC and DNV

TENDER ENQUIRY NOTICE – Fabrication & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads for MPV vessels

class and after receipt of class certificate for each hatch cover and grain bulkhead (See Clause 10 of the Specification).

9. STANDARDS FOR CONSTRUCTION

- 9.1 The fabrication of hatch covers and tween deck panels shall in general comply with the CSL construction standards.
- 9.2 The dimensional tolerances which are to be achieved for the hatch covers and tween deck panels are placed at **Appendix F and G**.
- 9.3 Contractor to ensure strict adherence to the standards and tolerances specified in the limits mentioned in the construction standards and the dimension tolerance standards.

10. INSPECTION

- 10.1 The hatch covers and grain bulkheads will be inspected by CSL QC as per CSL's QAP for the project.
- 10.2 The inside of the hatch covers and tween deck panels/ grain bulkheads shall be inspected by CSL QC, DNV Class and Owner Surveyor before closing the hatch cover/ tween deck panel by welding.
- 10.3 Additionally, the hatch covers and tween deck panels/ grain bulkheads will be inspected by DNV Class surveyors and yard will arrange for this inspection by DNV Class.
- 10.4 Testing and inspection reports shall from CSL QC and DNV shall be diligently maintained by the Contractor and the same shall be submitted to CSL at the time of delivery or as requested by CSL.
- 10.5 QAP and NDT plan will be shared by CSL and need to be complied by Contractor at own cost.
- 10.6 The Contractor shall have a dedicated QA dept and before each inspection the same is to be checked and before offering to CSL QC/Class/Owner
- 10.7 At least one week prior notice is required for offering inspection to CSL QC/Class/Owner/Paint representative
- 10.8 Receipt inspection will be done at CSL and rectification if any, as recommended will have to be carried out at own cost
- 10.9 CSL QC/DNV/ Owner has right to visit contractors premise to assess the capacity during the evaluation stage and also after the placement of order. This is as per unified resolution Z23 (sec 6.1 of UR) applicable for hull survey of new construction

TENDER ENQUIRY NOTICE – Fabrication & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads for MPV vessels

by IACS members. The contractors workshop/yard facilities need to be approved by DNV before issue of final work order from CSL as per Z23 clause.

10.10 Stage wise inspection includes Assembly Skid inspection, Cutting inspection and traceability, Sub Assembly and Mid assembly Final assembly fit up inspection and welding including out fit items fit up, Dry survey , NDT to be performed, reviewed and cleared by Class, Inside touch up primer and closing of cover plate and APT to be carried out, Painting after survey of individual hatch cover with the paint scheme provided by CSL, Inspection of Dummy hatch coaming before for assembly of hatch cover, Inspection of complete Assembly of hatch on to mock up coaming for dimensional test, Hose rest, Re-inspection at CSL to ensure no transit damage, On-board assembly / testing on board etc.

10.11 Office space with internet connection to be proved for CSLQC/DNV/Owner/Paint Representative with in contractors premise for facilitating inspection process

11. PAINTING

11.1 The inside of the hatch covers and tween deck panels/ grain bulkheads shall be primed with a primer of marine grade before closing the hatch cover by welding. Primer shall be applied after ST2 surface preparation and inspection.

11.2 The painting of outer areas of hatch cover, tween deck panels shall be carried out after the completing of all hot works of the structure and outfit and successful completion of the survey by CSL QC and DNV.

11.3 The outer areas of hatch cover and tween deck panels shall be blasted as per SA2.5 standards before application of paint. All the outfitting items are to be protected during blasting and painting.

11.4 The painting shall of the outer areas of hatch cover and tween deck panels completed to be as per the scheme below. Colour of the final coat shall be informed at the relevant stage after placing of the purchase order.

11.5 For hatch covers, full painting needs to be finished in accordance with the paint scheme on the Contractor's premises before delivery to the yard.

11.6 All stages of surface preparation and subsequent painting will be inspected by CSL/ paint representative and owner representative.

11.7 Rubber seal as per drawing can be fitted only after blasting and final coat painting

11.8 Vapor corrosion inhibitor (VCI) powder for corrosion protection in bags to be kept inside of hatch cover and tween decks/grain bulkheads as additional scope of supplier. Necessary material to be procured by the firm.

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11.9 Yard will provide volume information for the volume inside the hatch cover and tween the decks and grain bulkheads during PO, the supplier needs to calculate and place the necessary number of bags in kilogrammes per square metre.

11.10 PAINT SCHEME:

- The hatch covers and grain bulkhead should be painted in accordance with the CSL paint scheme.
- Quantity of paint supplied by yard based on the following criteria.
- The total paint quantity provided will be after accounting for all loss factors (40%) plus an additional 40% for touch-up and outfitting items, plus an additional 10% stripe coat allowance for each type of paint. Yard will also provide 10% thinner for each type of paint quantity.
- Any additional requirement other than this will be under Contractor scope.

PAINT SCHEME				
Sl. No	Region			DFT
1	Hatch cover outside	1	Zinc Silicate primer	75
		SC	Epoxy Anticorrosive	75
		1	MIO coat	75
		1	Epoxy Coat	125
		1	Polyurethane Finish	50
2	Hatch covers underside and tween deck panels/ grain bulkheads	1	Epoxy Anticorrosive	125
		SC	Epoxy Anticorrosive	125
		SC	Epoxy Anticorrosive	125
		1	Epoxy Anticorrosive	125
		1	Polyurethane Finish	50
SC – Stripe Coat				

12. DELIVERY

- Each hatch covers and grain bulkhead/ batch of hatch covers and grain bulkheads shall be fabricated as a whole unit complete with outfitting and delivered at CSL as per the delivery date specified in the purchase order.
- Transportation of the fabricated hatch cover and tween deck panels to CSL is in the scope of the Contractor inclusive of arrangements for fulfilling statutory requirements based on the mode of transport. Remnants and scraps as per Clause 5.7 also is to be transported to CSL and is in Contractor's scope.



TENDER ENQUIRY NOTICE – Fabrication & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads for MPV vessels

12.3 Crane facility of CSL can be used for unloading the hatch covers under the guidance of the Contractor's team. However contractor should intimate in advance the arrangement of transporter with all required details

12.4 Any temporary material required for lashing/ securing or for the safe transport of the hatch cover for delivery at CSL is in the scope of the Contractor and this material will NOT be provided by CSL.

13. LIST OF DRAWINGS FOR HATCH COVERS (SEE APPENDIX – E & G FOR DRAWINGS)

<u>Sl. No.</u>	<u>Drawing Number</u>	<u>Drawing Title</u>
1	P22003-001-1E	General Arrangement HDL
2	P22003-002	Container arrangement Hatch covers
3	P22003-003 -1B	Construction plan Hatch cover 1
4	P22003-003 -2A	Construction plan Hatch cover 2
5	P22003-003 -3A	Construction plan Hatch cover 3
6	P22003-003 -4A	Construction plan Hatch cover 4
7	P22003-003 -5A	Construction plan Hatch cover 5
8	P22003-003 -6A	Construction plan Hatch cover 6
9	P22003-003 -7A	Construction plan Hatch cover 7
10	P22003-003 -8A	Construction plan Hatch cover 8
11	P22003-003 -9A	Construction plan Hatch cover 9
12	P22003-003 -10	Construction plan Hatch cover 10
13	P22003-003 -10A	Construction plan Hatch cover 10
14	P22003-003 -11A	Construction plan Hatch cover 11
15	P22003-003 -12A	Construction plan Hatch cover 12
16	P22003-005-1	Cross Sealing

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17	P22003-005-2	Edge sealing
18	P22003-005-2A	Edge sealing
19	P22003-006	Side plate Cross sealing
20	P22003-011-1A	Cleats Details
21	P22003-011-2	Cleats type C1
22	P22003-011-3 A	Cleats type C2
23	P22003-012	Wedge type 90001202
24	P22003-013	Stacking Devices Overview
25	P22003-015-1	Example Drainpipe Coaming
26	P22003-016	Shute holes HDL
27	P22003-017B	Machining parts
28	P22003-019A	Key Parts
29	K20290127001001	Paint Scheme

14. LIST OF DRAWINGS FOR GRAIN BULKHEADS/ TWEEN DECK PANELS (SEE APPENDIX – F & H FOR DRAWINGS)

Sl. No.	Drawing Number	Drawing Title
1	P22003-010D	General Arrangement TDL
2	P22003-020B	Construction plan Tween deck panel + Grain bulkhead
3	P22003-022B	Side pins Grain bulkhead
4	P22003-060	Measuring Protocol TD
5	P22003-111	Single tween deck support
6	P22003-112	Double tween deck support



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15. LIST OF PRODUCTION DRAWINGS:

15.1 STEEL STRUCTURE:

<u>Zone</u>	<u>Block</u>	<u>Drawing</u>	<u>Remarks</u>
Tween Deck Panels/ Grain Bulkheads	TC01 to TC06	1. Yard Plan 2. Plate Nesting Plan 3. Stiffener Cutting List 4. Piece Table	One single drawing will be issued for all the 6 Tween Deck Panels as they are identical.
Hatch Covers	HC01	1. Yard Plan 2. Plate Nesting Plan 3. Stiffener Cutting List 4. Piece Table	Separate drawings will be issued for all the 12 Hatch covers; however, if during the course of detailed design, it is found that there any two or more hatch covers are identical or with very minor variations, a single drawing will be issued and the cases of minor variations will be specifically noted – this is decided by the yard during the course of production drawing preparation.
	HC02		
	HC03		
	HC04		
	HC05		
	HC06		
	HC07		
	HC08		
	HC09		
	HC10		
	HC11		
	HC12		

15.2 OUTFITTING

<u>Zone</u>	<u>Description</u>
Tween Deck Panels/ Grain Bulkheads	Piping Arrangement in Tween Deck Panels/ Grain bulkheads
Hatch Covers	Piping Arrangement in Hatch Covers



TENDER ENQUIRY NOTICE – Fabrication & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads for MPV vessels

16. COMPLIANCE

- 16.1 The format for the Compliance Matrix is placed at **Appendix-A**.
- 16.2 If the offer of the Contractor is fully accepting to the requirements given in each clause of this specification and there is no deviation from that requirement, the text 'YES' shall be noted against the particular clause in the Compliance matrix.
- 16.3 If offer is not fully conforming to the requirements given in any clause of this specification, the deviation shall be stated in detail against the particular clause in the Compliance matrix.
- 16.4 Compliance or deviation shall be stated against every single clause of the specification.
- 16.5 **CSL reserves the right to REJECT OFFERS WHICH ARE SUBMITTED WITHOUT COMPLIANCE MATRIX.**

17. SAFETY/STATUTORY RESPONSIBILITY

- 17.1 The contractor shall be entirely responsible for the safety of all the personnel employed by him on the work. In this regard, he should adopt all the required safety measure and strictly comply with the safety regulations in force. A copy of CSL's "Safety Rules for Contractors (Revised)" is available with Outsourcing Department for reference.
- 17.2 The Contractor should arrange to suitably insure all his workmen/other personnel in this regard. CSL will not be responsible for any injury or illness to the Contractor's workmen/other personnel during execution of the works due to whatsoever reasons.
- 17.3 In this regard, the Contractor will have to fully indemnify CSL against any claims made by his workmen/other personnel.
- 17.4 The Contractor shall provide and maintain so as to be readily accessible during all working hours, a first aid box with prescribed contents at every place where he employs contract labour for executing the works.



कृते उप महाप्रबंधक / For Deputy General Manager
आउटसोर्सिंग विभाग / Outsourcing Department



ANNEXURE- IV

तकनीकी वाणिज्यिक जांच सूची / TECHNO COMMERCIAL CHECK LIST

(To be submitted by the bidder)

TENDER NO. SB-OSD/MPV/750/2023 Dtd: 28.02.2023

(Bidders may confirm acceptance of the Tender Conditions/deviations if any to be specified)

SL No	Tender Enquiry Requirements	Confirmation from bidder (<u>strike off whichever is not applicable</u>)	Specific comments /Remarks
1	Scope of work as per Technical Specification/Drawings/ General Terms & conditions (Annexure III)	Agreed as per tender /Do not agree	
2	Whether technical bid & price bid are submitted in separate sealed covers?	Yes / No	
3	Schedule of work as specified in technical specification/ price bid of this tender is acceptable	Yes/ No	
4	Submission of Information/Documents with offer	Submitted/Not submitted	
5	Submission of MSME and NSIC registration document with offer	Submitted/Not submitted	
6	Offer Validity (date)	90days - Agreed as per tender/Do not agree	
7	Completion period as mentioned in the tender enquiry is acceptable	Yes/ No	
8	Taxes & Duties	Specified/included in Price	
9	Payment terms - confirm		
a	Stage Payment	Agreed as per tender/Do not agree	
b	Any others (Specify details)		



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10	Price shall remain firm and fixed and No Escalation in prices after awarding of contract	Agreed as per tender/Do not agree	
11	Security Deposit & Performance Guarantee Clause	Agreed as per tender/Do not agree	
12	Termination of contract/risk purchase as per relevant clause in the terms & conditions of tender enquiry is acceptable	Yes / No	
13	Force Majeure	Agreed as per tender/Do not agree	
14	Liquidated damages and cancellation of contract	Agreed as per tender/Do not agree	
15	Arbitration & Jurisdiction clauses	Agreed as per tender/Do not agree	
16	Confirm all other terms and conditions of our enquiry are acceptable.	Confirmed/Not confirmed	
17	Confirm, un-priced price bid (price bid without price) is submitted with Part – I bid	Confirmed/Not confirmed	
18	Mode of submission of tender (Direct/Postal)	Direct / Email	
19	Fully aware about the safety, general rules, regulations, standards, validity of offers and price, entry pass eligibilities.	Yes / No	
20	Is your firm registered under TReDS	Yes/No	
21	Annual turnover requirement, during last 3years, ending 31 st March of the previous financial year	Agreed as per tender/Do not agree	
22	Do your firm have valid registration under statutory schemes such as ESI / EPF	Yes/No	
23	Bidder's fabrication facility inspection/ approval by DNV Classification society surveyor prior to awarding Contract.	Agreed / Do not agree	
24	Deviations from Tender conditions	No Deviations /Deviations are specified	

हस्ताक्षर / Signature:

ठेकेदार का पता / Address of the Contractor

मुहर / Seal:



ANNEXURE-V

मूल्य बोली प्रारूप / PRICE BID FORMAT

TENDER NO. SB-OSD/MPV/750/2023 Dtd: 28.02.2023

OUTSOURCING OF FABRICATION & SUPPLY OF HATCH COVERS AND TWEEN DECK PANELS/ GRAIN BULKHEADS FOR EIGHT (08) NUMBER MULTI -PURPOSE VESSELS (7000 DWT ECO FREIGHTER).

Sl No	Description of Work	Quantity (weight of all 8nos. vessels) (A)	Rate per Ton (INR) (B)	Total amount (INR) (C) = A*B
1	Rate for Fabrication, Outfitting & Transportation and Supply of Hatch covers and Tween Deck Panels/Grain bulkheads for Eight (08) number Multi -Purpose Vessels (7000 DWT Eco Freighter) as per Scope of work at Annex-III and other tender conditions. Transportation includes Round trip (onward and return trip) for collecting material from CSL and delivering final product at CSL.	2850 Tons		
2	GST% HSN CODE.....			
3	GRAND TOTAL (SL No. 1 + 2)			

Grand Total amount (in words)Rupees.....

.....

.....



TENDER ENQUIRY NOTICE – Fabrication & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads for MPV vessels

NOTE:

- A. Price basis: For Destination (at CSL).
- B. L1 will be determined based on total amount (Sl. No. 1) excluding GST.
- C. GST as per the prevailing rate will be paid.
- D. The rates quoted shall be inclusive of cost of labor, procurement of materials under contractors scope, transportation, cost of all other activities other than in CSL's scope for the satisfactory completion and delivery of item at CSL.
- E. Quantity mentioned above is only indicative, actual will be as per approved drawing.
- F. Above mentioned quantity (2850T approx.) is for all (8) numbers vessels. However, quantity/work allocation to the firms will be based on split order methodology mentioned at clause No.5 of Annex-I.
- G. Payment will be released for actual quantity in Tonnes based on approved drawings and work order rate per Ton.

Signature of Contractor/authorized signature
of firm or agency:

Name of contractor or authorised signatory of
firm/agency:

Designation:

Address:

Contact No:



ANNEXURE-VI

PRE CONTRACT INTEGRITY PACT

COCHIN SHIPYARD LIMITED

OUTSOURCING DEPARTMENT

General

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on day of the month of, between, on one hand, the President of India acting through Deputy General Manager, Cochin Shipyard Ltd (CSL) having its registered office at Cochin, Kerala India (hereinafter called the “PRINCIPAL”, which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First part and M/s.....represented by Shri..... Chief Executive Officer (hereinafter called the “BIDDER/Seller” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the second part.

WHEREAS the PRINCIPAL proposes to procure and the BIDDER/Seller is

Willing to offer/has offered the stores and

WHEREAS the BIDDER is a private company / public company / Government undertaking / Partnership / registered export agency, constituted in accordance with the relevant law in the matter And the PRINCIPAL is a Government of India PSU performing its functions on behalf of the President of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any Influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be

Entered into with a view to:-



TENDER ENQUIRY NOTICE – Fabrication & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads for MPV vessels

Enabling the PRINCIPAL to obtain the desired said stores/equipment/item at a competition price in Conformity with the defined specifications by avoiding the high cost and the distortionary impact of

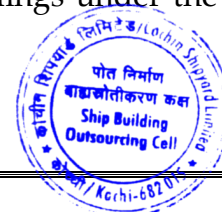
Corruption on public procurement, and Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the Contract by providing assurance to them that their competitors will also abstain from bribing and Other corrupt practices and the PRINCIPAL will commit to prevent corruption, in any form, by its Officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:-

1. COMMITMENTS OF THE PRINCIPAL

- 1.1. The PRINCIPAL undertakes that no official of the PRINCIPAL, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting on implementation process related to the contract.
- 1.2. The PRINCIPAL will, during the pre-contract stage, treat all BIDDERS alike and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.3. The officials of the PRINCIPAL will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the PRINCIPAL with full and verifiable facts and the same is prima facie found to be correct by the PRINCIPAL, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the PRINCIPAL and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the PRINCIPAL the proceedings under the contract would not be stalled.



2. COMMITMENTS OF BIDDERS

The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-

- 2.1. The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the PRINCIPAL, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 2.2. The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the PRINCIPAL or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract of any other contract with the government for showing or forbearing to show favour or disfavor to any person in relation to the contract of any other contract with the Government.
- 2.3. BIDDERS of foreign origin shall disclose the name and address of their Indian agents and representatives, if any and Indian BIDDERS shall disclose their foreign principals or associates, if any.
- 2.4. BIDDERS shall disclose the payments to be made by them to their Indian agents/brokers or any other intermediary, in connection with this bid/contract and the payments have to be in Indian Rupees only.
- 2.5. The BIDDER further confirms and declares to the PRINCIPAL that the BIDDER is the original manufacturer/ integrator/authorized agent of the stores/equipment/items and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the PRINCIPAL or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 2.6. The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the PRINCIPAL or their family members, agents, brokers or any

TENDER ENQUIRY NOTICE – Fabrication & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads for MPV vessels

other intermediaries in connection with the contract and the details of services agreed upon for such payments.

- 2.7. The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 2.8. The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair Means and illegal activities.
- 2.9. The BIDDER shall not use improperly, for purposes of competition or personal gain, pass on to others, any information provided by the PRINCIPAL as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 2.10. The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 2.11. The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 2.12. If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the PRINCIPAL, or alternatively, if any relative of an officer of the PRINCIPAL has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender. The term 'relative' for this purpose would be as defined in section 6 of the Companies Act 1956.

- 2.13. The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee or the PRINCIPAL.

3. PREVIOUS TRANSGRESSION

- 3.1. The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify; BIDDER's exclusion from the tender process.
- 3.2. The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.



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4. EARNEST MONEY (SECURITY DEPOSIT)

4.1. While submitting commercial bid, the BIDDER shall deposit an amount NIL (to be specified in RFP) as Earnest Money as applicable/Security Deposit, with the PRINCIPAL through any of the following instruments:

- (i) Bank Draft of Pay Order in favor of CSL.
- (ii) A confirmed guarantee by an Indian Nationalized Bank, promising payment of the guaranteed sum to the PRINCIPAL on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the PRINCIPAL shall be treated as conclusive proof of payment.
- (iii) Any other mode or through any other instrument (to be specified in the RFP).

4.2. The Earnest Money if applicable/Security Deposit shall be valid upto the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the PRINCIPAL, including warranty period.

4.3. In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of sanctions for Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the PRINCIPAL to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

4.4. No interest shall be payable by the PRINCIPAL to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

5. SANCTIONS FOR VIOLATIONS

5.1. Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the PRINCIPAL to take all or any one of the following actions, wherever required: -

- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any; compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
- (ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/ Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the PRINCIPAL and the PRINCIPAL shall not be required to assign any reason therefore.
- (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
- (iv) To recover all sums already paid by the PRINCIPAL, and in the case of an Indian BIDDER with interest thereon at 2% above the prevailing Prime Lending Rate of State

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Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% above the LIBOR (London Inter Bank Offer Rate). If any outstanding payment is due to the BIDDER from the PRINCIPAL in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.

(v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the PRINCIPAL, along with interest.

(vi) To cancel all or any other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the PRINCIPAL resulting from such cancellation/recession and the PRINCIPAL shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.

(vii) To debar the BIDDER from participating in the future bidding processes of CSL for a minimum period as deemed appropriate, which may be further extended at the discretion of the PRINCIPAL.

(viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middle man or agent or broker with a view to securing the contract.

(ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the PRINCIPAL with the BIDDER, the same shall not be opened.

(x) Forfeiture of Performance Bond in case of a decision by the PRINCIPAL to forfeit the same without assigning any reason for imposing sanction for violation of this pact.

5.2. The PRINCIPAL will be entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

5.3. The decision of the PRINCIPAL to the effect that a breach of the provisions of this pact has been committed by the BIDDER shall be binding on the BIDDER. However, the

5.4. BIDDER can approach the Independent Monitor(s) appointed for the purposes of this Pact.

6. FALL CLAUSE

6.1. The BIDDER undertakes that it has not supplied/is not supplying similar product/systems/items or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems/items was supplied by the BIDDER to any other Ministry/Department of the Government of India or PSU at a lower



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price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the PRINCIPAL, if the contract has already been concluded.

7. INDEPENDENT MONITORS

7.1. The PRINCIPAL has appointed Independent Monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission.

(i) Shri. Jagadip Narayan Singh, IAS (Retd.),

C-54, Bharatendu Harischandra Marg,

Anand Vihar, Delhi – 110092.

Mobile: 9978405930

Email: jagadipsingh@yahoo.com

(ii) Shri. Om Prakash Singh, IPS (Retd.),

Flat No. D-801, Prateek Stylome,

Sector-45, Noida,

Uttar Pradesh – 201301

Mob: 9818564455

Email: Ops2020@rediffmail.com



7.2. The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

7.3. The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

7.4. Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.

7.5. As soon as the Monitor notices, or has reason to believe, a violation of this pact, he will so inform the Authority designated by the PRINCIPAL.

7.6. The PRINCIPAL accepts that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unlimited access to his project documentation. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.

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7.7. The PRINCIPAL will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.

7.8. The Monitor will submit a written report to the designated Authority of PRINCIPAL/Secretary in the Department/ within 8 to 10 weeks from the date of reference or intimation to him by the PRINCIPAL /BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

8. FACILITATION OF INVESTIGATION

In case of any allegation of violation of any provisions of this pact or payment of commission, the PRINCIPAL or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER. The BIDDER shall provide necessary information and documents in English and shall extend all possible help of the purpose of such examination/inspection.

9. LAW AND PLACE OF JURISDICTION

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the PRINCIPAL.

10. OTHER LEGAL ACTIONS

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extent law in force relating to any civil or criminal proceedings.

11. VALIDITY

11.1. The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years

or the complete execution of the contract to the satisfaction of both the PRINCIPAL and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

11.2. Should one or several provisions of this Pact turn out to be invalid; the remainder of this pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.



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The parties hereby sign this Integrity Pact at.....on.....

PRINCIPAL

Name of the Officer

Designation

Dept./MINISTRY/PSU

BIDDER

CHIEF EXECUTIVE OFFICER

Witness

1.....

2.....

Witness

1.....

2.....

* Provisions of these clauses would need to be amended/deleted in line with the policy of the
BUYER in regard to involvement of Indian agents of foreign Contractors.



APPENDIX - A

COMPLIANCE MATRIX

<u>Clause No.</u>	<u>Compliance/ Deviation</u>

Notes:

1. If the offer of the Contractor is fully accepting to the requirements given in each clause of this specification and there is no deviation from that requirement, the text 'YES' shall be noted against the particular clause in the Compliance matrix.
2. If offer is not fully conforming to the requirements given in any clause of this specification, the deviation shall be stated in detail against the particular clause in the Compliance matrix.
3. Compliance or deviation shall be stated against every single clause of the specification.
4. CSL reserves the right to REJECT OFFERS WHICH ARE SUBMITTED WITHOUT COMPLIANCE MATRIX.



APPENDIX - B

CONSORTIUM AGREEMENT

This Consortium Agreement is made at on ... day of 2023 between M/s (Please indicate the status viz. Proprietor, Firm, Company) represented through its authorized representative (hereinafter referred to as "First Party") and M/s (Please indicate the status viz. Proprietor, Firm, Company) represented through its authorized representative, (hereinafter referred to as "Second Party").

WHEREAS the First Party is engaged in the business of

AND WHEREAS THE Second Party is engaged in the business of

AND WHEREAS both the parties are desirous of entering into a Consortium Agreement for carrying on the work of Cochin Shipyard Limited (The Employer) inconnection with the work of (Project title) herein referred to as the "subject works".

AND WHEREAS the First Party and Second Party have agreed to form of Consortium Agreement for execution of subject works.

NOW THIS DEED WITNESSED AS UNDER:

That under this Consortium Agreement the work will be done jointly by the first party and second party.

It is further agreed by the Consortium Partner that M/s. who meets CSL pre-qualification criteria, has been nominated as Lead Partner for the execution of the works.

That all the parties shall be liable jointly and severally for the satisfactory execution of the contract in all respects in accordance with terms and conditions of the contract and the lead partner shall be authorized to incur liabilities and receive instructions for and on behalf of any and all the partners and parties of the Consortium and the entire execution of the contract including payments shall be done exclusively with the lead partner.

THE PROPOSED PARTICIPATION SCOPE OF ACTIVITIES TO BE PERFORMED AND RESPONSIBILITIES OF EACH:

The proposed administrative arrangement, participation, scope of activities to be performed and responsibilities for the execution of the work of the each party shall be as under:

First Party:

Second Party:

The Registered office of the parties are as under:



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Deck Panels/ Grain bulkheads for MPV vessels**

First Party:

Second Party:

In the event of default by consortium partner in the execution of the part of the contract, the Lead Partner will have the authority to assign the work to any other party acceptable to the Employer (CSL) to ensure the satisfactory execution of that part of the contract.

The law of the country where the project is implemented / realized will govern this agreement.

The validity of this agreement is 180 days from the date of signing of agreement or otherwise till the end of the project in all respects, in case selected as the L1bidder for providing required services under the contract.

Neither party shall discuss, disclose or otherwise divulge any information related to the contents of this agreement, the projects and business to any third party without prior written consent of the other party. Disclosure of the information is a liable action.

IN WITNESS WHEREOF the Parties hereto have signed hereunder at on ... day of 2023.

Party of First Part

Witness:

Party of Second Part

1)

2)



APPENDIX - C

POWER OF ATTORNEY

(On Applicant's (Lead firm's) letter head)

(Date and Reference)

To
General Manager (Ship building)
Cochin Shipyard Limited
Perumanoor PO
Kochi 682015

Subject: Power of Attorney

Mr. / Mrs. / Ms. (Name of the Person(s)), domiciled
at

.....
..... (Address), acting as.....
(Designation and name of the company), and whose signature is attested below, is
hereby appointed as the Authorized Representative and authorized on behalf of
..... (Name of the company) to
provide information and respond to enquiries etc. as may be required by the Employer
for the project of (Project title) and is hereby
further authorized to sign and file relevant documents in respect of the above.

(Attested signature of Mr.)

For.....
(Name & designation)

(Company Seal)



APPENDIX - D

NON DISCLOSURE AGREEMENT

This NON DISCLOSURE Agreement made at Cochin, Kerala, India on this ____ day of ____ 2023 between Cochin Shipyard Limited a company registered under the Companies Act, 1956 and having its registered office at Cochin-682015 (hereinafter referred to as “CSL”) and _____ a company registered under the Companies Act, 1956 and having its registered office at _____ (hereinafter referred to as “_____”). CSL and _____ shall hereinafter be collectively referred to as “the Parties” and individually as “a Party”.

WHEREAS

b) CSL has floated a tender and is required to provide certain information to (name of the bidder) to prepare his bid and/or

B. The Parties intend that the aforesaid information be kept confidential as between the Parties. The Parties undertake and declare that they shall not divulge, publish or reproduce the same before any party or person except in accordance with the terms of this Agreement.

NOW THEREFORE the Parties agree as follows:

b) As used in this Agreement (hereinafter referred to as the “Agreement”) the term “Confidential Information” shall mean any technical, confidential, proprietary or trade secret information or data disclosed by the Disclosing Party in connection with the.....

_____ to the Receiving Party including without limitation any written or printed documents, specifications for the vessel, plans, general arrangement plans, production schedules, drawings, samples, models, information regarding business operations, financial information, marketing strategies, either in writing or orally or any means of disclosing such Confidential Information that the Disclosing Party may elect to use prior to the execution or during the validity of this Agreement. The Receiving Party agrees that all Confidential Information shall be treated as absolute confidential and the Receiving Party shall not disclose to any person such information otherwise than in terms of this Agreement. The Receiving Party will impose a similar duty of confidentiality on any person to whom the Receiving Party is permitted to transfer such information in accordance with the terms hereof.

For the purposes of this Agreement, the term “Receiving Party” shall mean and include its officers, employees, directors, agents, contractors, representatives, affiliated companies, successors and assigns.



TENDER ENQUIRY NOTICE – Fabrication & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads for MPV vessels

2. Nothing in this Agreement may be construed as compelling the Disclosing Party to disclose any Confidential Information to the Receiving Party or to enter into any contractual relationships with the Receiving Party.
3. Any information or data in whatever form disclosed by the Disclosing Party to the Receiving Party and which (i) is clearly identified as Confidential Information by an appropriate and conspicuous marking or (ii) has been identified as Confidential Information at the time of disclosure shall be subject to the relevant terms and conditions of this Agreement. The Disclosing Party's decision whether any information disclosed by it under this Agreement is confidential or not shall be final and binding on the Receiving Party.
4. The Receiving Party hereby covenants that the Confidential Information received from the Disclosing Party shall:
 - (a) Be safely kept by the Receiving Party; the Receiving Party shall protect the Confidential Information with the same degree of care as the Receiving Party uses with its own confidential Information in order to prevent its disclosure, copy and / or its use (but in no event less than reasonable care) for purposes other than the Proposal.
 - (b) Be only disclosed to, and used by, those employees or directors who have a need to know. will not be disclosed to a third party except those with a need to know provided they receive such information subject to the same restrictions as are contained in this Agreement.
 - (d) Be used by the Receiving Party directly or indirectly, solely for the purpose of considering, Evaluating and effecting the tender/bid/contract.
5. The Receiving Party shall promptly upon requests by the Disclosing Party at any time return all copies of the Confidential Information communicated to it hereunder together with all copies and extracts made thereof and shall not retain any copies of the same, in any form whatsoever.
6. The Receiving Party shall have no obligations or restrictions with respect to:
 - (a) Information publicly known through no wrongful act of the Receiving Party.
 - (b) Information rightfully disclosed by a third party without breach of this Agreement by the Receiving Party and which can be communicated without restriction.
 - (c) Information which was already known or which was independently developed by the Receiving Party (provided that the Receiving Party can demonstrate the same).
 - (d) Information, the disclosure of which the Disclosing Party authorizes in writing.
7. Nothing in this Agreement shall be construed as granting to the Receiving Party any patent, copyright or design license, or rights of use under similar intellectual property rights in respect of the Confidential Information.
8. The Receiving Party shall not without prior written consent of the Disclosing Party:

TENDER ENQUIRY NOTICE – Fabrication & Supply of Hatch covers and Tween Deck Panels/ Grain bulkheads for MPV vessels

(a) Disclose to any person, directly or indirectly:

- i) The fact that the Confidential Information has been made available to the Receiving Party by the Disclosing Party or that the Receiving Party has inspected any portion of the Confidential Information; or
- ii) The fact that any discussion or negotiation is taking place concerning the Proposal; or
- iii) Any of the terms, conditions or other facts with respect to the Proposal, including the status thereof; or

(b) Make any private or public announcement or statement concerning or relating to the Proposal.

9. The Disclosing Party represents and warrants that save as otherwise notified in writing to the Receiving Party:

- a) Disclosure of information by it to the Receiving Party does not infringe the rights of any third party nor is it under any restriction with regard to the disclosure of any information, and that where applicable, it has obtained all licenses and consents necessary to enable the lawful disclosure of information by it to the Recipient; and
- b) It is not aware of any restriction on the use of such information by the Receiving Party, save as provided in this Agreement.
- c) To the effect that the foregoing representations and warranties shall be deemed to be given at the date of this Agreement and after that date upon and in respect of each disclosure.

The Disclosing Party makes no warranty or representation whatsoever as to the accuracy, completeness, suitability or adequacy of any information or as to the results obtained from it and assumes no responsibility in respect of the use of the information by the Receiving Party.

10. The Receiving Party shall indemnify and hold harmless the Disclosing Party from and against any action, claim or proceeding and any loss, damage, costs, expenses or liabilities arising out of any such action, claim or proceeding, brought by any third party pursuant to any unauthorized disclosure or use of any information by the Receiving Party, or by any person for whom the Receiving Party is responsible under this Agreement, or pursuant to any breach of any undertaking, warranty or representation contained in this Agreement.

11. For the purposes of this Agreement 'Classified Information' shall mean information, documents and material of any kind which the respective Government i.e. Indian Government has given or caused to be given a security classification irrespective of whether the same is transmitted orally, electronically, in writing or by hand. Notwithstanding any other provision of this Agreement:

- a) Each Party hereto undertakes to follow security procedures prescribed for military purposes with respect to disclosure, receipt, production, use and handling of Classified Information.



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b) Any Classified Information, disclosed by one Party hereto shall be, whatever the method of disclosure be, identified by the Disclosing Party as Classified Information at the time of disclosure.

c) The provisions of this Clause are to remain in full force and effect notwithstanding any termination by expiration or otherwise of this Agreement.

12. In the event the Receiving Party is required to disclose Confidential Information under any provision of law or upon an action, subpoena or order of a court of competent jurisdiction or of any requirement of legal process regulation or governmental order, decree, regulation or rule, the Receiving Party will immediately notify the Disclosing Party of its having received a request to so disclose (along with the terms and circumstances thereof), unless otherwise prohibited by law and consult with the Disclosing Party on action or steps to be taken in response to such request.

13. This Agreement represents the entirety of the agreement of the Parties relating to the disclosure of the Confidential Information and shall not be waived, amended or assigned by the Receiving Party except by prior written consent of the Disclosing Party. No failure or delay by any party in exercising any right, power or privilege hereunder shall operate as a waiver thereof nor shall any single or partial exercise of any right, power or privilege. The rights and remedies herein provided shall be cumulative and not exclusive of any rights or remedies provided by law.

14. This Agreement shall be valid for a period of TWO (02) years from the date of its execution between the parties. Notwithstanding the aforesaid, the obligations of Parties in connection with confidentiality under this Agreement shall survive in perpetuity.

15. The foregoing constitutes the entire Agreement between the Parties with respect to the subject matter hereof and supersedes and cancels any prior representation, understanding and commitment (whether oral and written) made between the Parties with respect to or in connection with any of the matter of things to which this Agreement applies.

16. This Agreement shall be governed by and shall be interpreted in accordance with the laws of India.

17. Any dispute arising in connection with or out of the validity, performance or the interpretation of this Agreement shall be finally settled by the competent jurisdiction in Cochin.

18. The Receiving Party acknowledges that any breach of the terms and conditions of this Agreement may cause the Disclosing Party irreparable damage for which recovery of money damages would be inadequate. Therefore, the Receiving Party agrees that the Disclosing Party shall be entitled, in addition to any other remedies available to it, to seek injunctive relief.



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and/or other equitable relief to prevent or restrain any breach by the Receiving Party or its employees/officials, or otherwise to protect its rights, under this Agreement.

19. Unless otherwise provided herein, all notices or other communications under or in connection with this Agreement shall be given in writing and may be sent by personal delivery or post or courier or facsimile at the address as specified herein below:

To CSL

Address:

Phone No.:

Fax:

E-mail:

To _____

Address:

Phone No.:

Fax No. :

E-mail:

Any such notice or other communication will be deemed to be effective if sent by personal delivery, when delivered, if sent by post, 4 (four) days after being deposited in the post and if sent by courier, one day after being deposited with the courier, and if sent by facsimile, when sent (on receipt of a confirmation to the correct facsimile number).

IN WITNESS WHEREOF, this Agreement is executed by authorized representatives of both the Parties in two (2) originals.

Signed by the within named

CSL

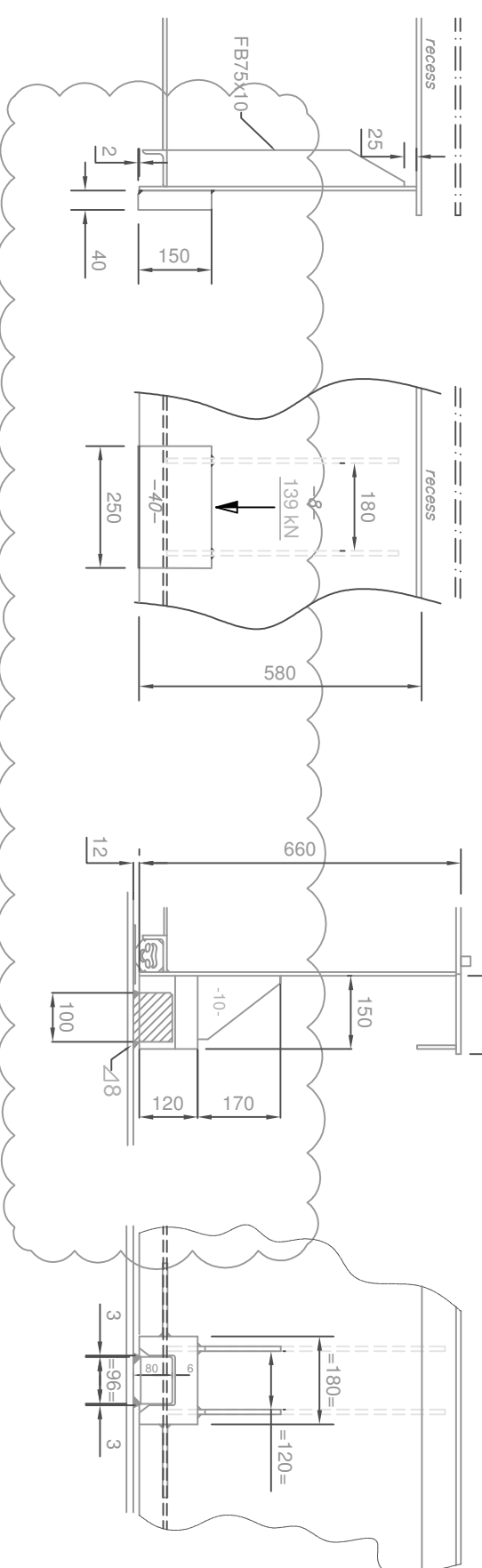
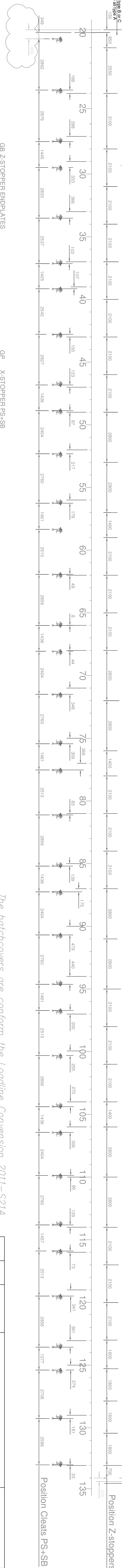
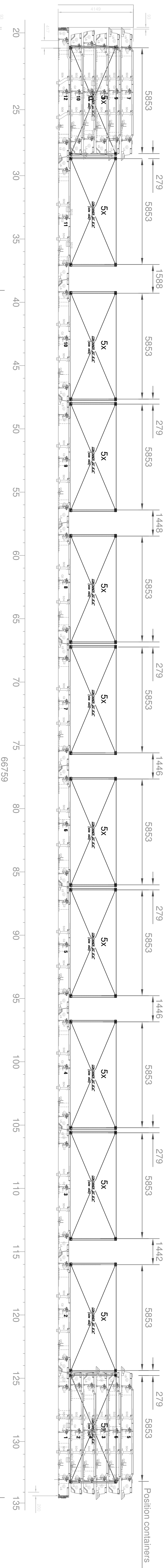
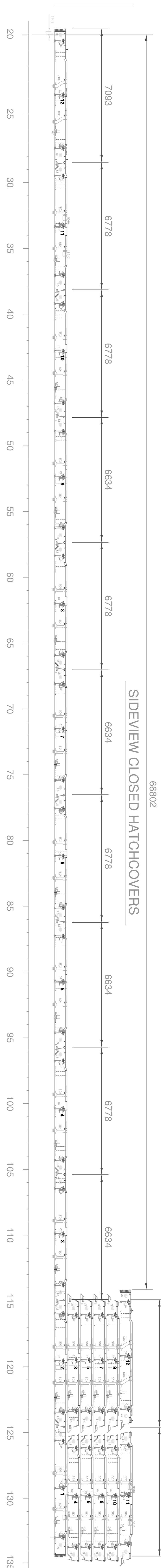
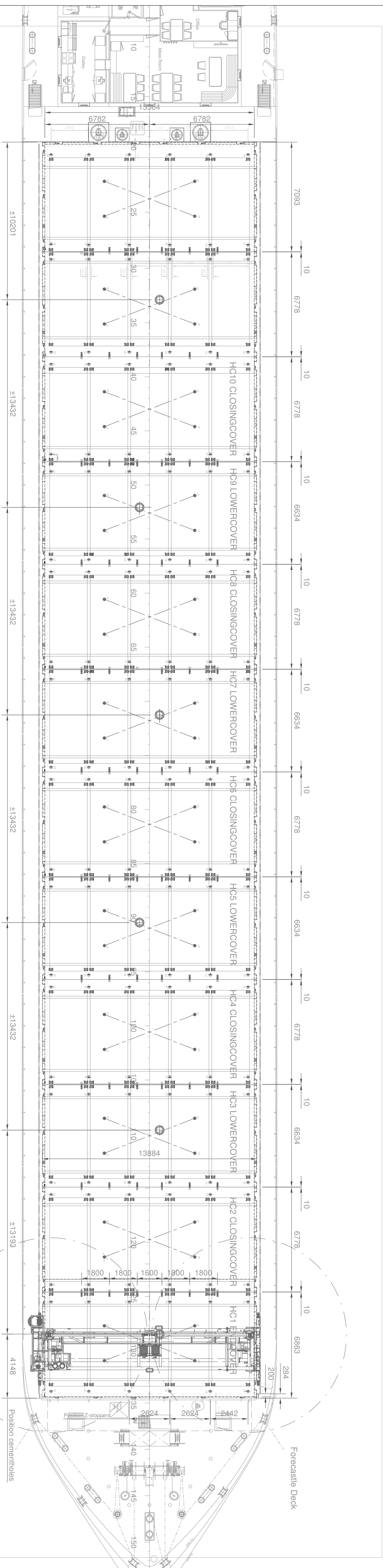
In presence of

Signed by the within named

In presence of

Note: The above Agreement is to be drawn up by the contractor on non-judicial stamped paper of value Rs.100/-, if it executed in Cochin, Kerala. However, for other places stamp duty is to be levied as per Stamp Act of respective States.



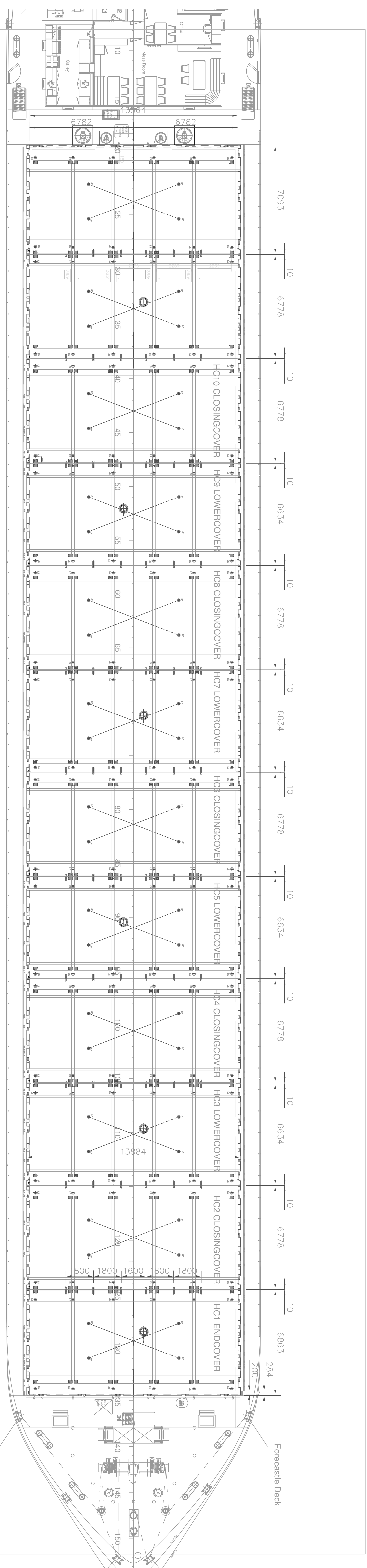


The hatch covers are conform the Loadline Convention 2011-S214
Max cargo load 2.07/m²
TEU-261/FEU-521

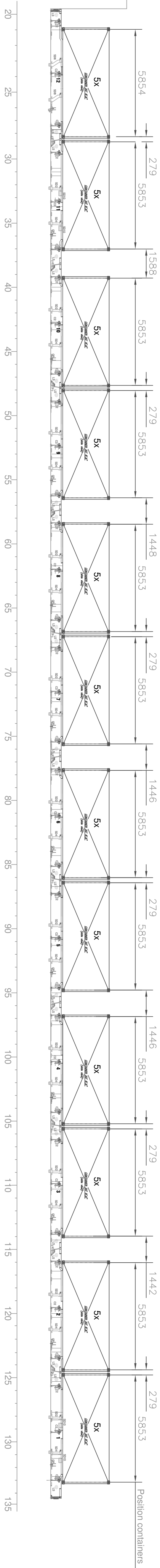
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Rev	D	Uses Materials	ESS/12-12-2022
Rev	C	Z-stoppers / Slips	16/23-9-2022
Rev	D	Reloop hatch covers	ESS/30-8-2022
COOPS & NIEBORG BV			
HOOGZAND-HOLLAND			
P.O. BOX 226			
9600 AE Hoogezand			
TEL: 00-31-(0)598-395500			
Fax: 00-31-(0)598-392427			
E-mail: telekamer@coops-nieborg.nl			
www.coops-nieborg.nl			
YARD DRAWING NO.: P22003			
YARD NO.: 001-1			
DRAWING No. A0			
EDITION E			
General arrangement Hatch covers HS-Schiffahrt			
TOLERANCE SYSTEM DN 2110			
CHECKED			
DRAWN-DATE ESS/20-01-2023			
SCALE 1:50			
MATERIAL			
DIMENSION			
REMARKS			

HS Schiffahrts Group
COMPETENCE SHIPPING

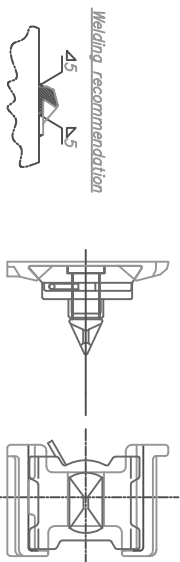




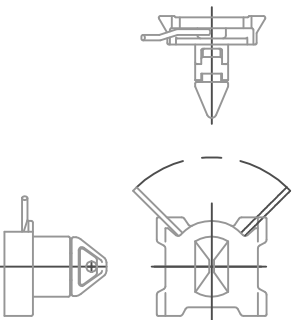
SIDEVIEW CLOSED HATCHCOVERS



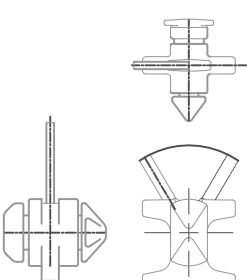
Detail container fitting ILS type DF-31-55
240x on maindeck hatches



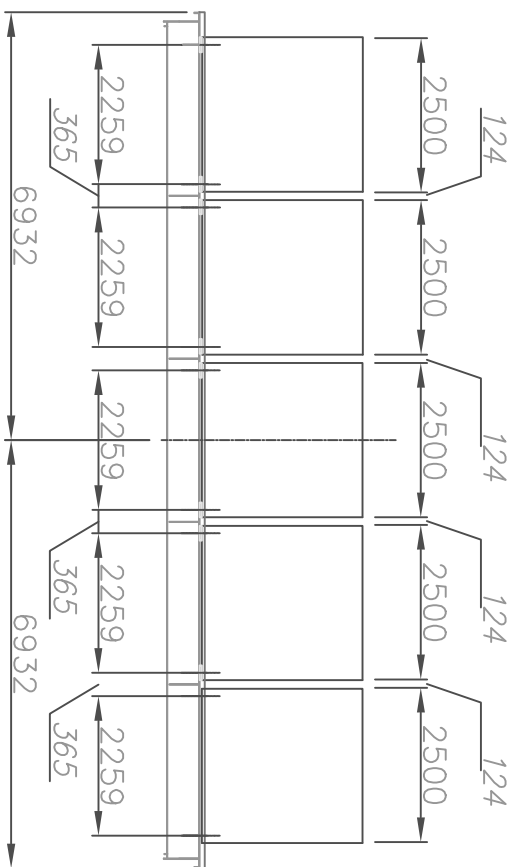
Detail pointload twistlock ILS BF-11-55 (del. yard)
240x on maindeck hatches



Detail pointload twistlock ILS IF-51 (del. yard)



Lashing ring ILS
192x on maindeck hatches
Lashing ring LP14-50t
Lashing ring LP14
double plate 200x100x15
48x on sideplate
without double plate
144x on topplate



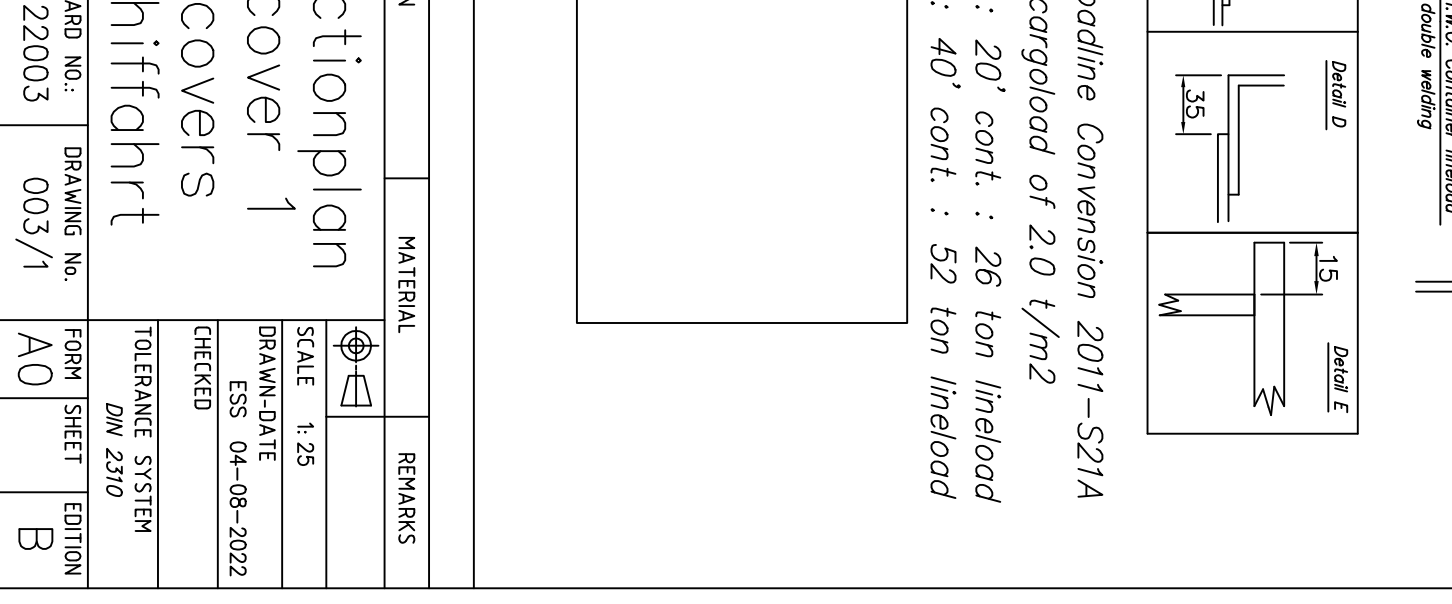
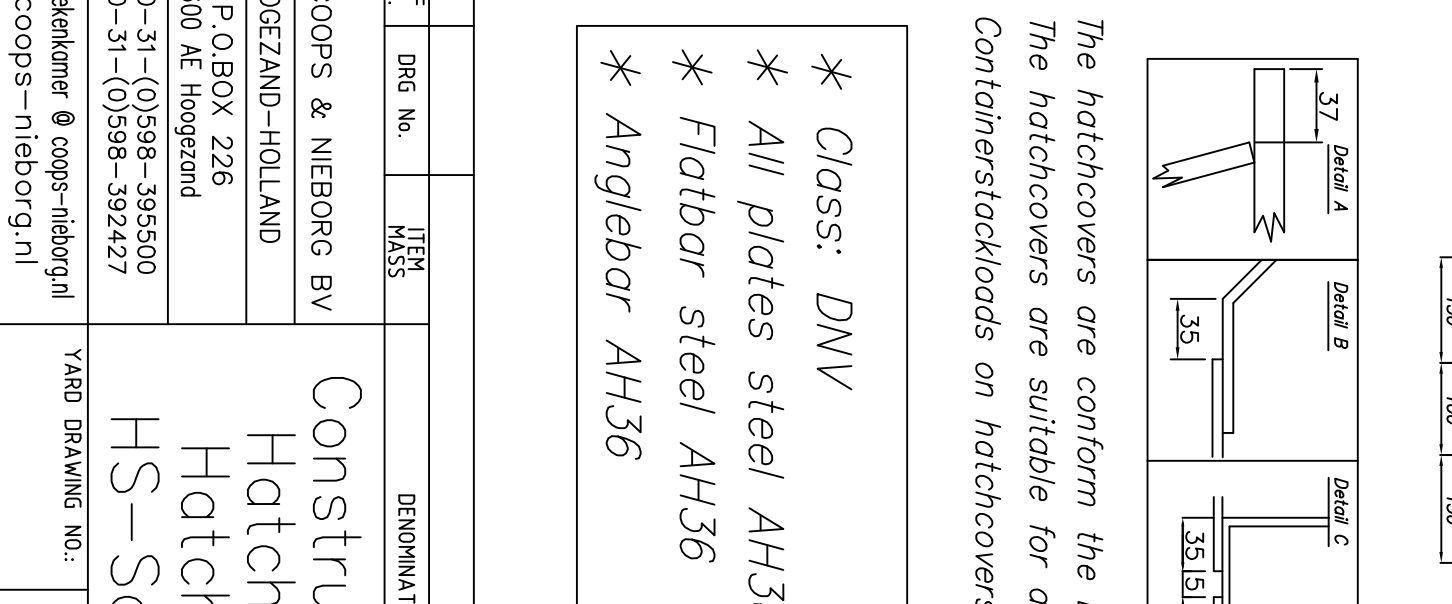
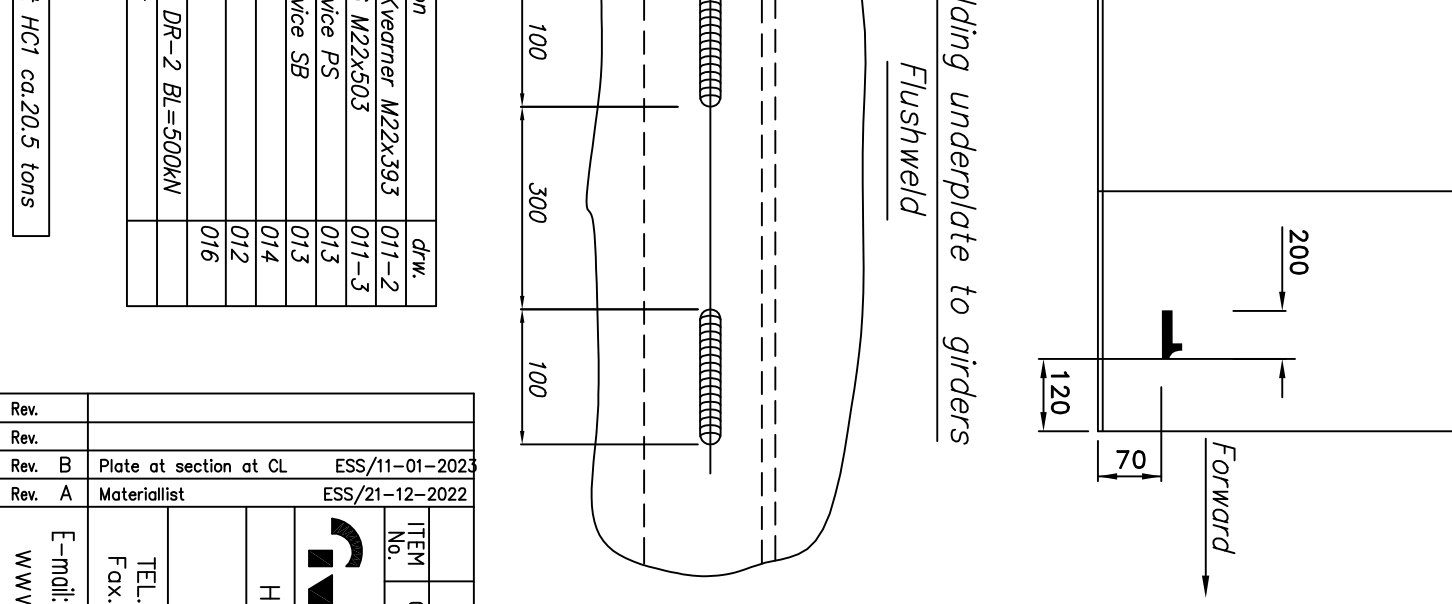
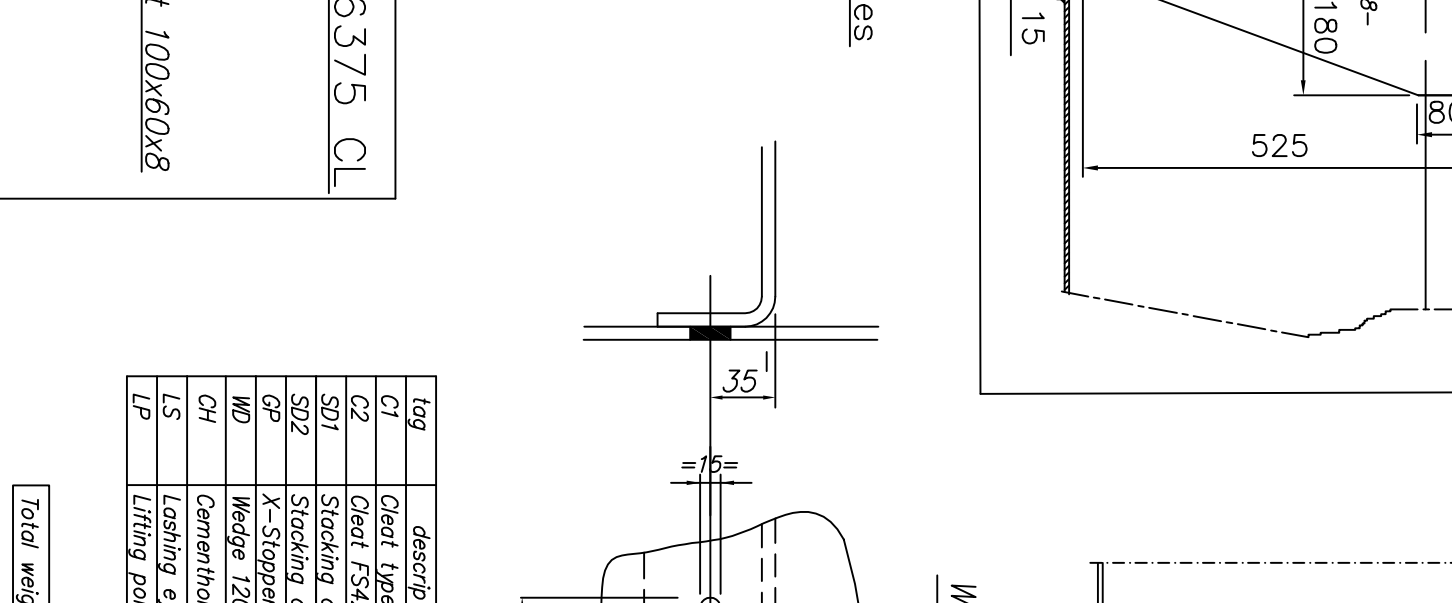
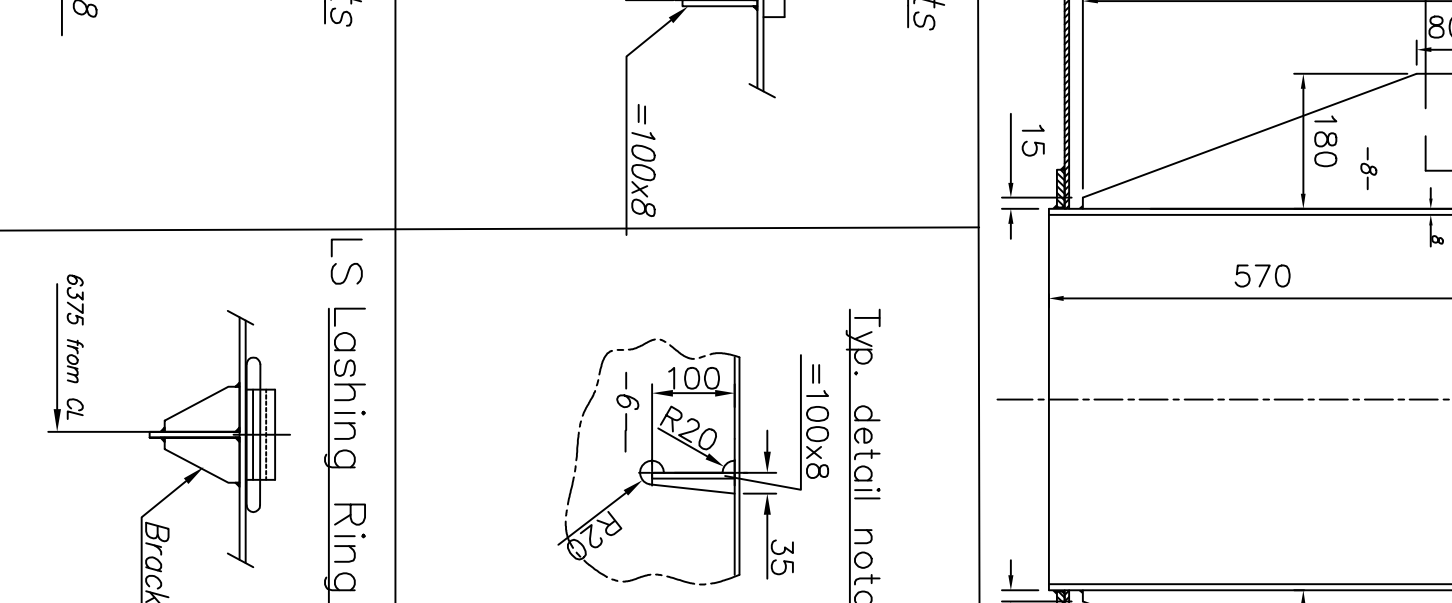
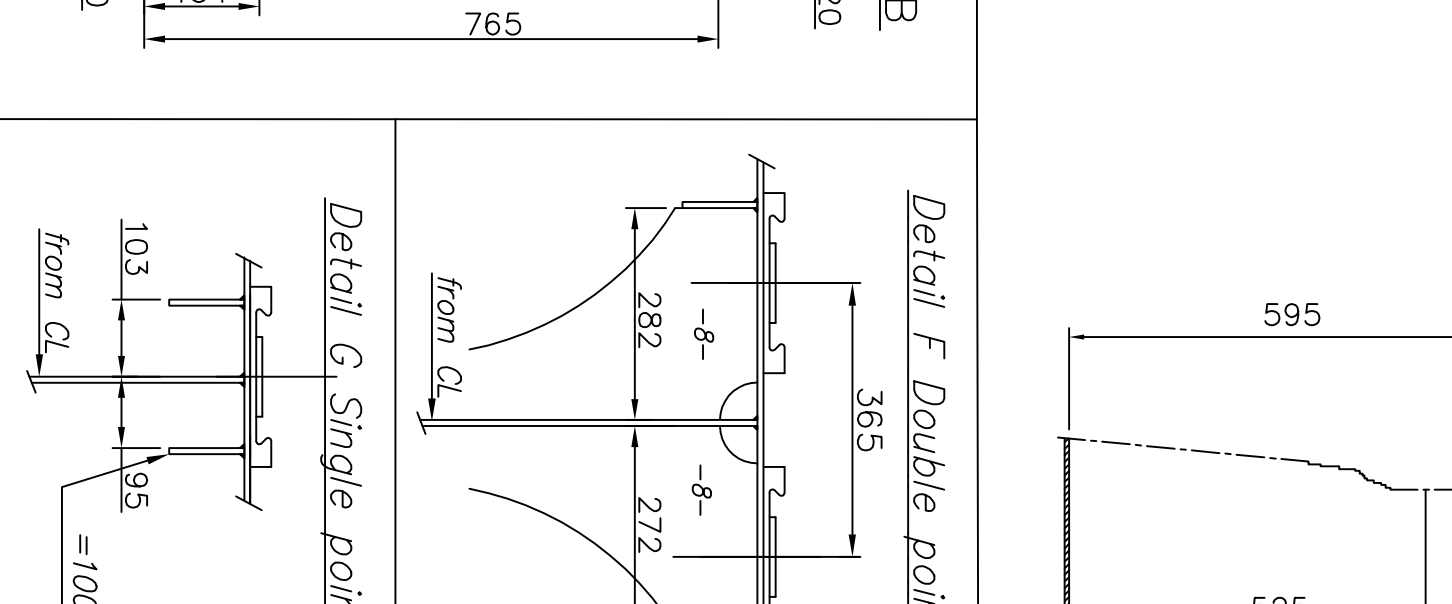
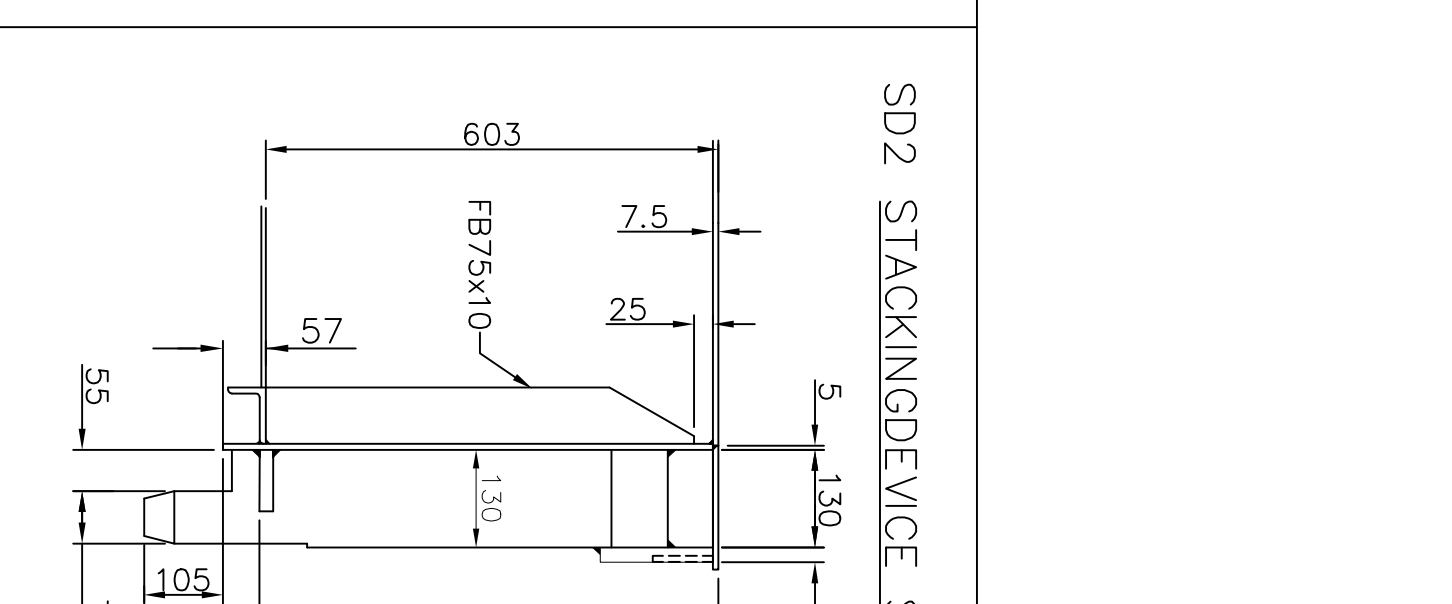
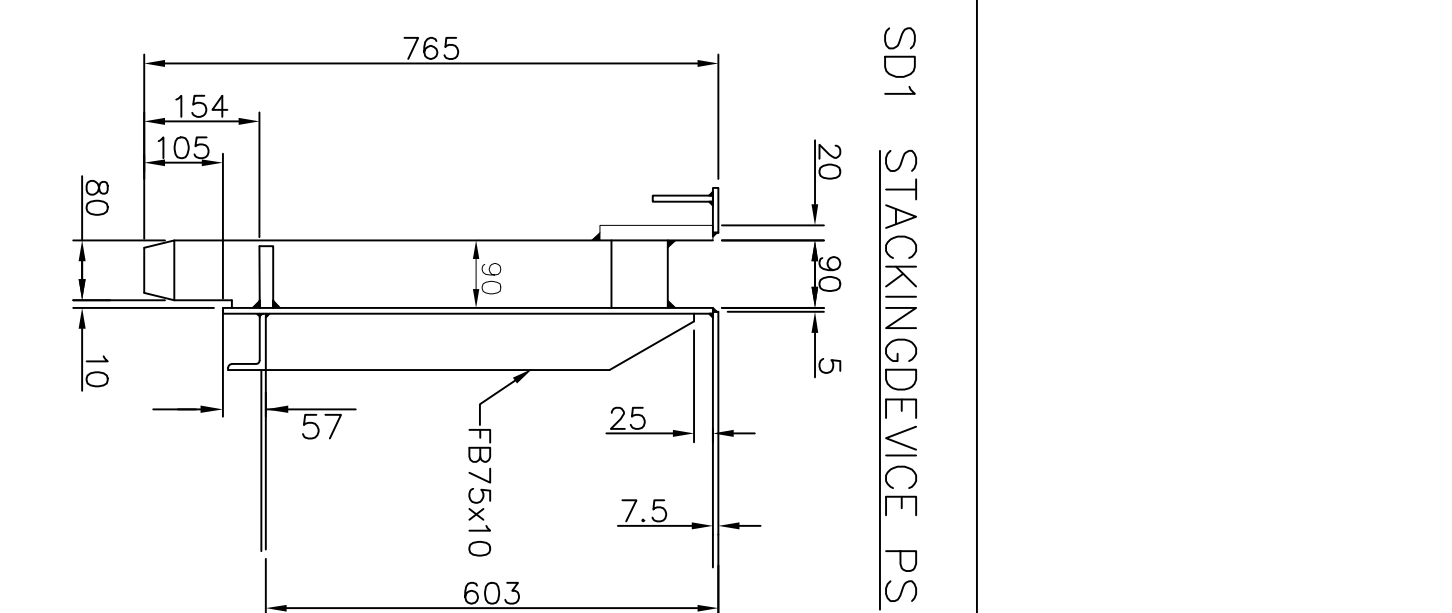
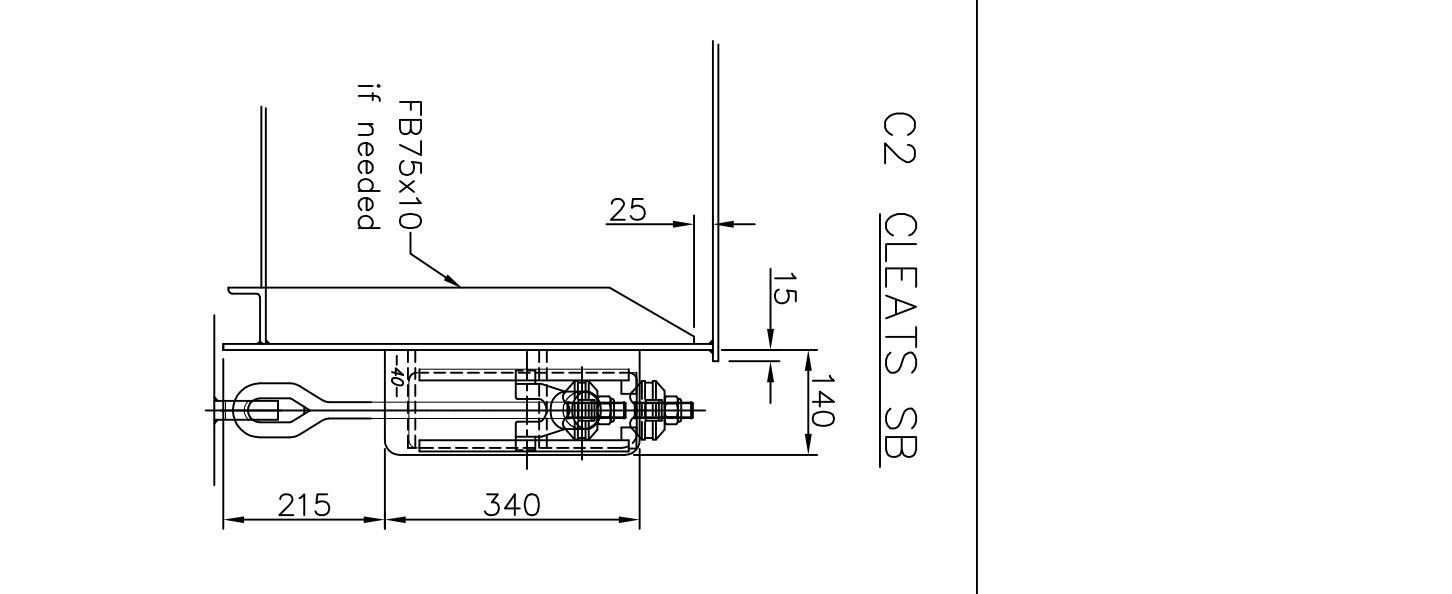
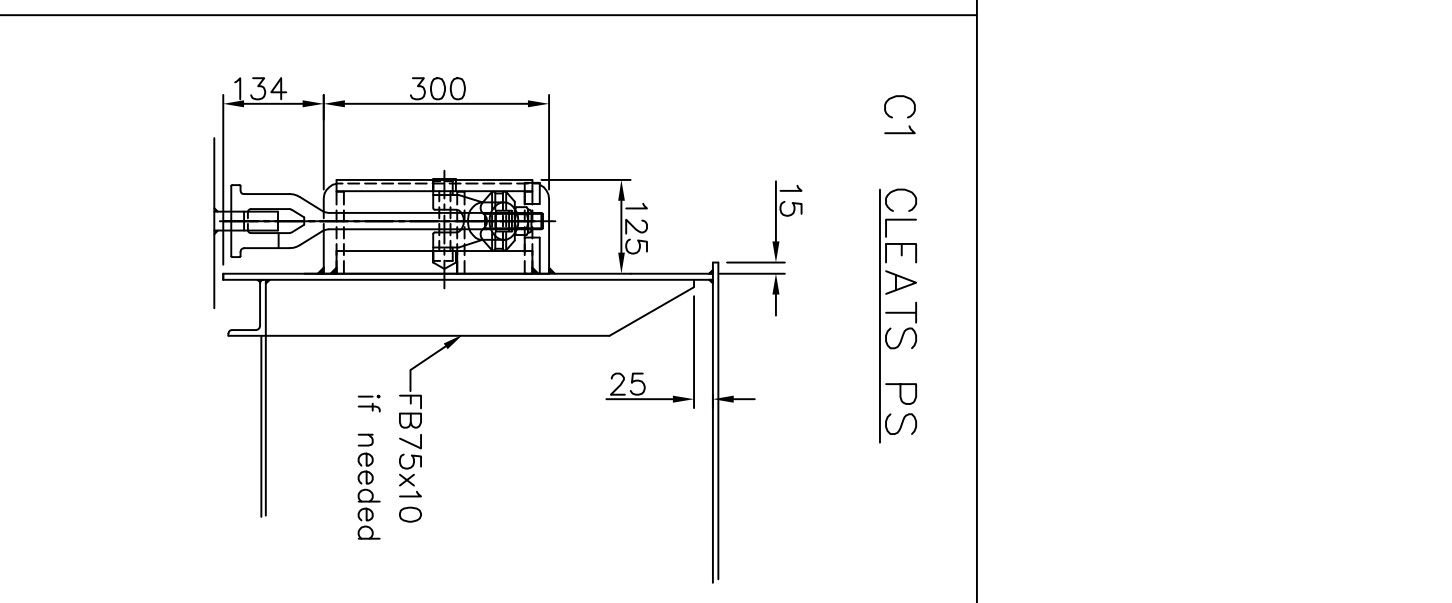
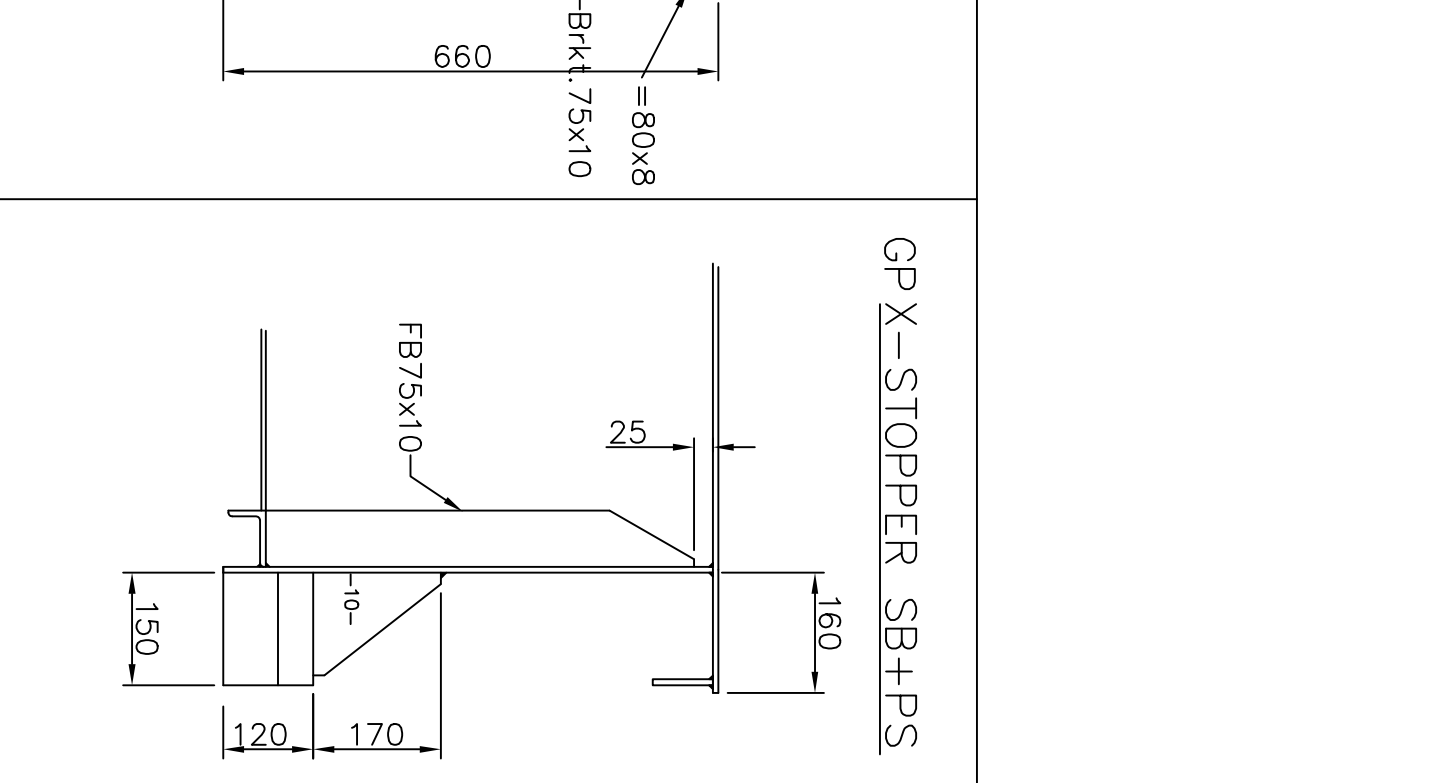
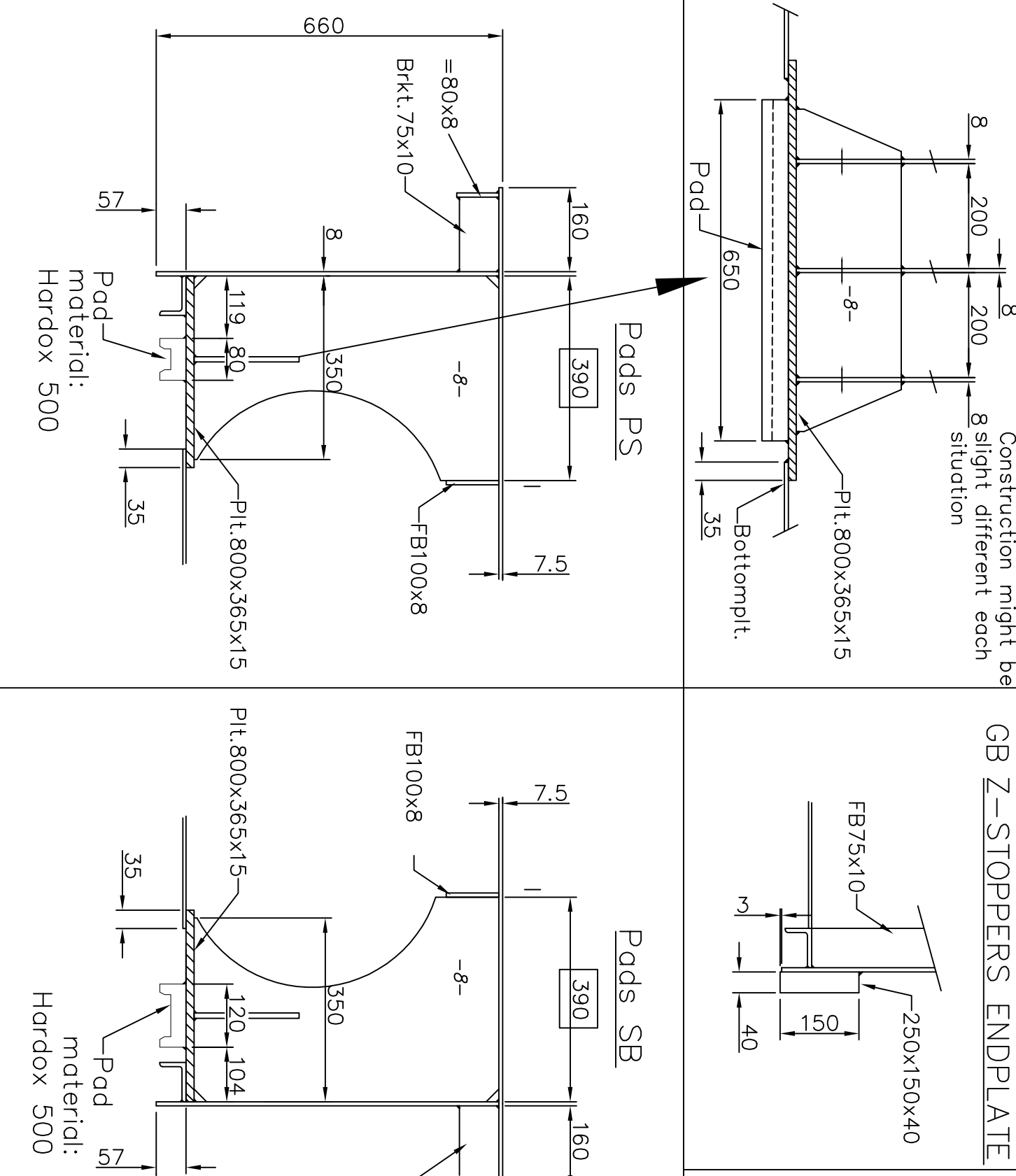
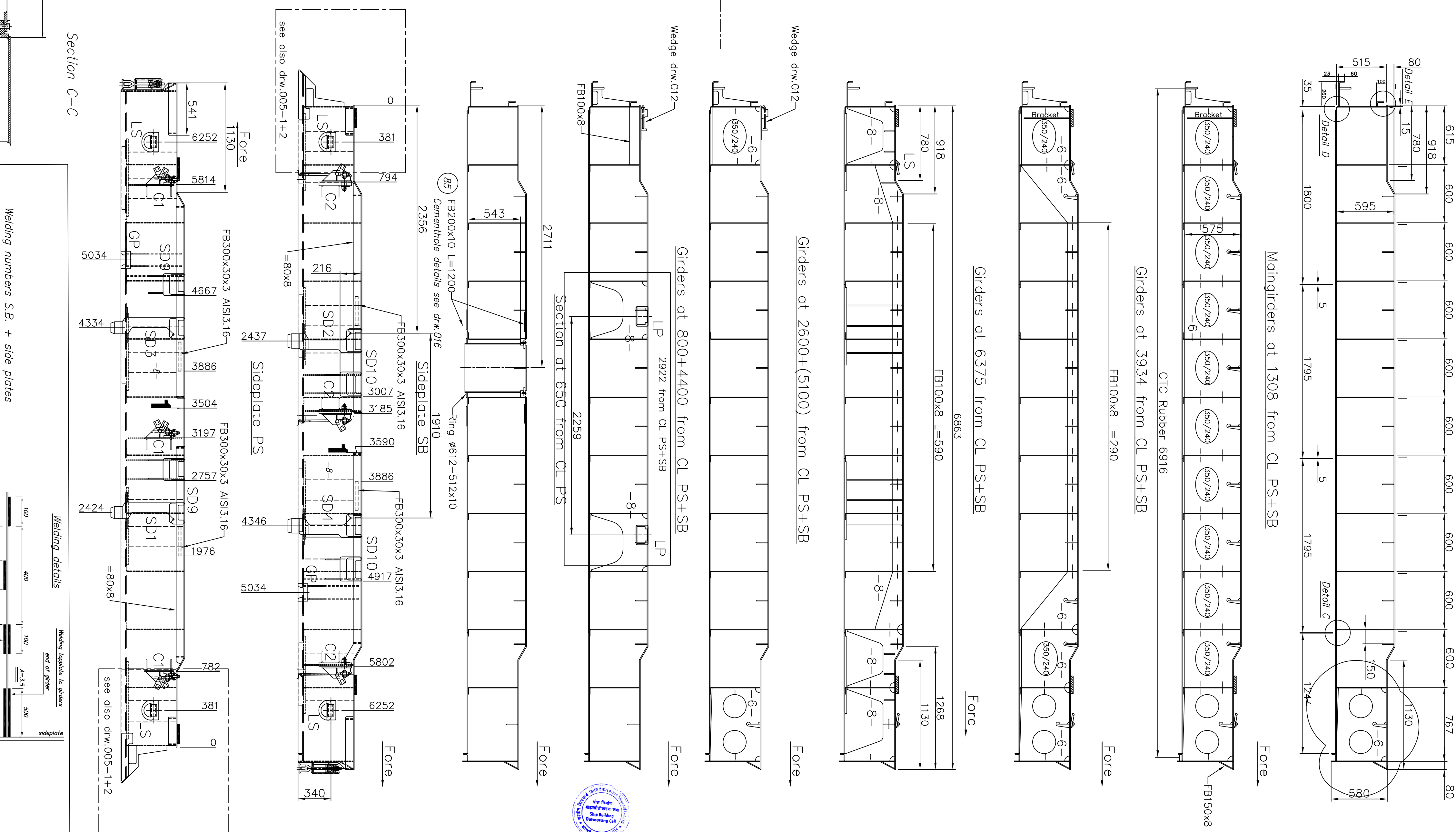
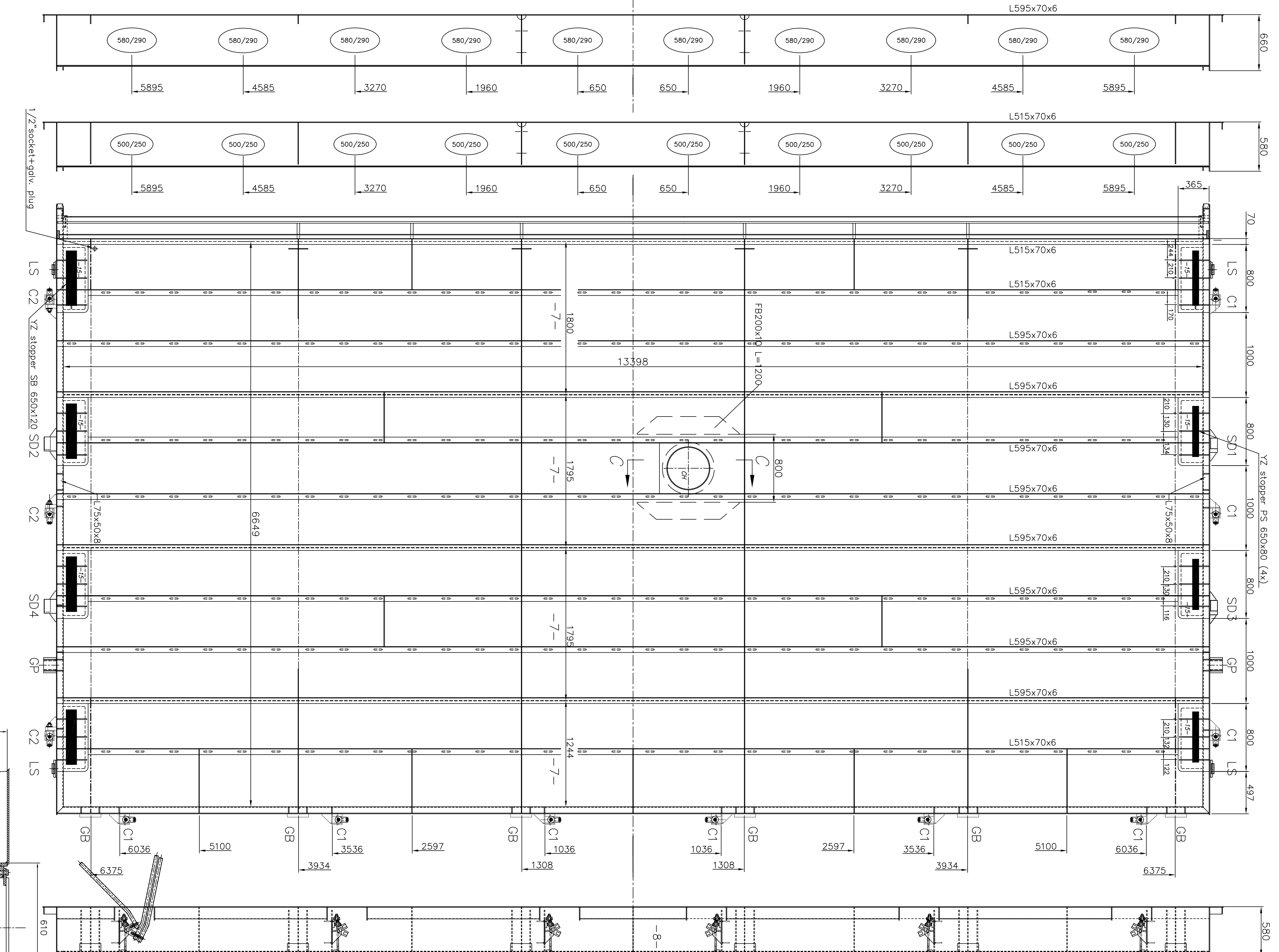
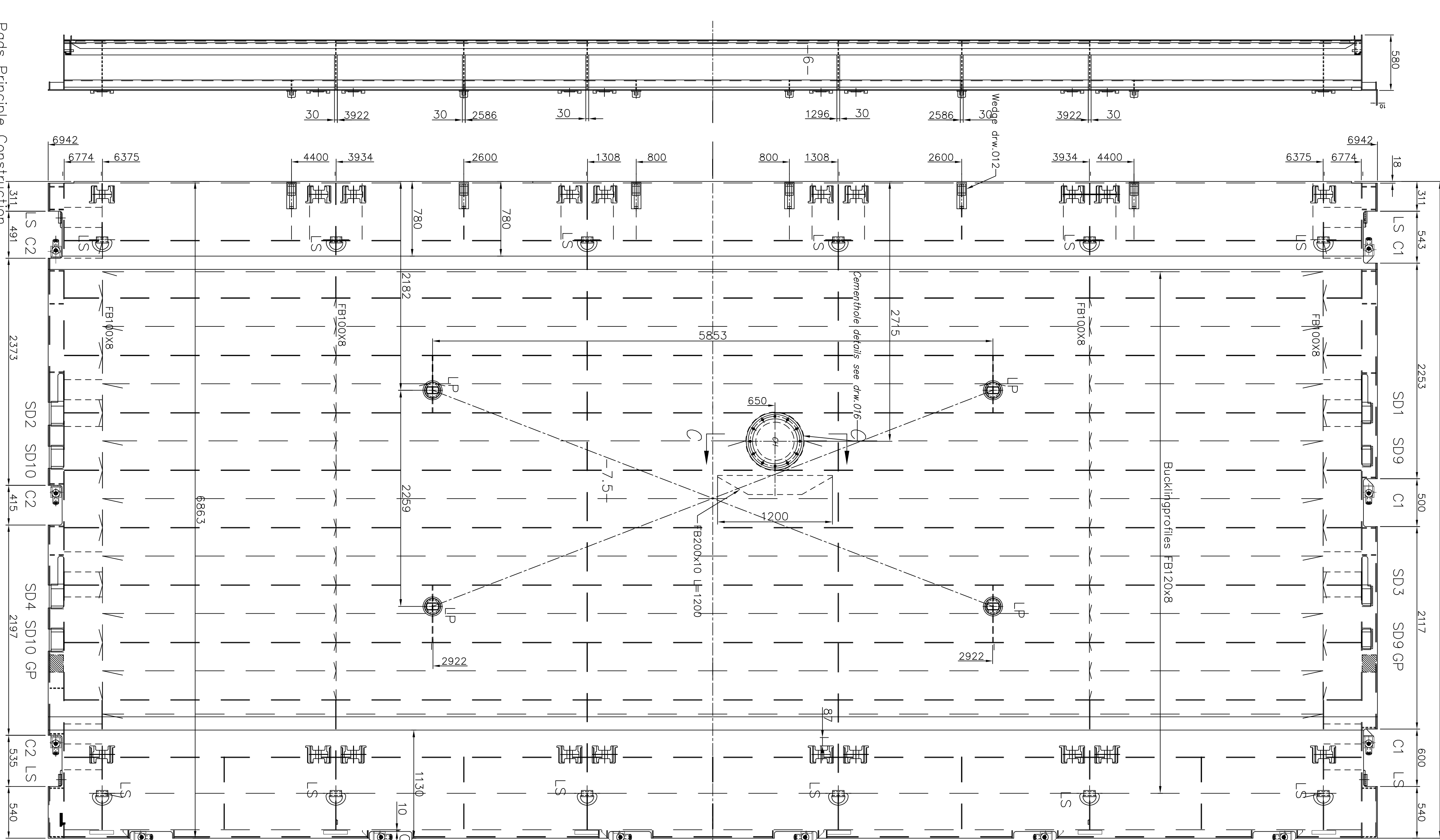
The hatchcovers are conform the Loodline Convenson 2011-S214
Max cargo load 2.07/m²
IEU-261/FEU-521

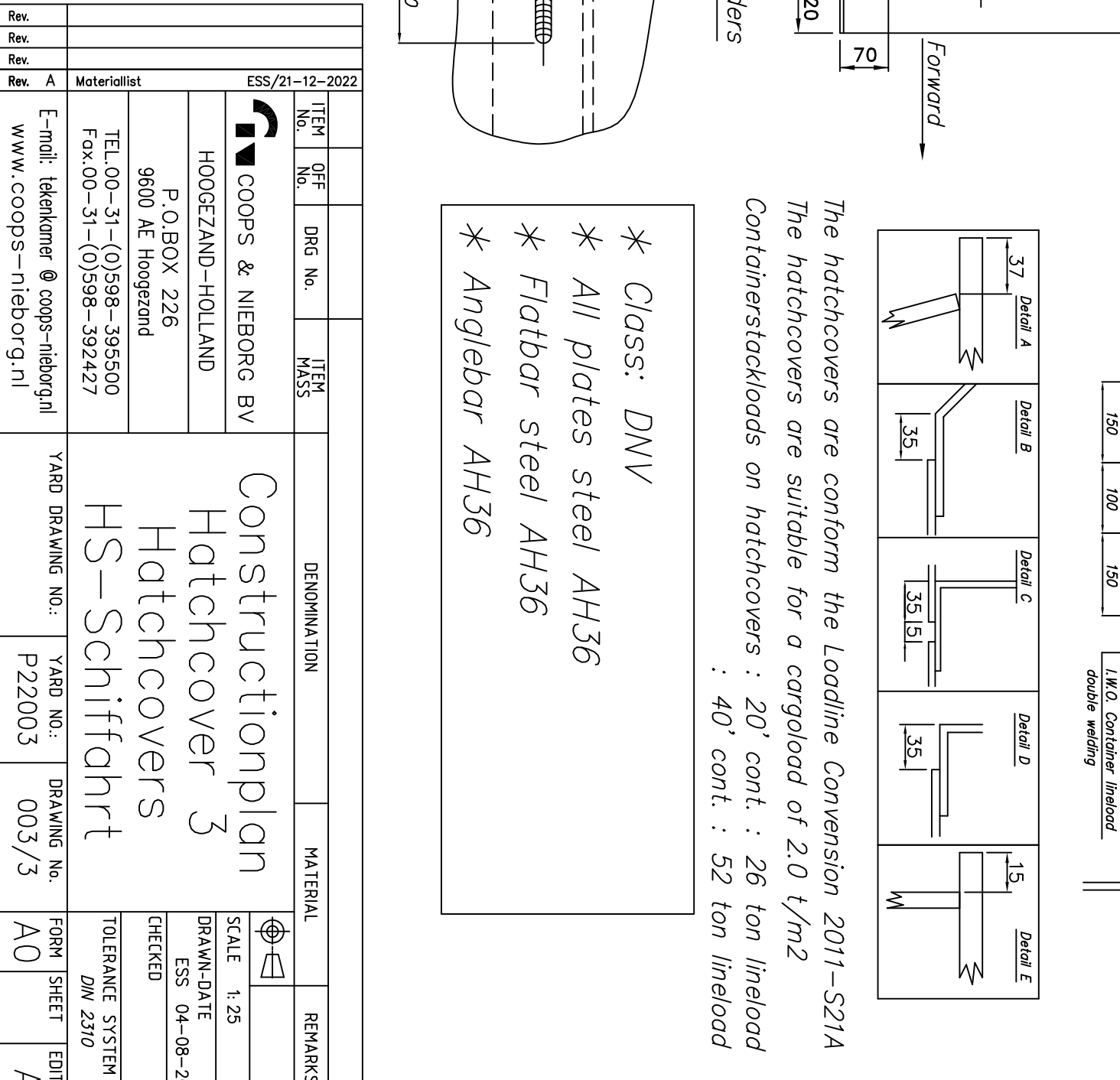
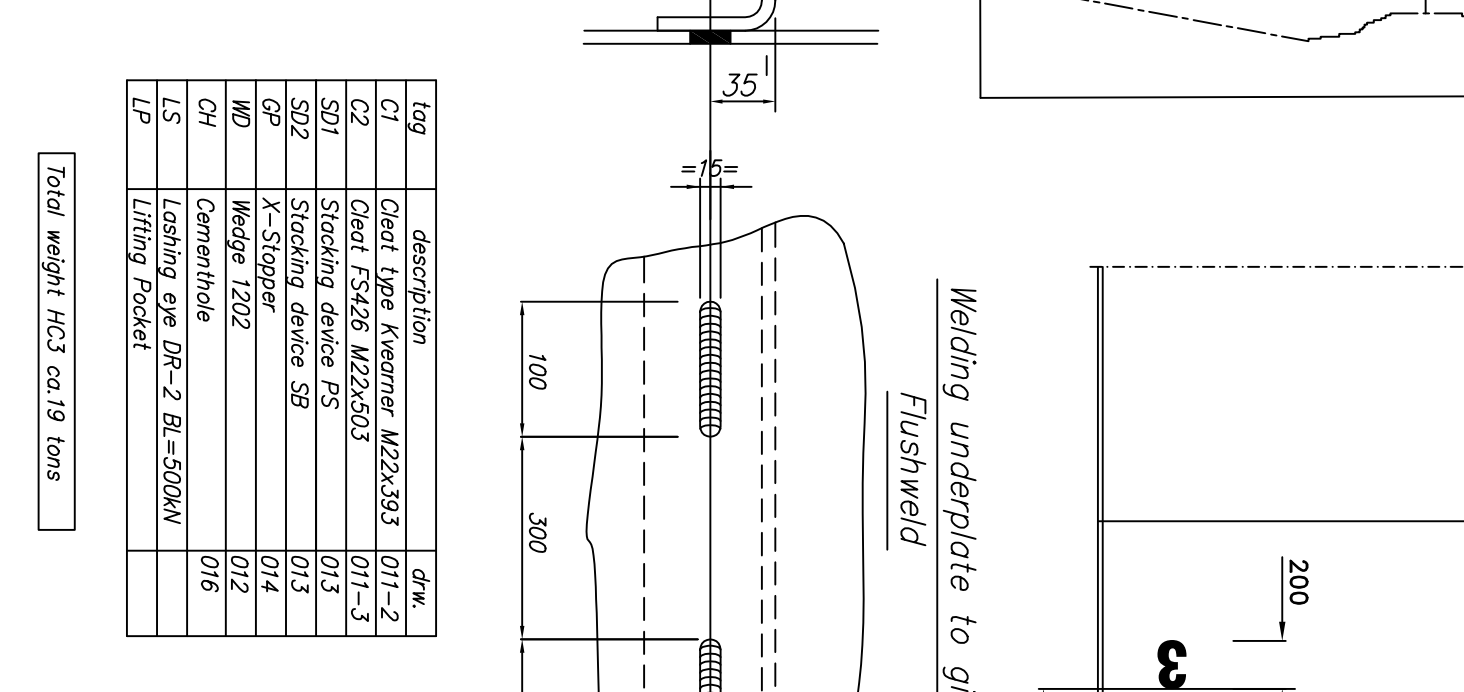
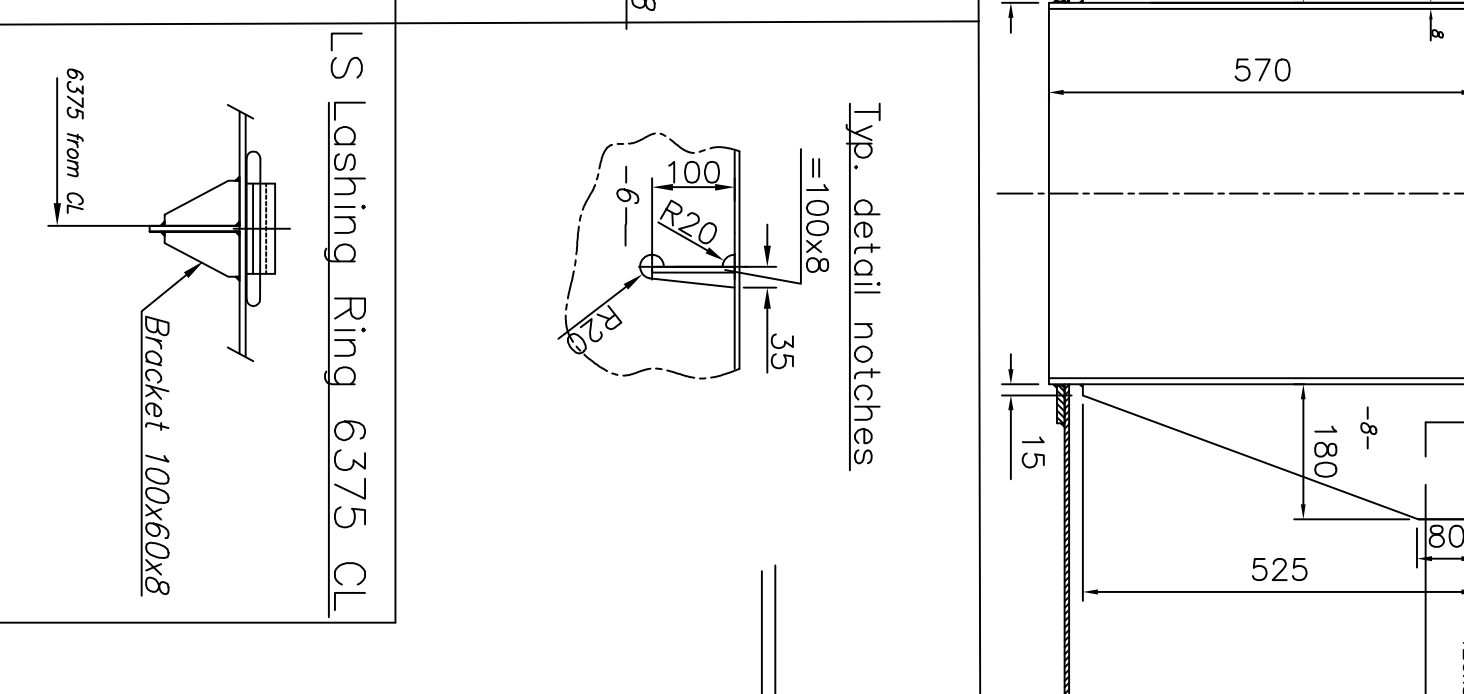
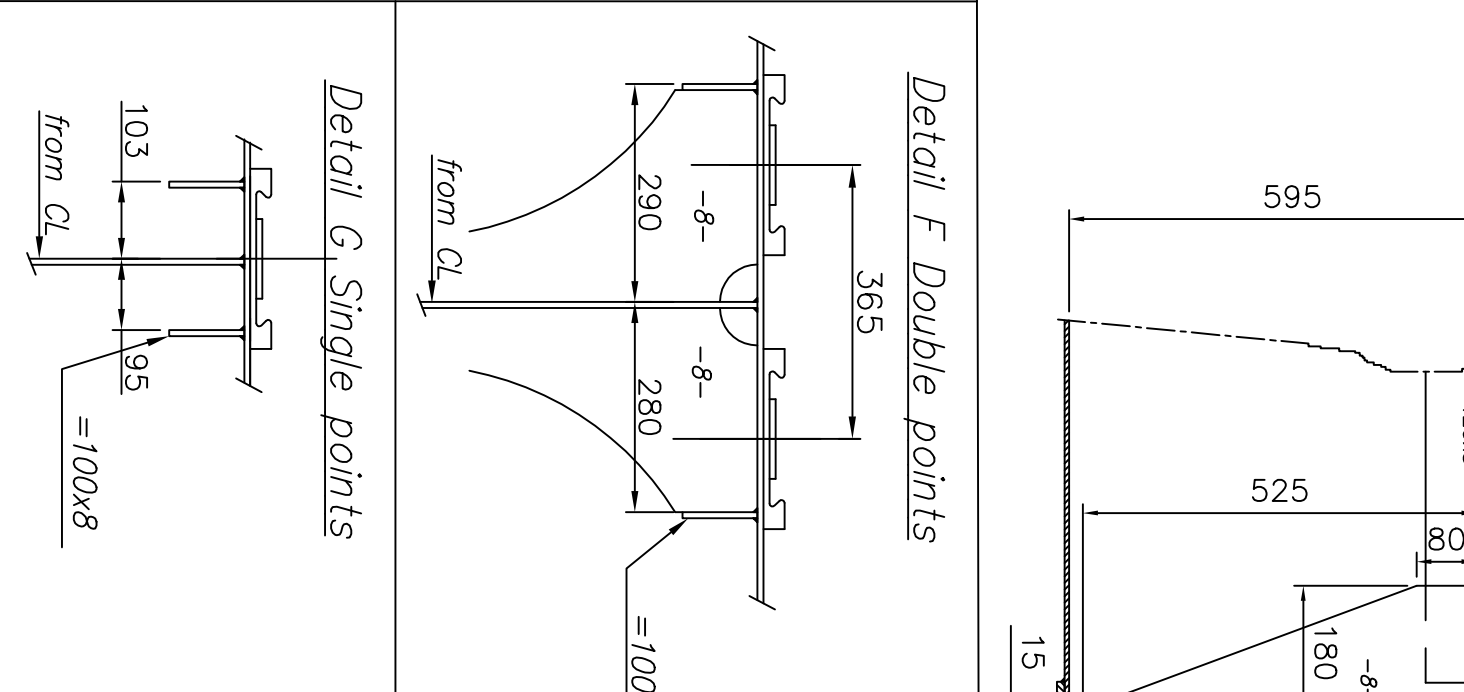
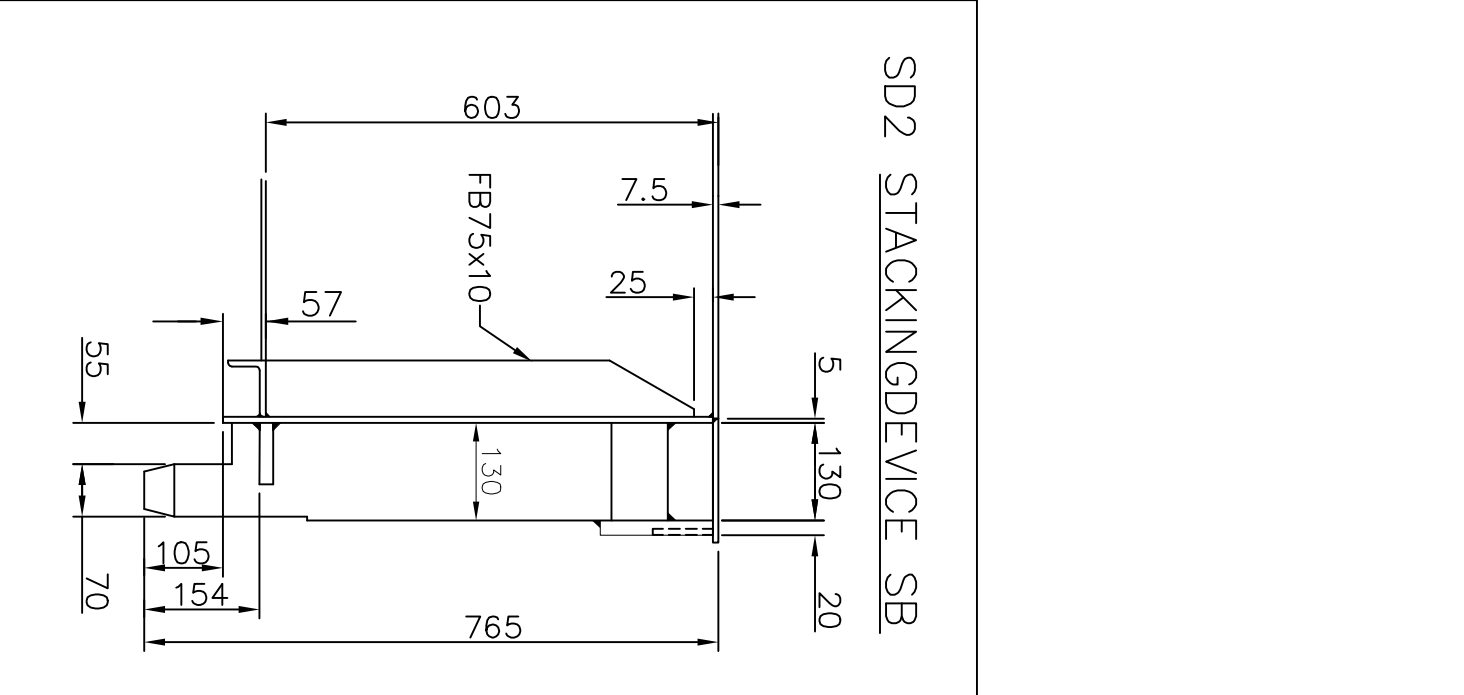
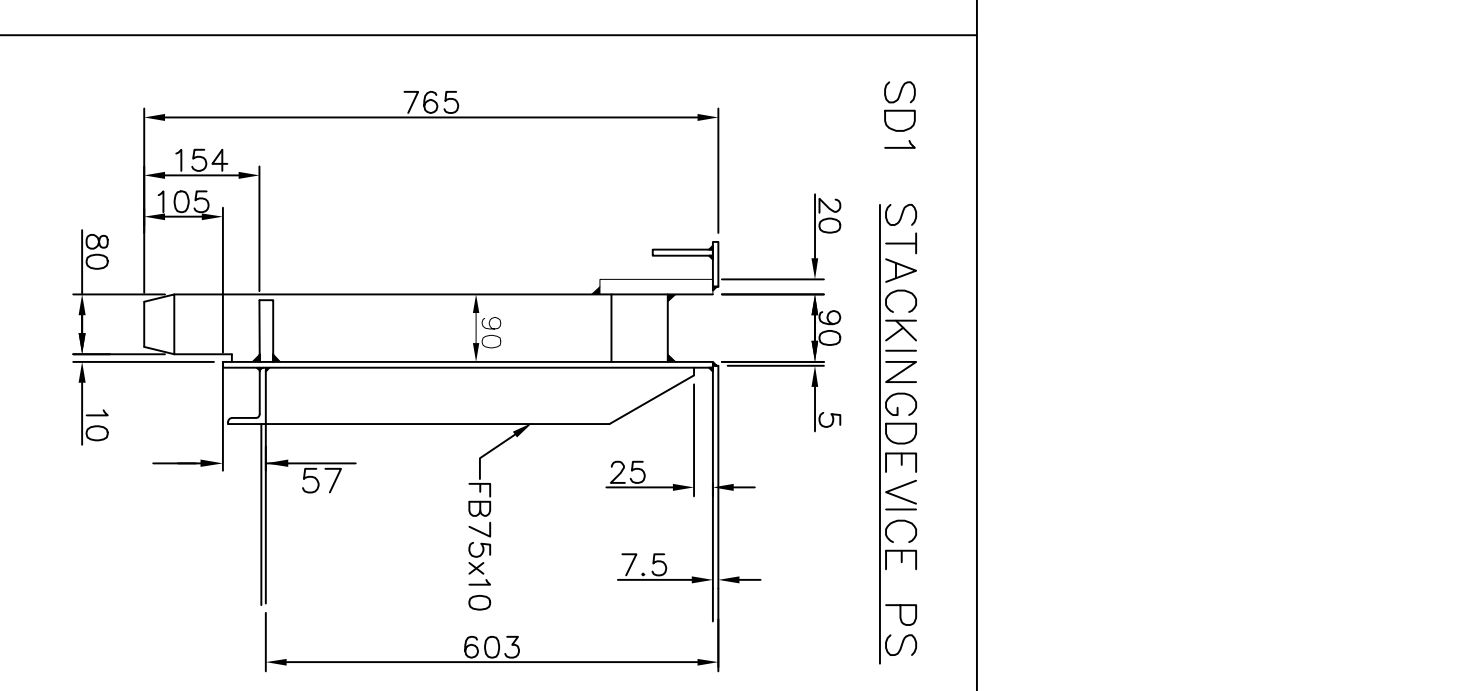
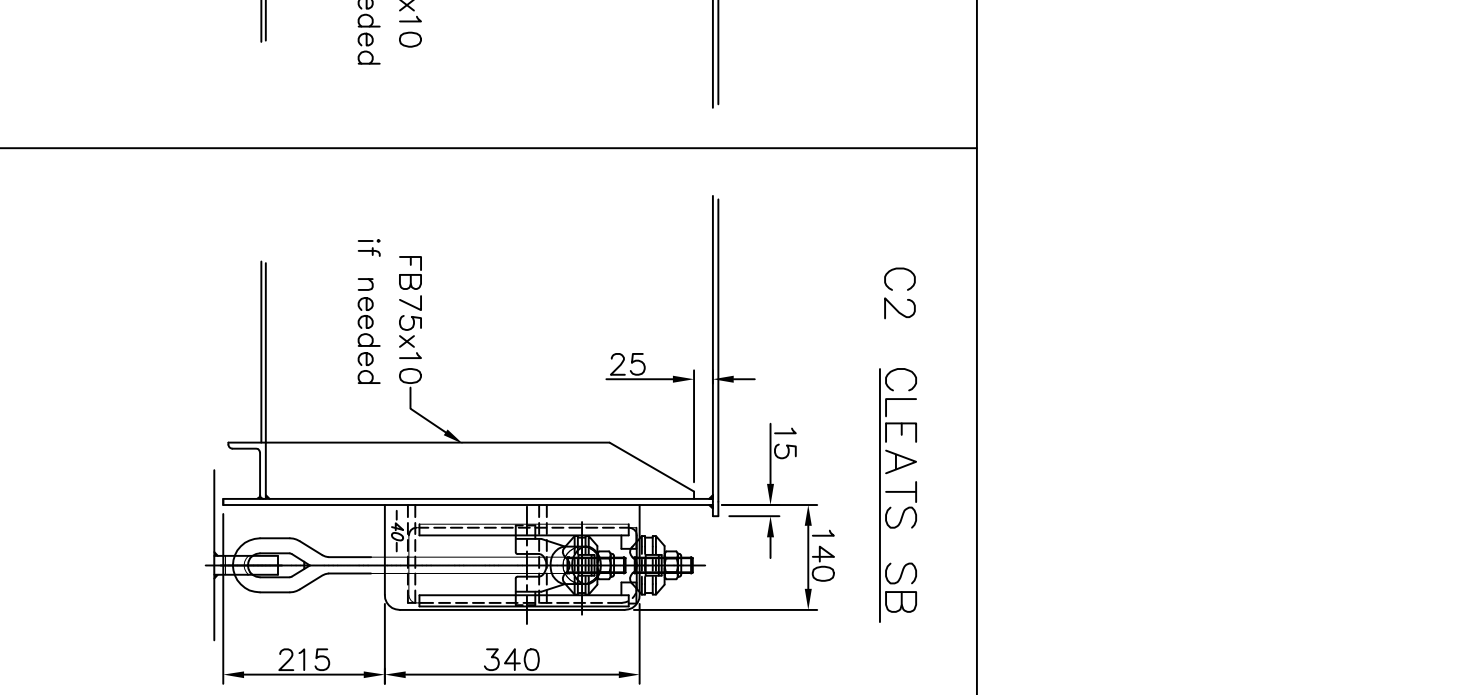
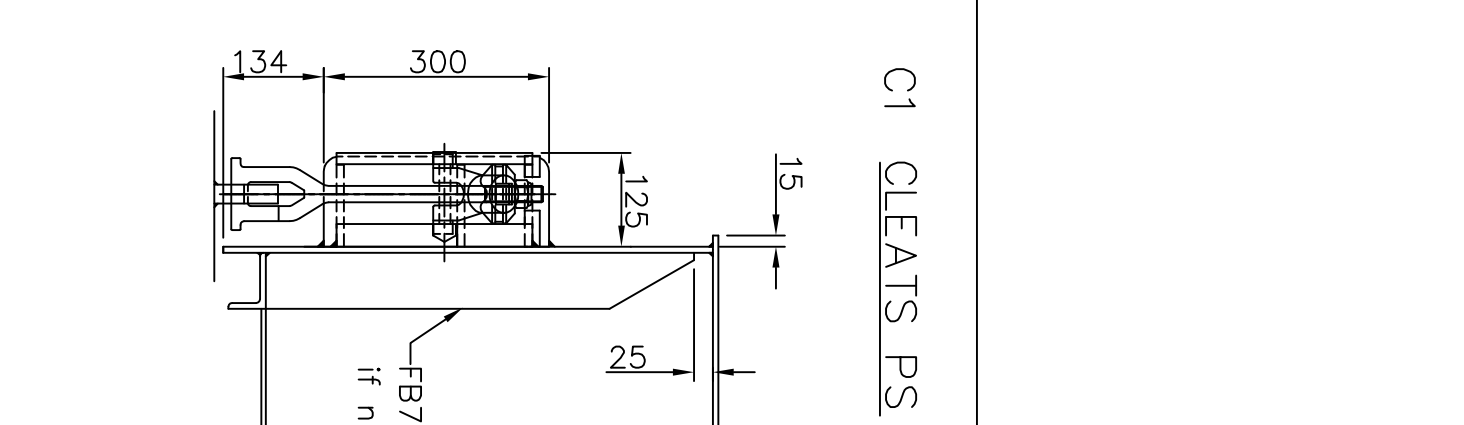
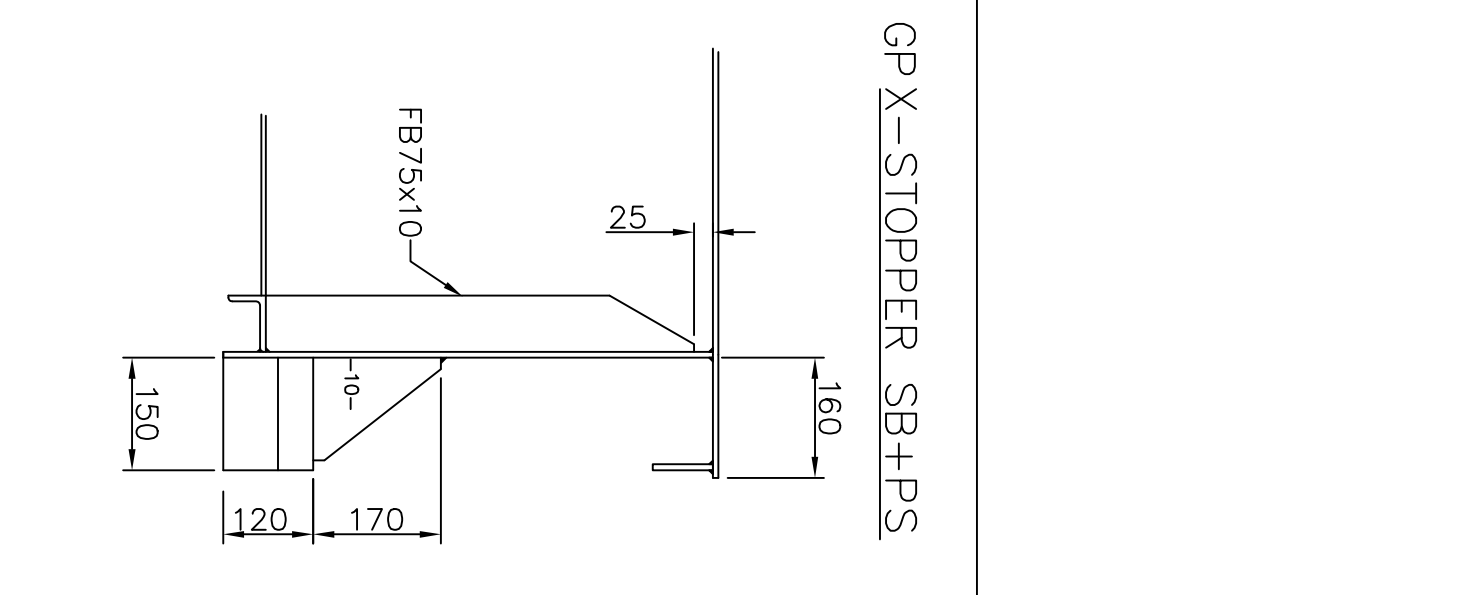
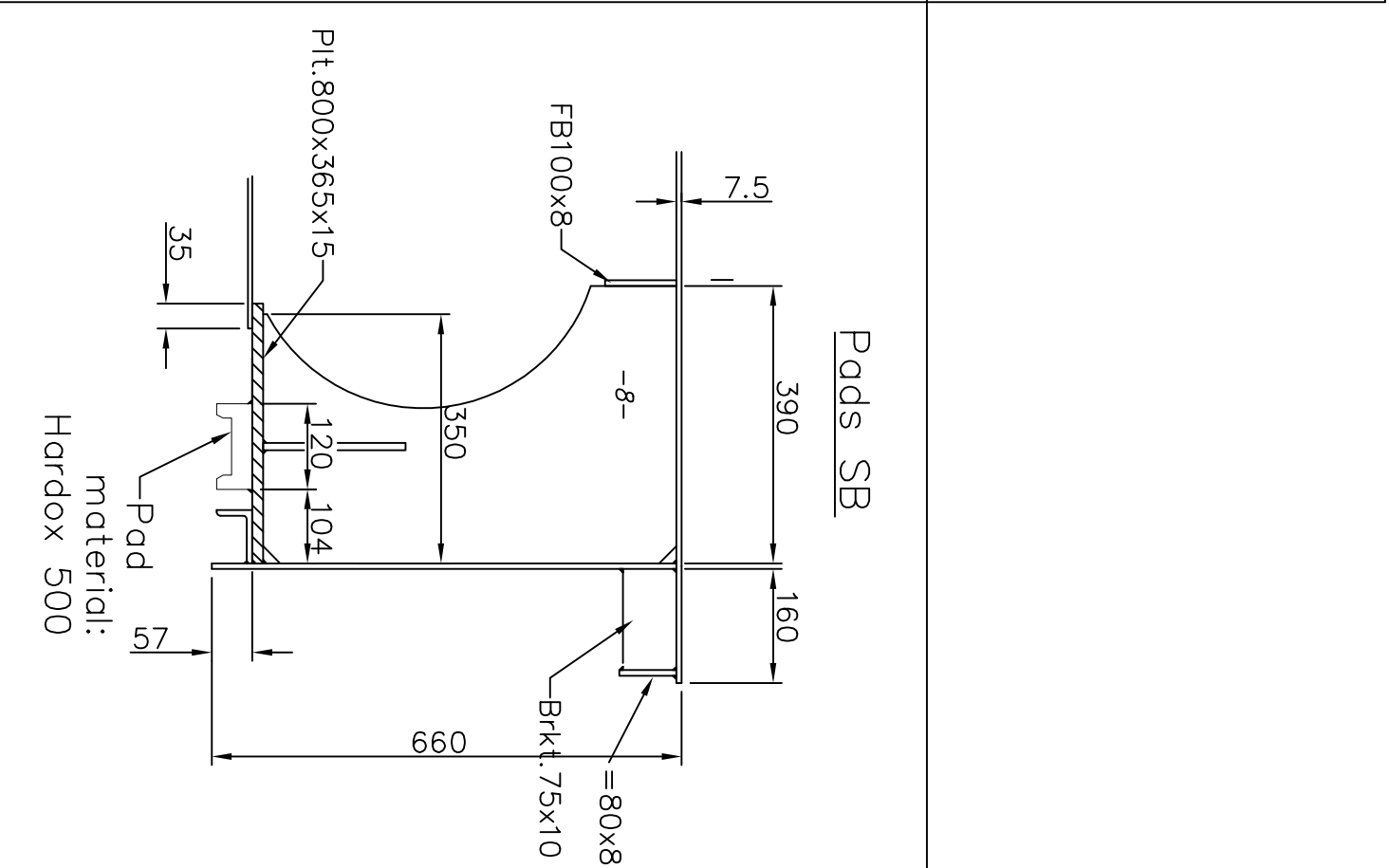
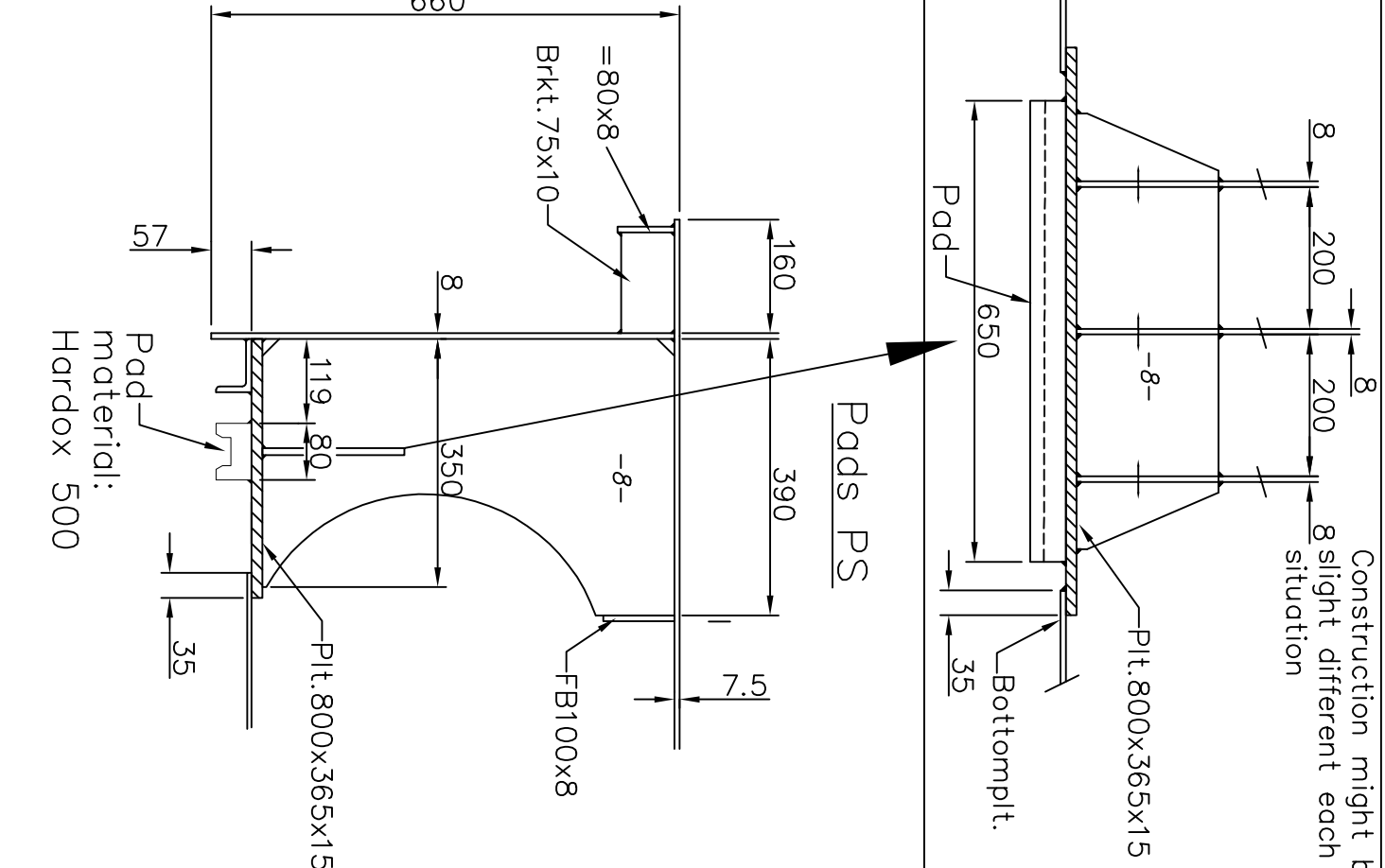
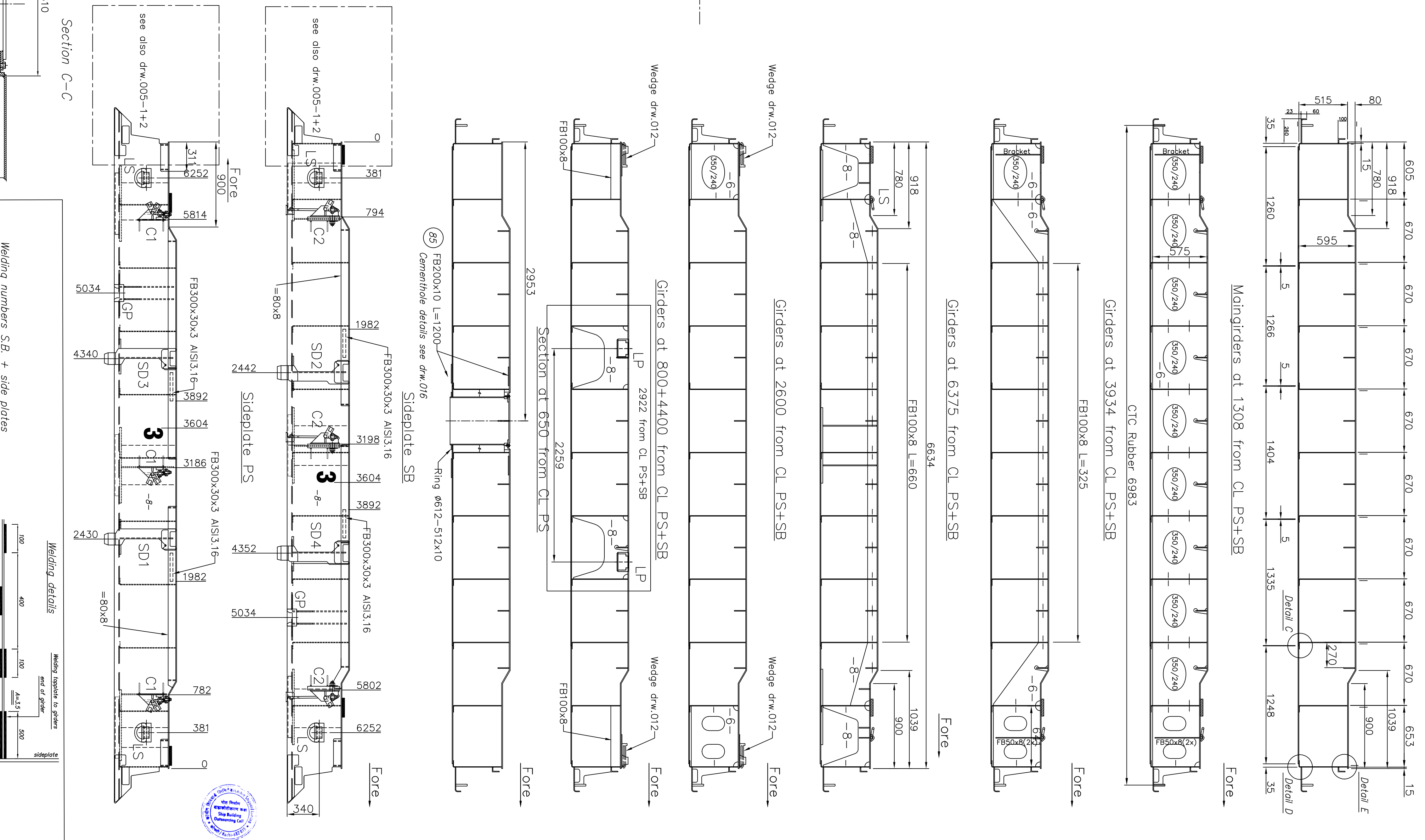
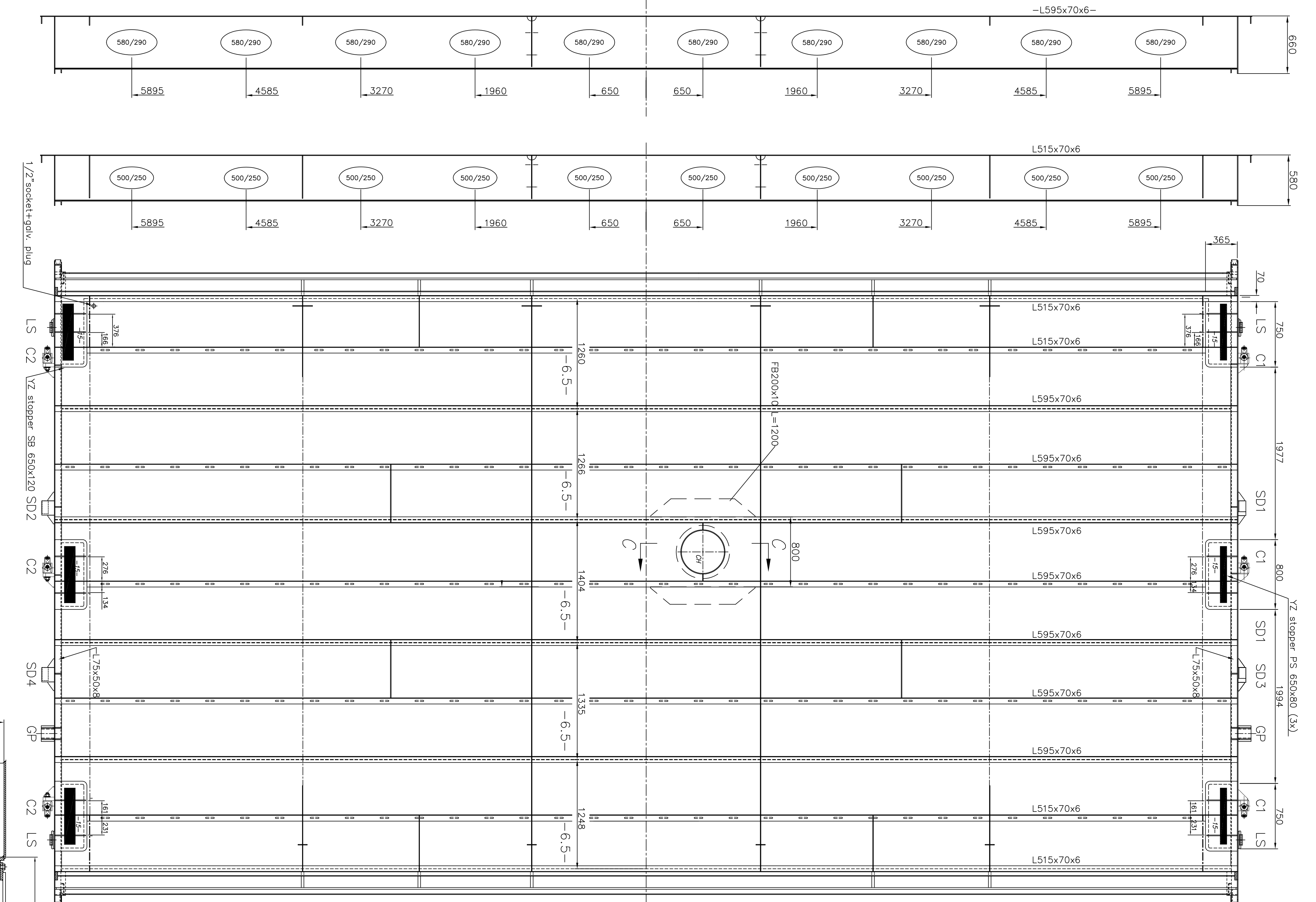
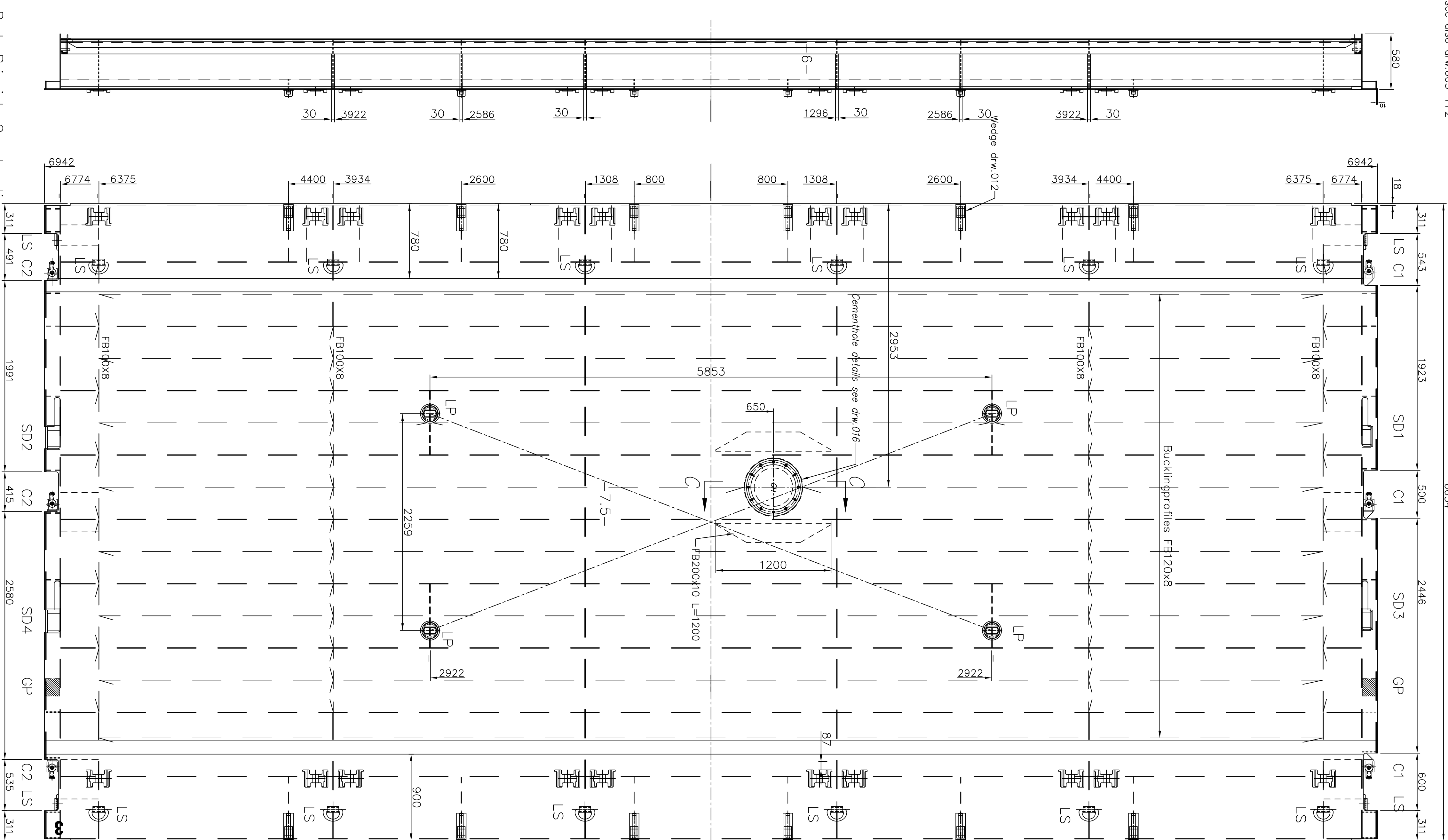
* Class: Bureau Veritas

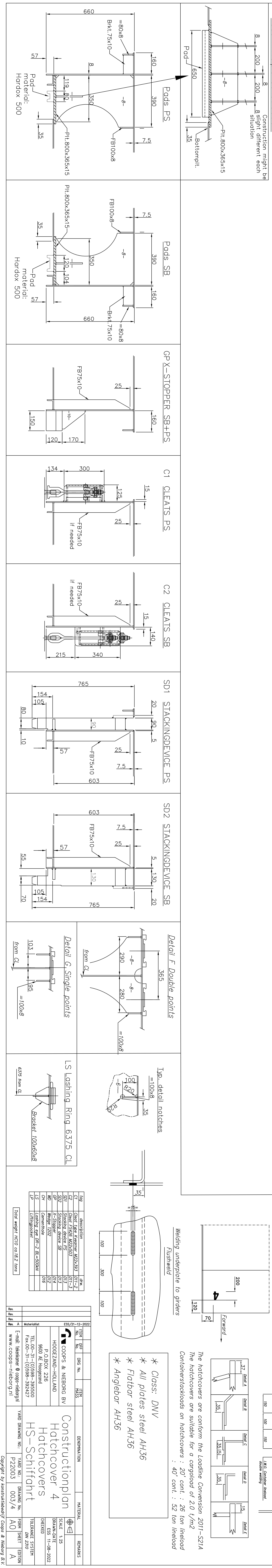
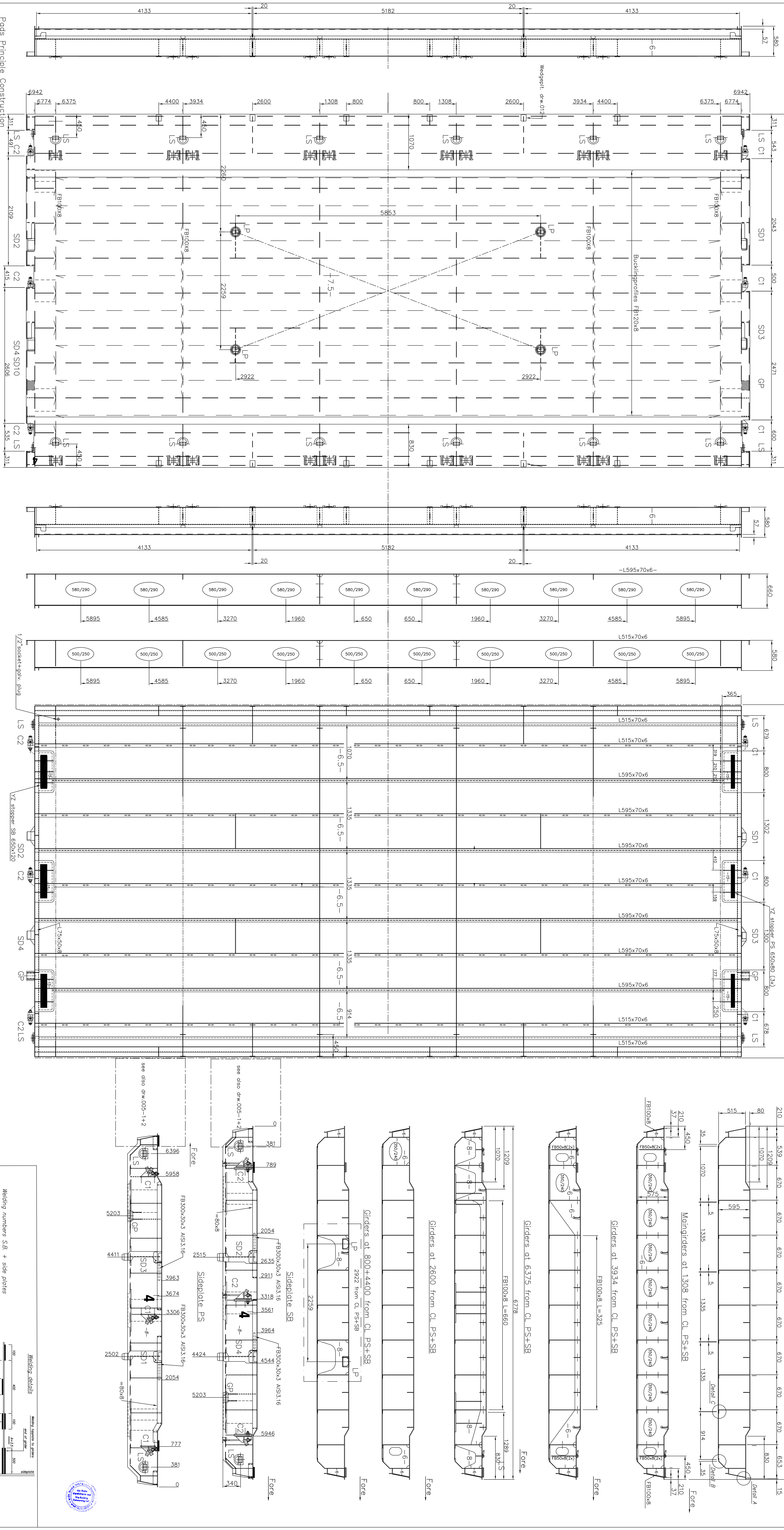
Rev.	ITEM No.	QTY No.	DWG No.	DENOMINATION	DIMENSION	MATERIAL	REMARKS
				COOPS & NIEBORG BV			
				HOOGZAND-HOLLAND			
				P.O.BOX 226			
				9600 AE Hoogezand			
				TEL:00-31-(0)598-395500			
				FAX:00-31-(0)598-392472			
				E-mail: telekamer @ coops-nieborg.nl			
				www.coops-nieborg.nl			
				YARD DRAWING NO.: P22003			
				YARD NO.: 002			
				DRAWING No.			
				FORM SHEET			
				EDITION			

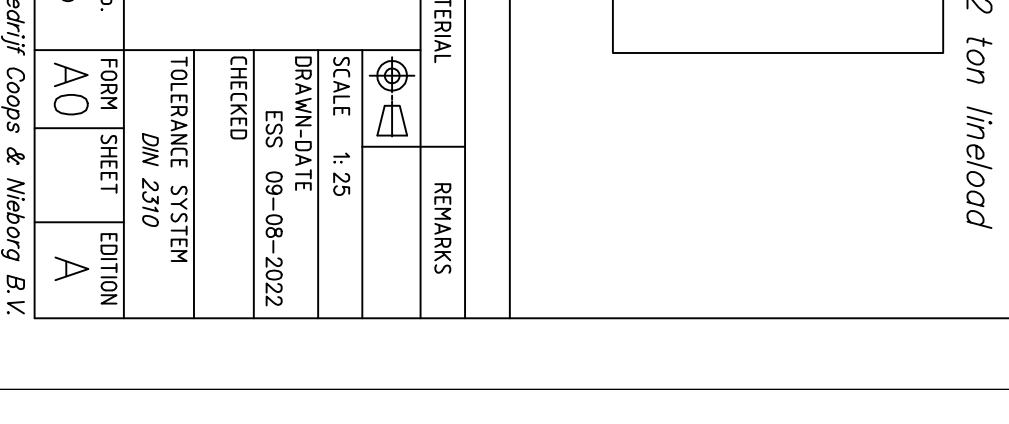
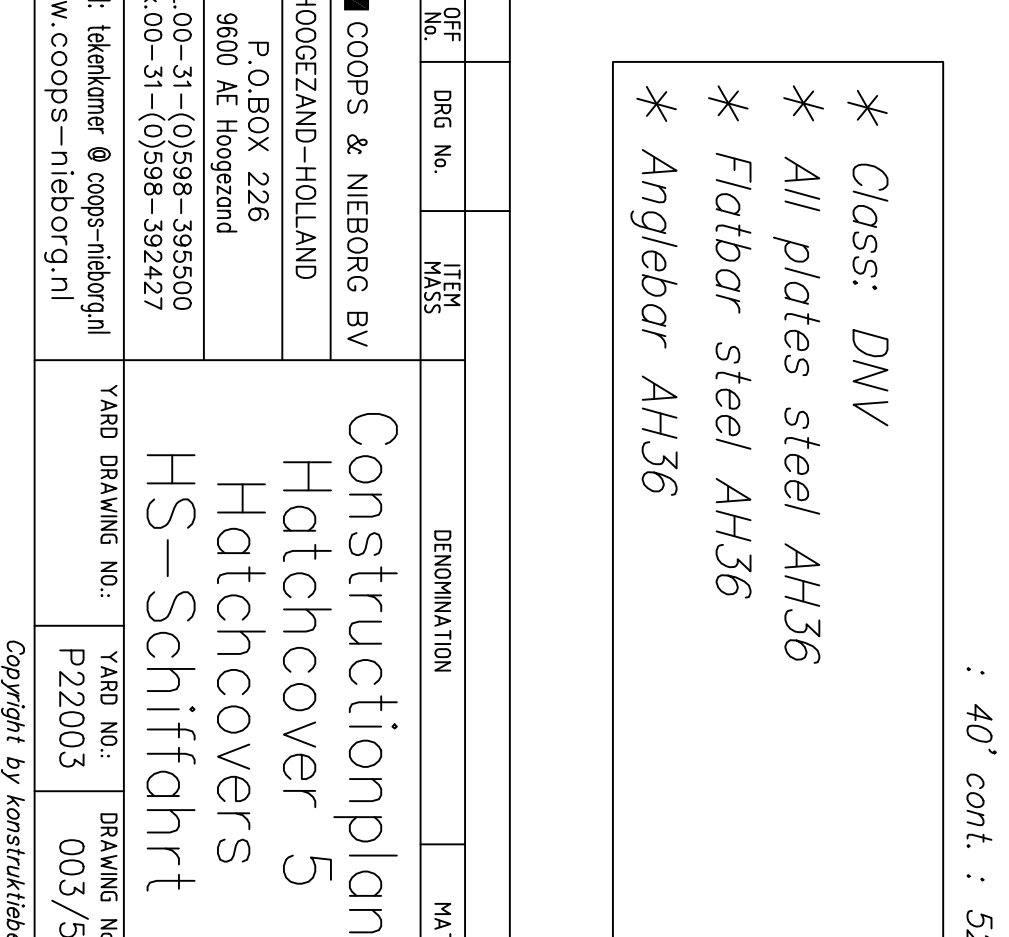
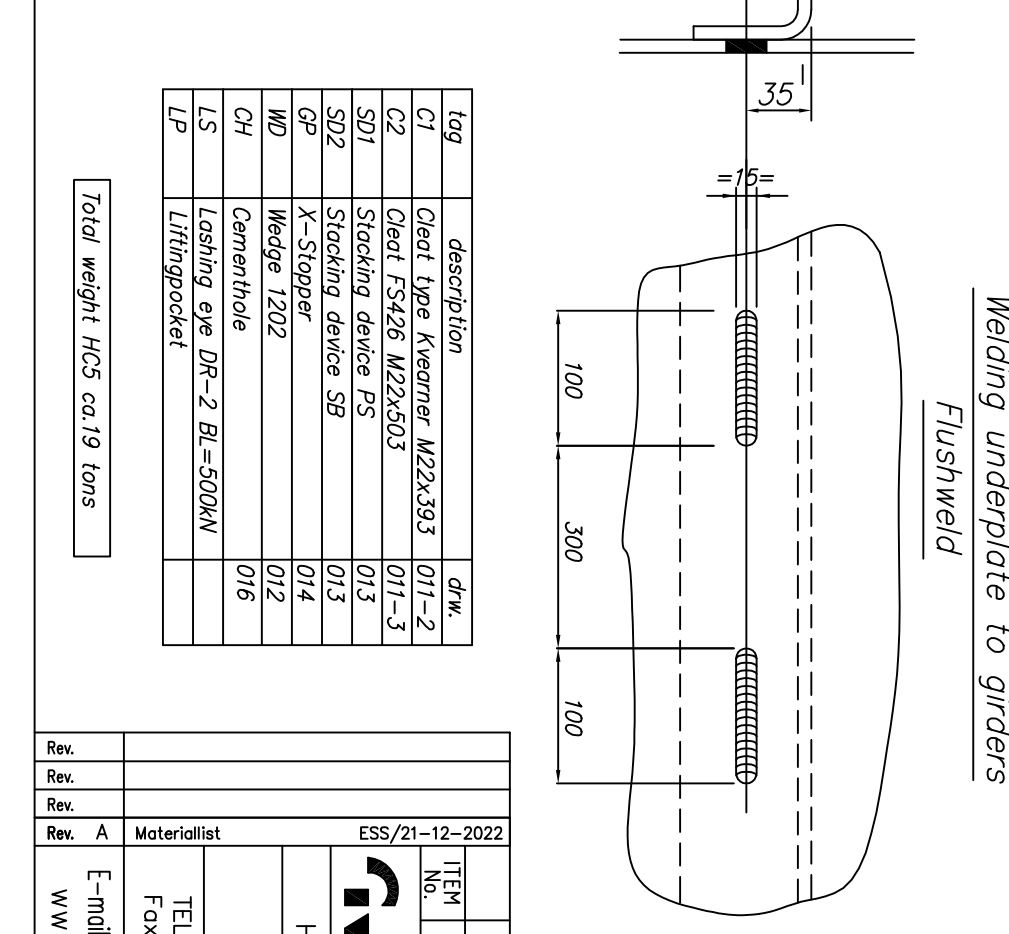
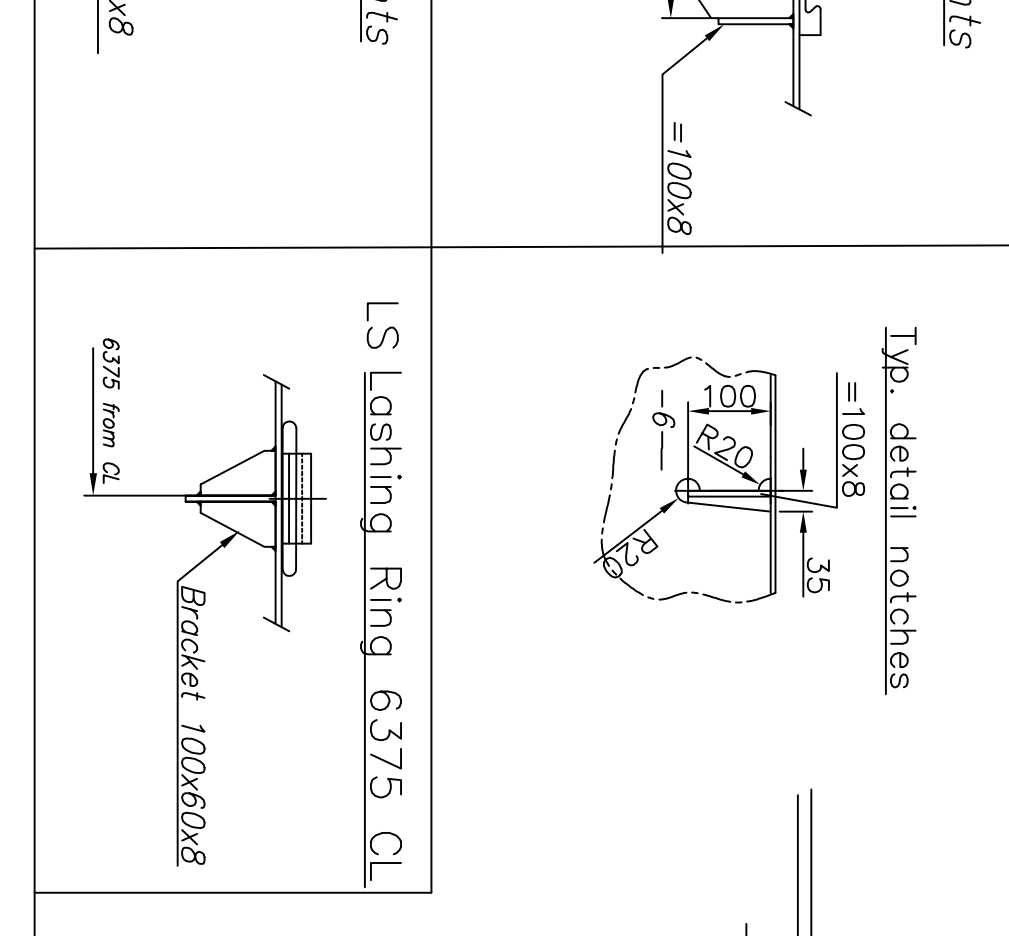
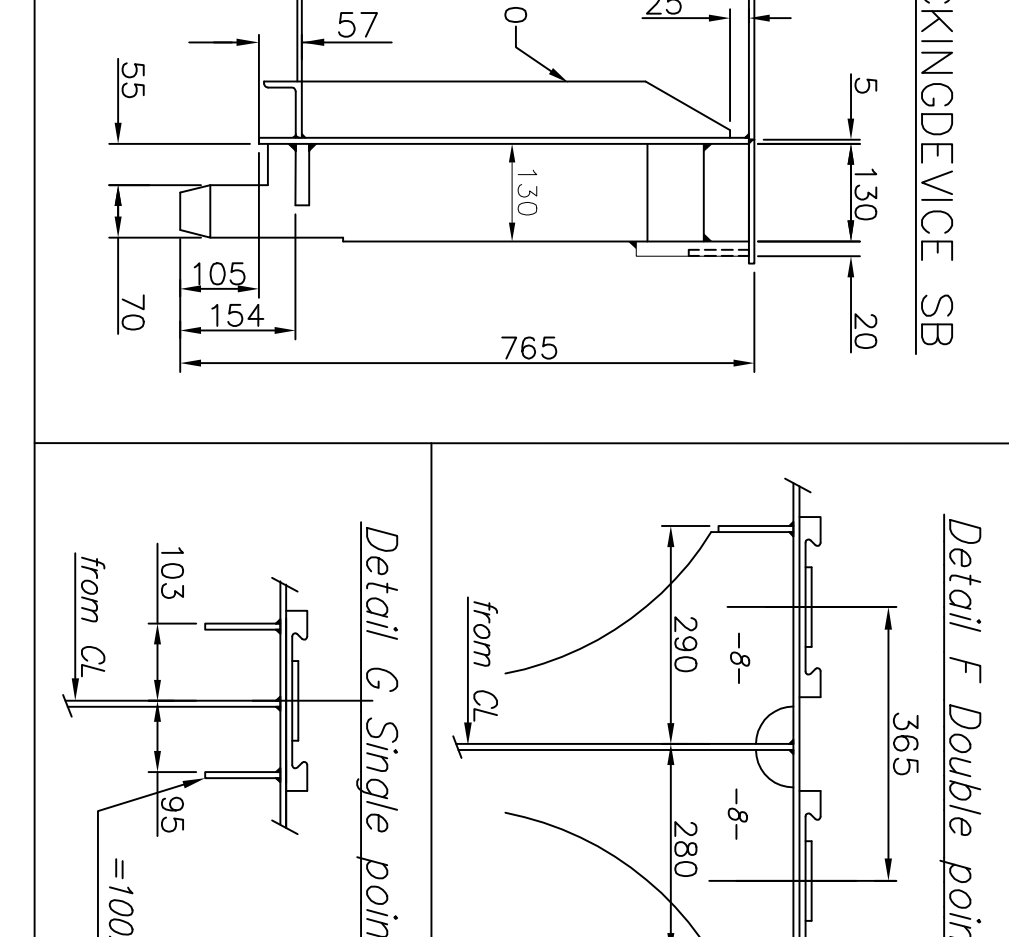
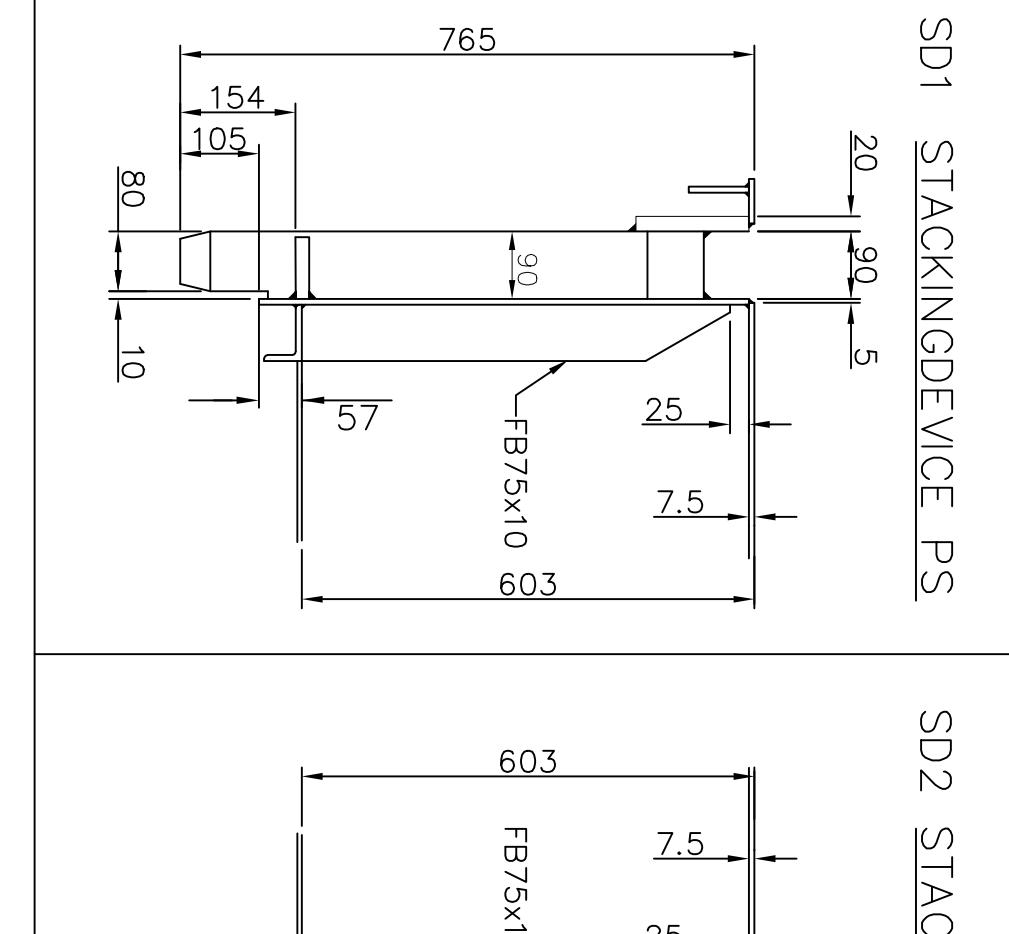
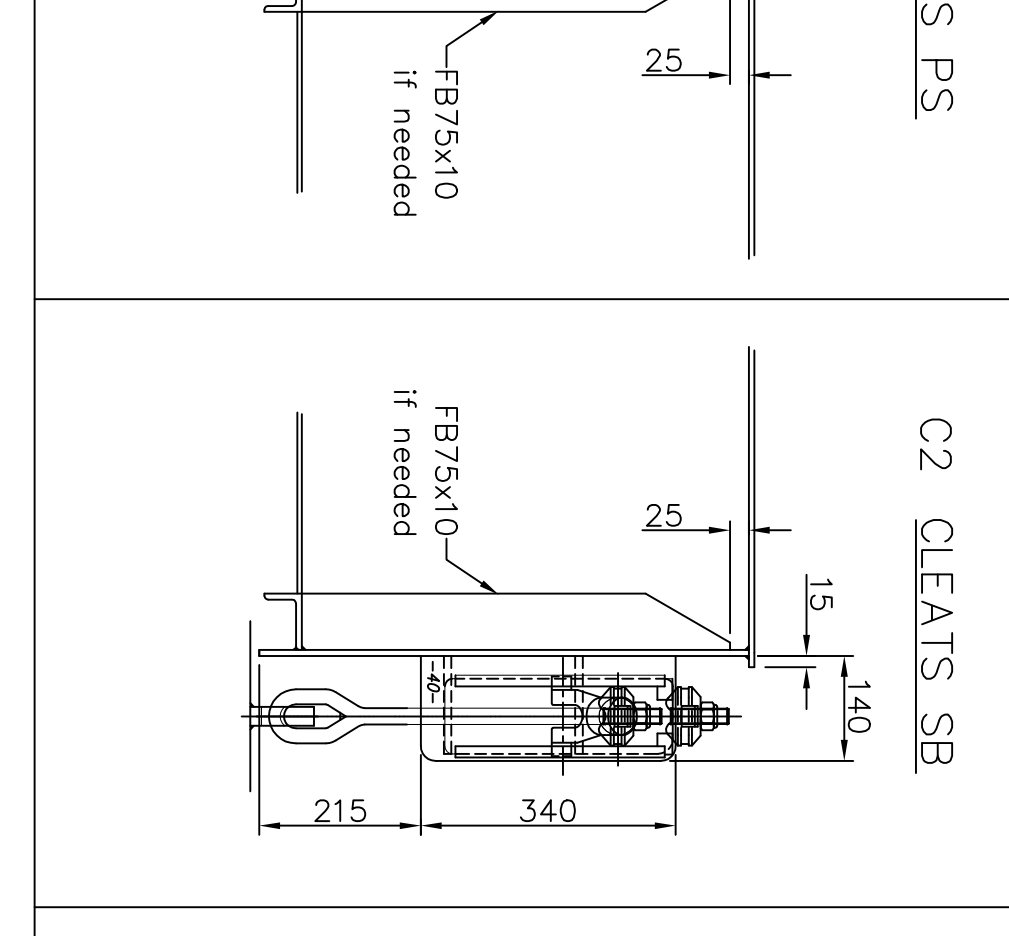
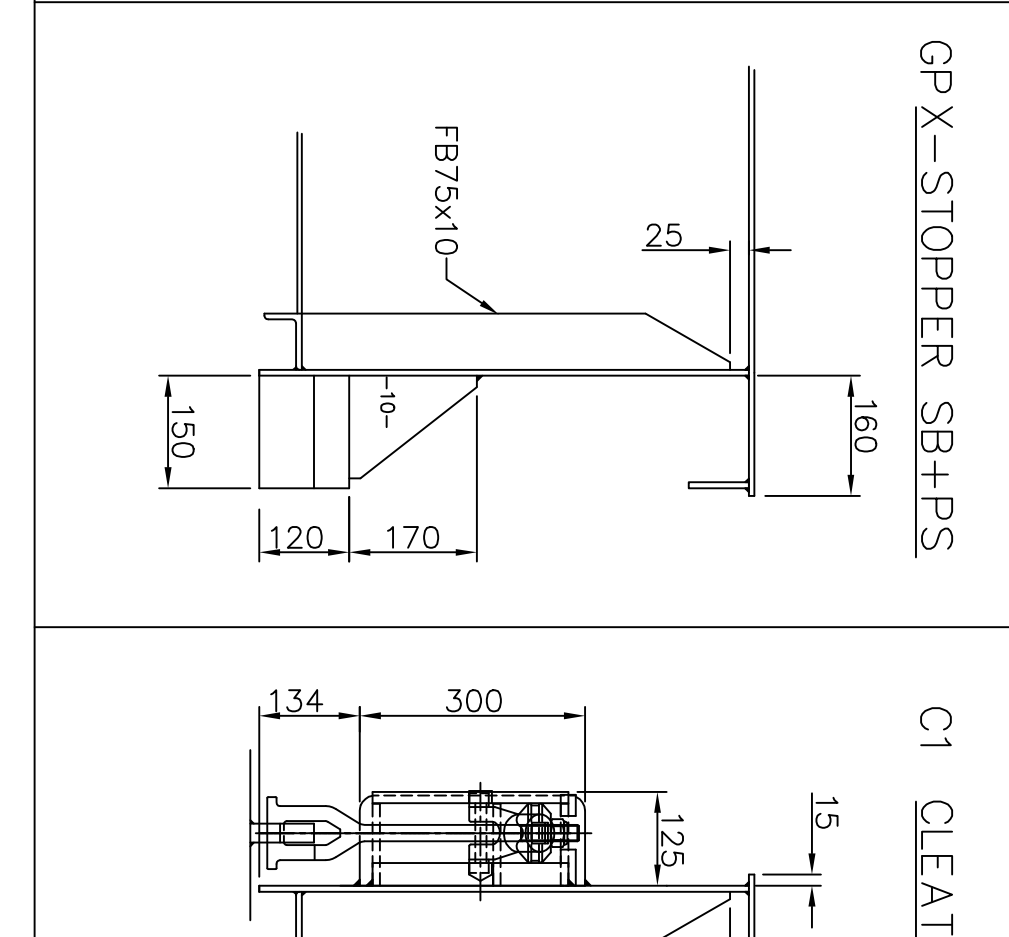
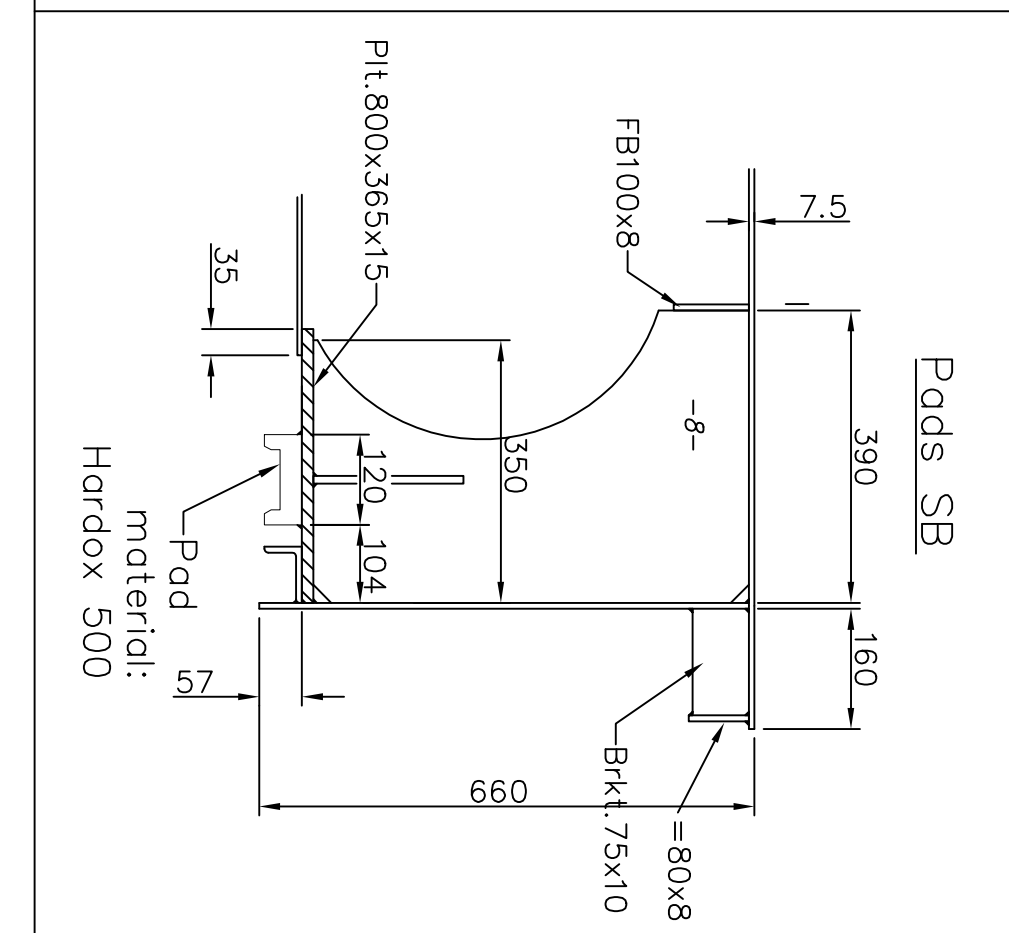
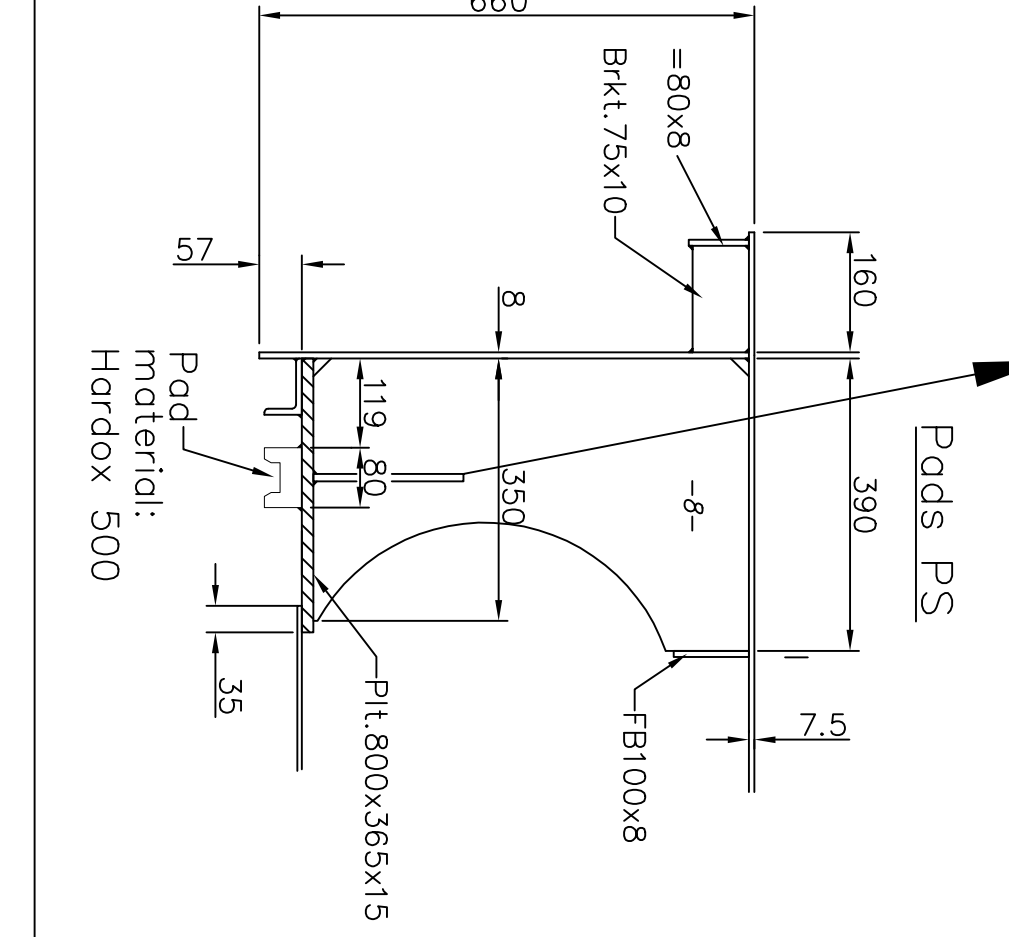
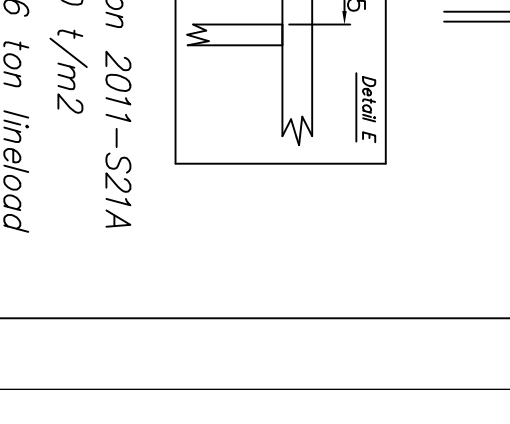
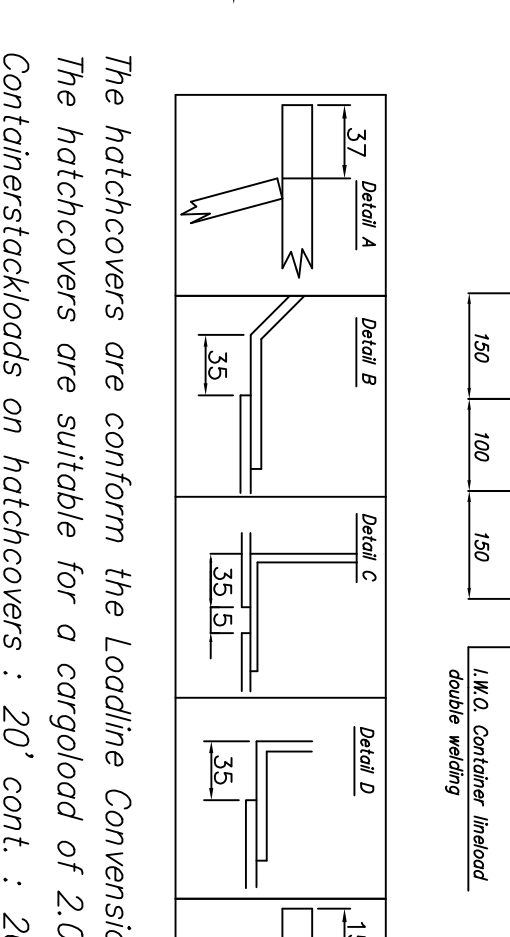
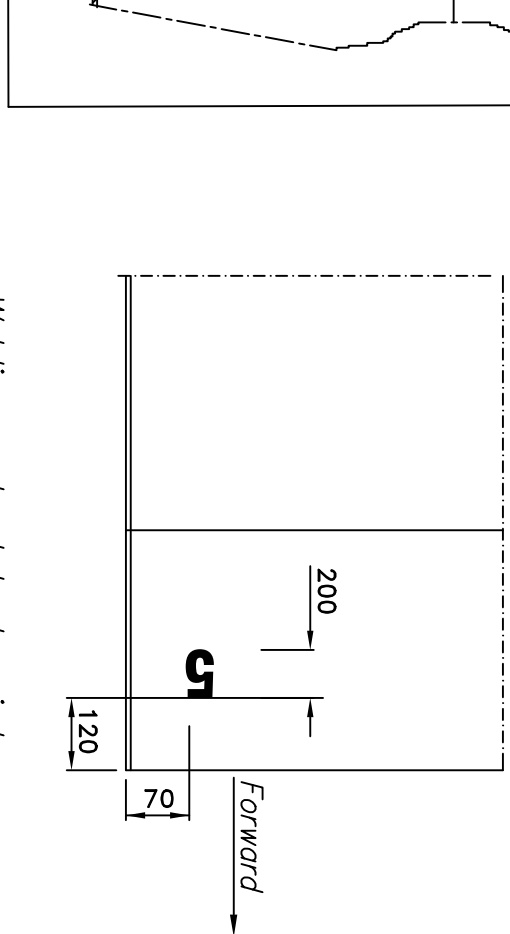
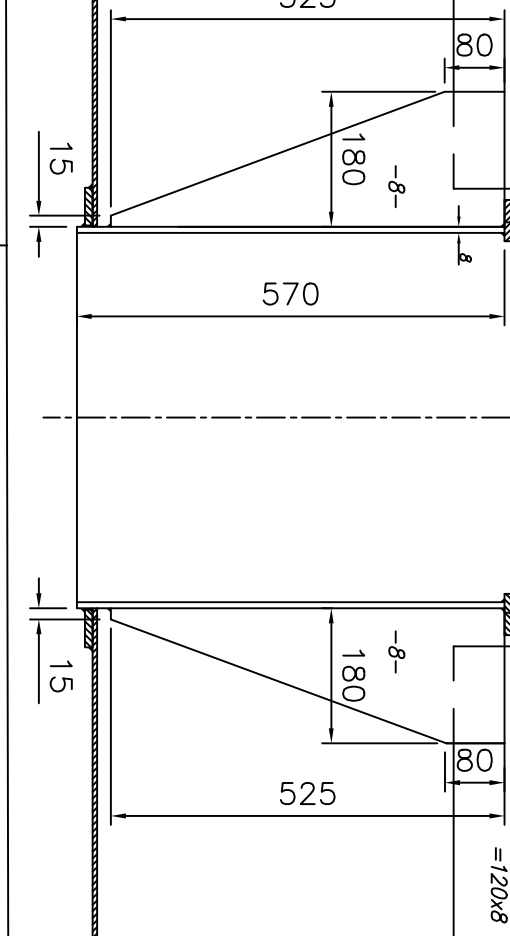
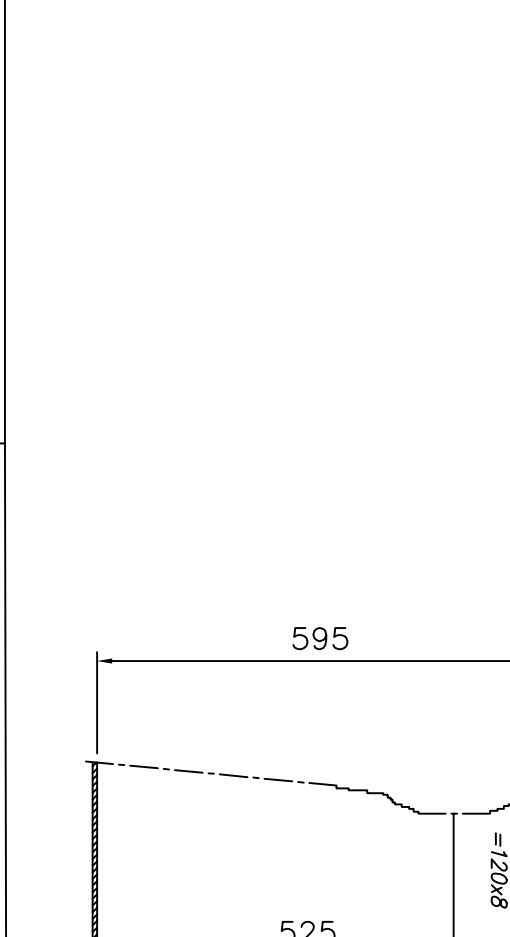
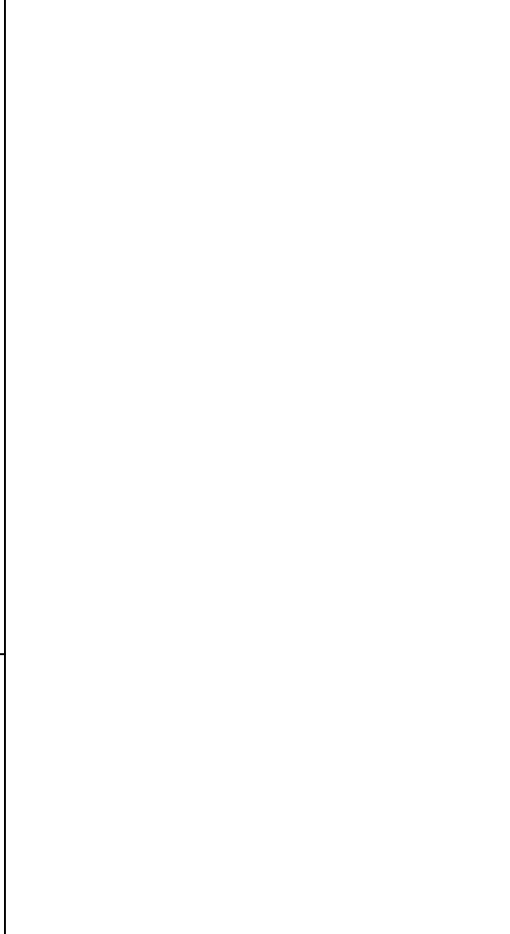
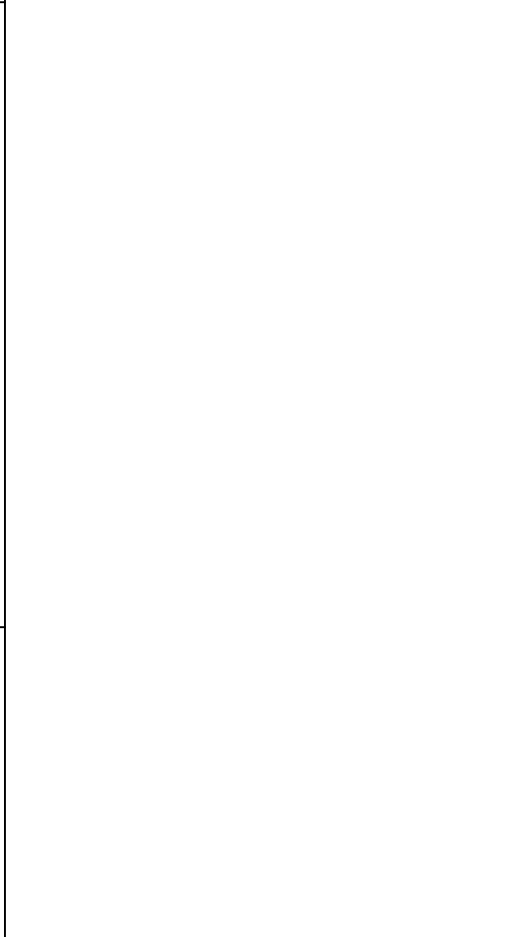
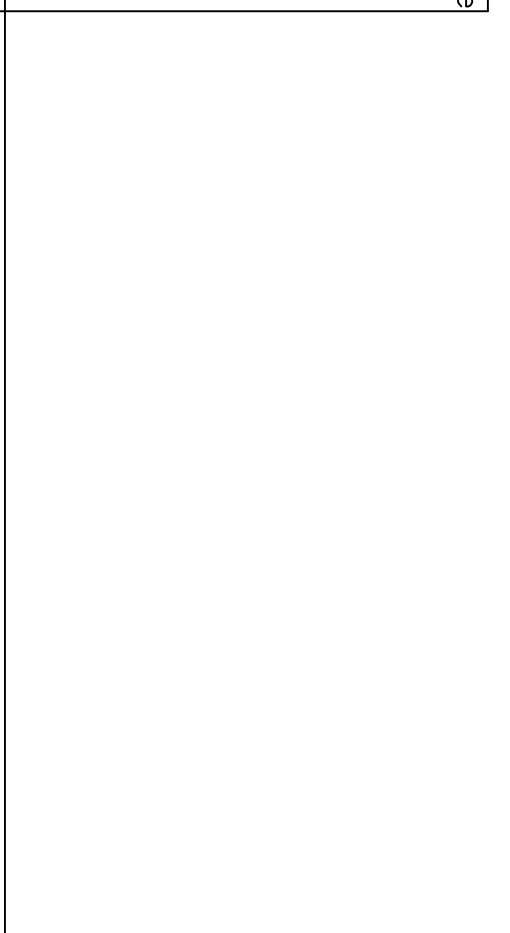
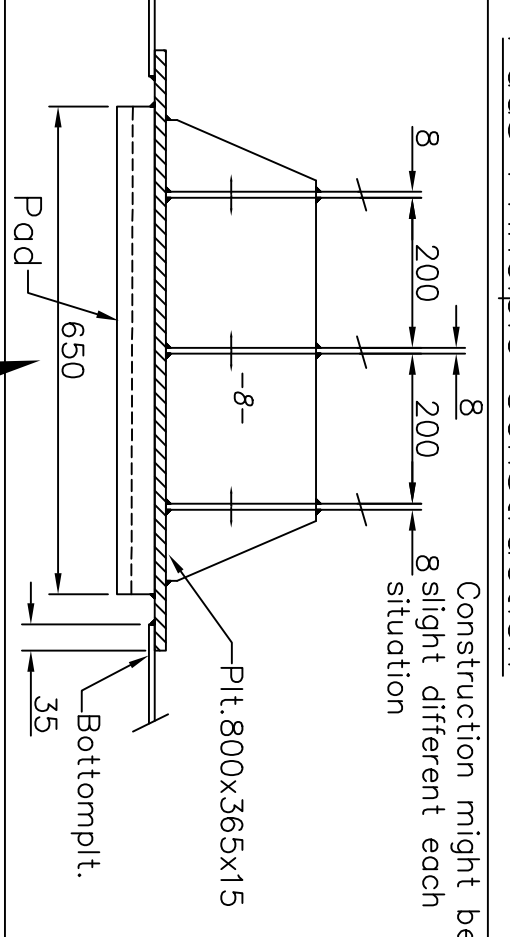
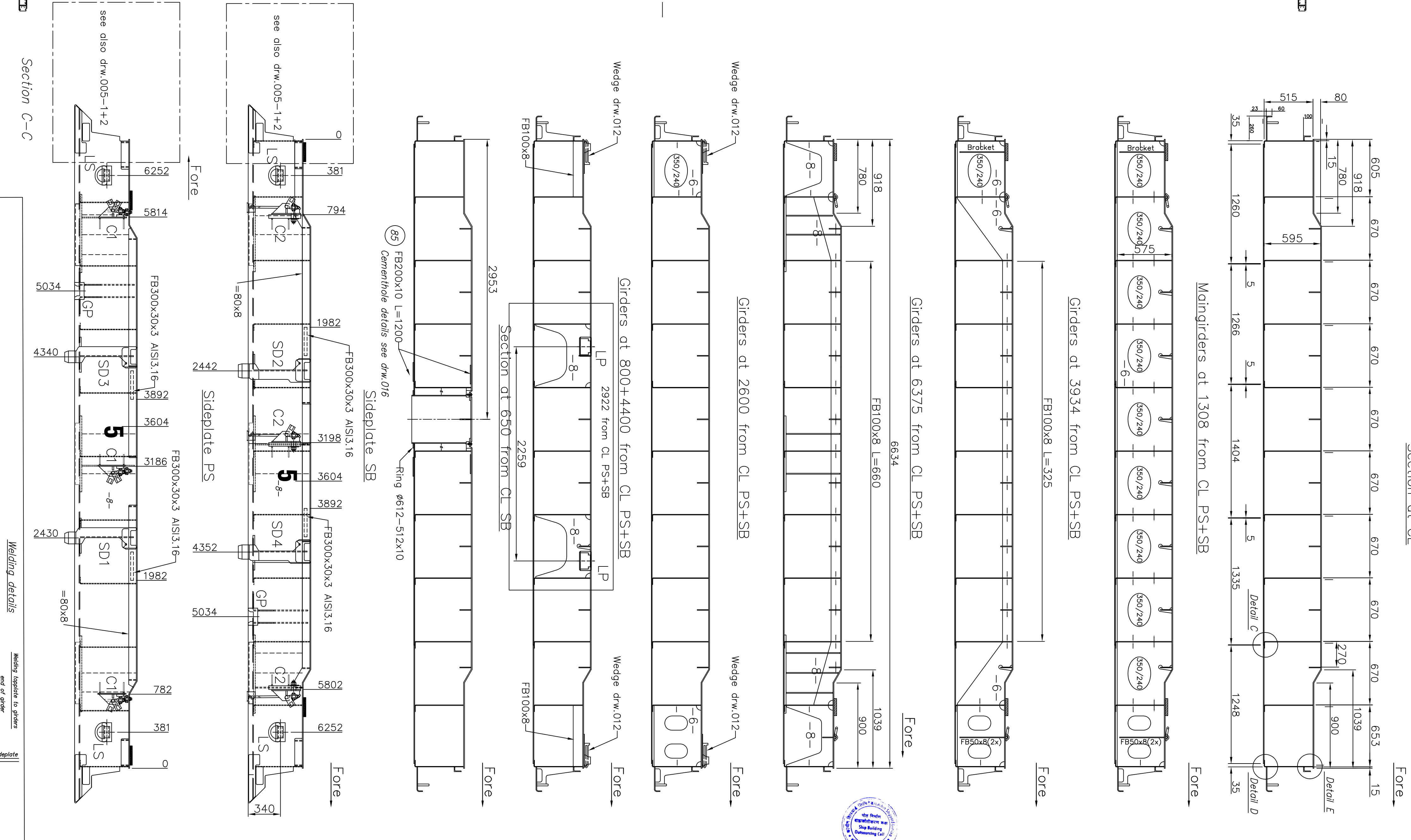
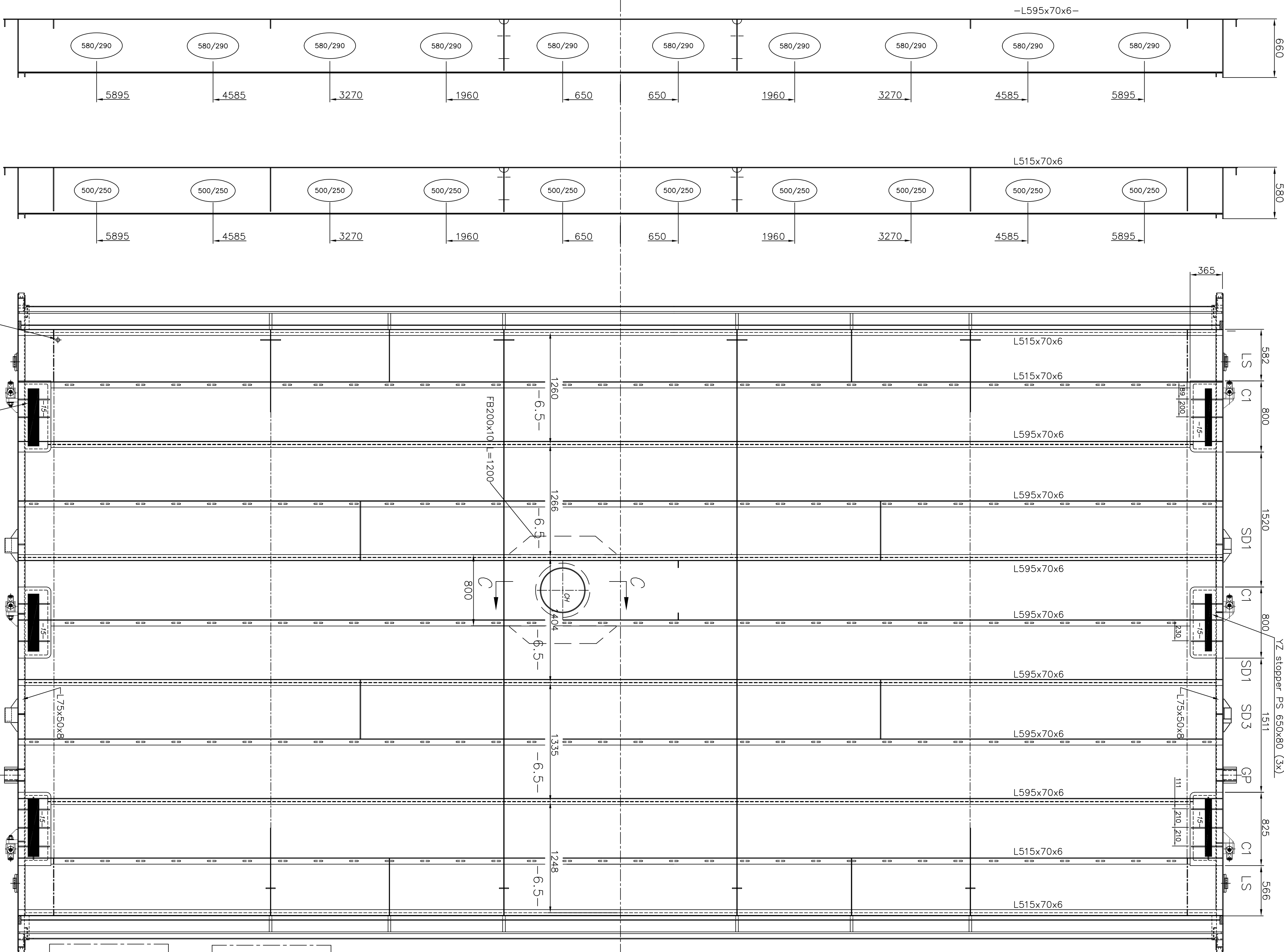
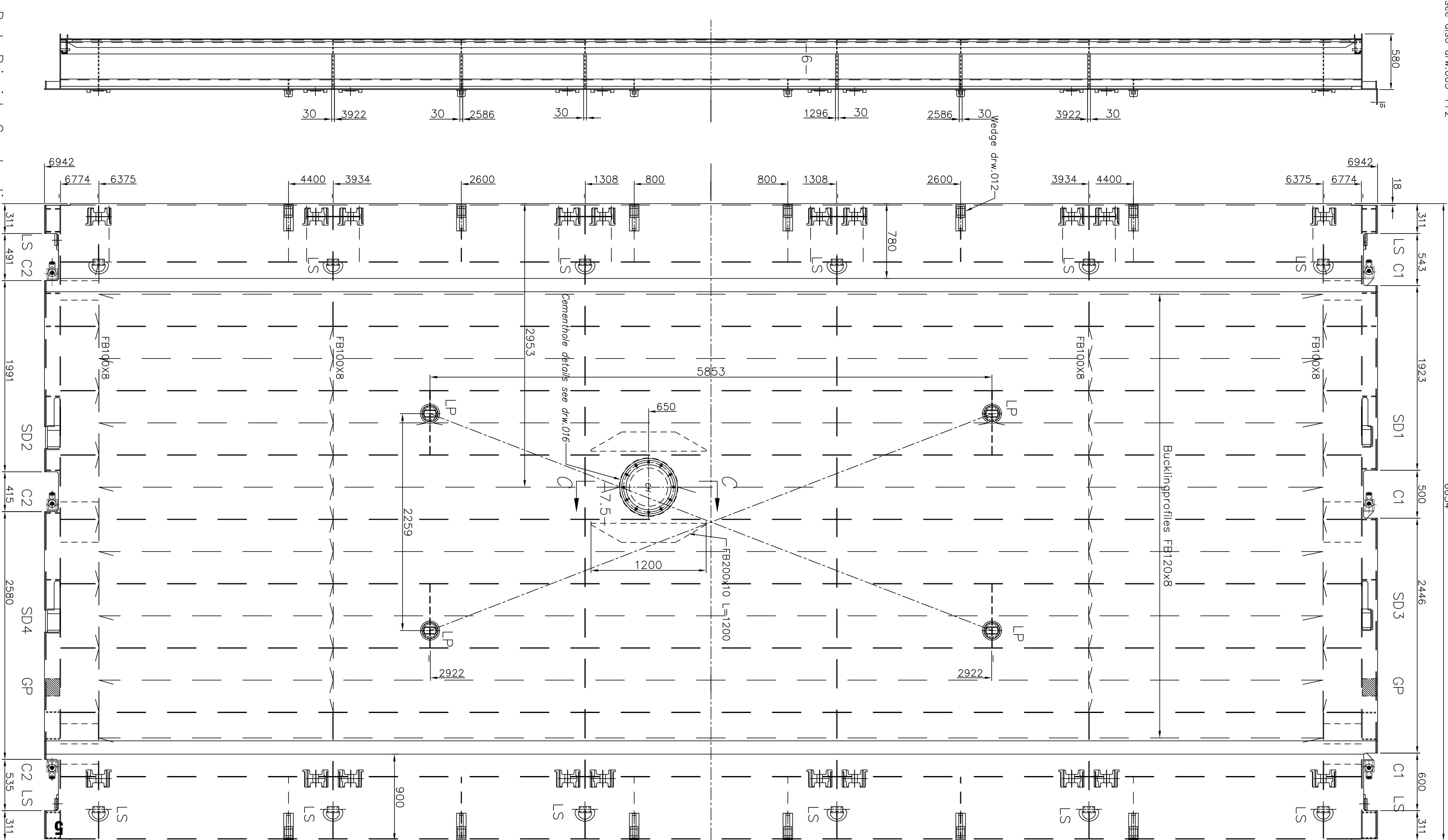
HS Schiffahrts Group
COMPETENCE SHIPPING

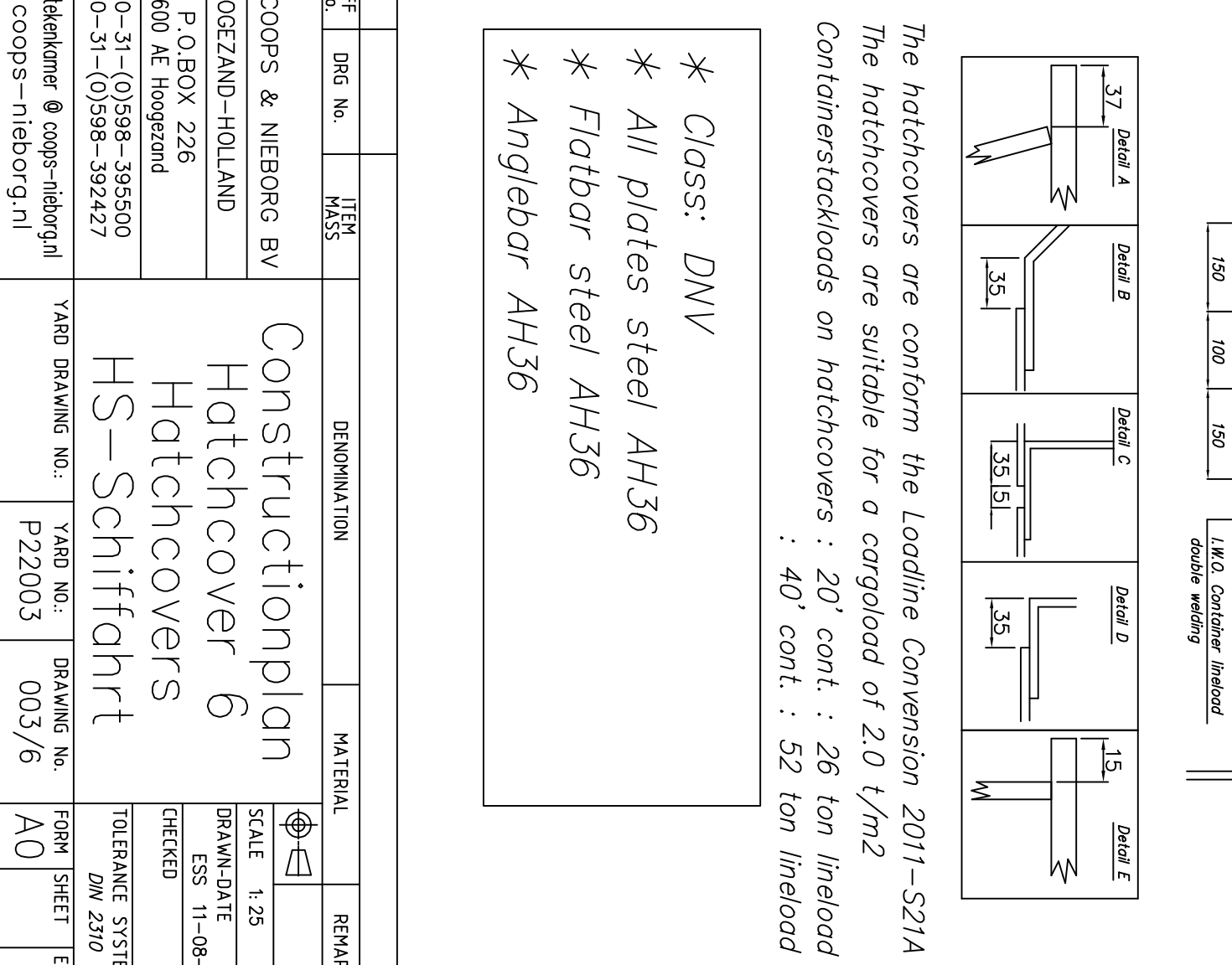
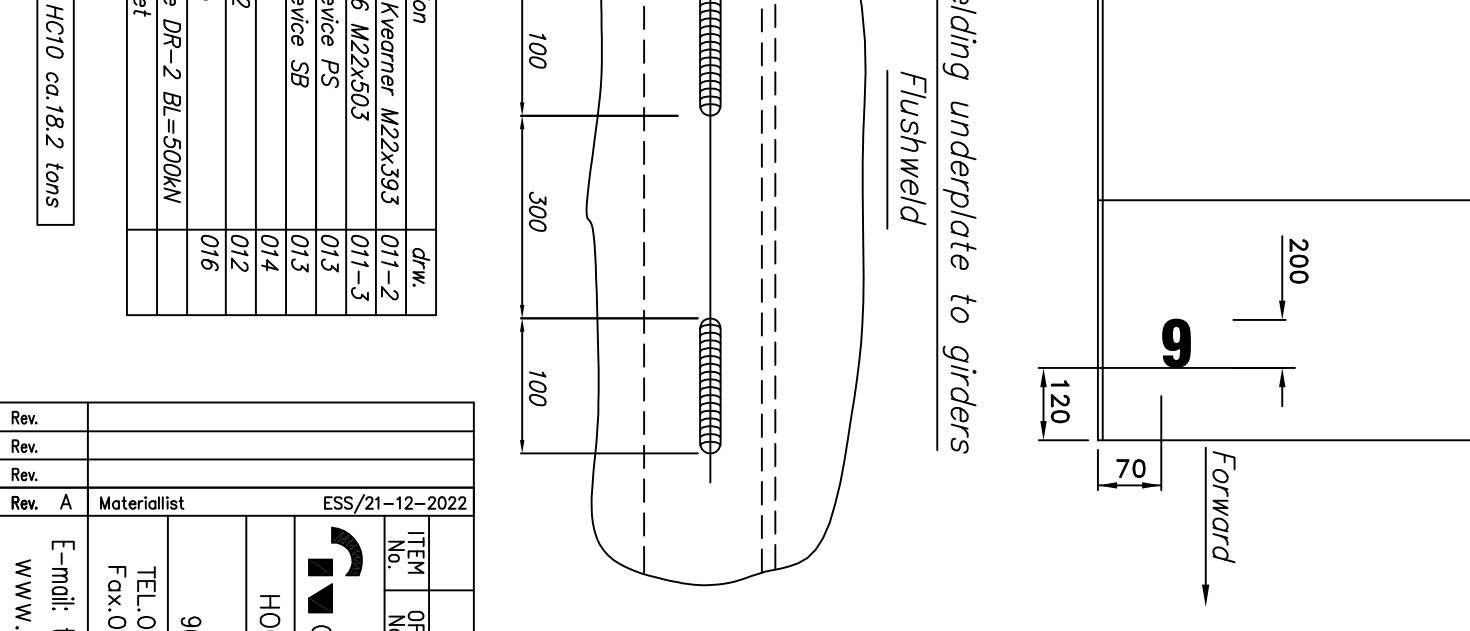
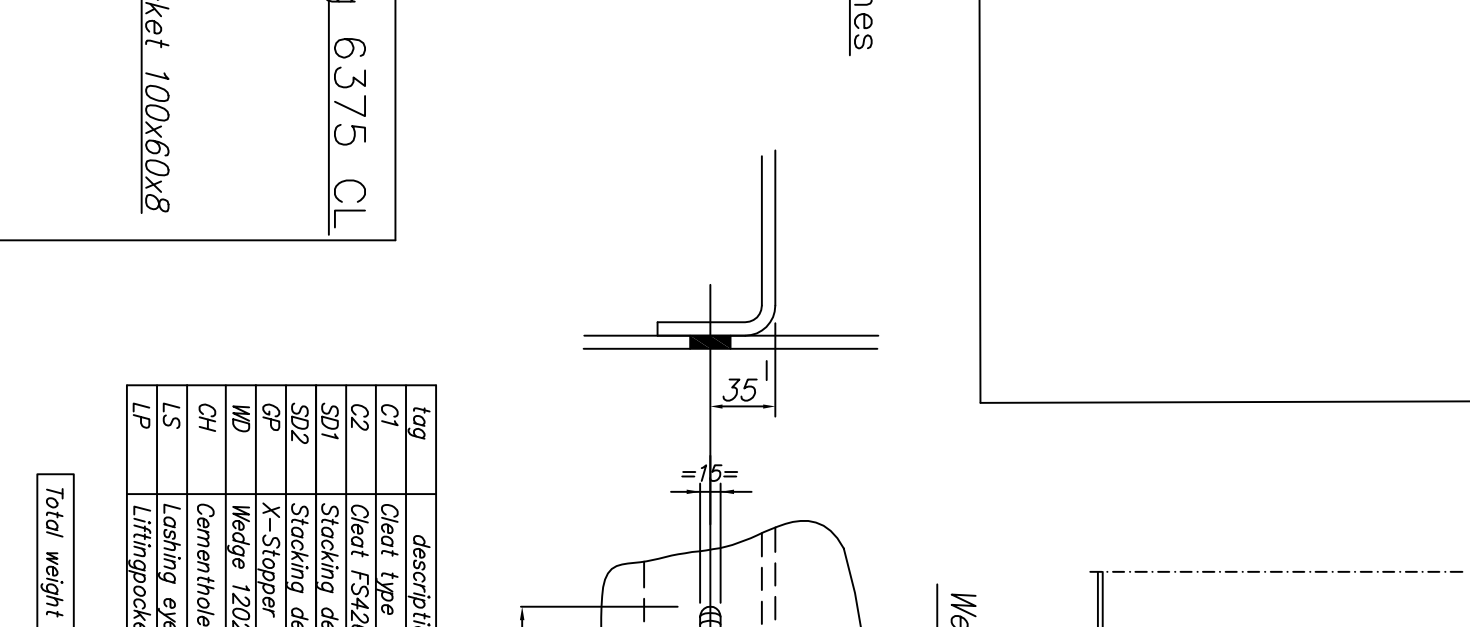
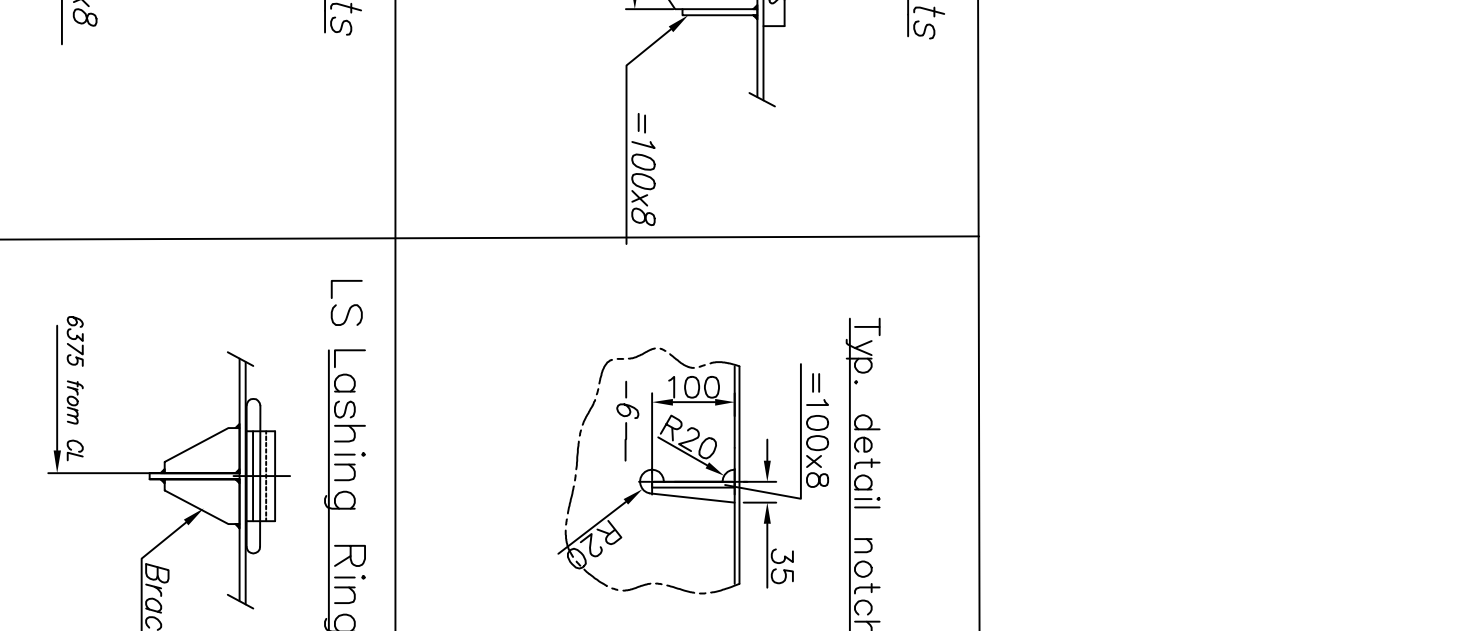
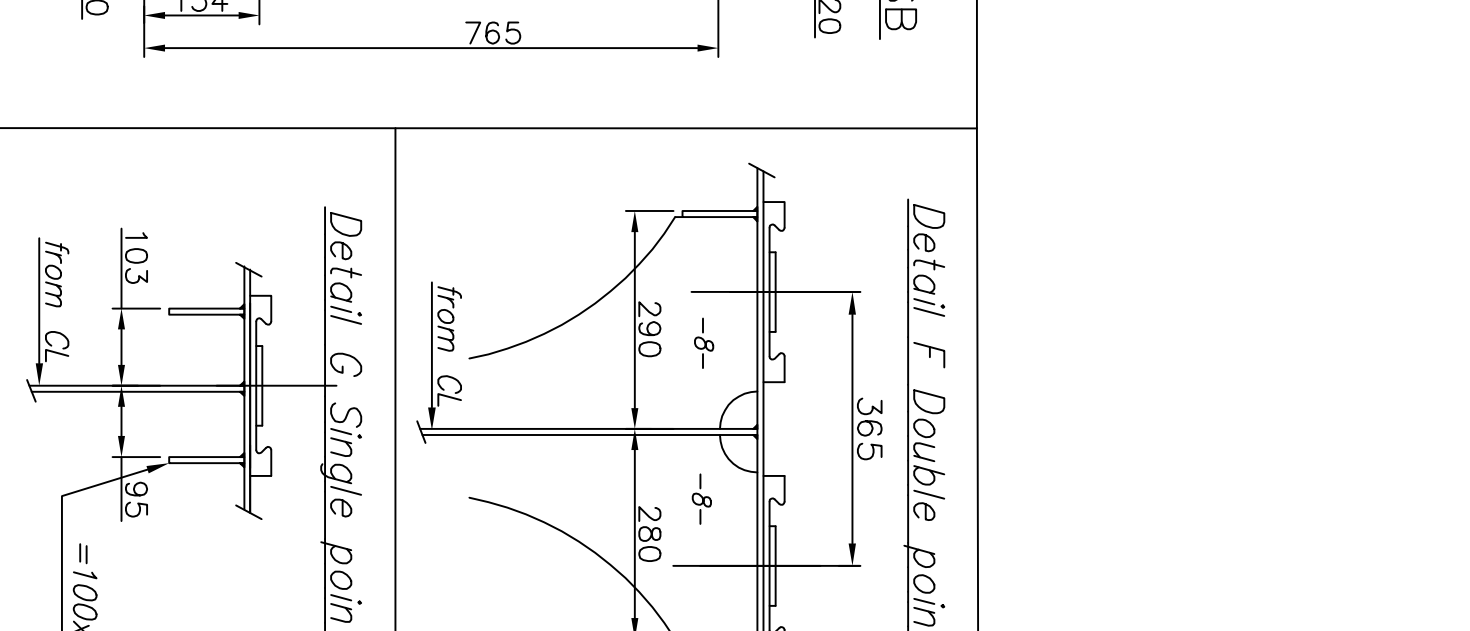
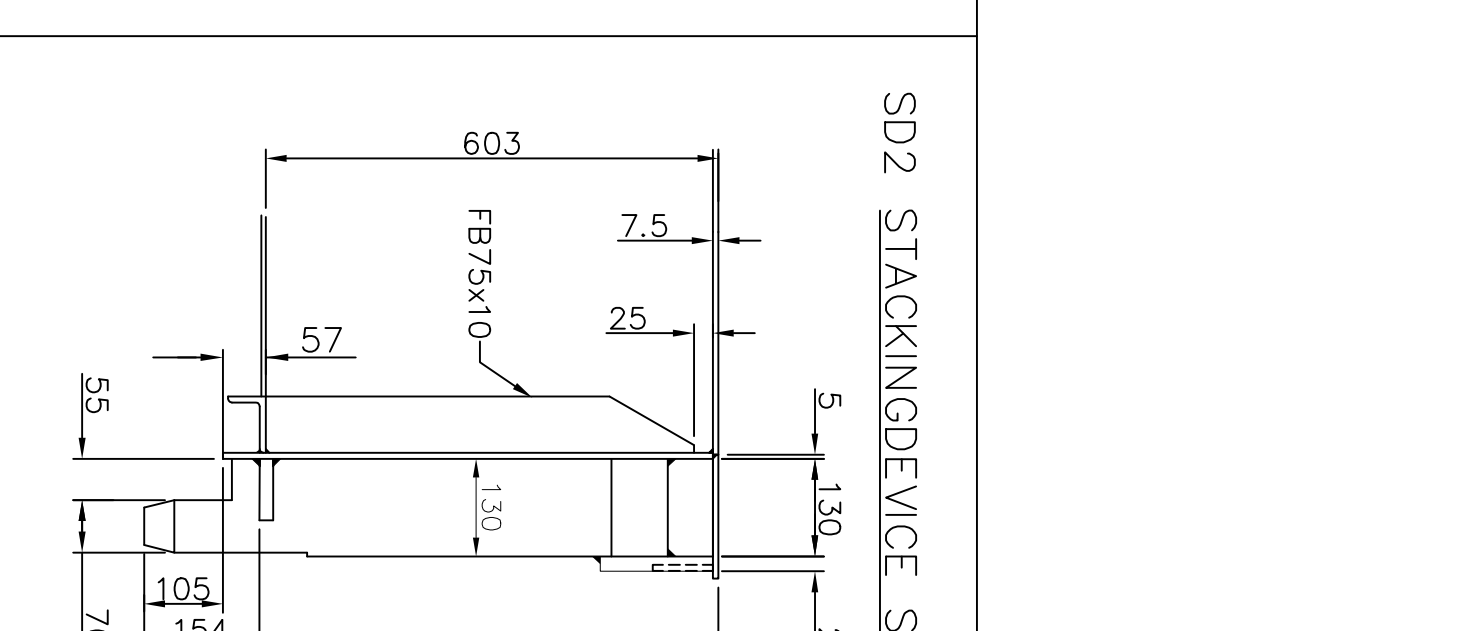
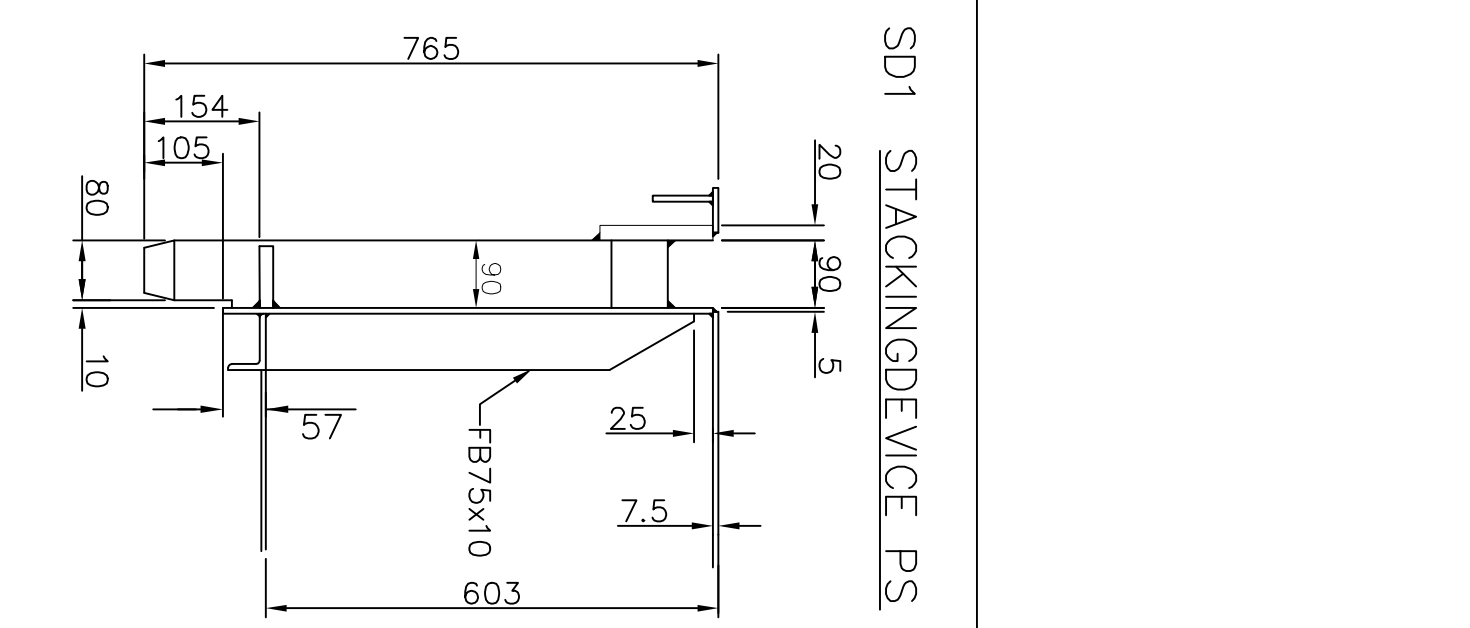
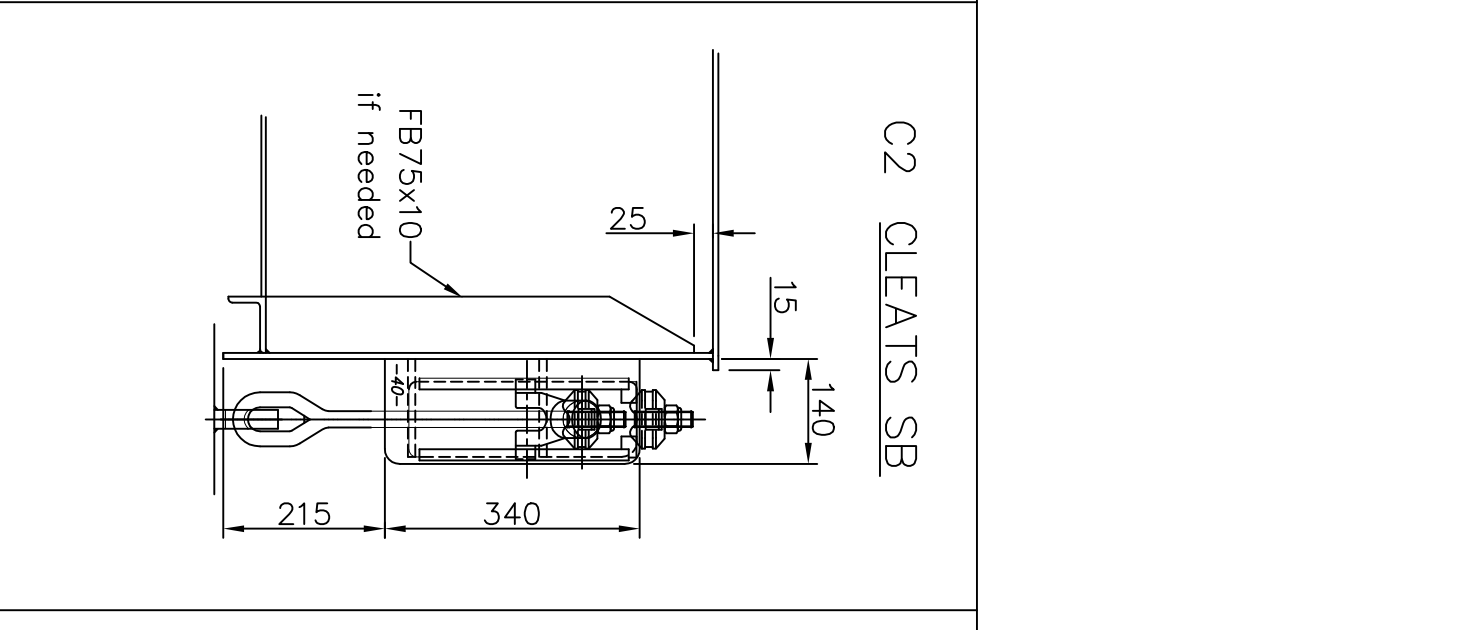
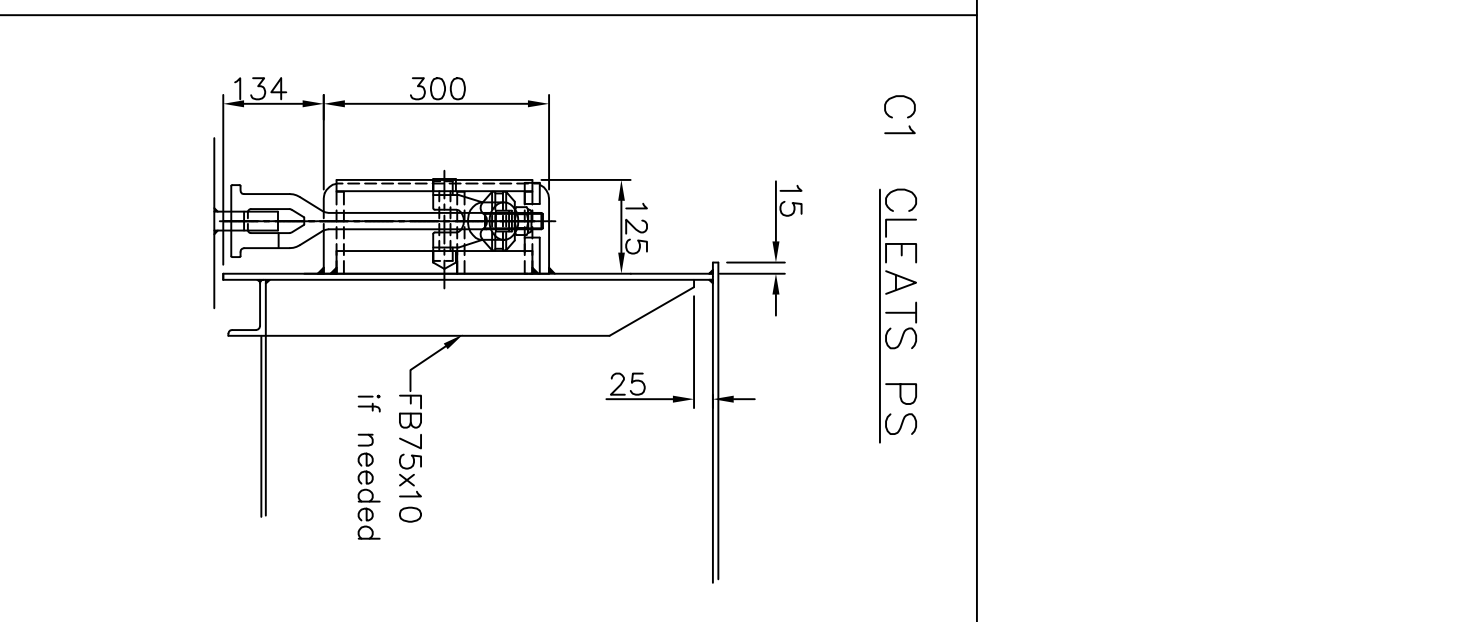
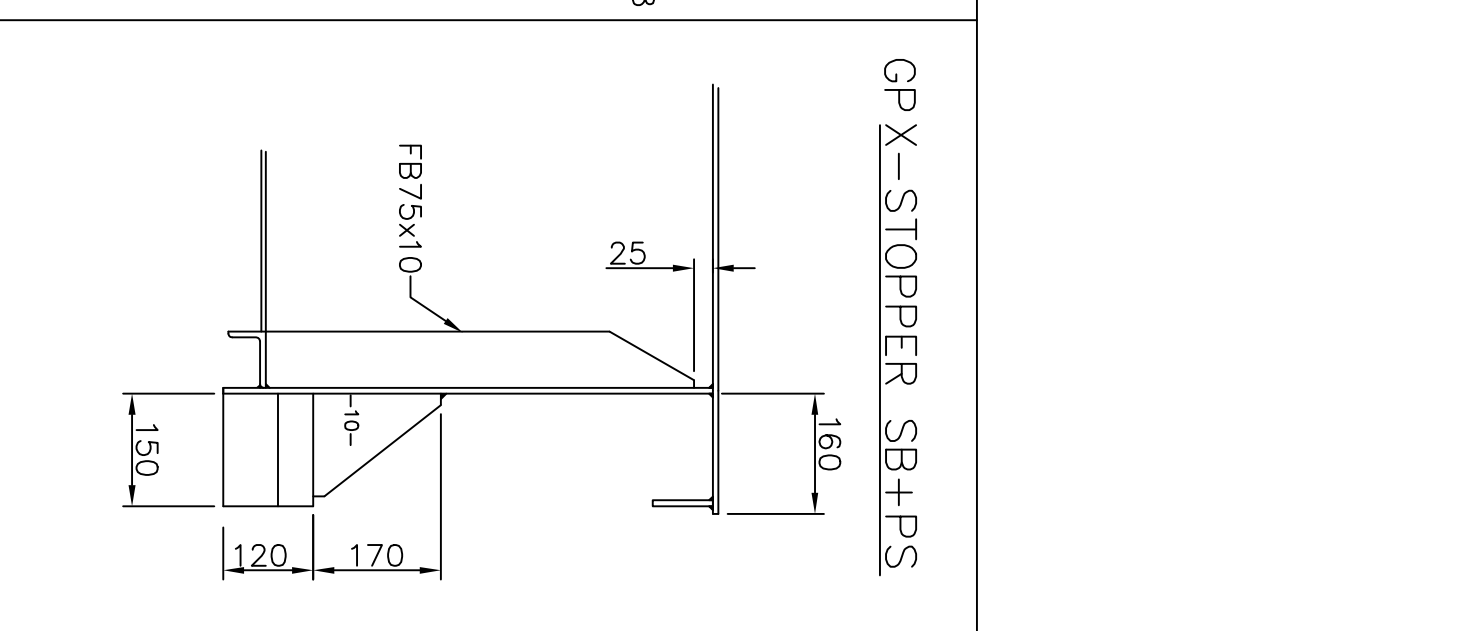
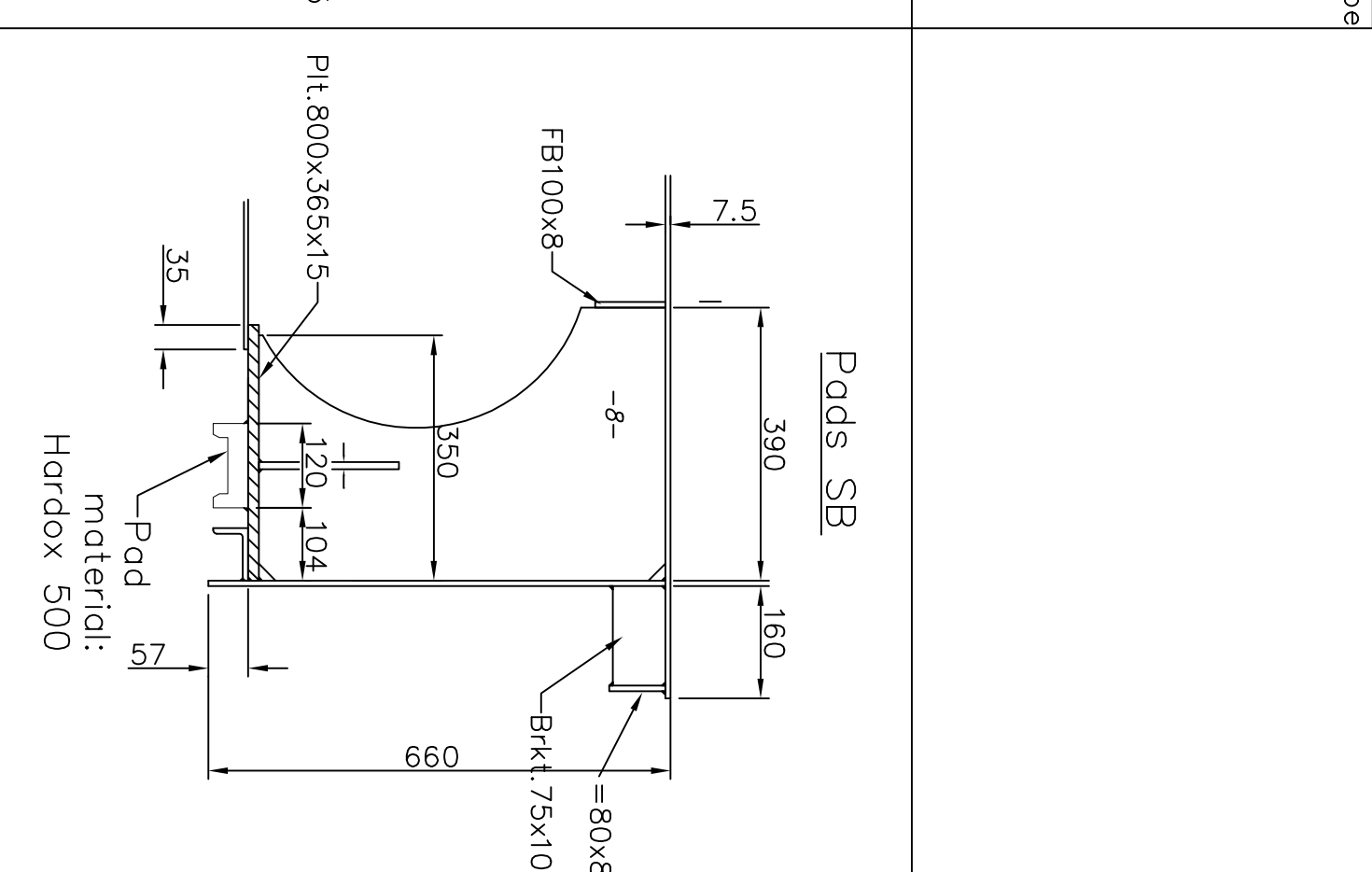
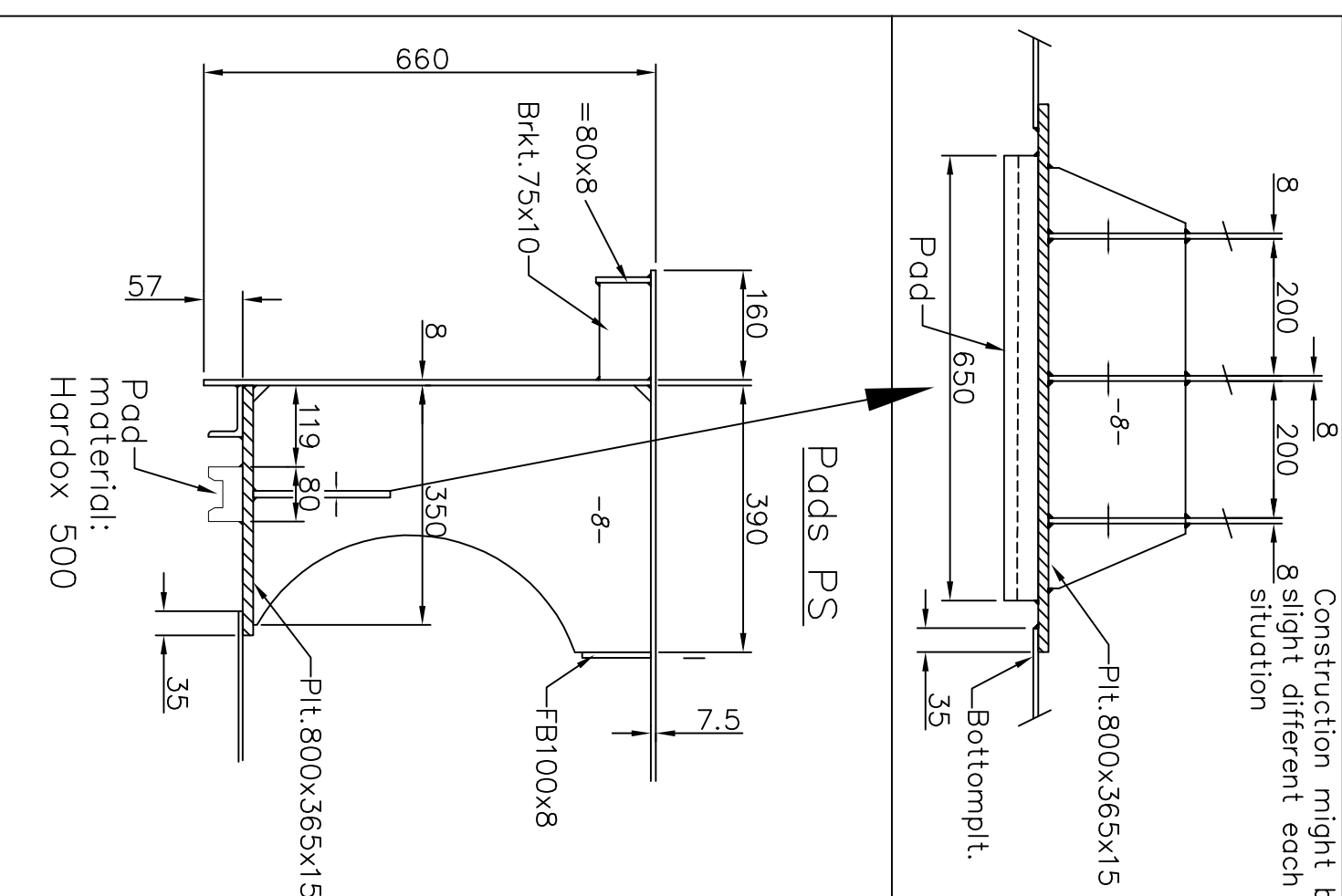
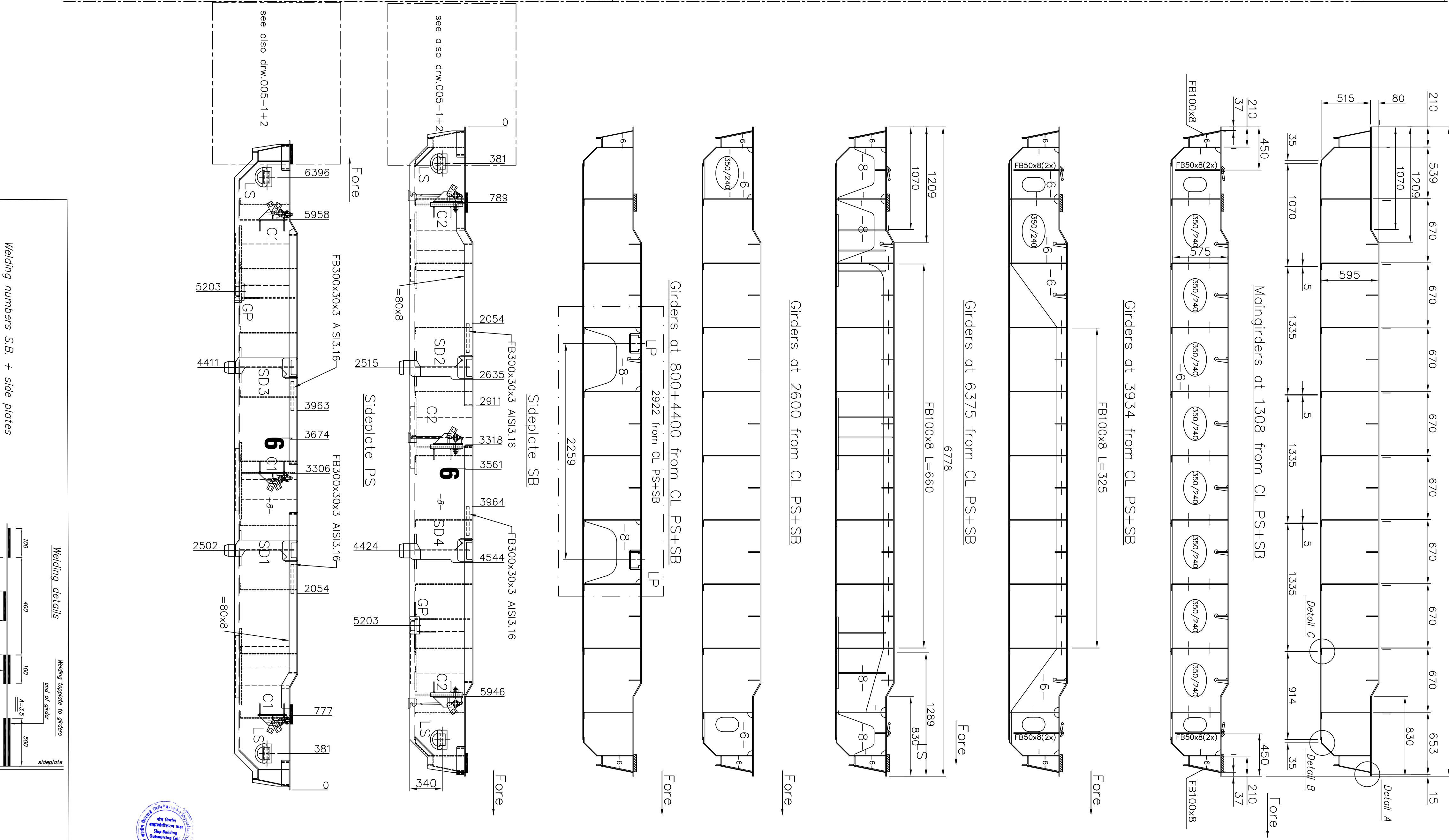
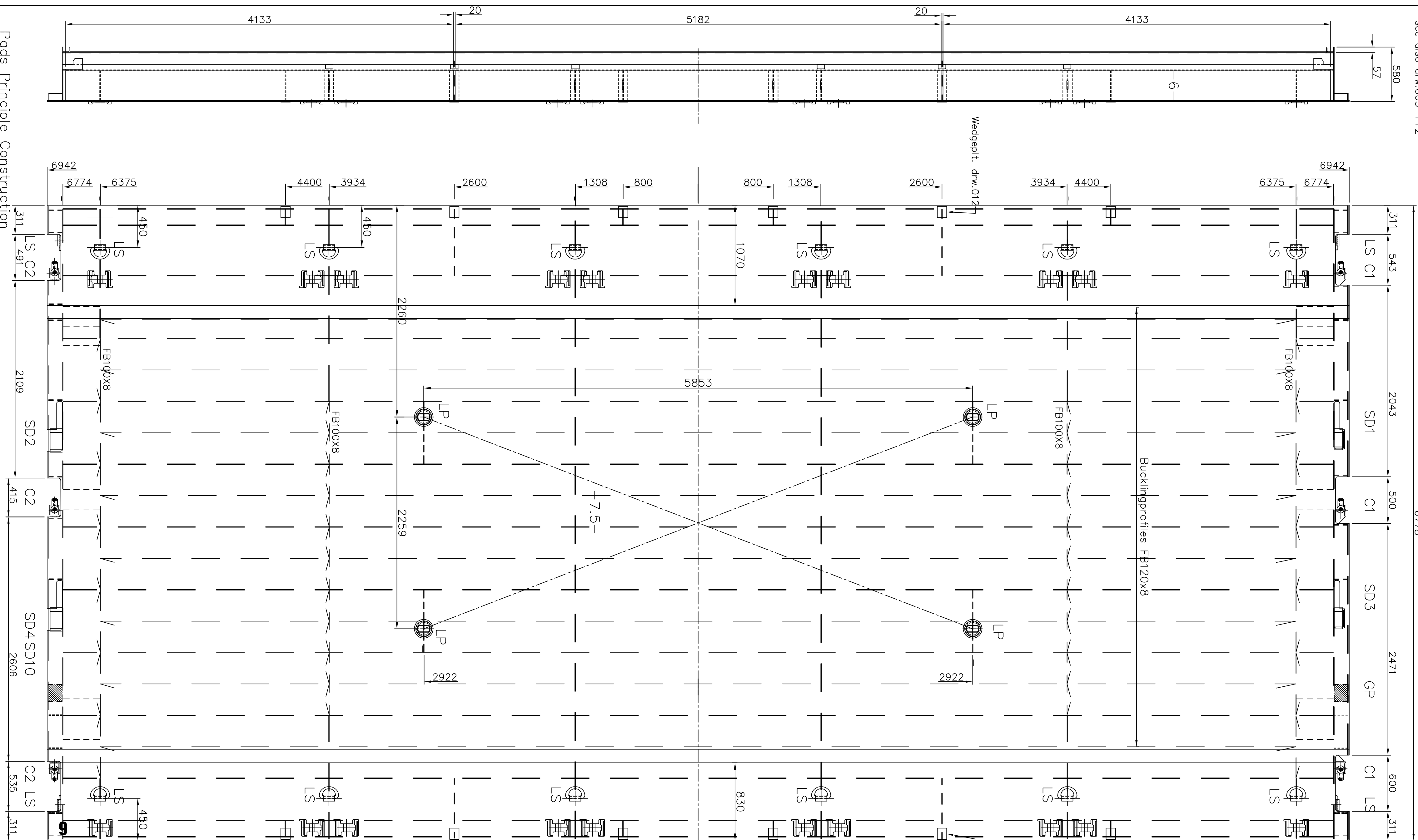


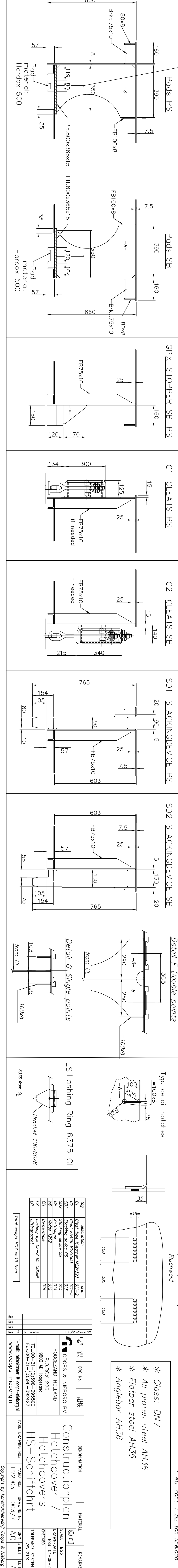
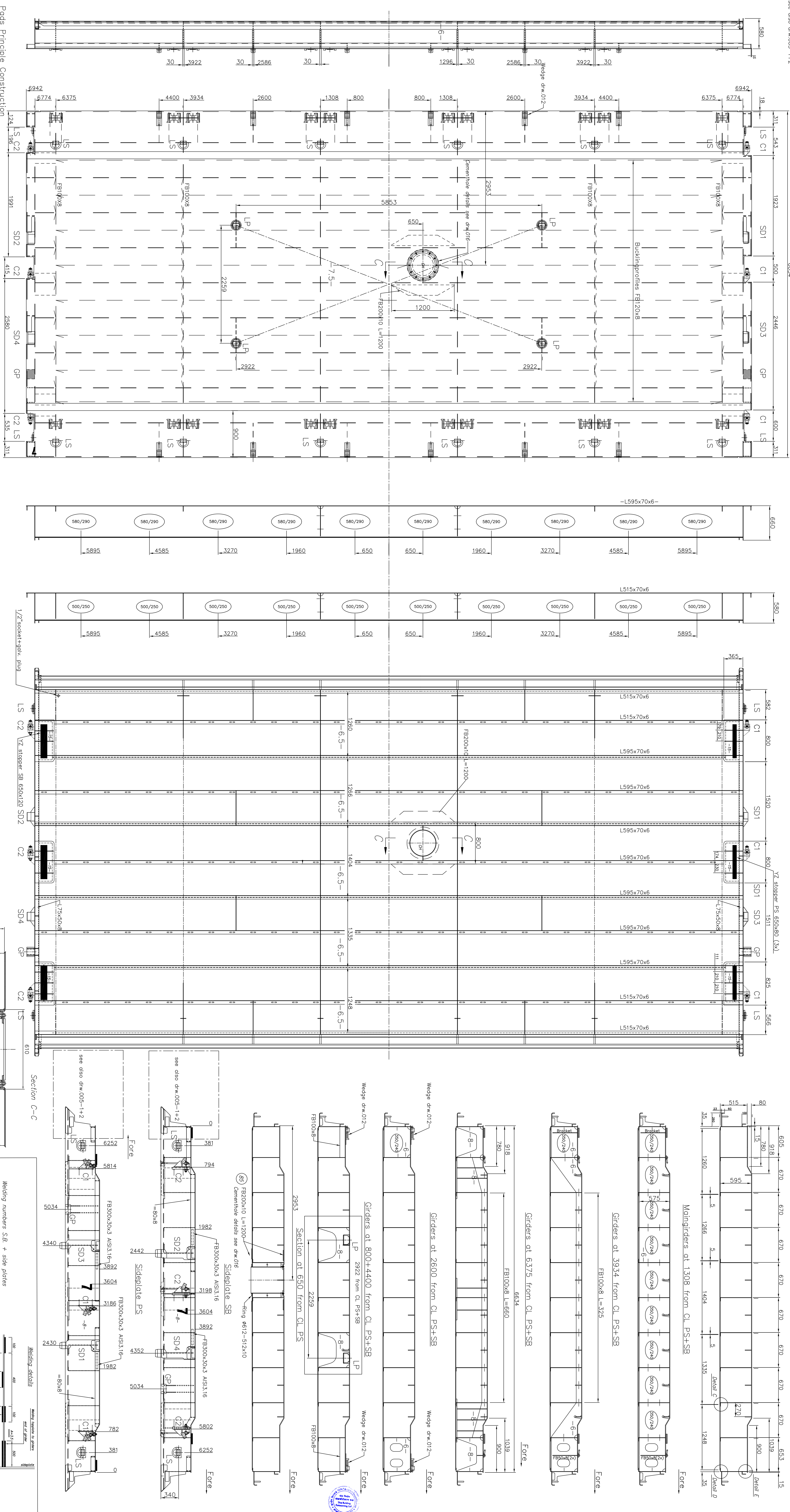


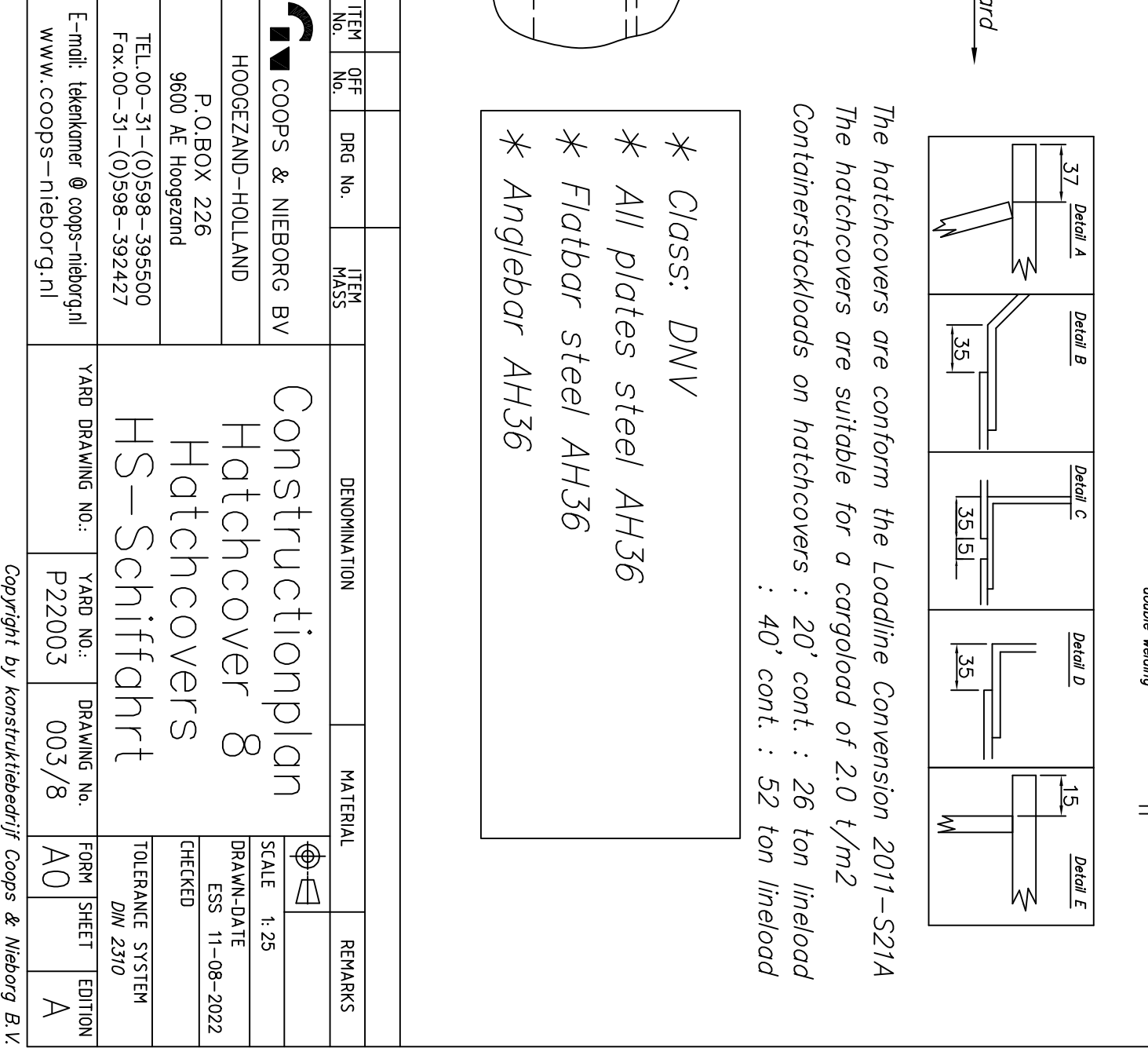
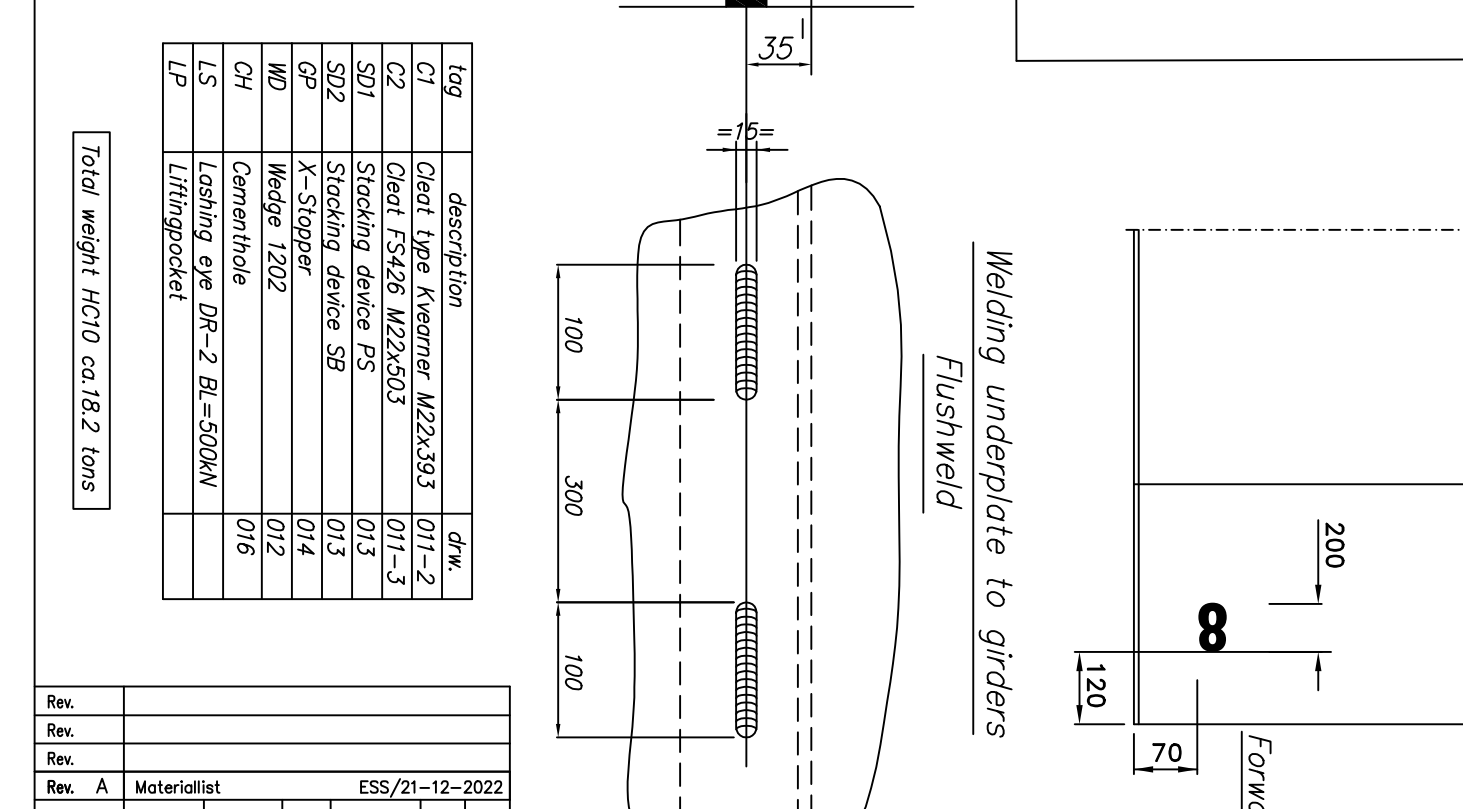
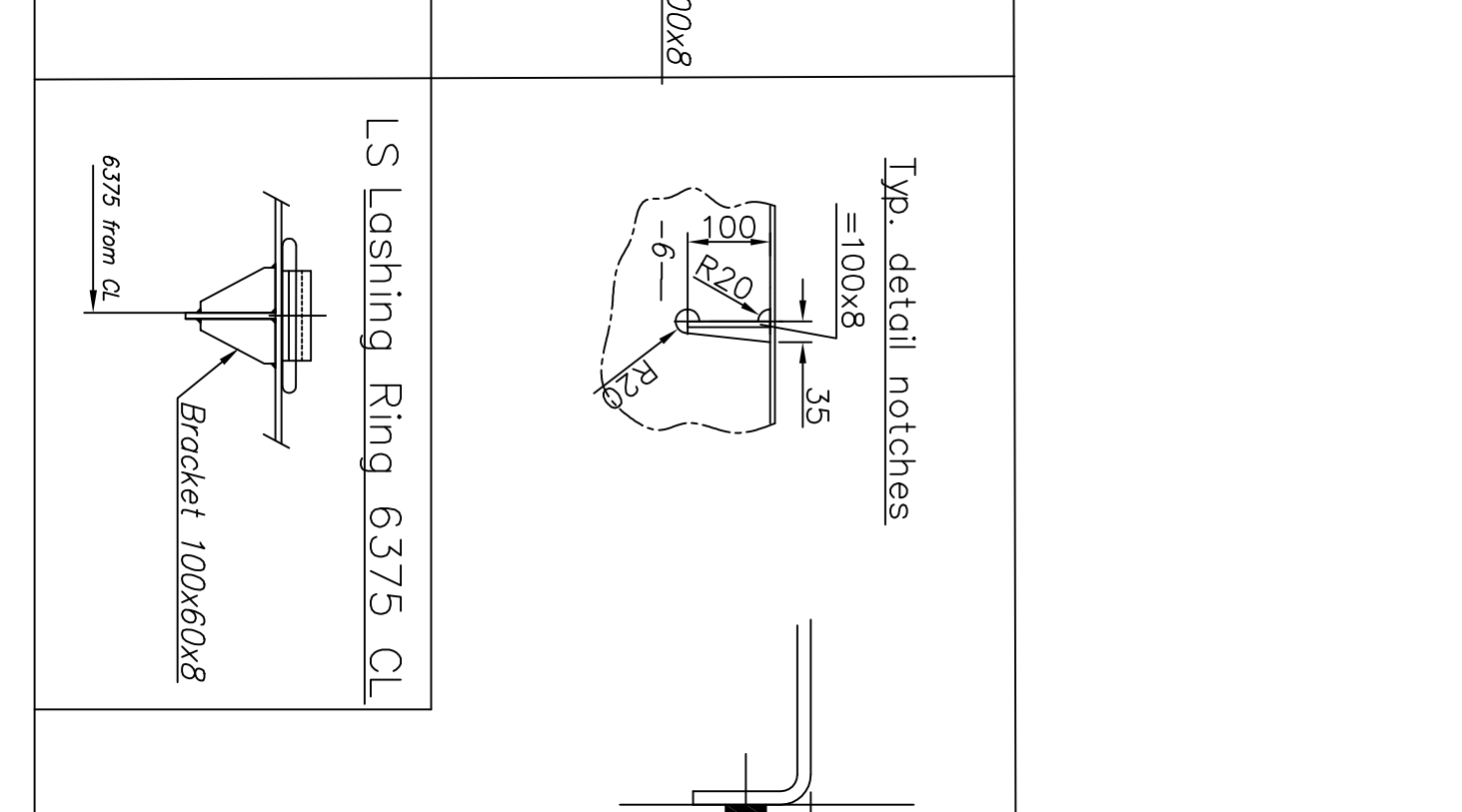
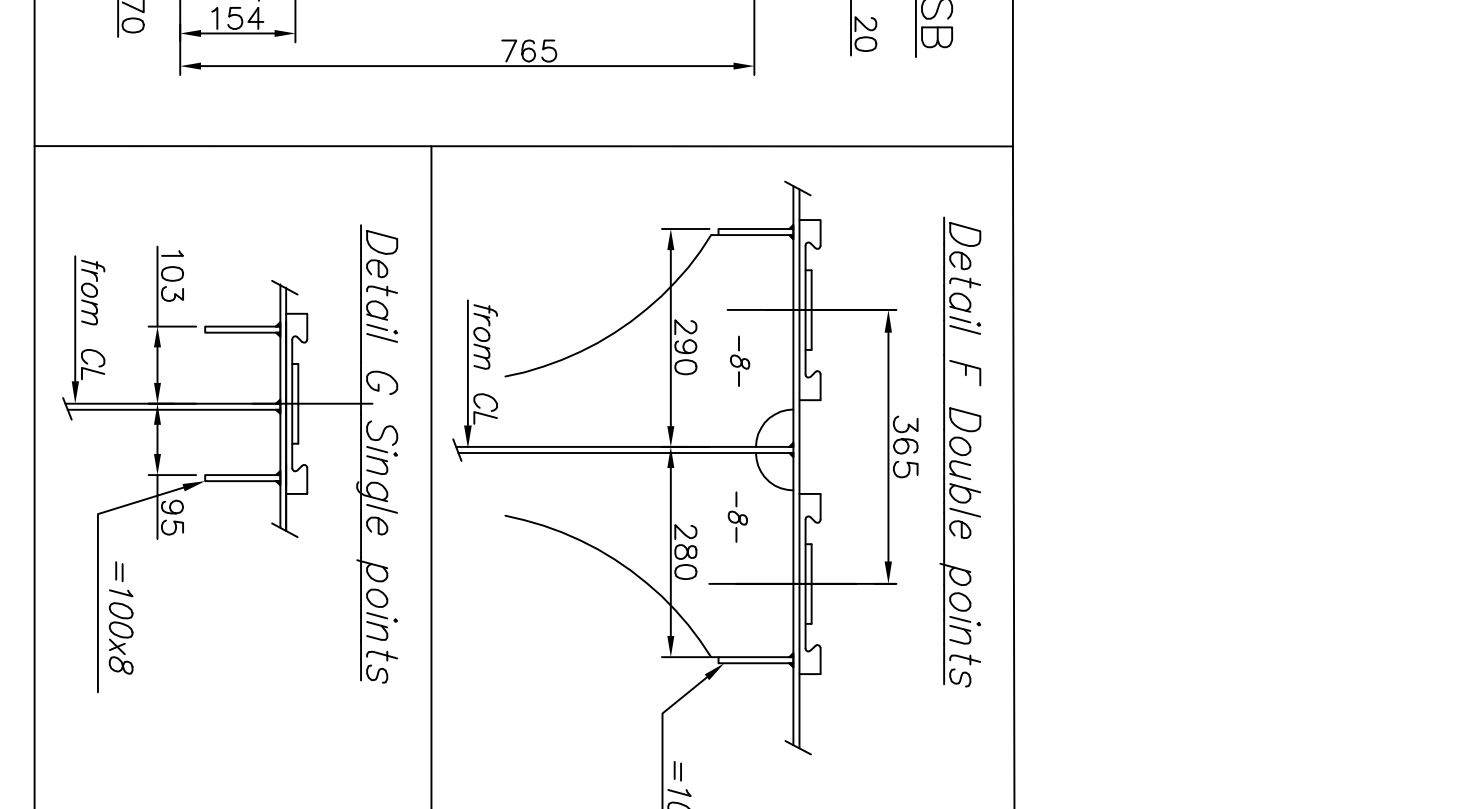
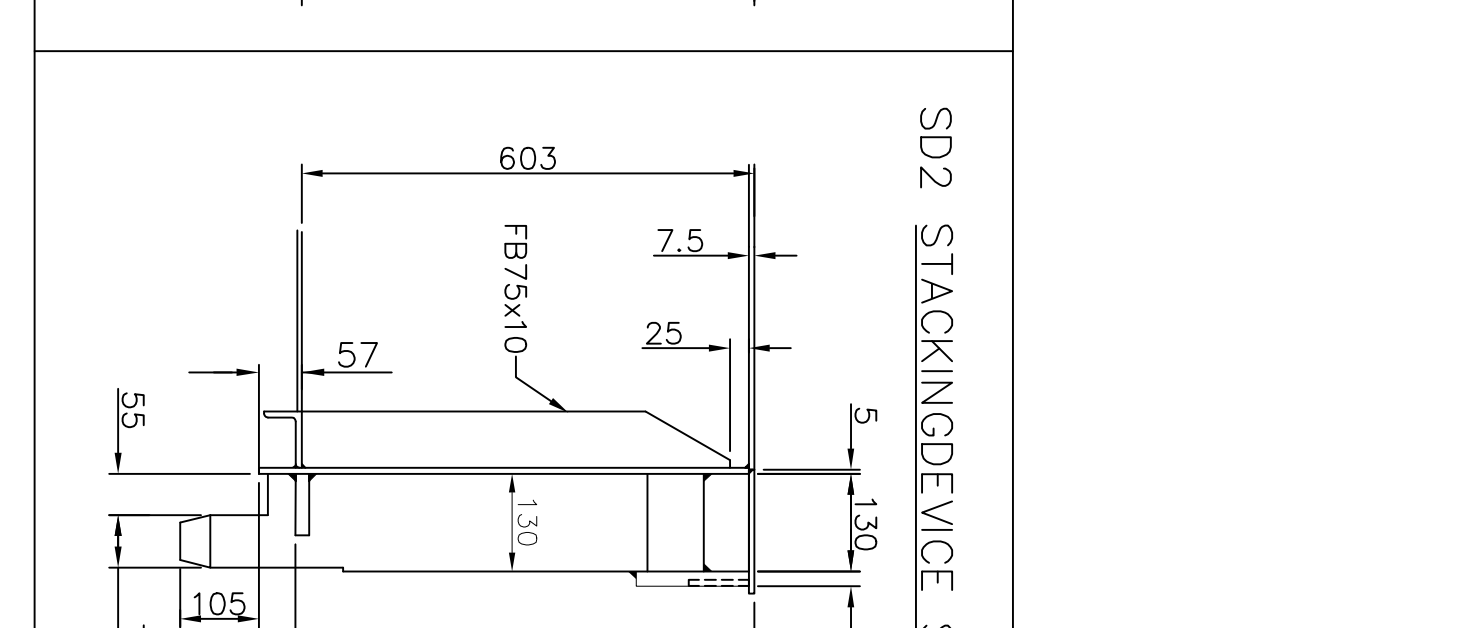
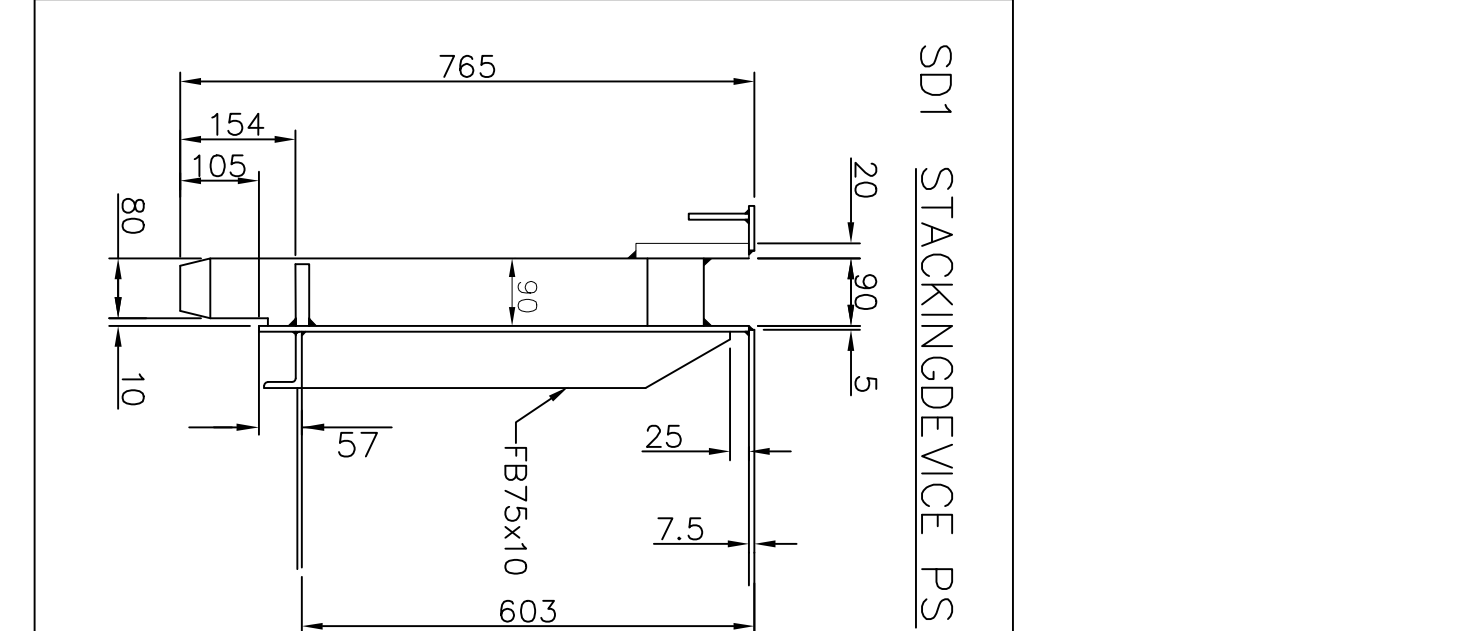
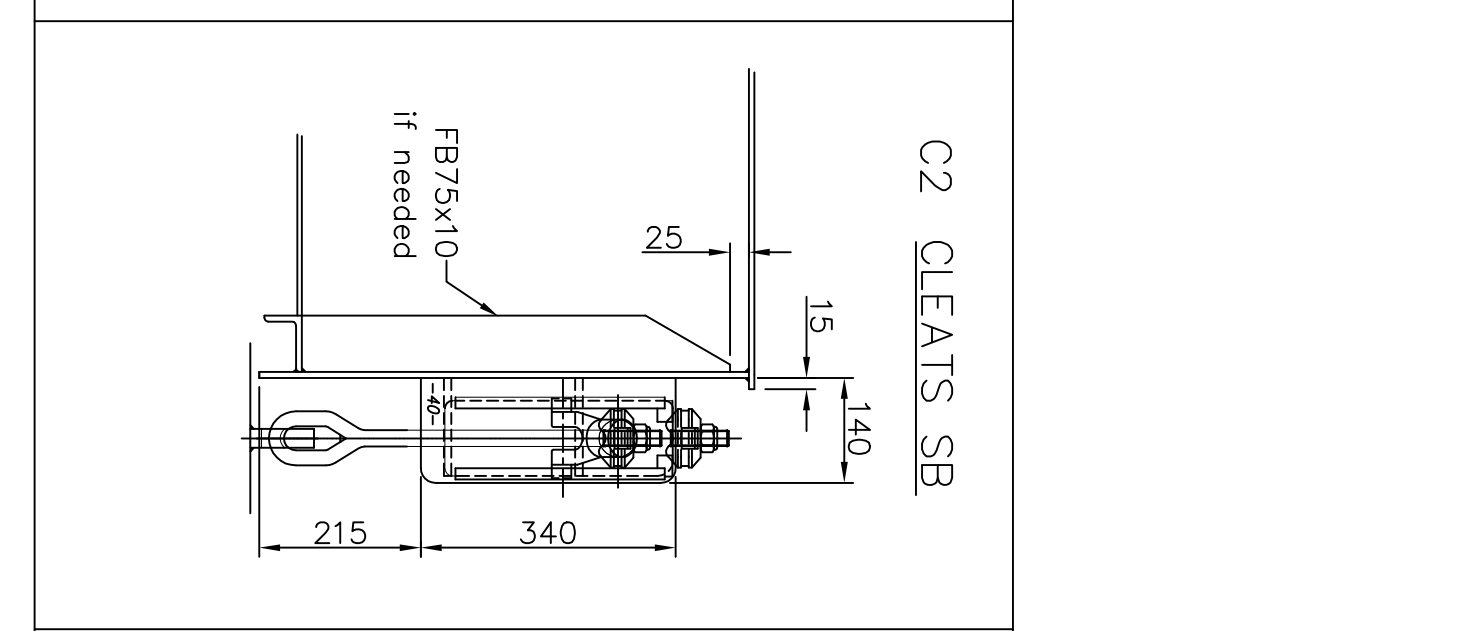
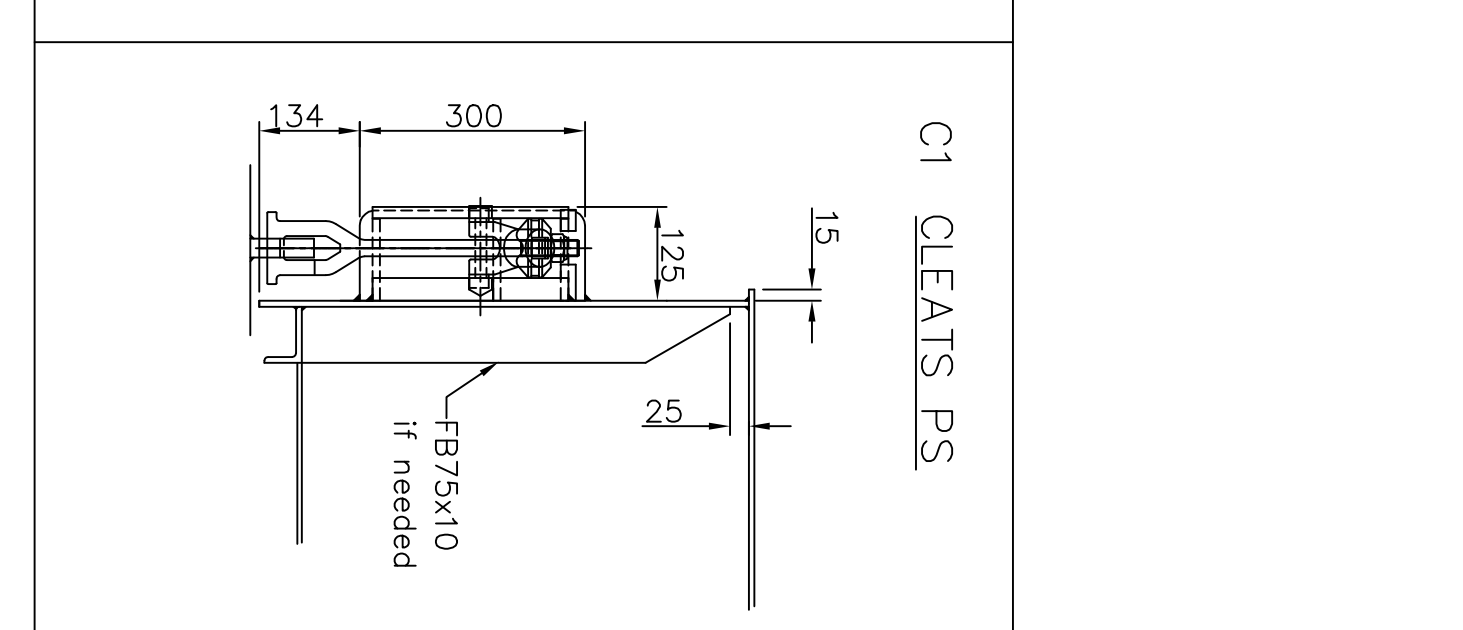
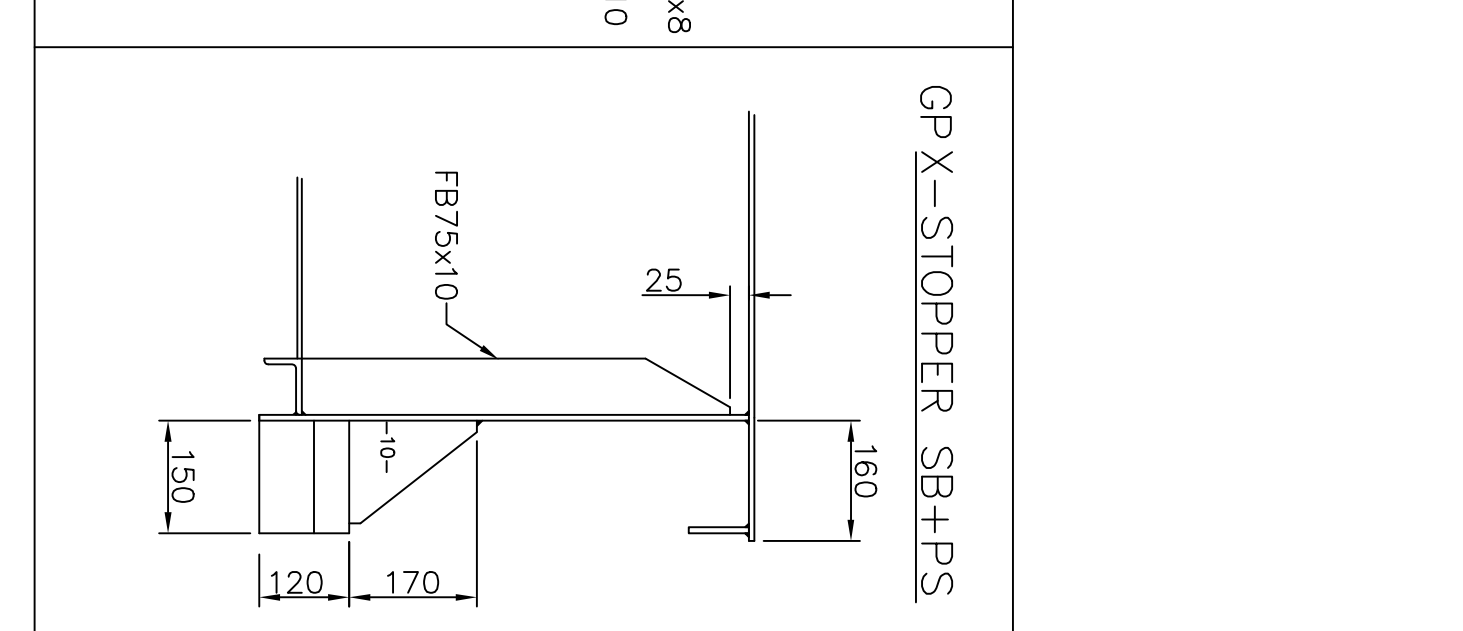
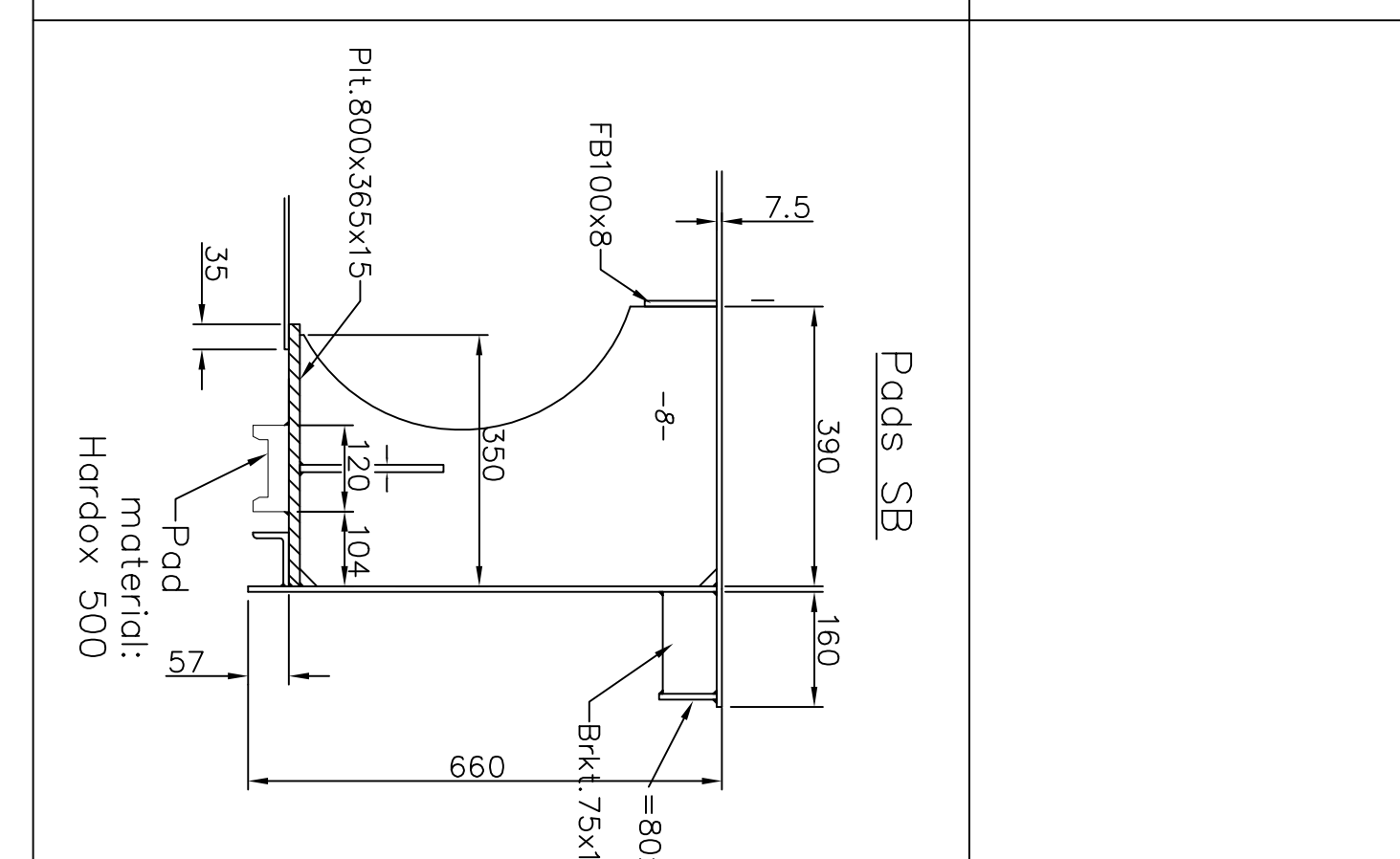
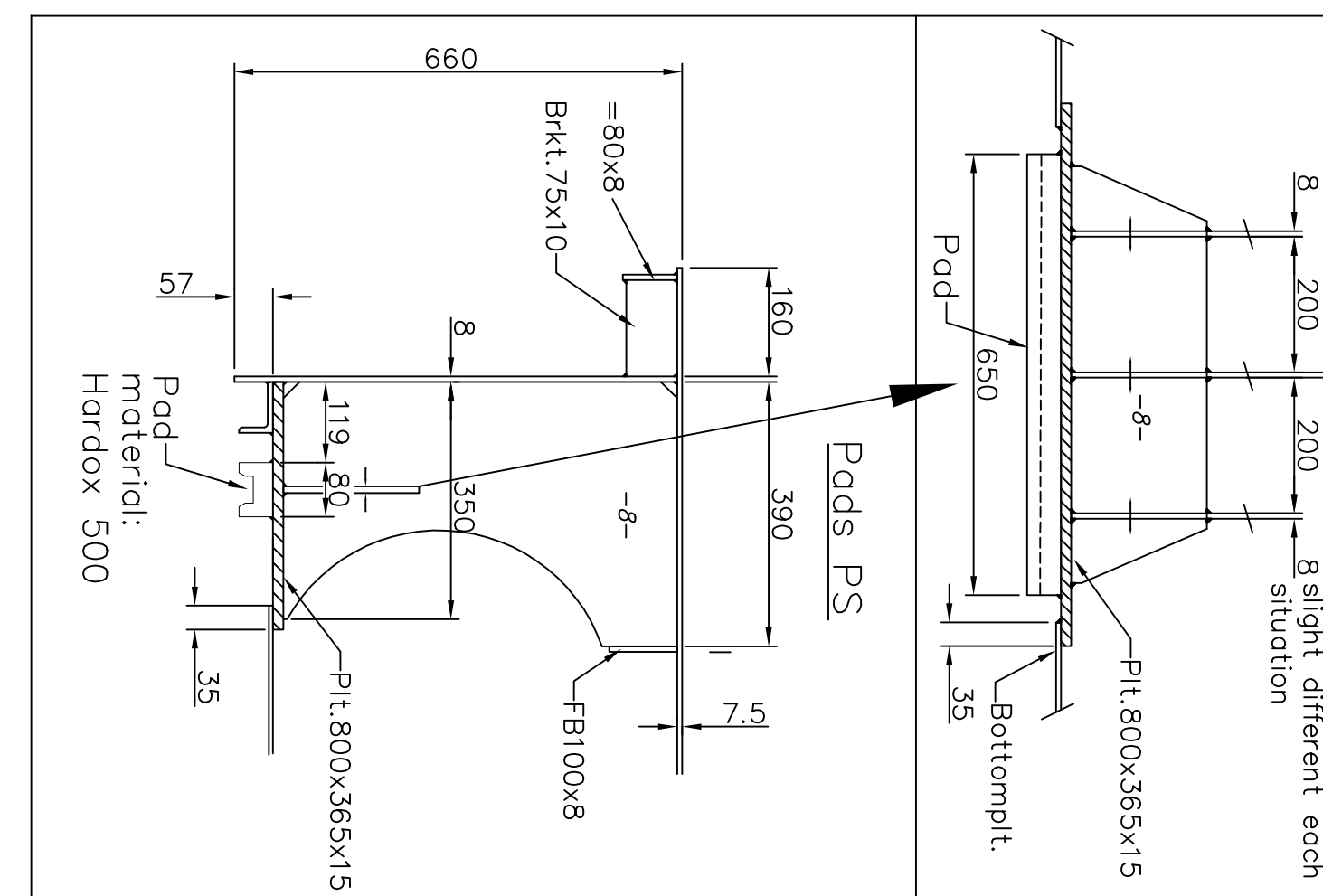
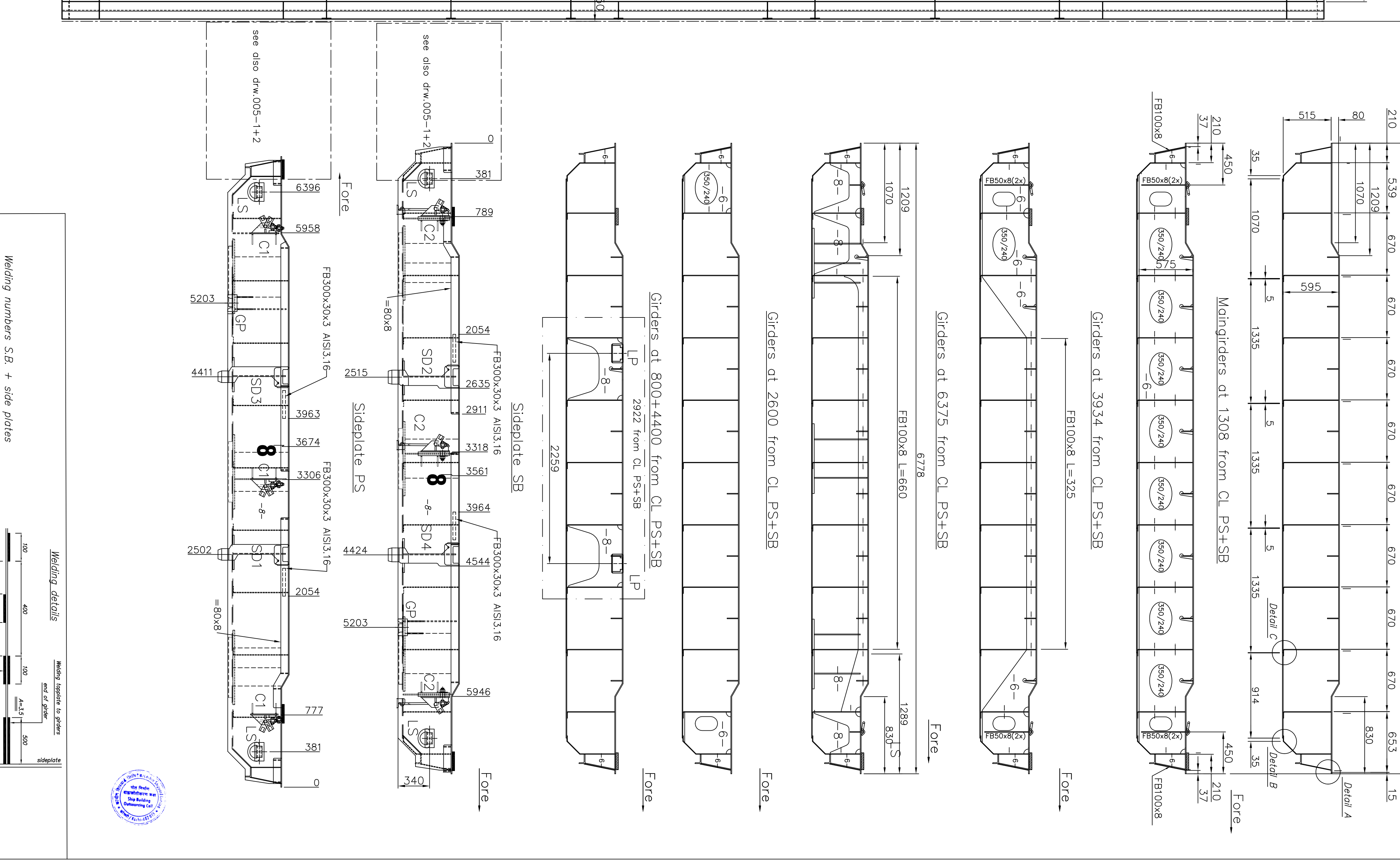
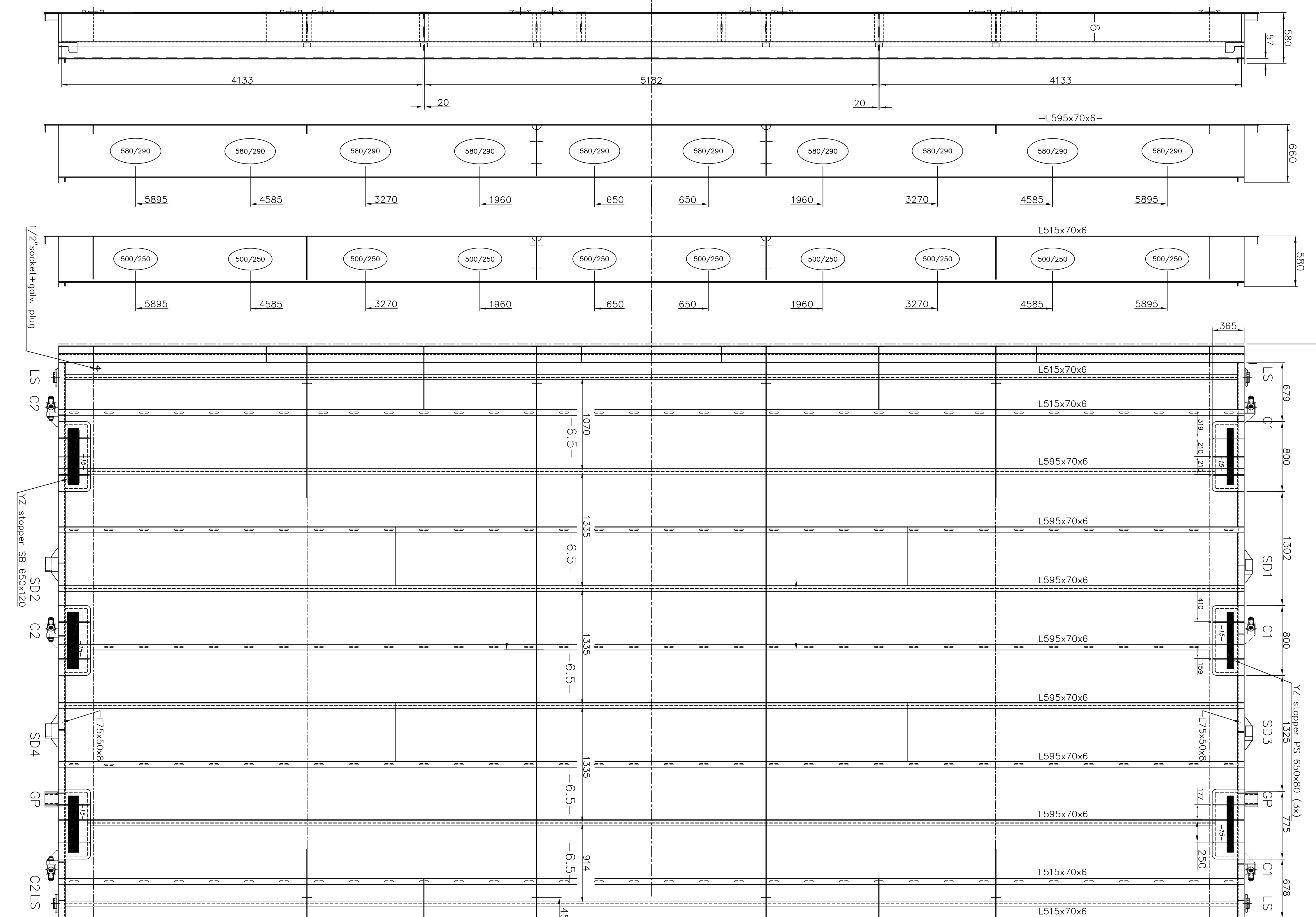
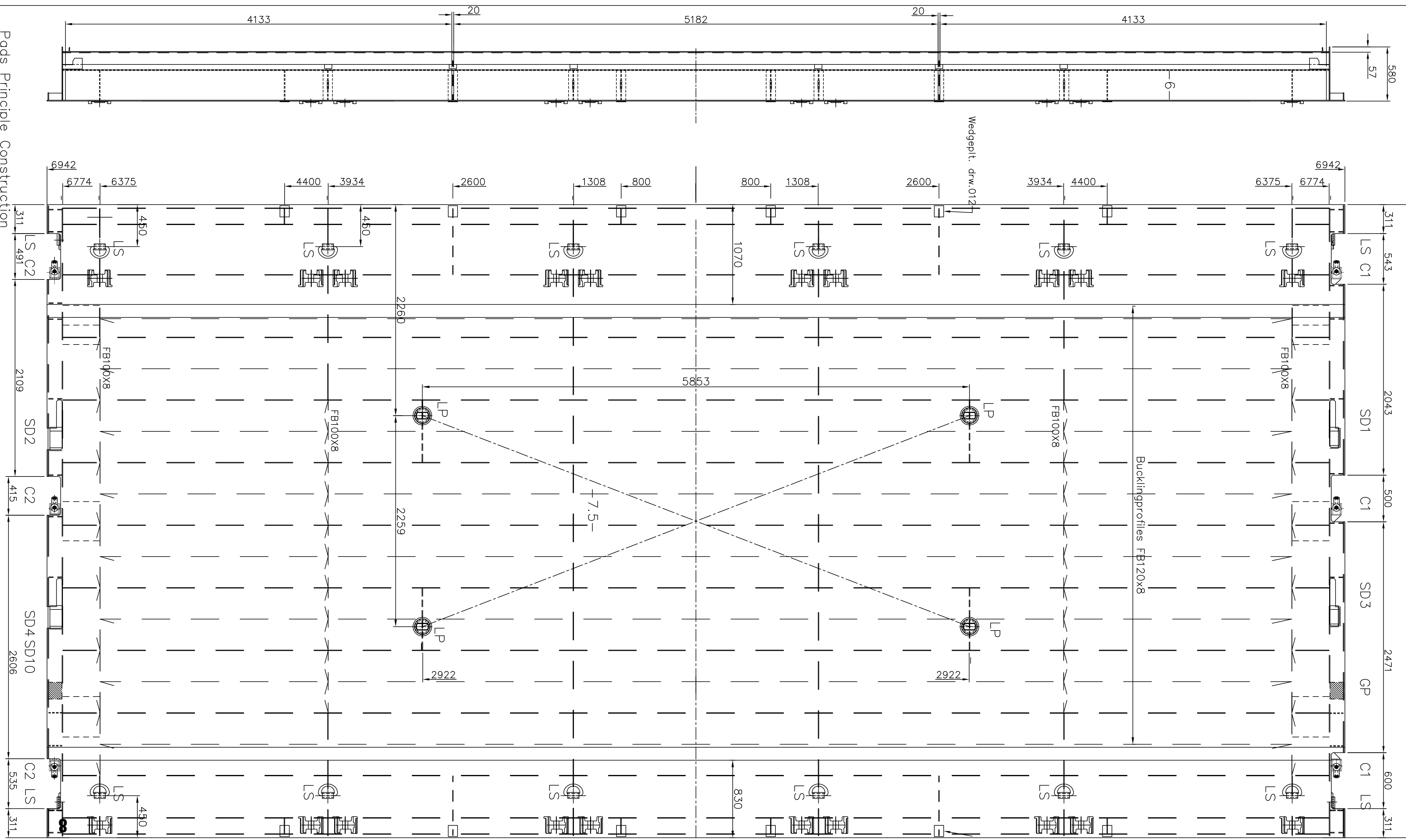


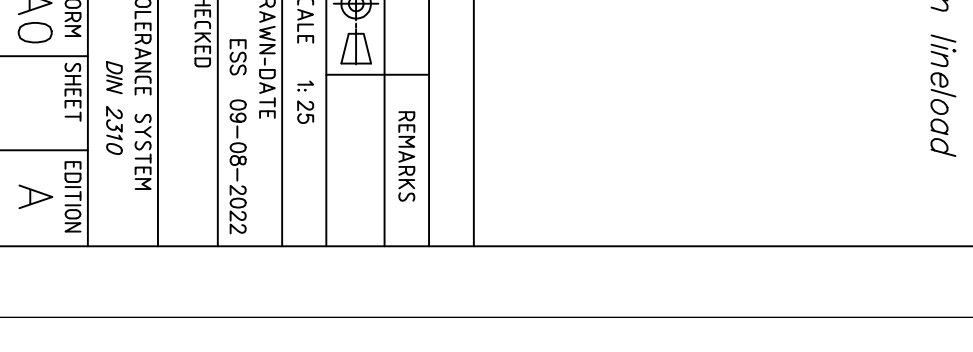
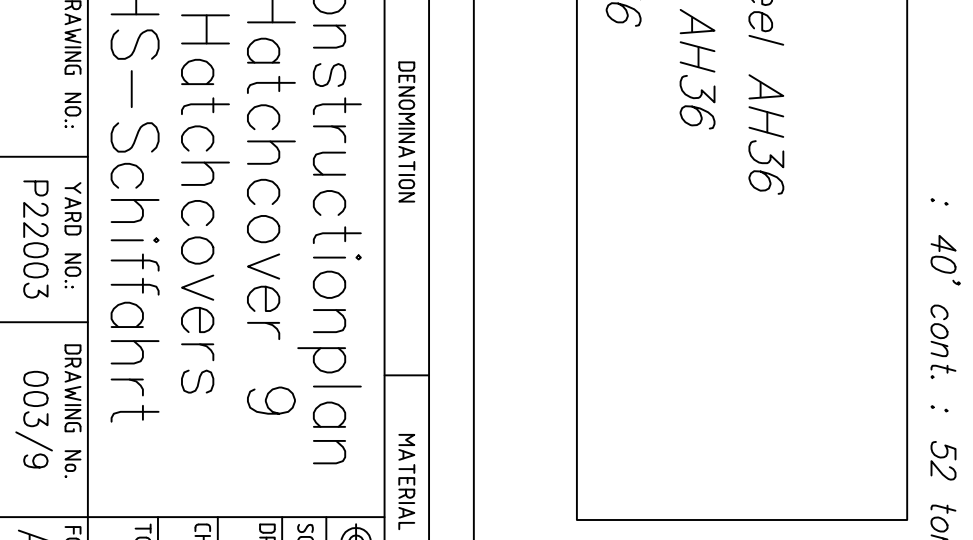
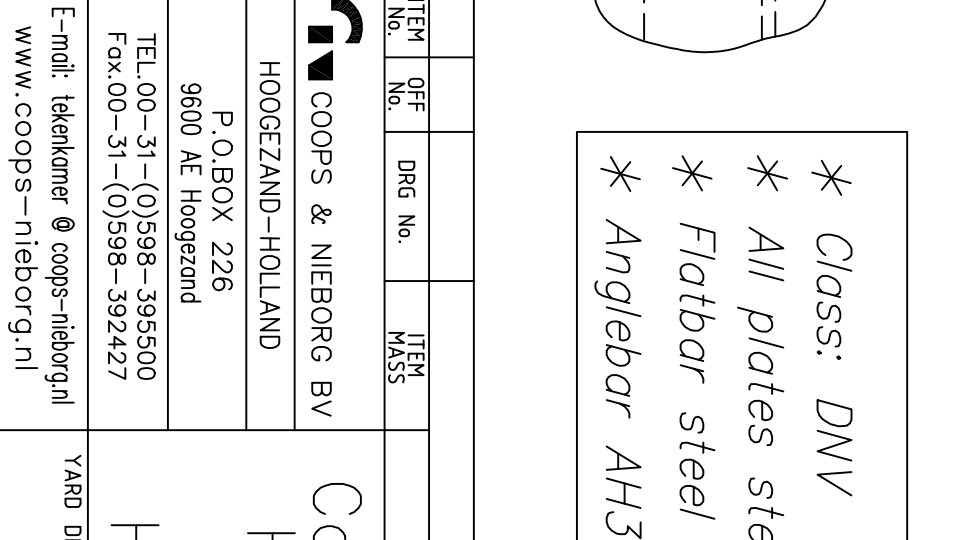
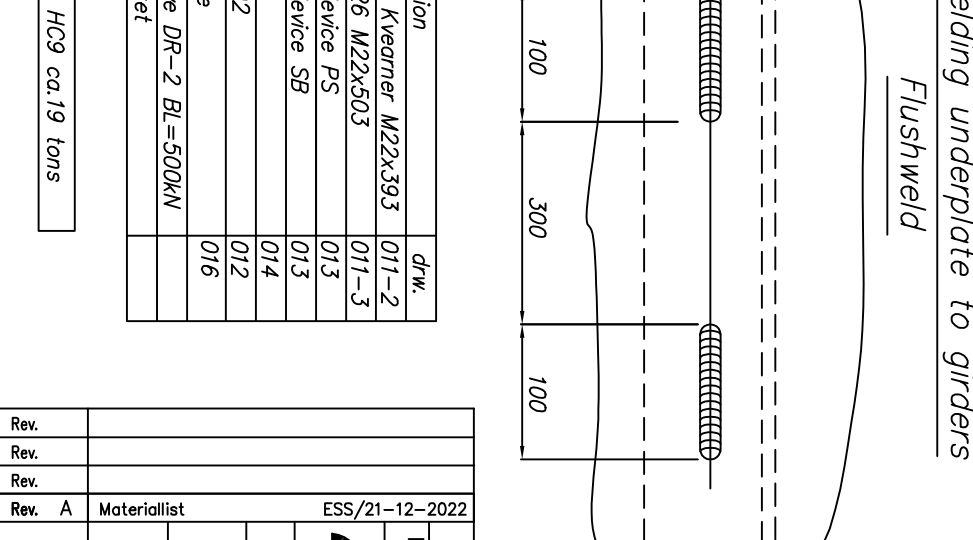
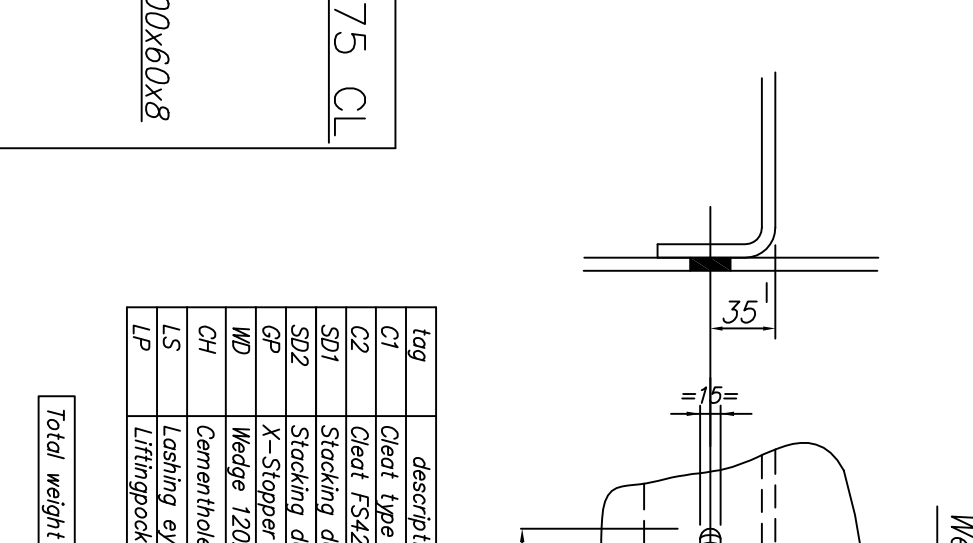
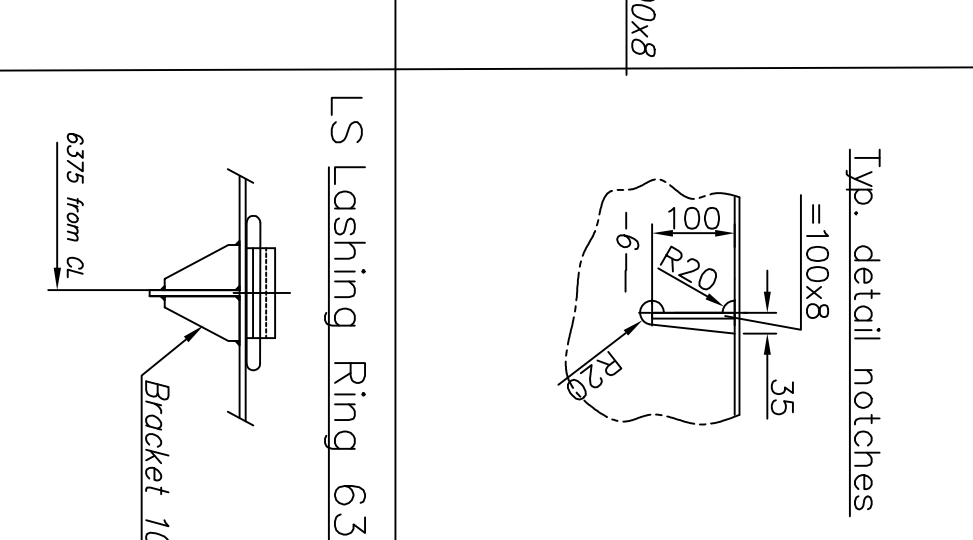
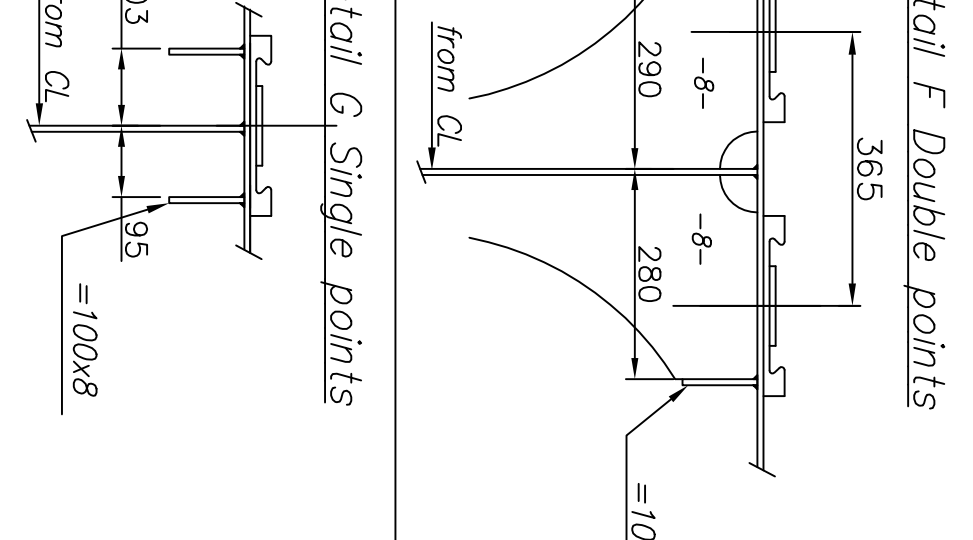
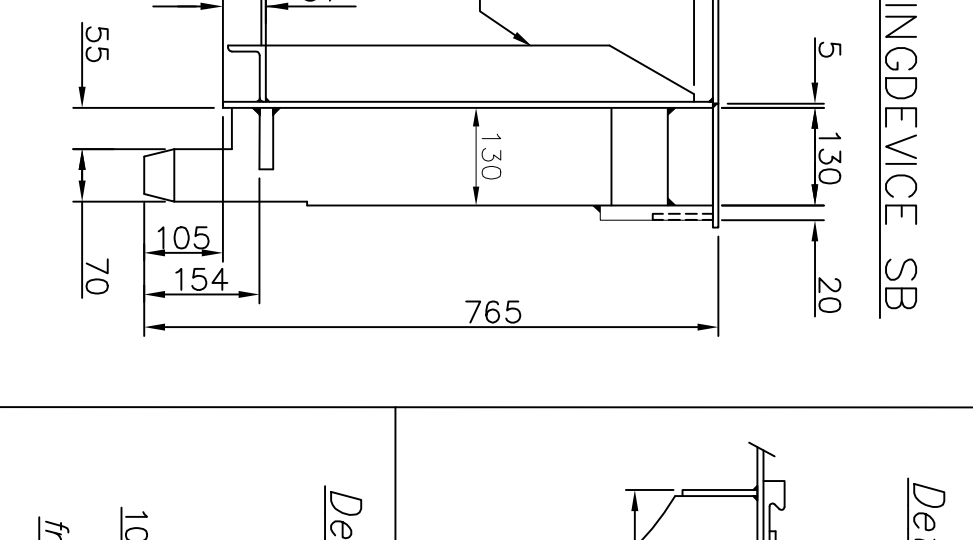
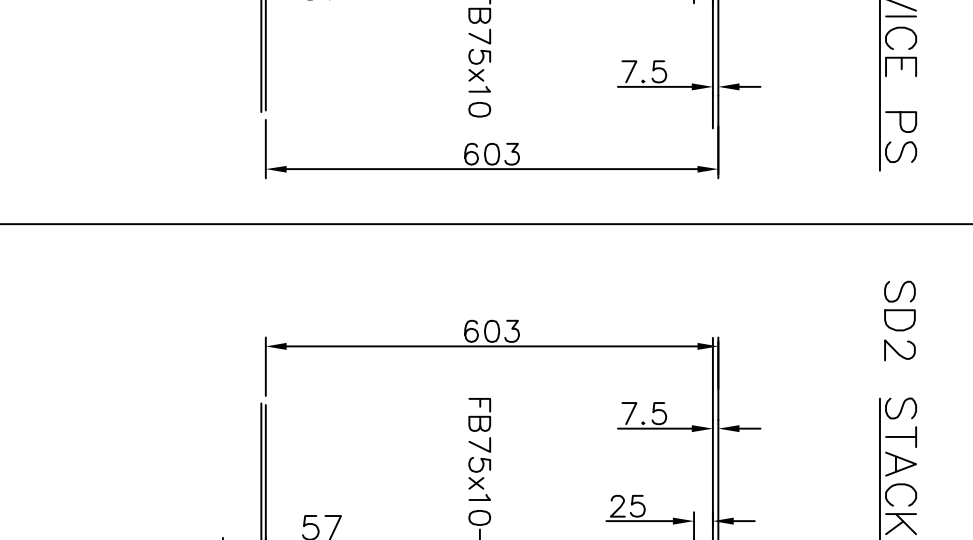
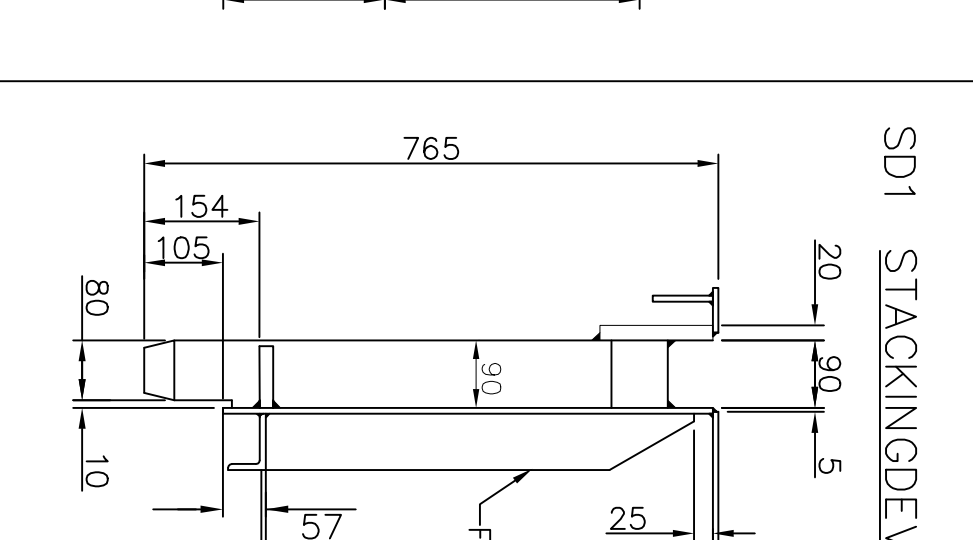
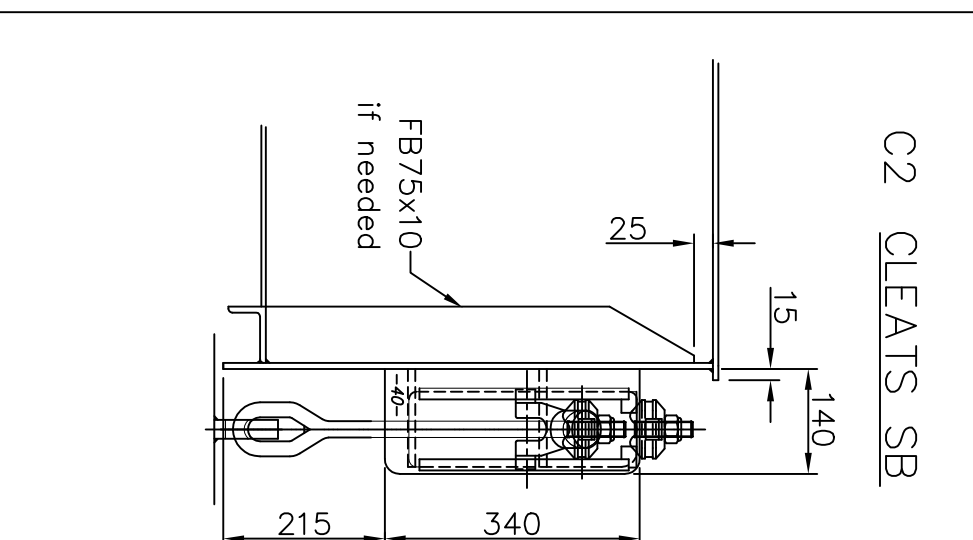
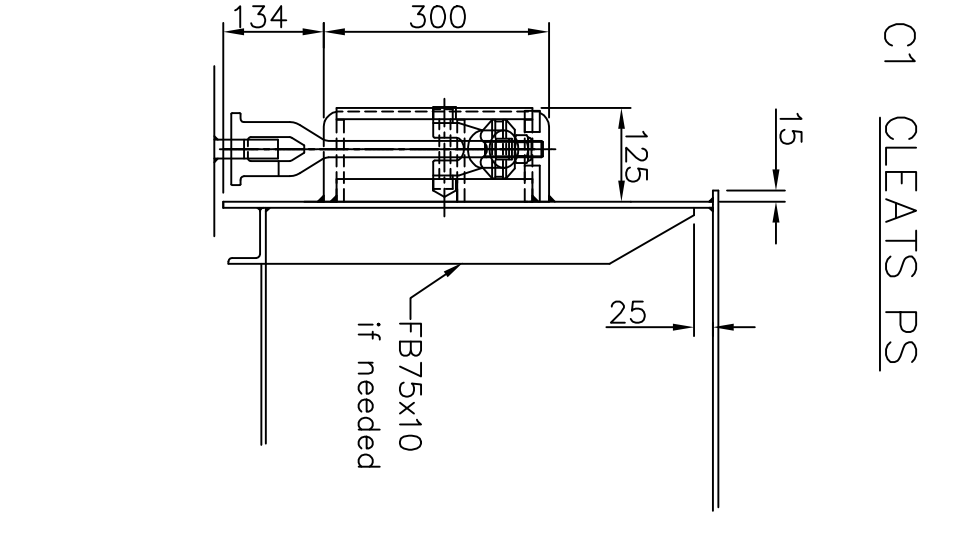
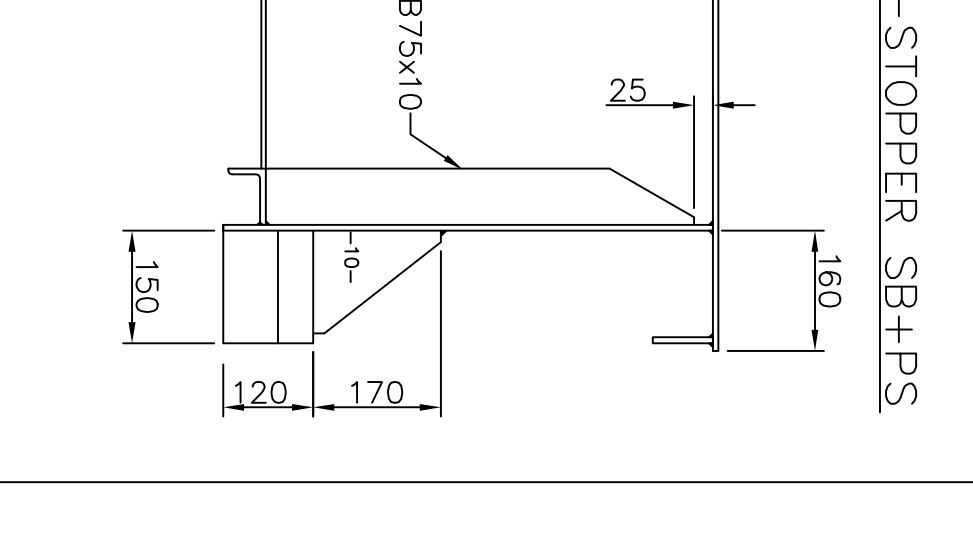
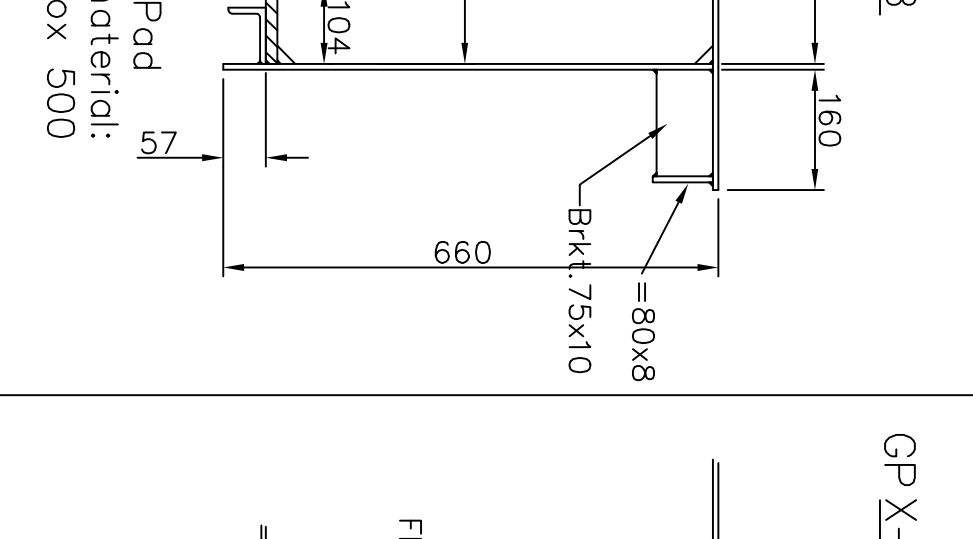
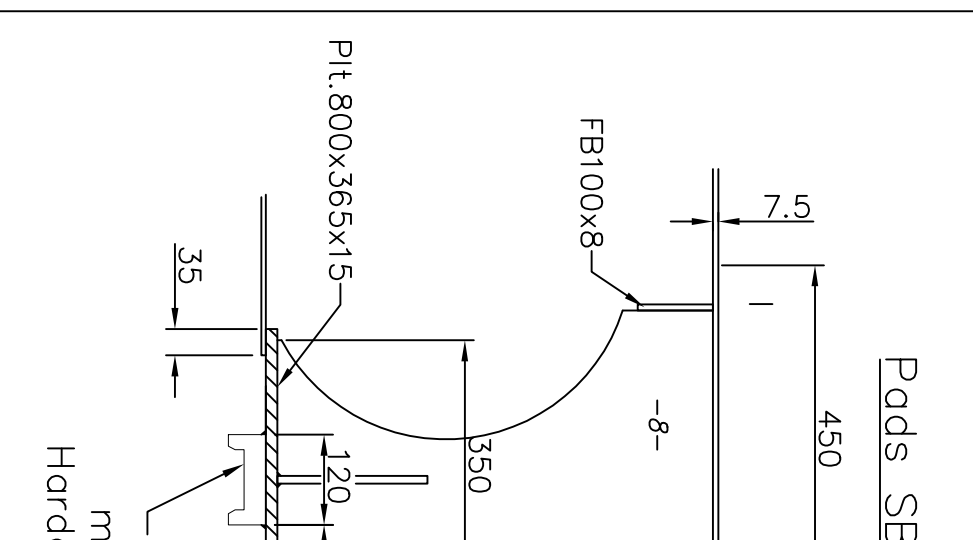
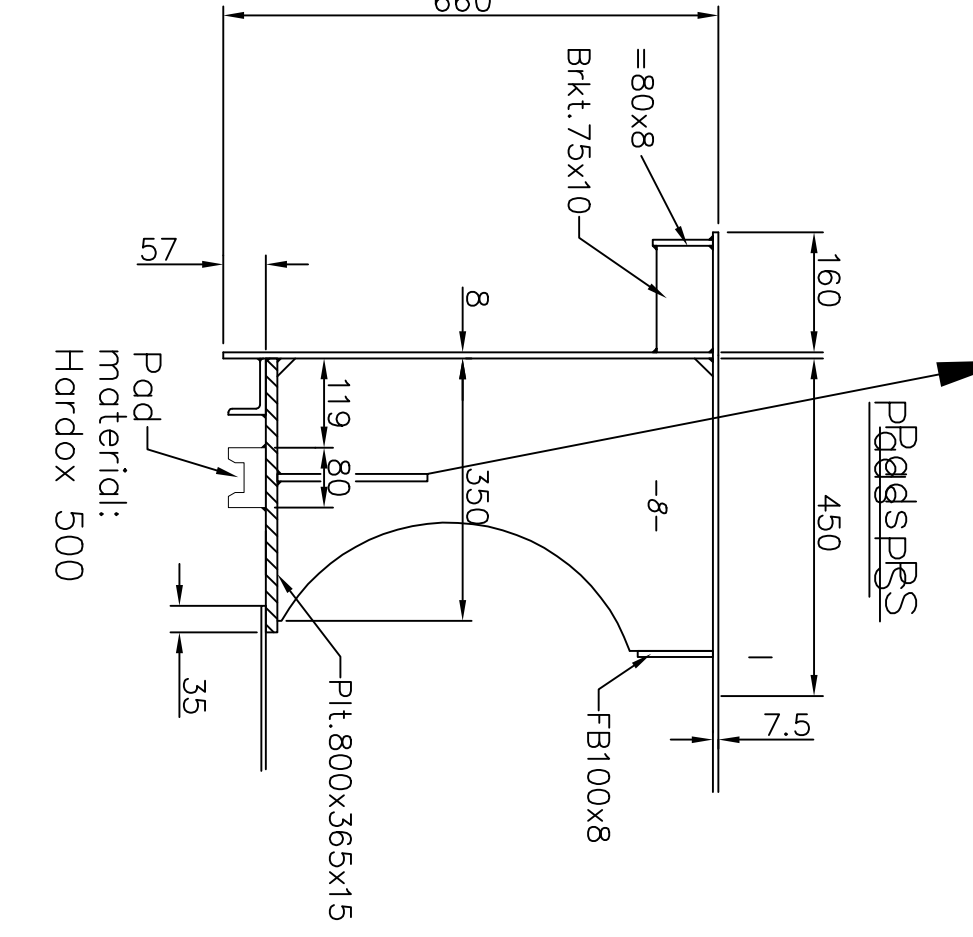
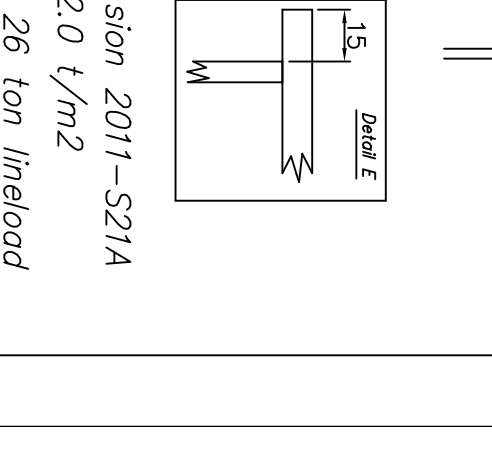
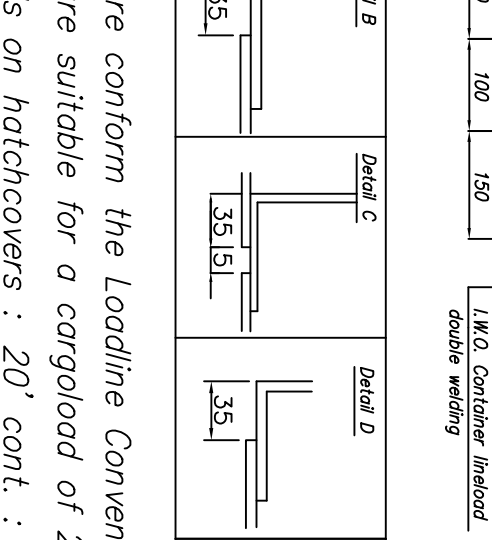
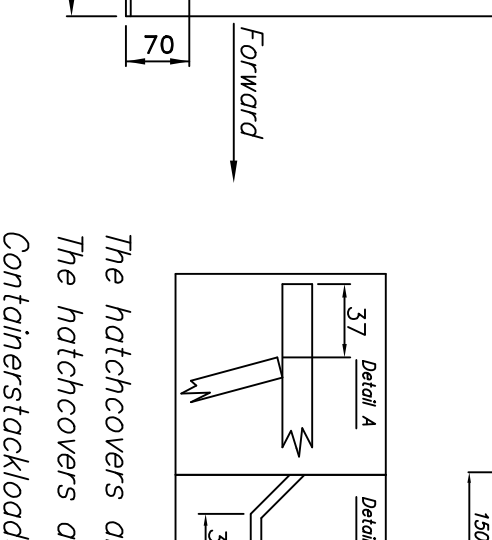
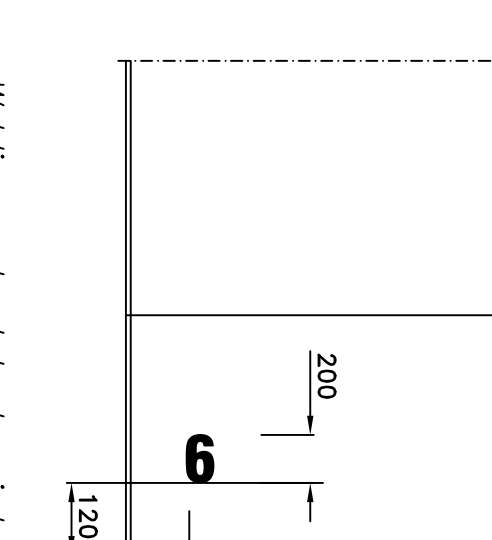
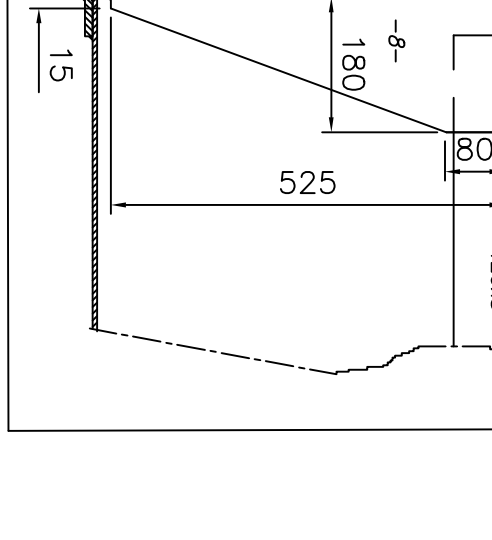
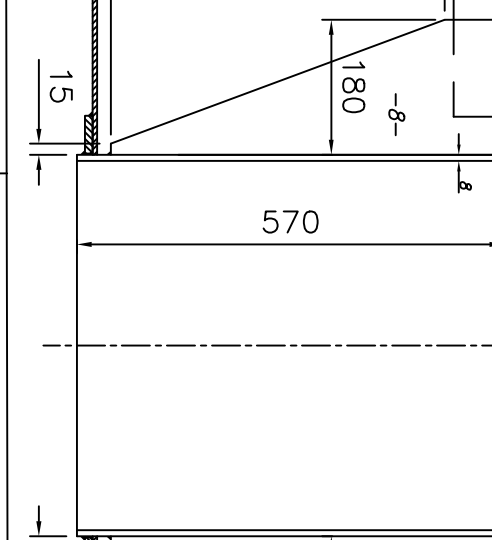
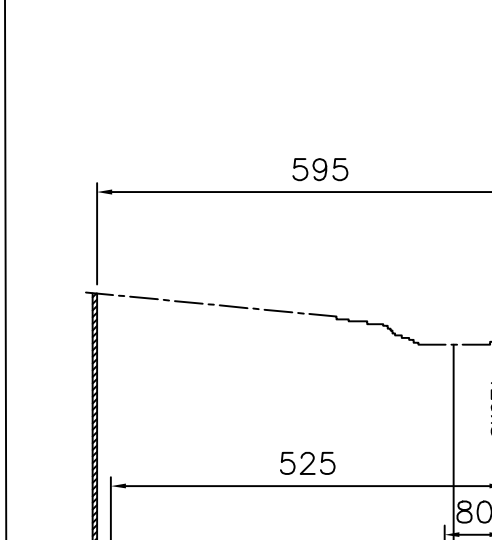
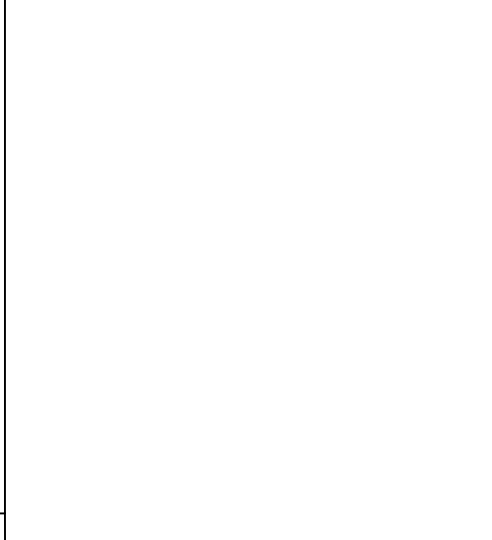
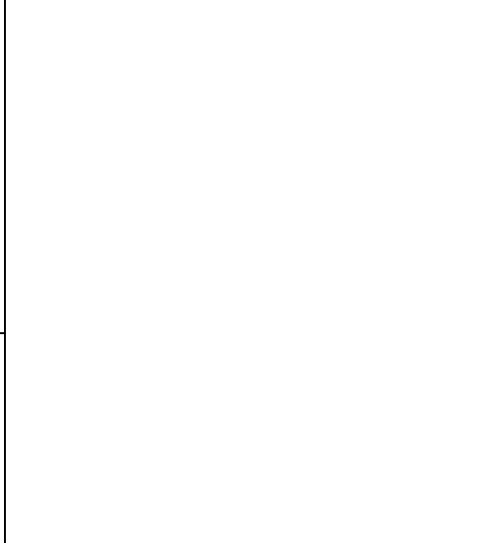
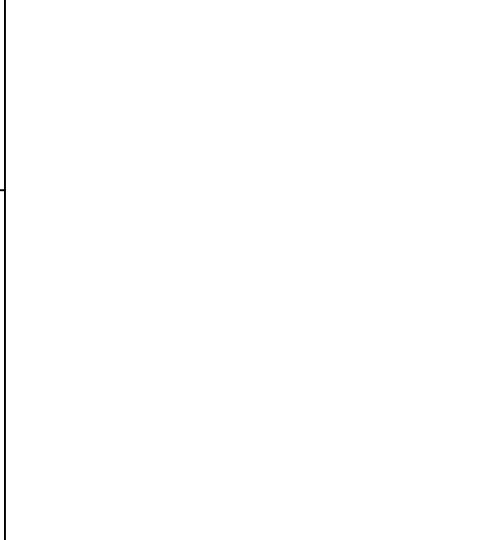
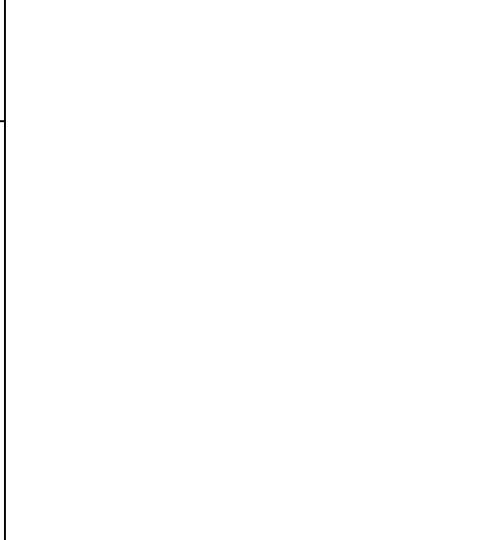
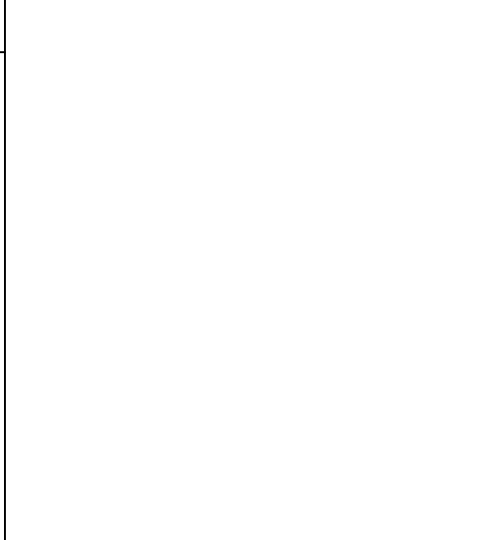
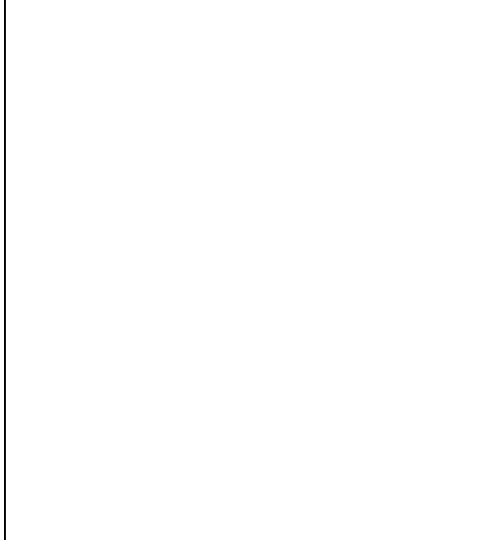
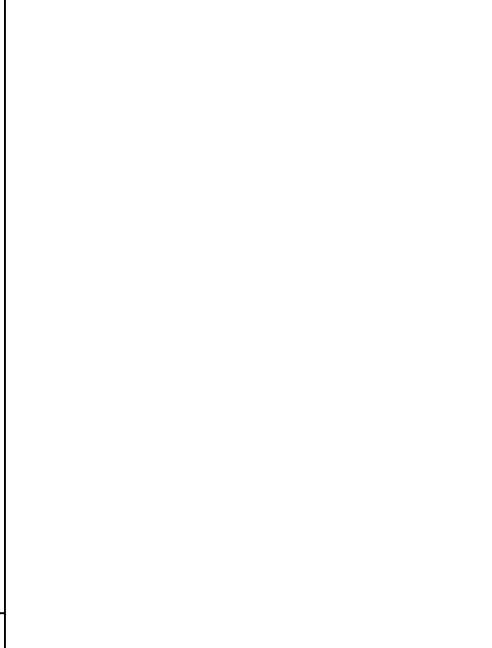
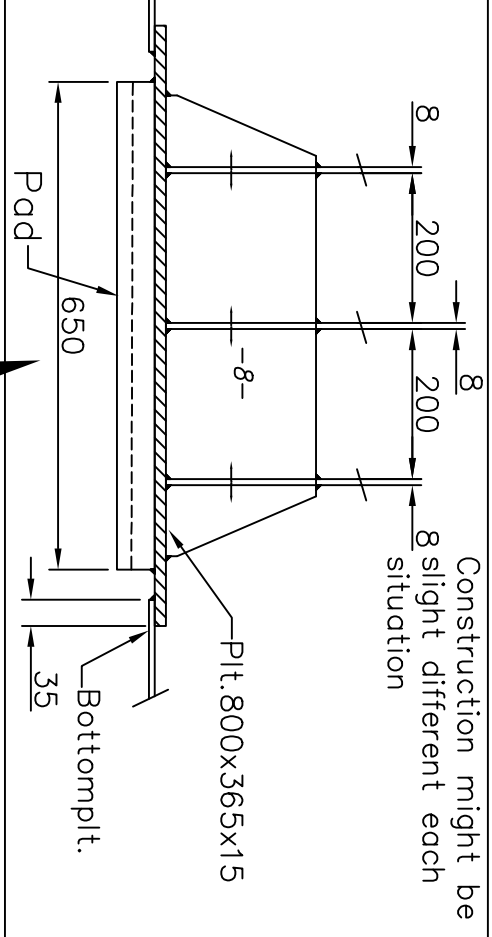
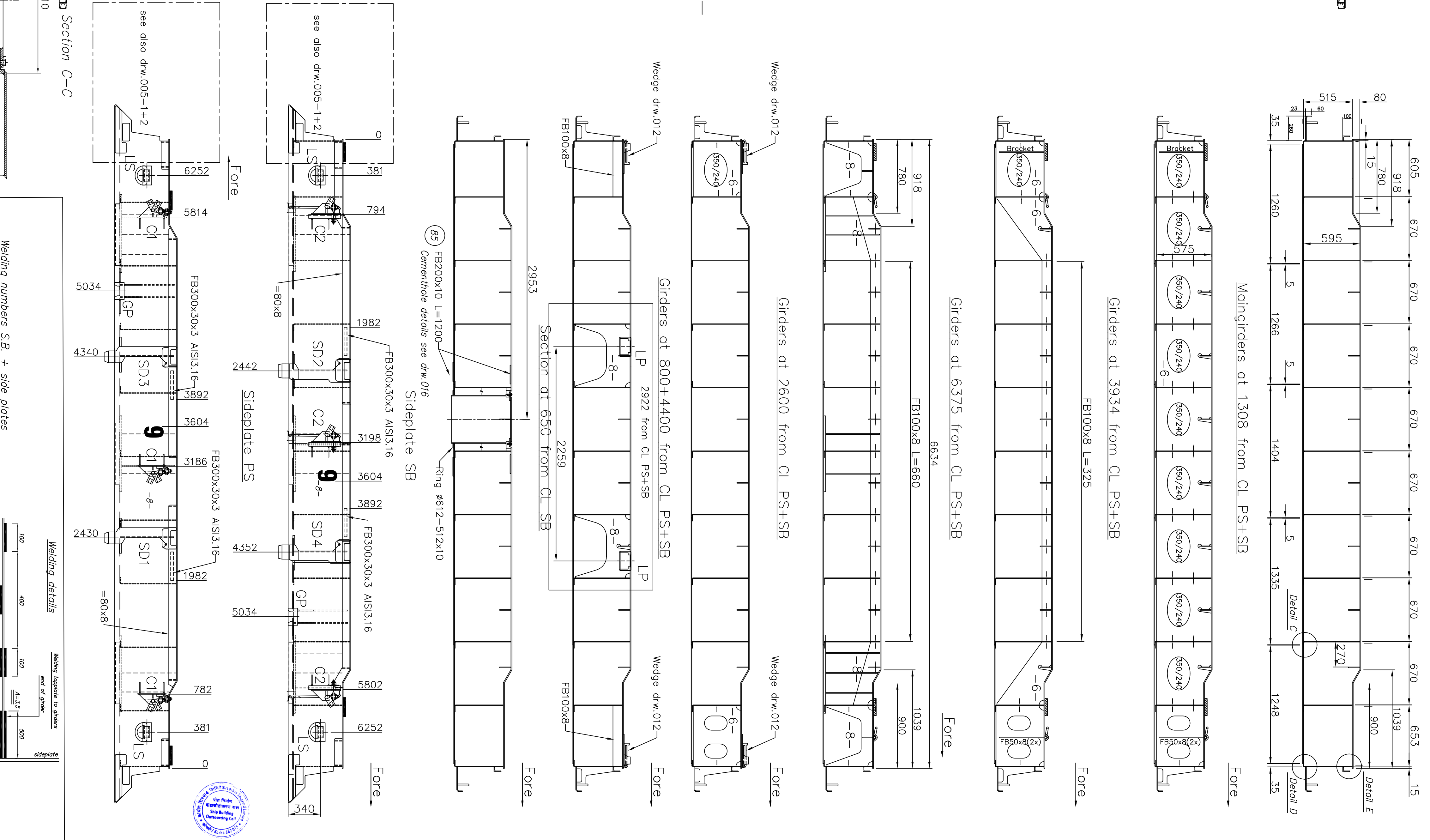
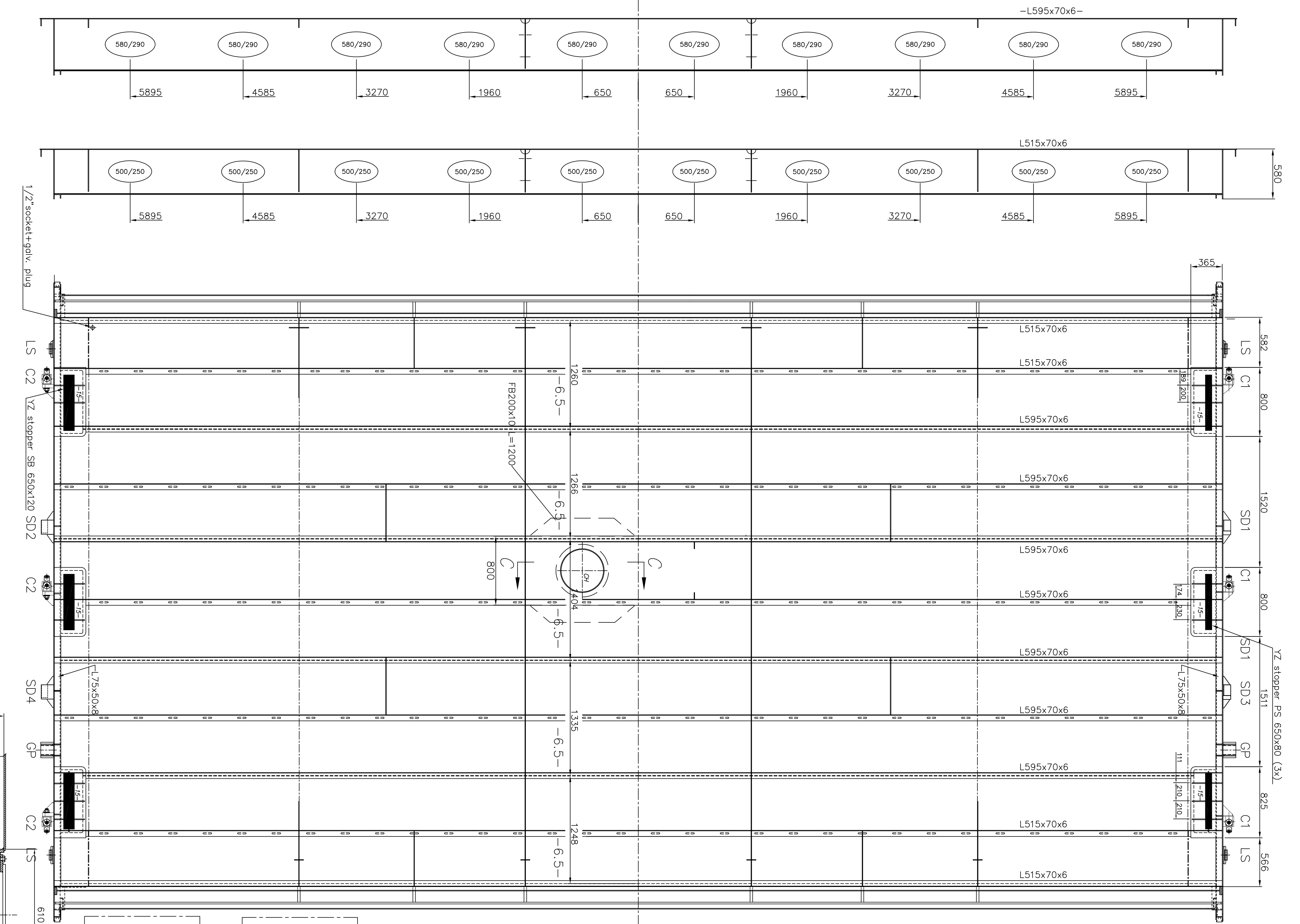
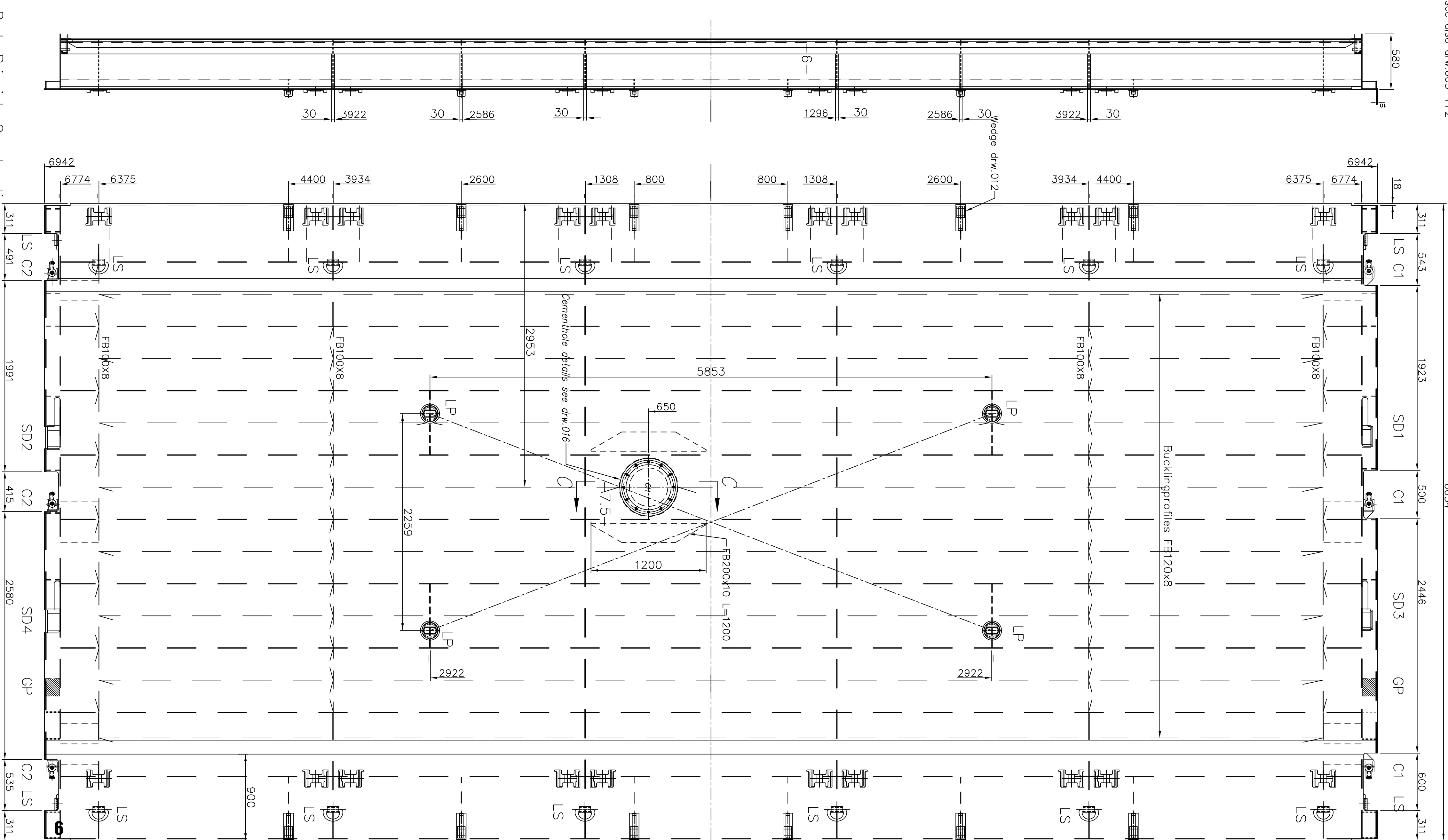


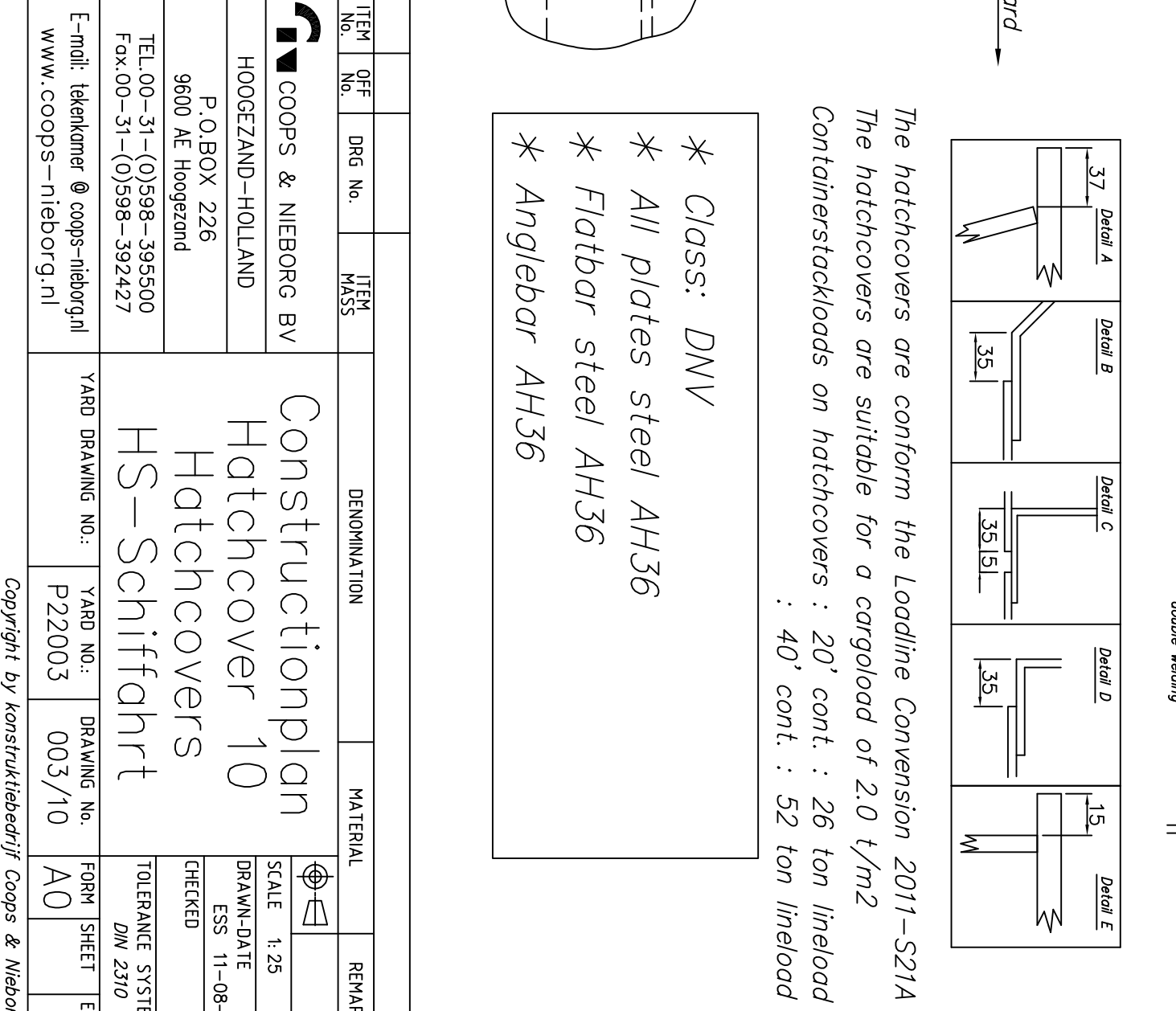
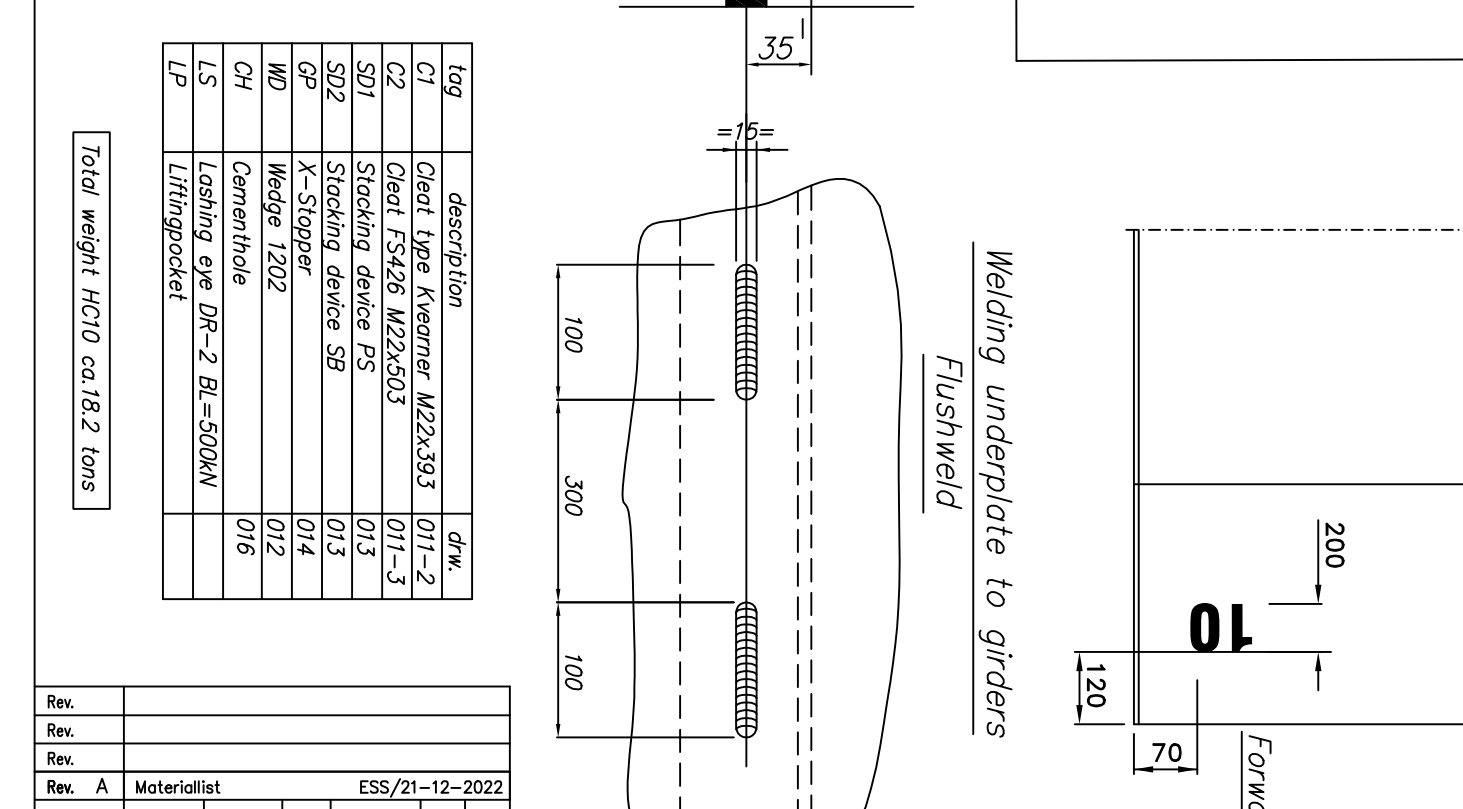
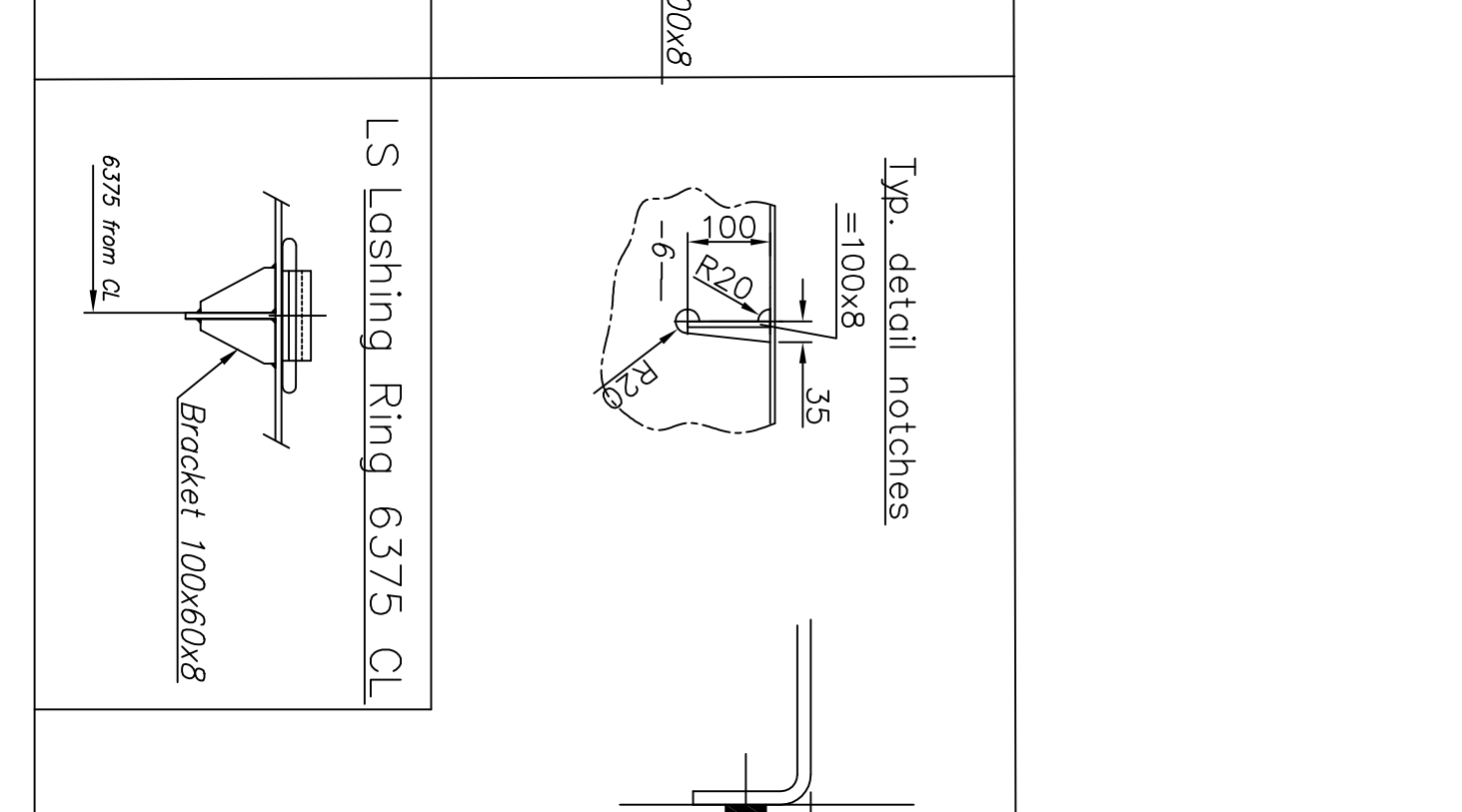
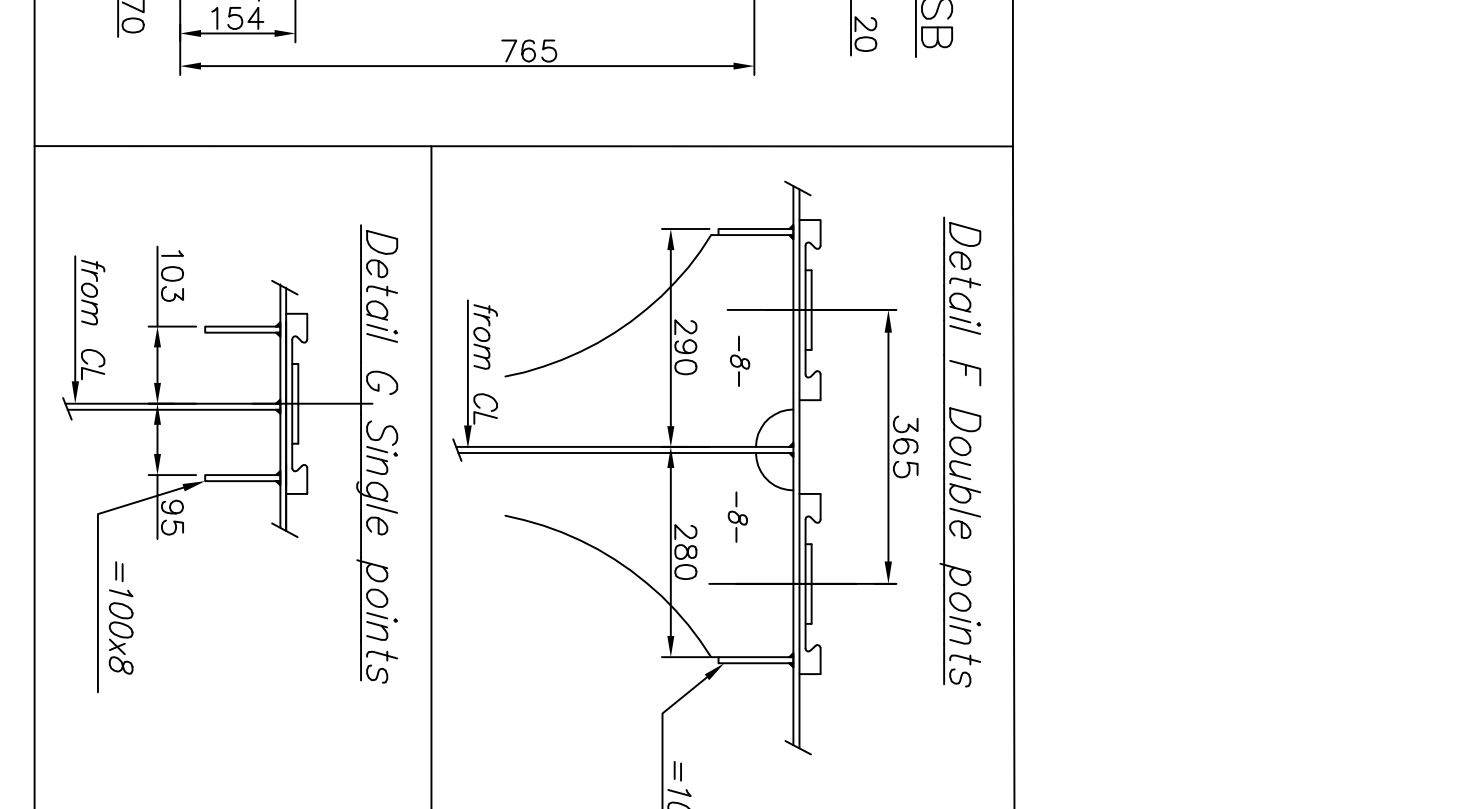
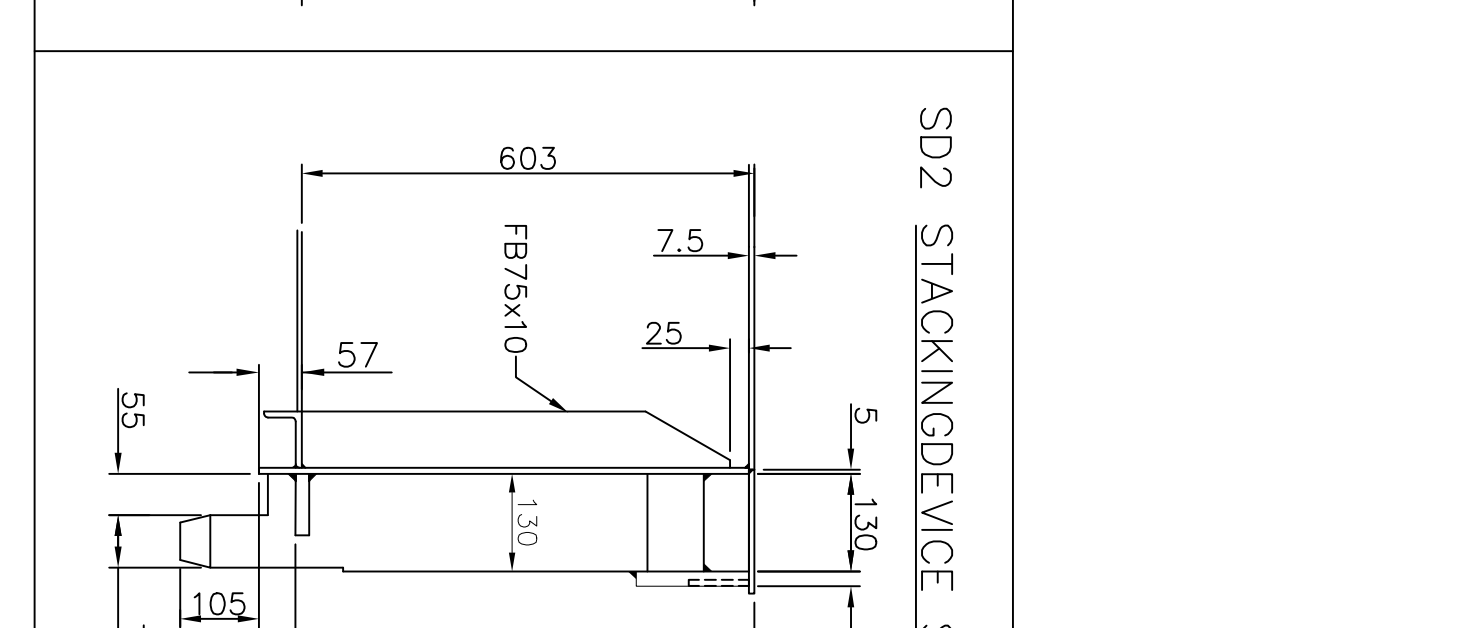
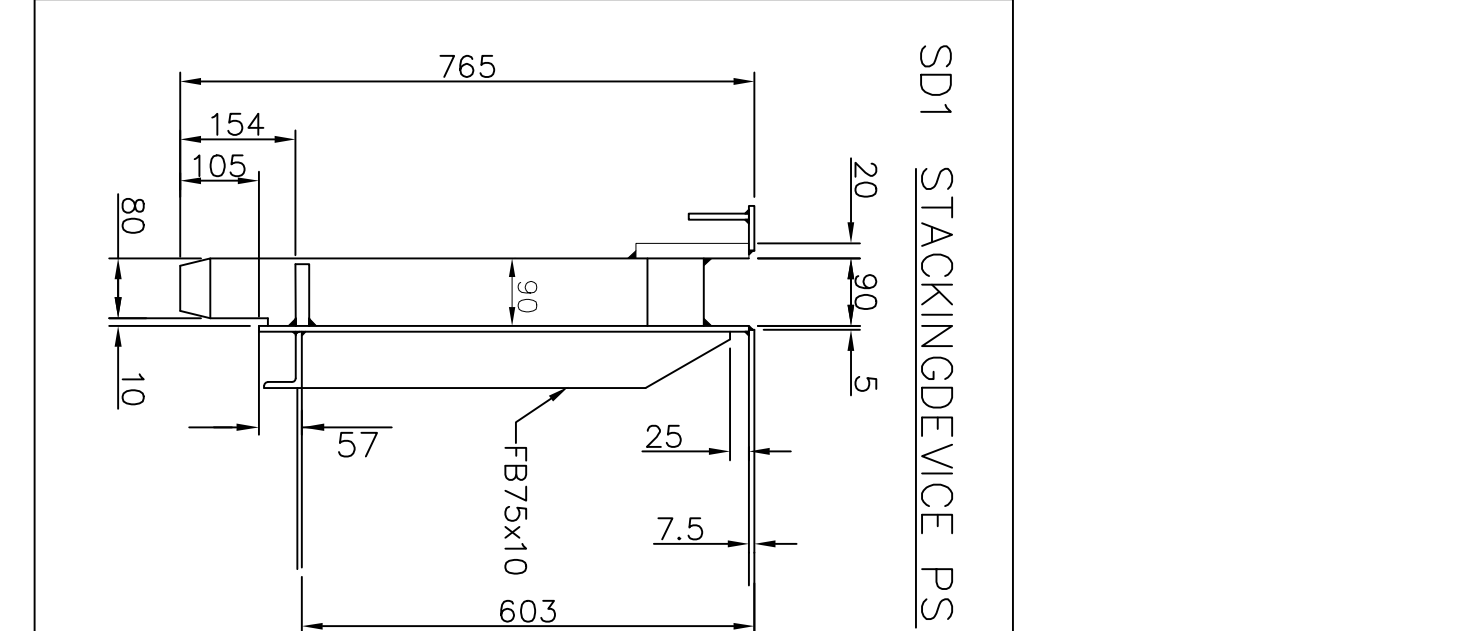
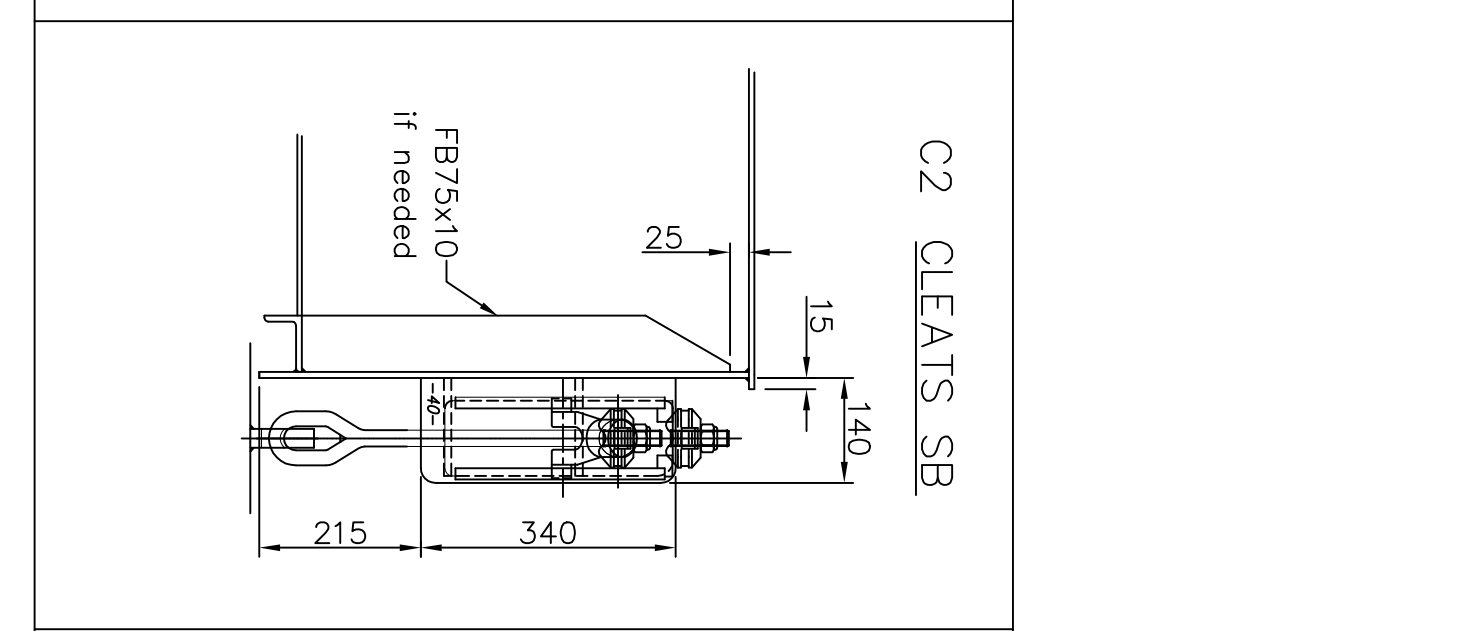
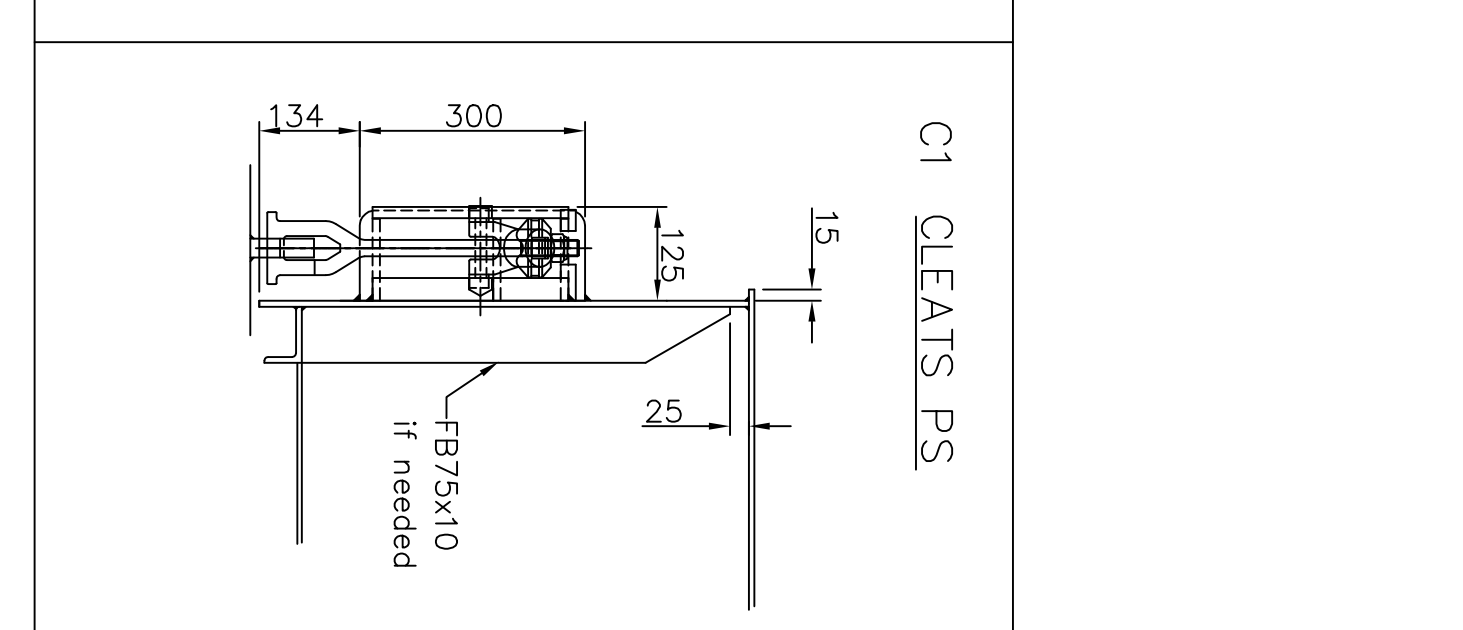
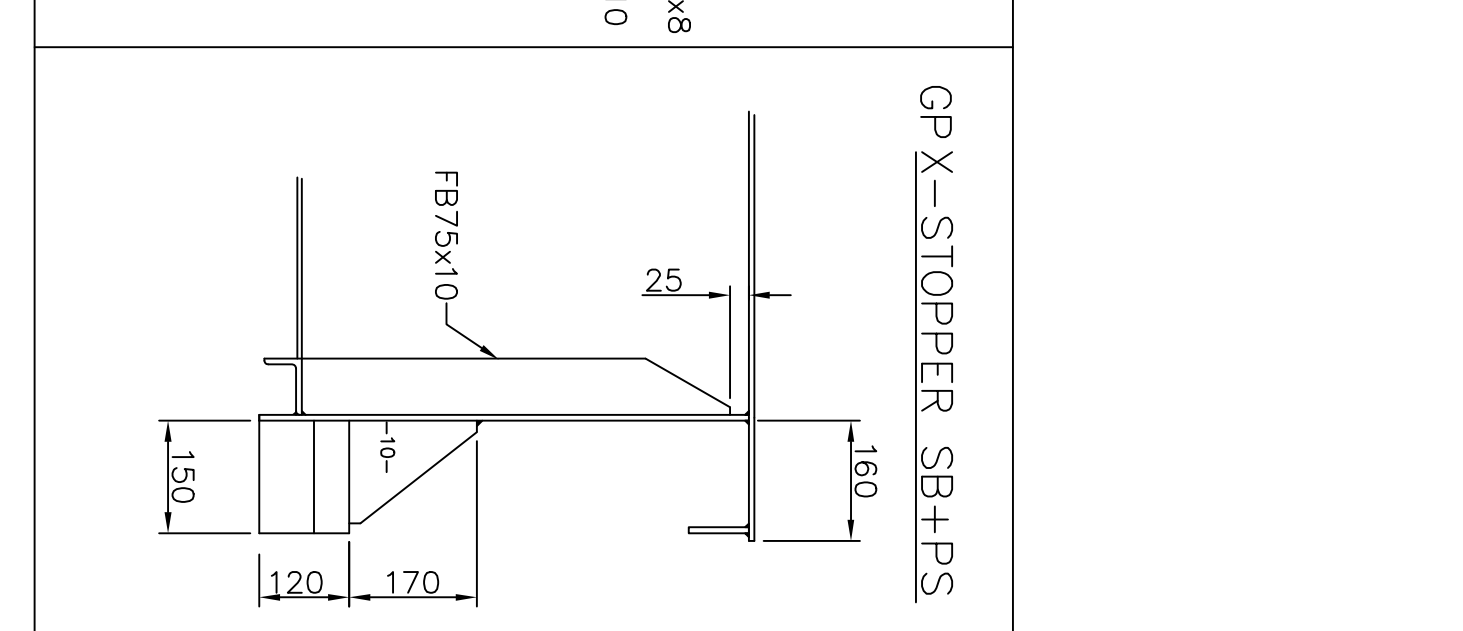
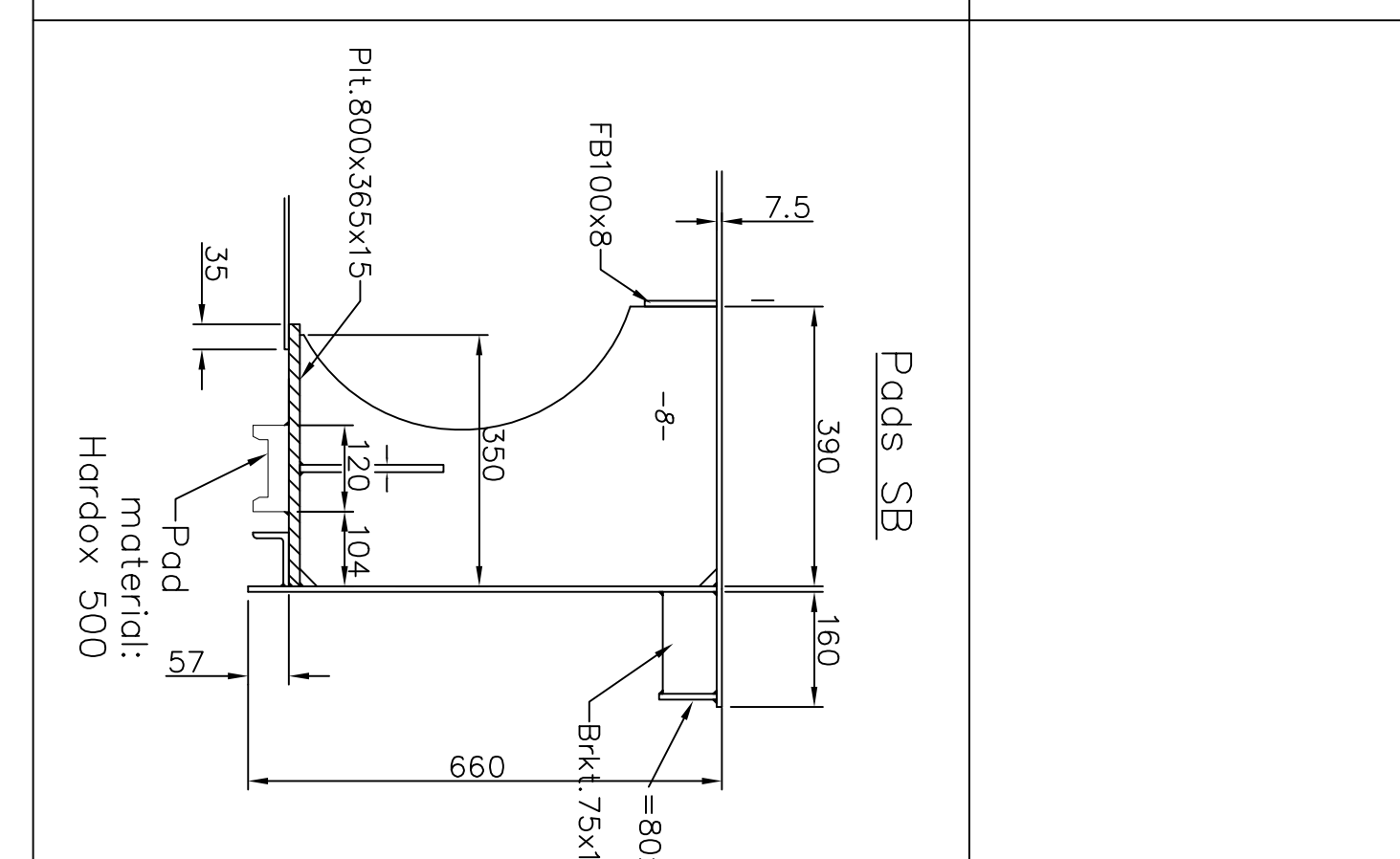
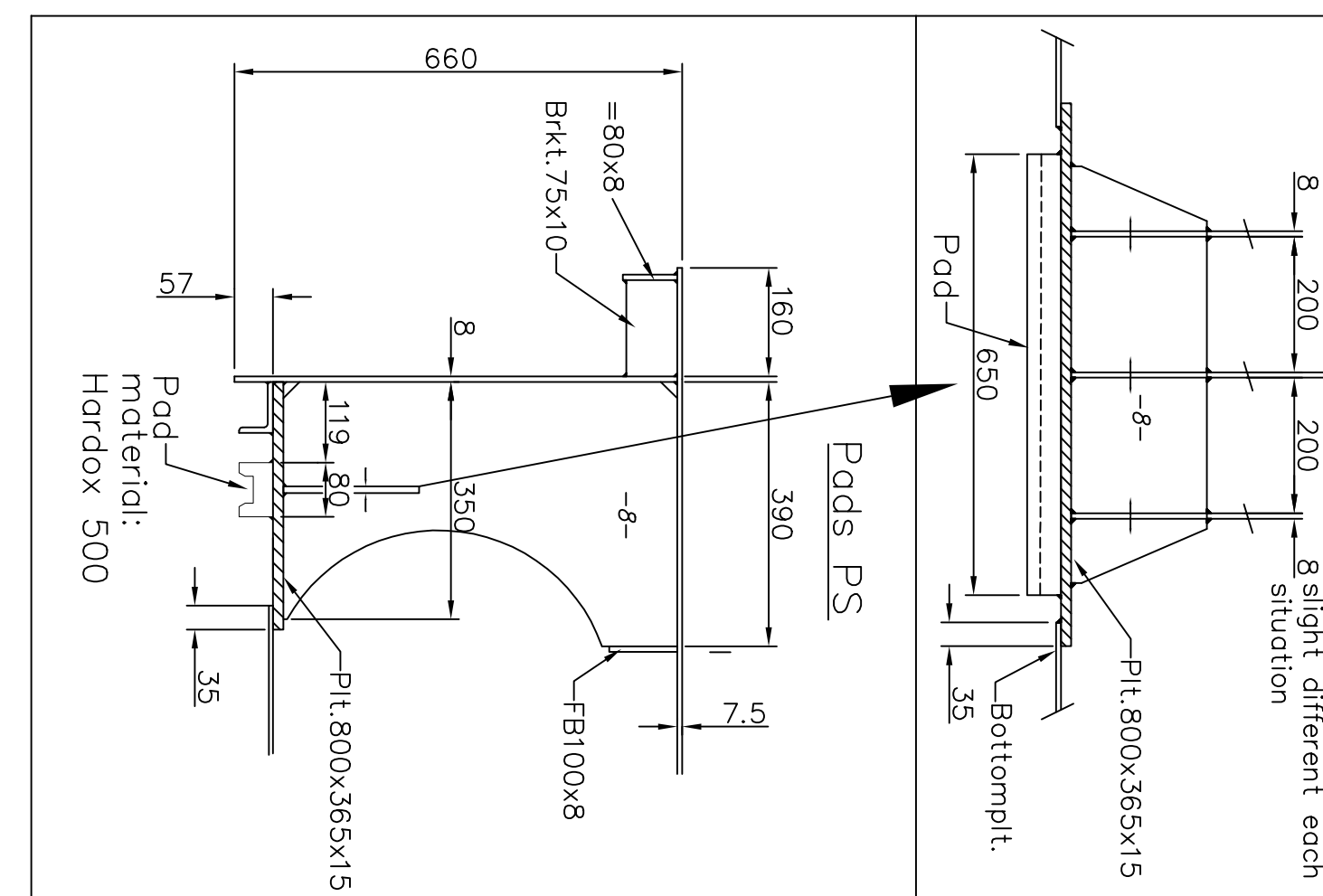
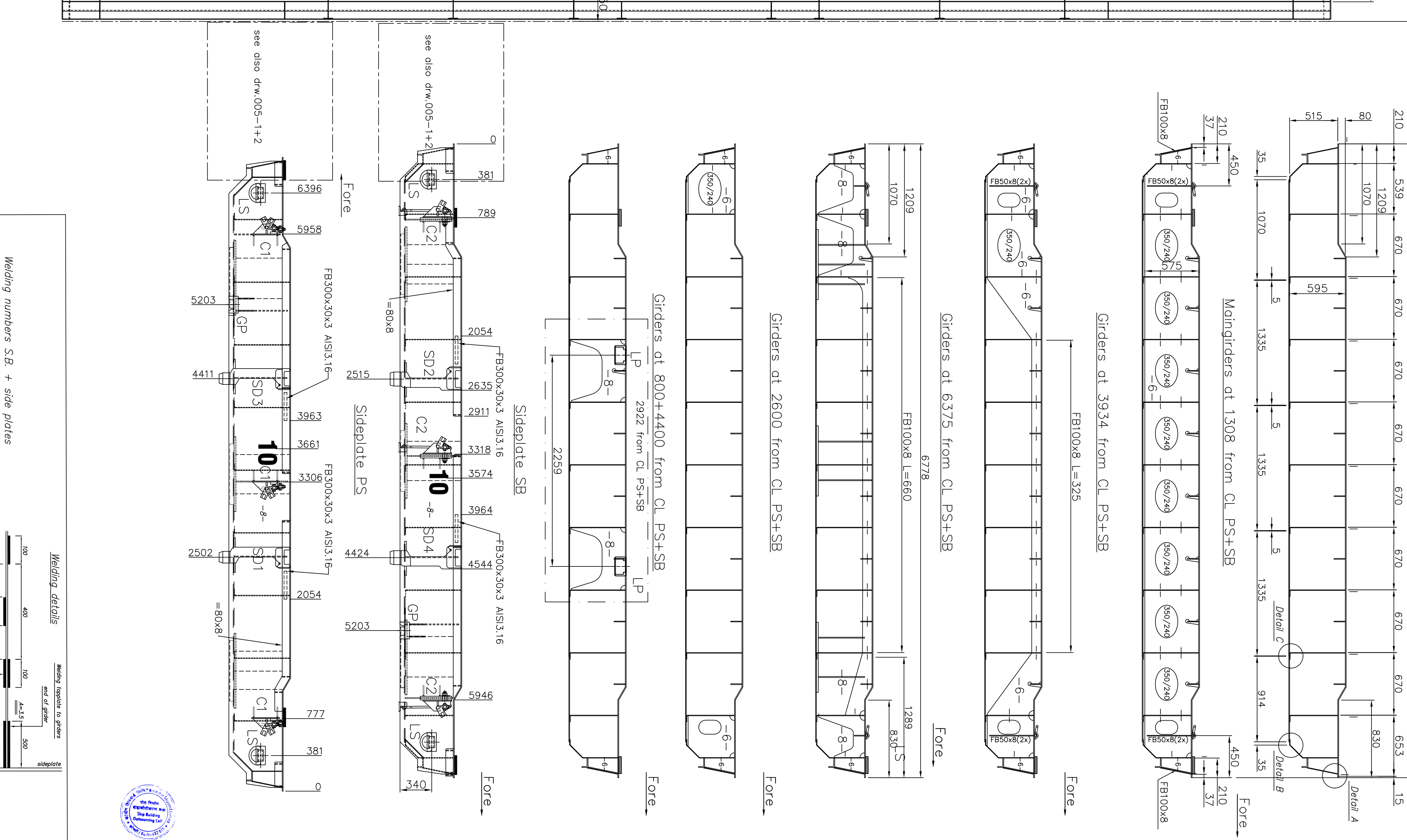
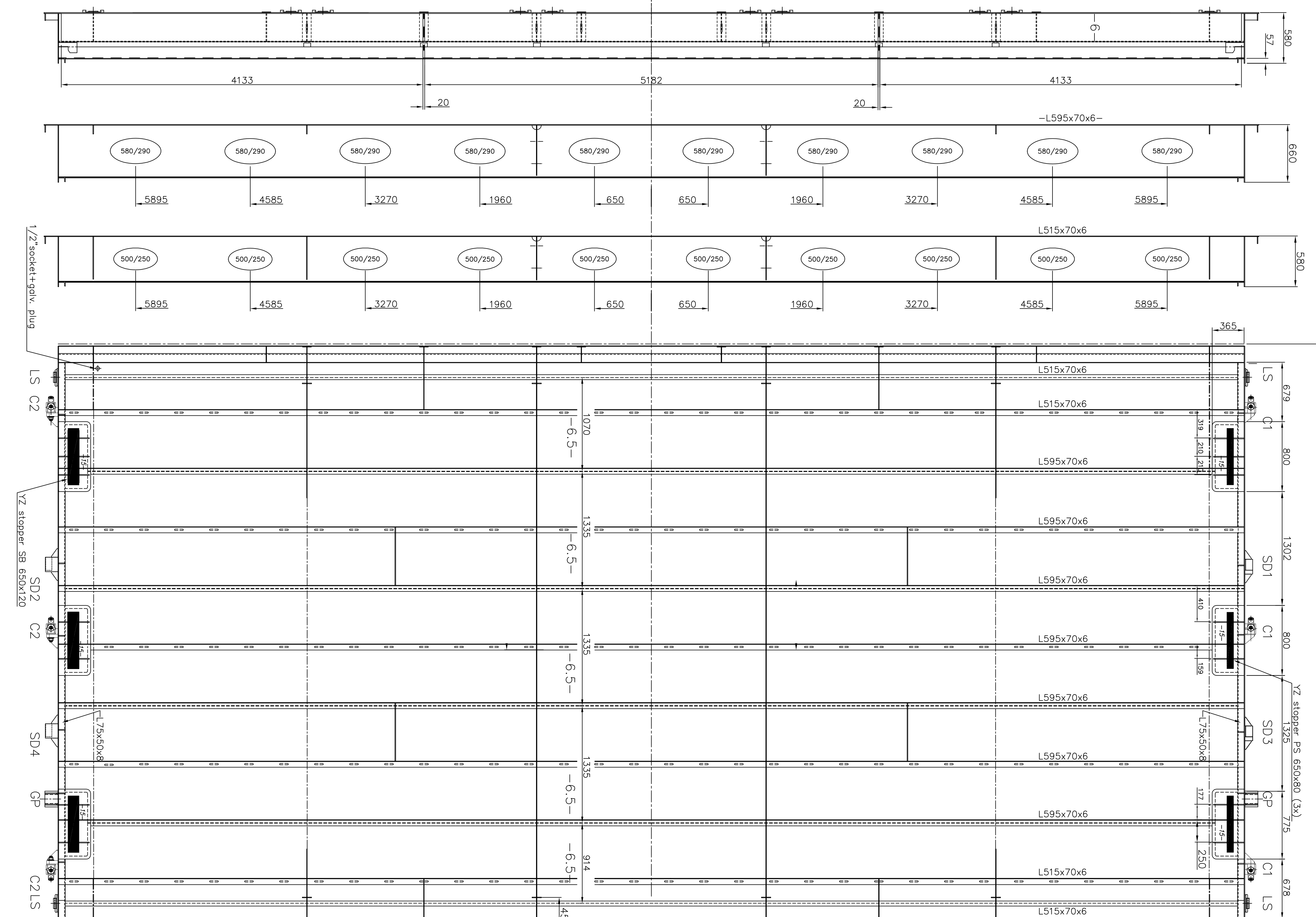
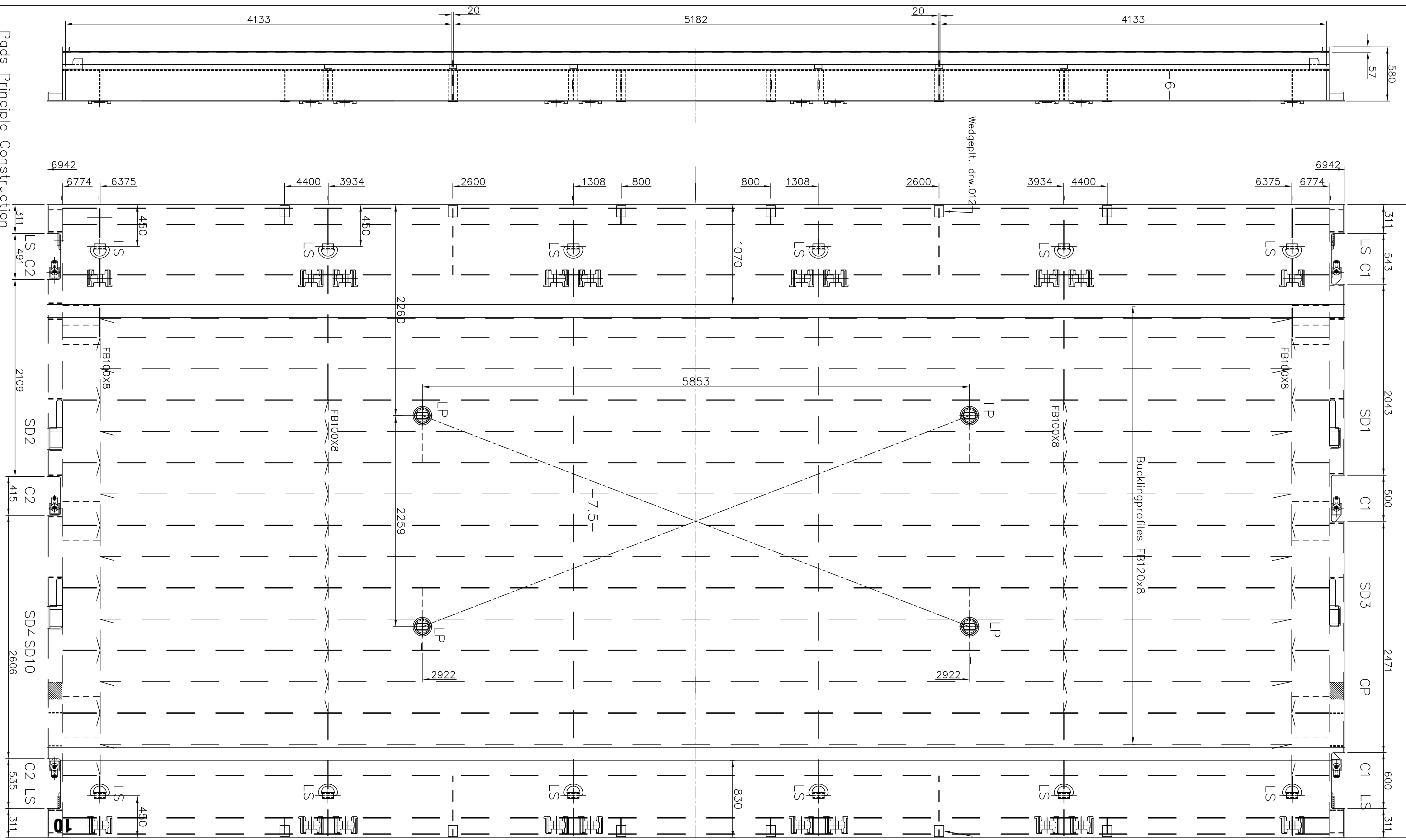


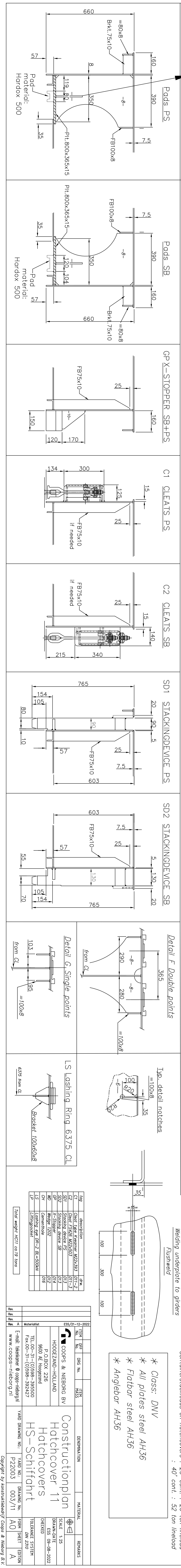
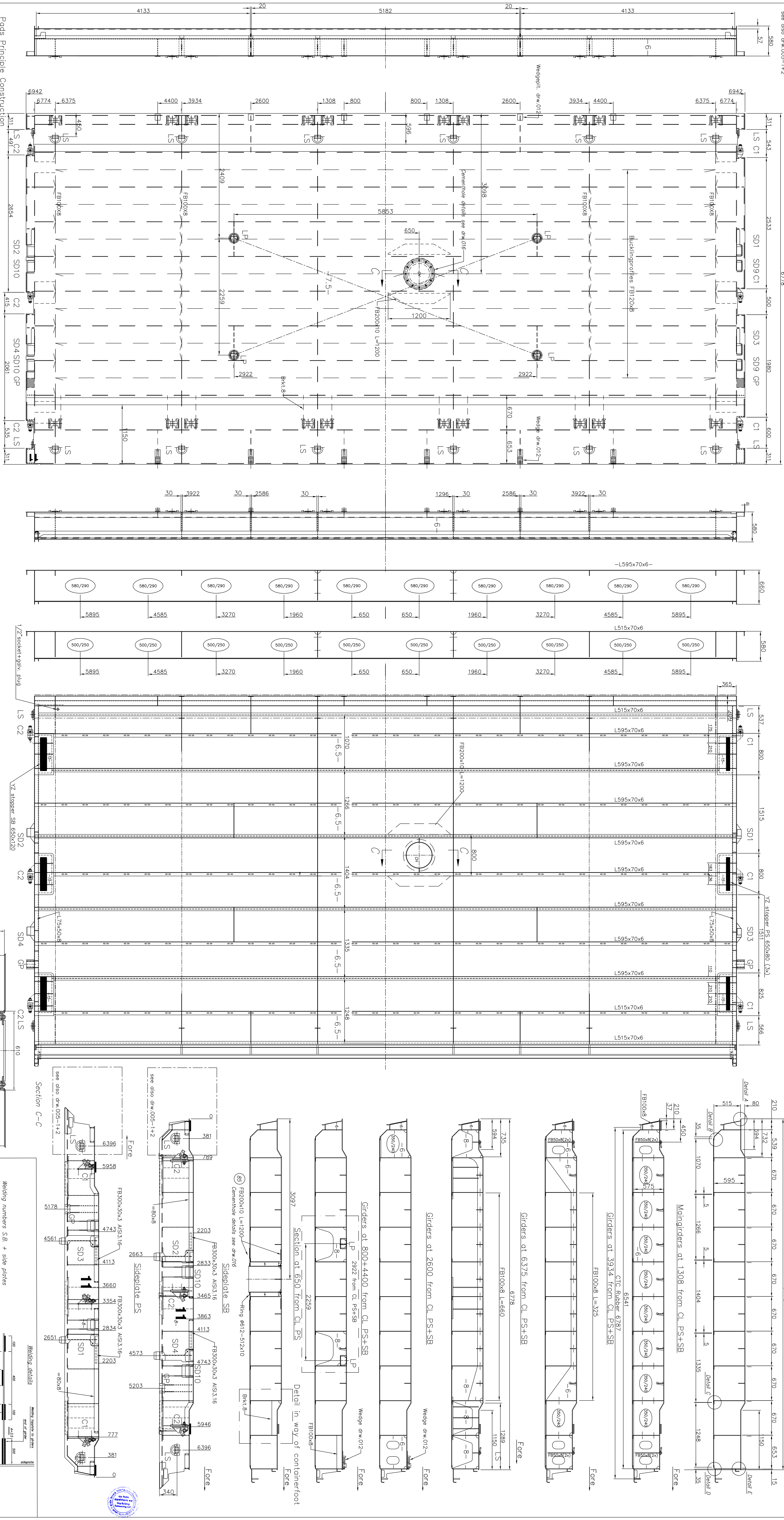


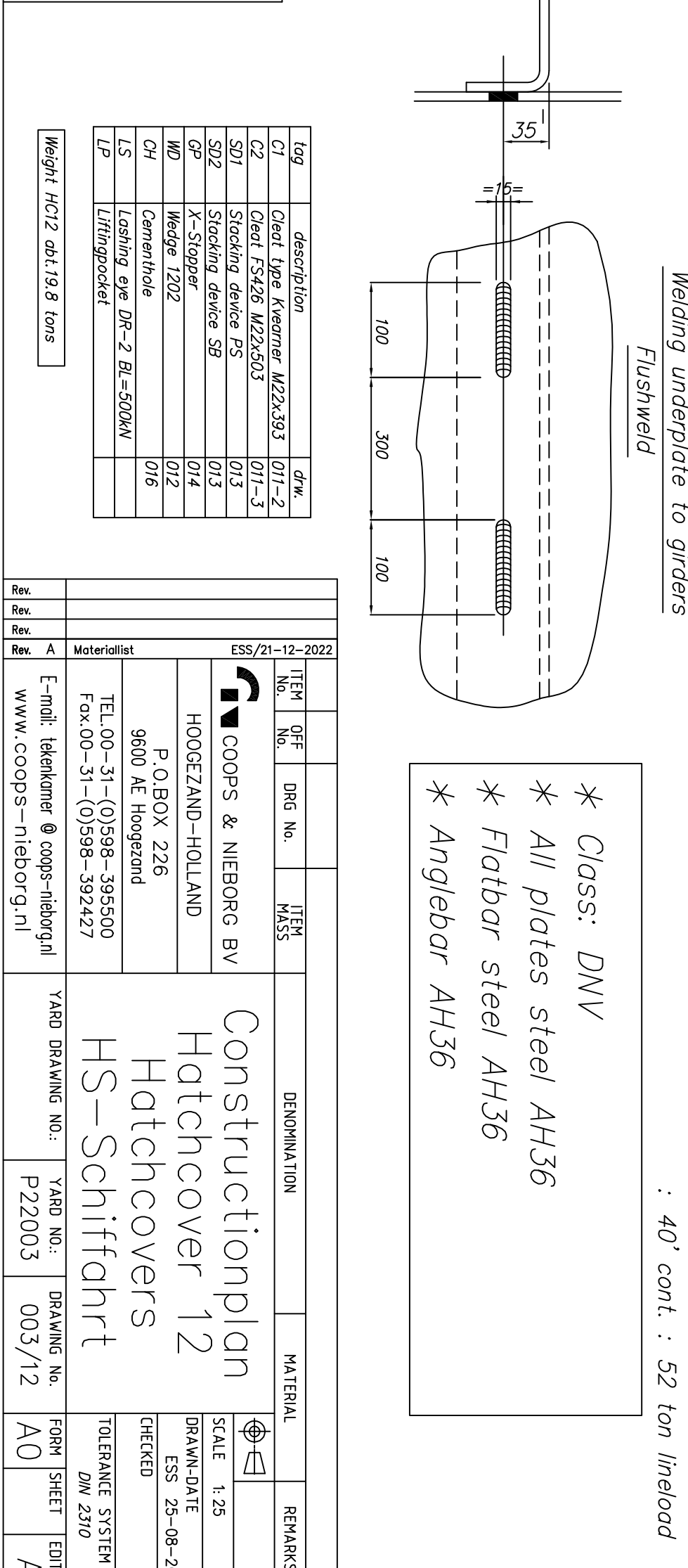
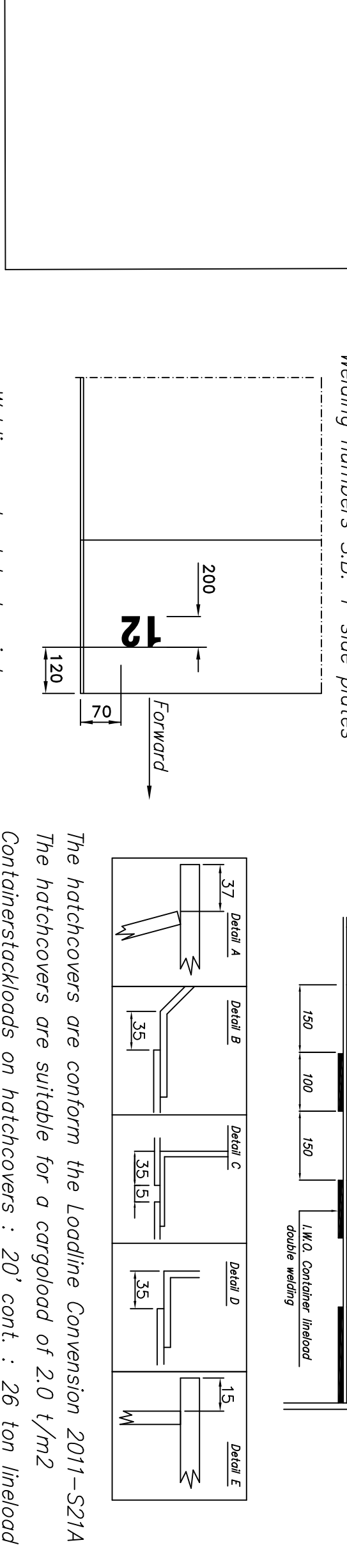
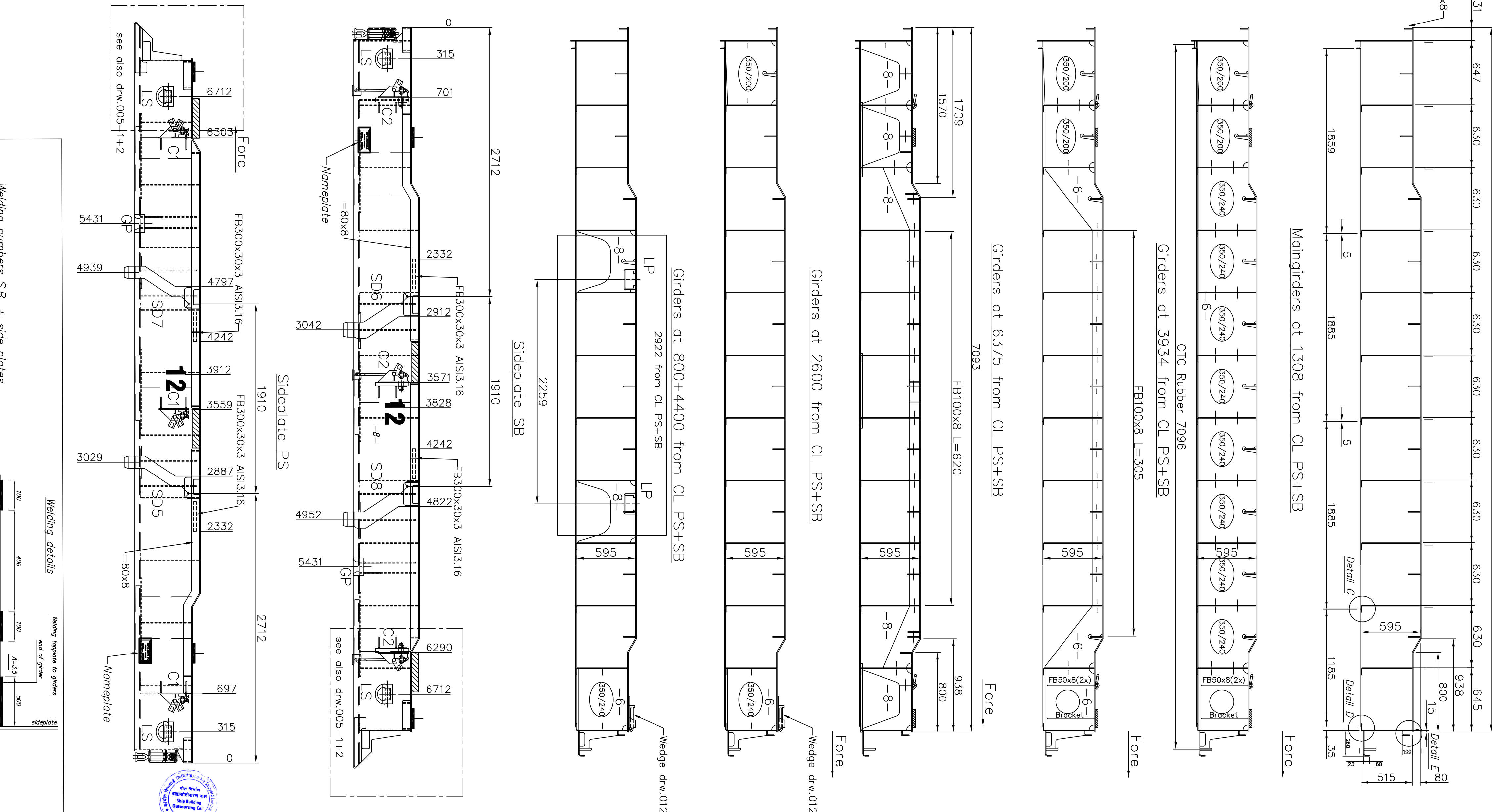




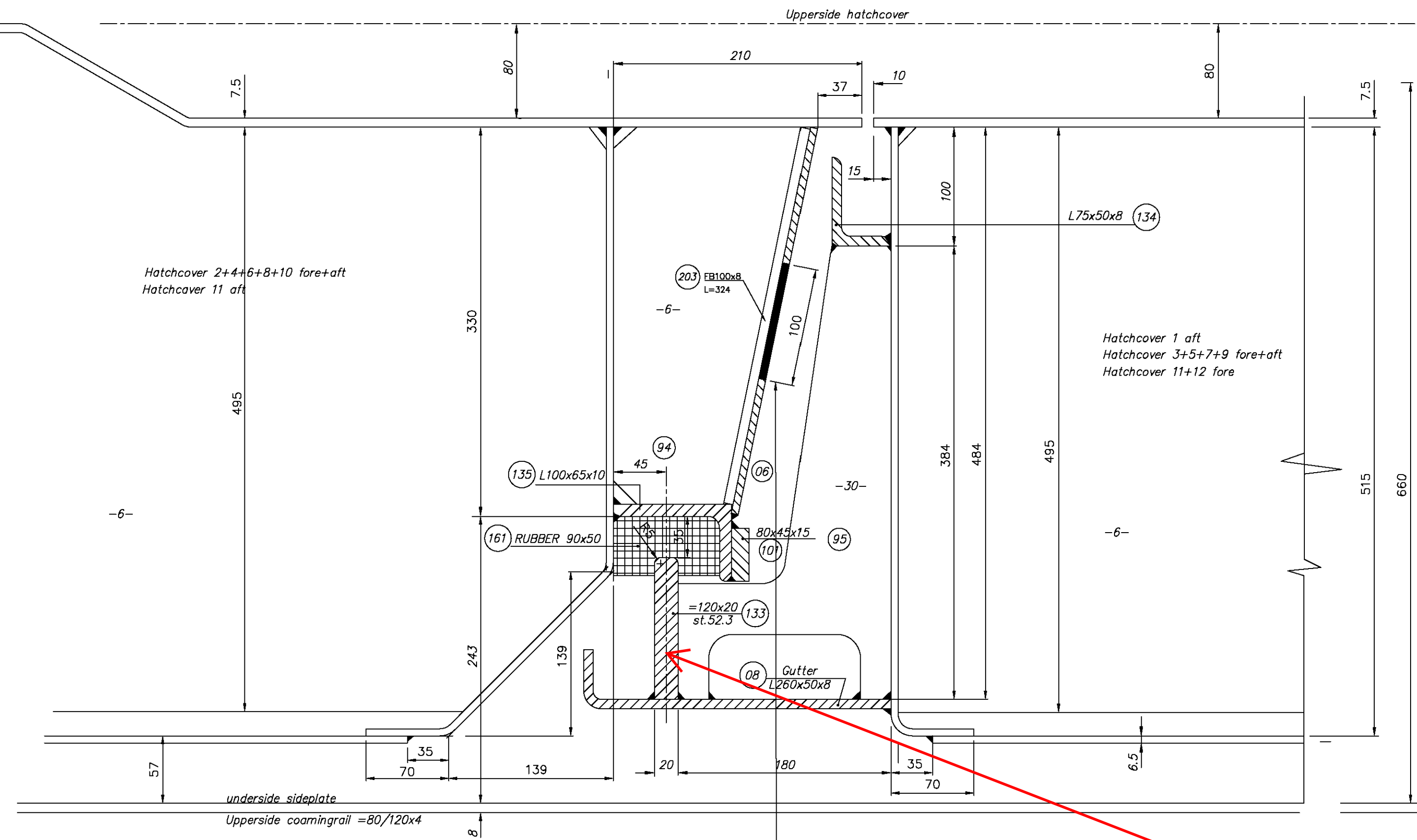




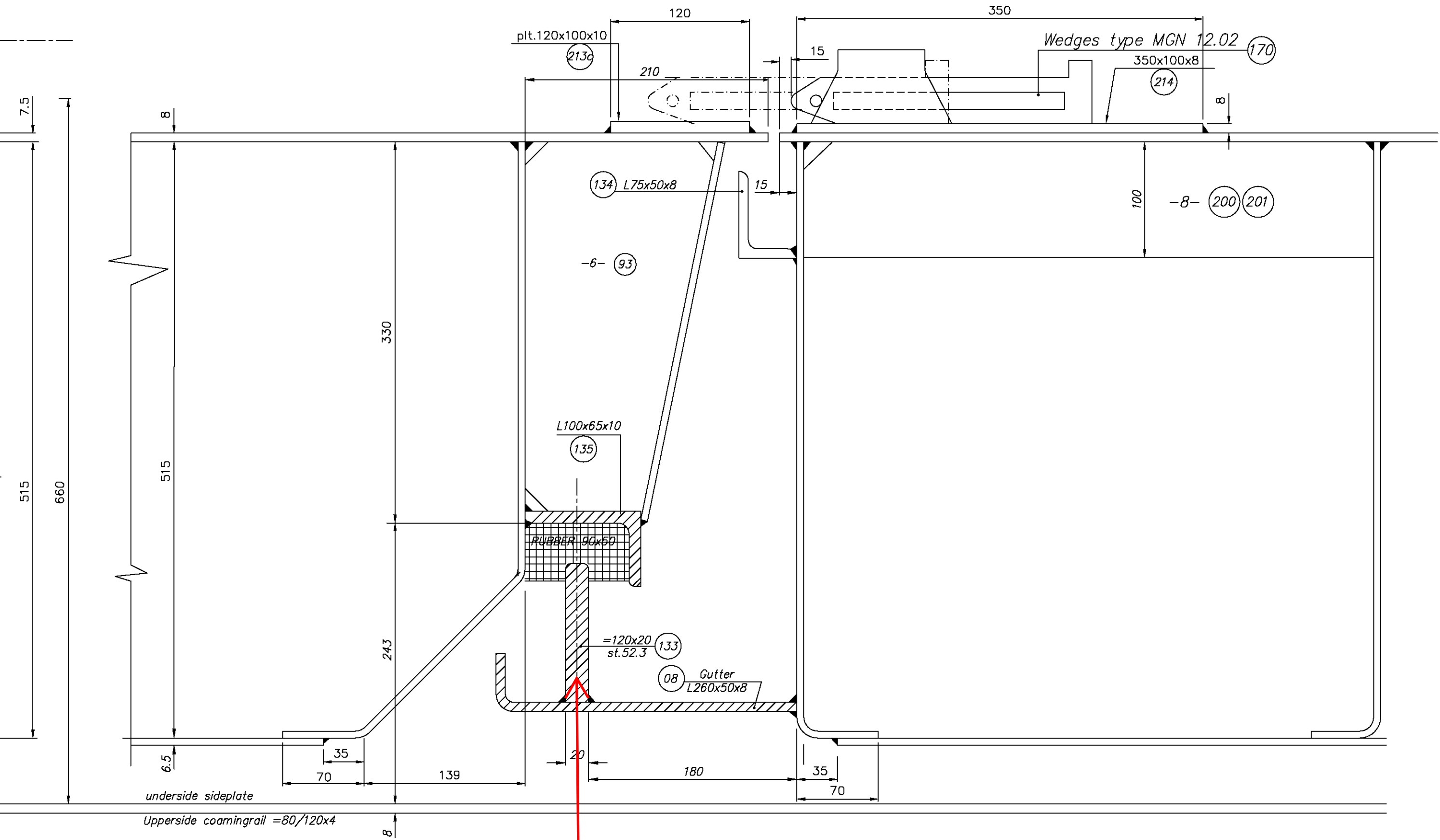




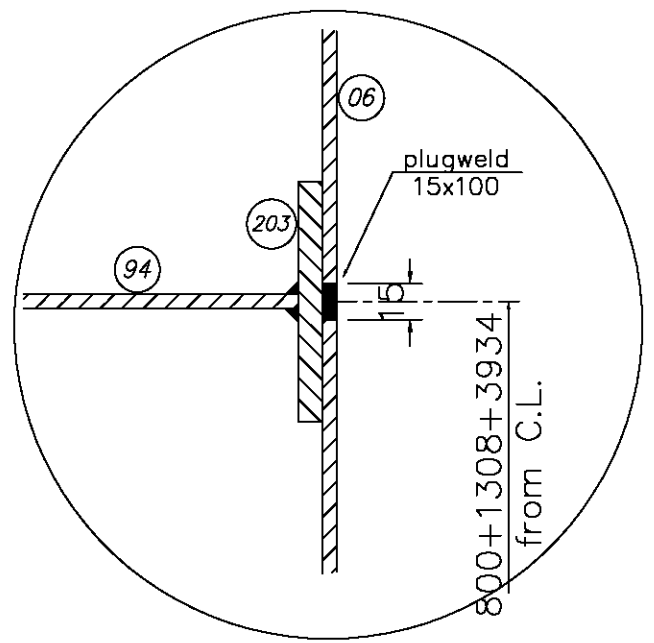
L.Girder : section at CL and 1308+2600+3934 from C.L.



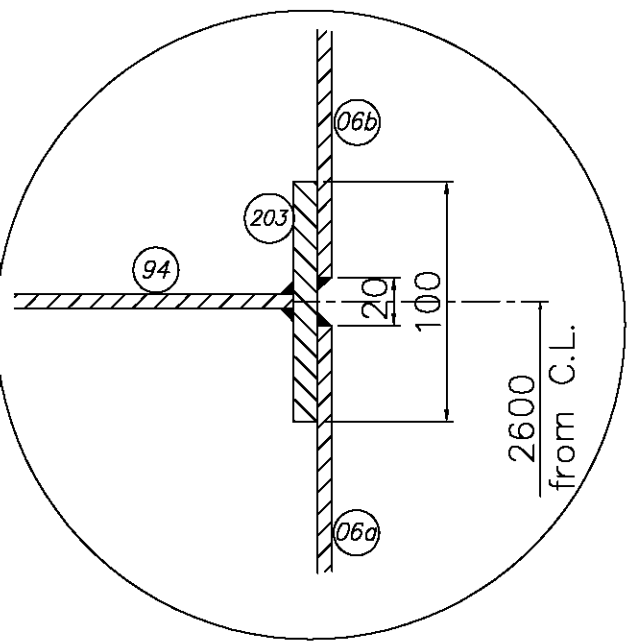
Section on 800+2600+4400 from C.L.



Section 800+1308+3934 from C.L.


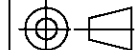


Section 2600 from C.L.



COMPRESSION BAR



ITEM No.	OFF No.	DRG No.	ITEM MASS	DENOMINATION		MATERIAL	REMARKS		
<div> COOPS & NIEBORG BV</div> <div>HOOGEZAND-HOLLAND</div> <div>P.O.BOX 226 9600 AE Hoogezand</div> <div>TEL.00-31-(0)598-395500 Fax.00-31-(0)598-392427</div>				Cross-sealing Hatchcovers HS-Shipping		<div></div> <div>SCALE 1: 2</div> <div>DRAWN-DATE ESS 30-8-2022</div> <div>CHECKED</div> <div>TOLERANCE SYSTEM DIN 2310</div>			
Rev.	E-mail: tekenkamer @ coops-nieborg.nl www.coops-nieborg.nl			YARD DRAWING NO.:	YARD NO.: P22003	DRAWING No. 005/1	FORM A1	SHEET	EDITION

mat. S355J0

Detail D

100

333

319

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120

1:10

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355J0

Detail E

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-30-

Technical drawing of a mechanical part. The main view shows a rectangular block with a total length of 274, a top width of 21, and a bottom width of 40. The height is 50. A 4-unit wide section is indicated on the right. A side view shows a 75-unit wide flange and a 6-unit thick section.

[illegible]

Section A-A
without closing hatchcover

Dimensions and features shown in the section view:

- Overall width: 380
- Height from base to top edge: 100
- Horizontal distance from left face to centerline: 70
- Horizontal distance from centerline to right face: 40
- Vertical distance from base to centerline: 135
- Feature labels: -8-, -10-, -20- (107)
- Note: "close gap with f.b. 10x6 and welding"
- Callout (171) points to "End-pad CNCAT08"

Sideview without sideplate

Hatchcover 2+4+6+8+10 fore+aft
Hatchcover 11 aft

Note: fill gap in corner with extra rubber

161 rubber 90x50

162 Corner-piece CNCAT06

163 Catprofile 71x67

171 End-pad CNCATOR

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Technical drawing of a window frame assembly. The drawing shows a cross-section of the frame with various dimensions and components labeled.

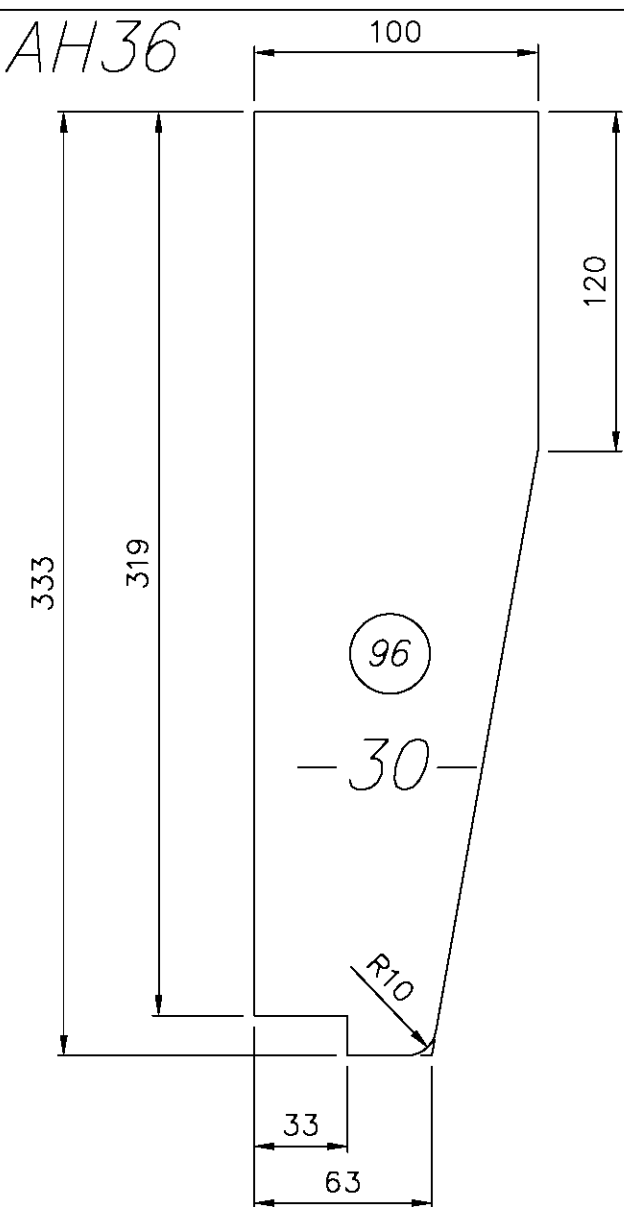
Dimensions:

- Overall width: 210
- Overall height: 117
- Top left corner: 8 (width), 109 (height)
- Top left corner detail: 30 (width), 9 (height)
- Left side: 46 (height), 5 (width)
- Bottom left corner: 100 (width), 20 (height)
- Bottom right corner: 65 (height), 81 (width), 30 (width)
- Bottom right corner detail: 20 (width), 81 (width)
- Bottom right corner detail: 270x120x22 (thickness)
- Bottom right corner detail: Ø8 (hole diameter)
- Bottom right corner detail: 157 (width)
- Bottom right corner detail: 135 (width)

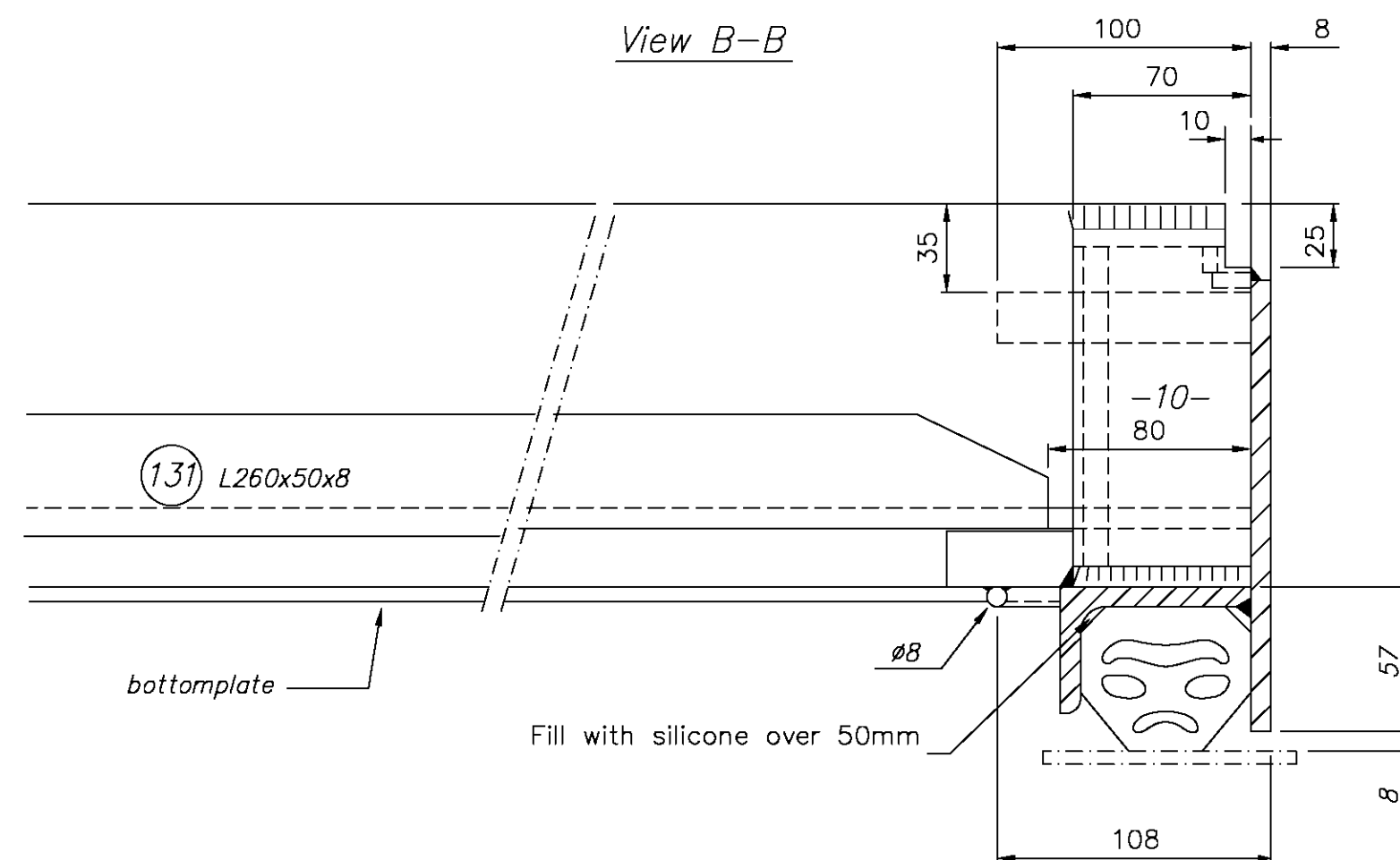
Components and Labels:

- 6- (Label)
- 06 (Label)
- 108 (Label)
- 20- (Label)
- 107 (Label)
- 109 (Label)
- Ø8 (Label)
- 157 (Label)
- 135 (Label)

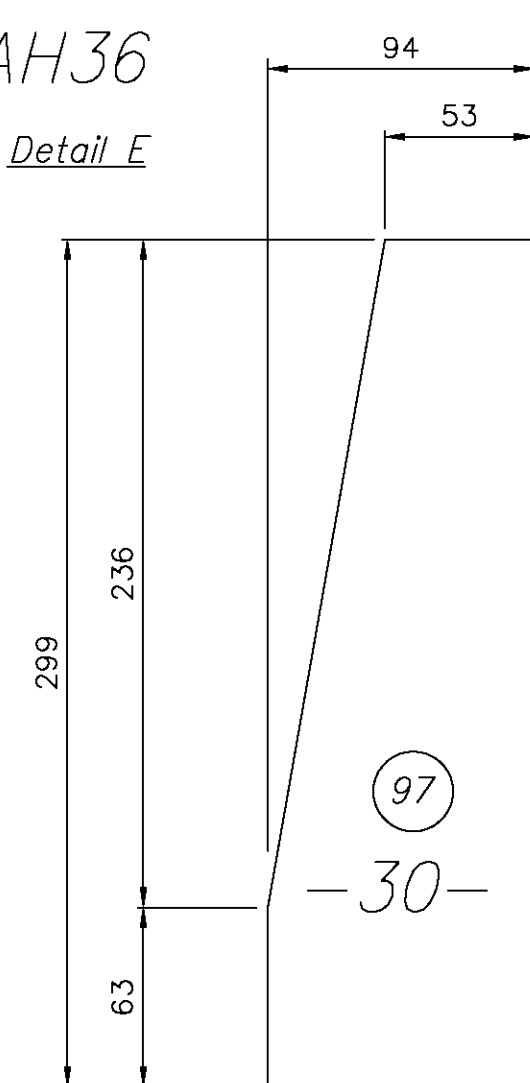
Copyright by konstruktiebedrijf Coops & Nieborg B.V.

Detail D

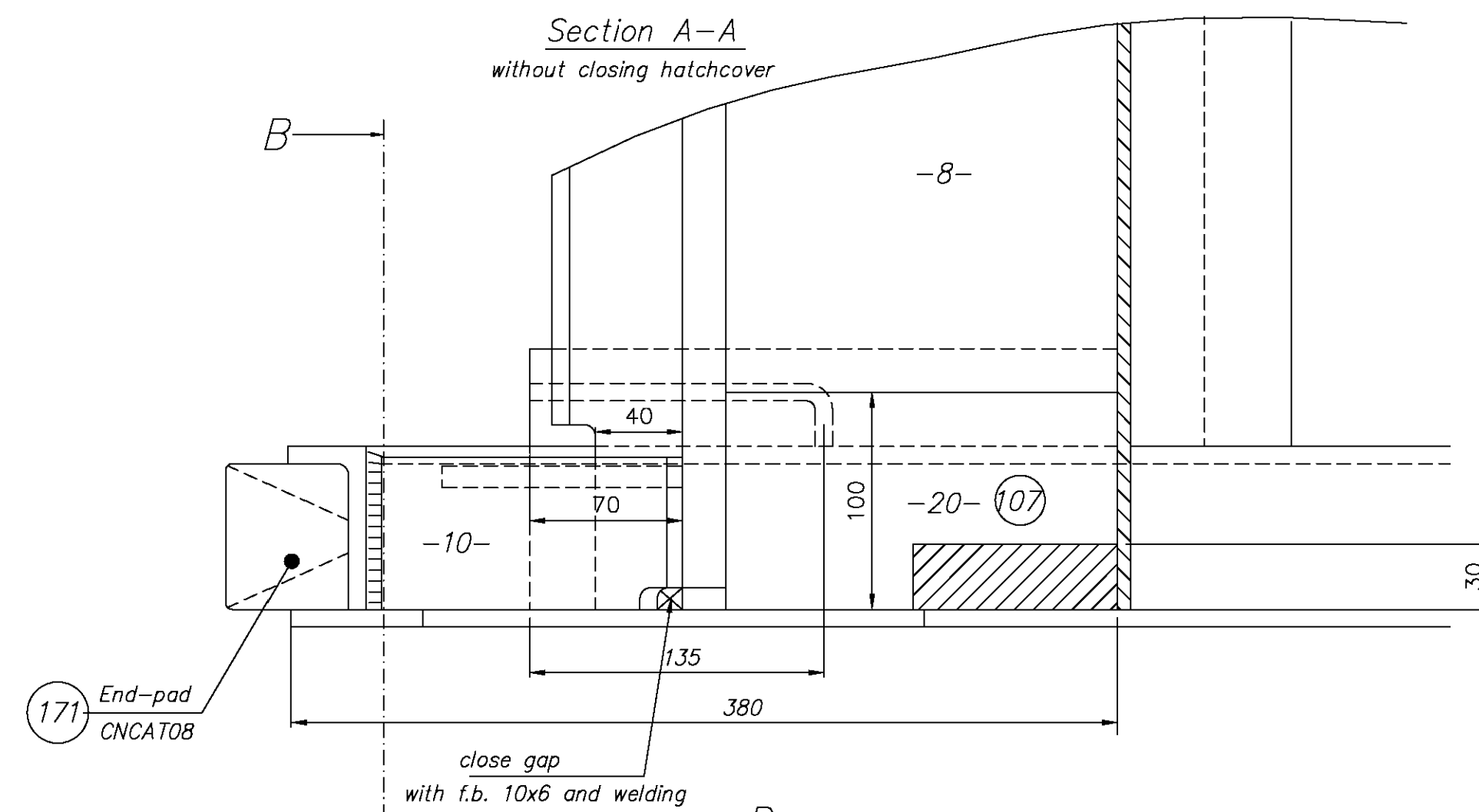
View B-B



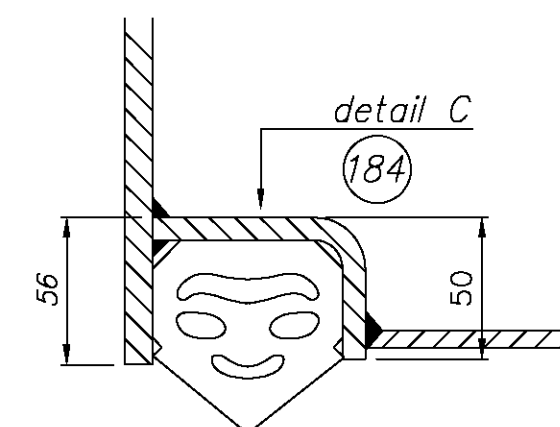
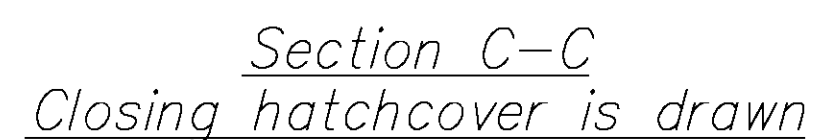
Detail E



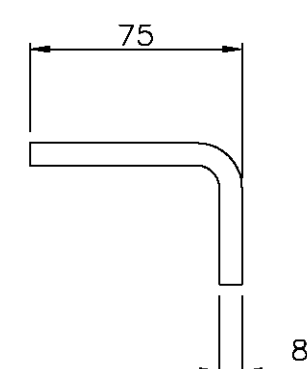
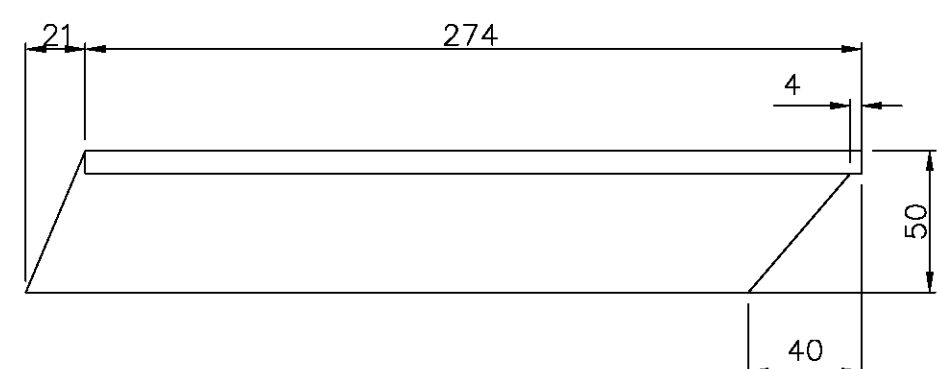
Section A-A
without closing hatchcover



Sideview without sideplate



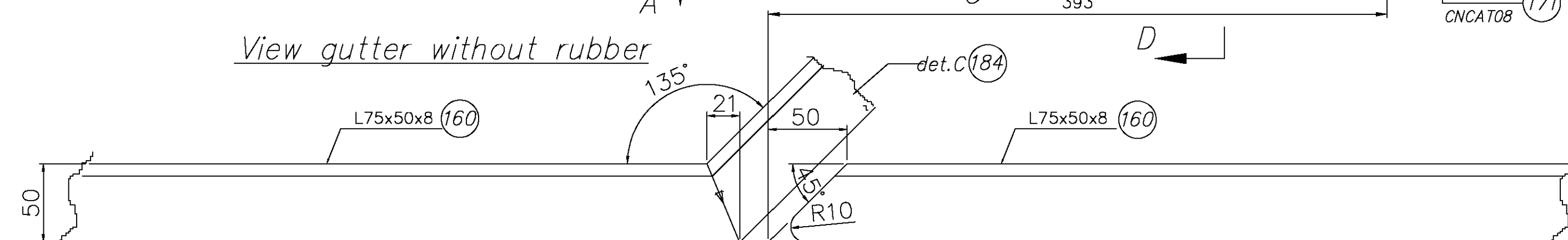
Detail C (184)



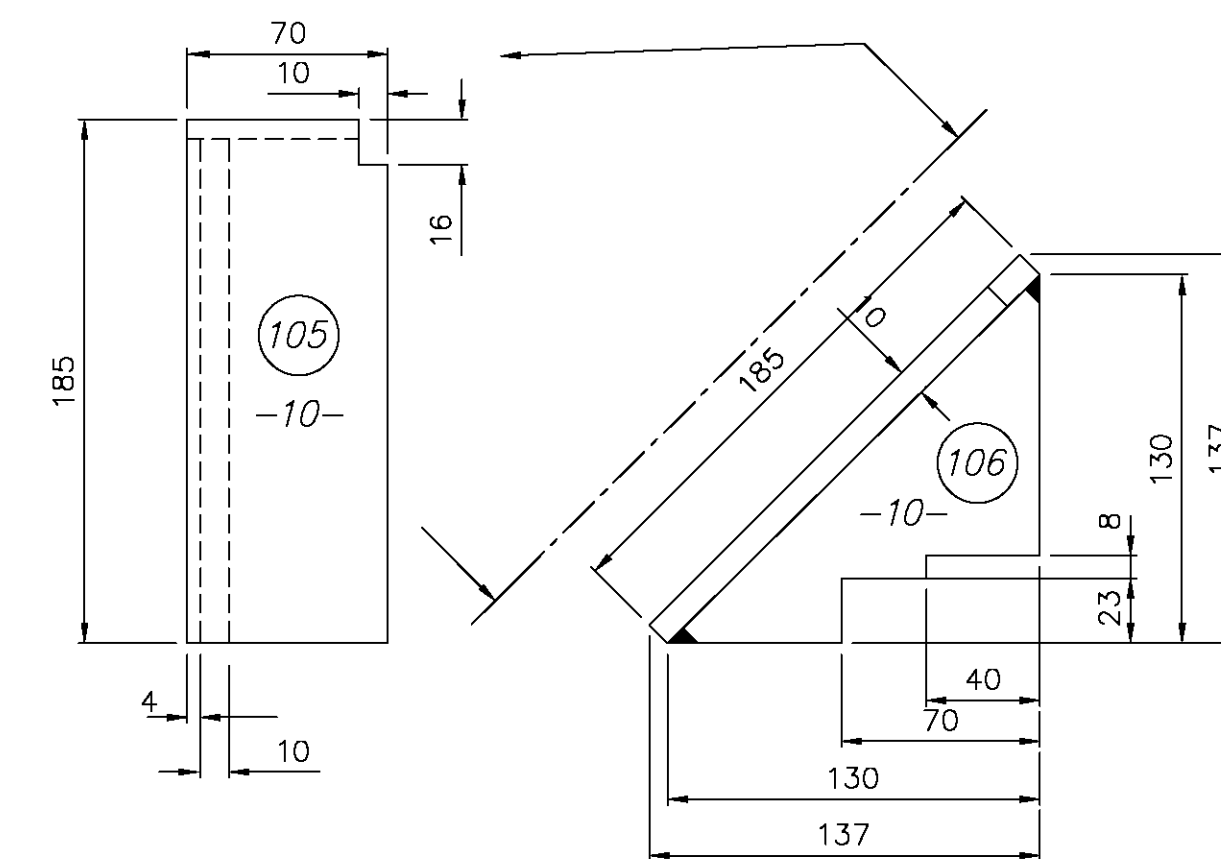
underside sideplate

Upperside coaming rail = 80/120x4 —

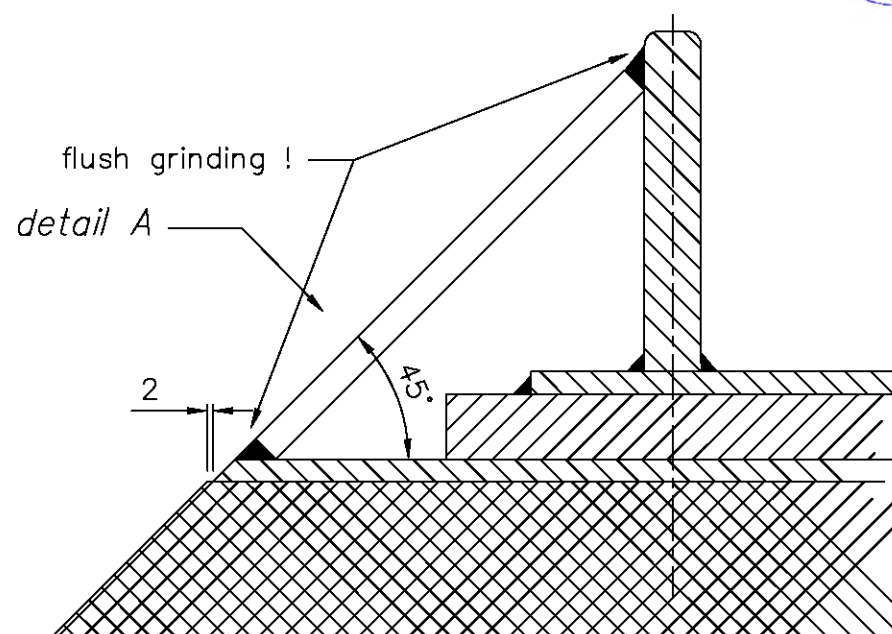
View gutter without rubber



Detail A

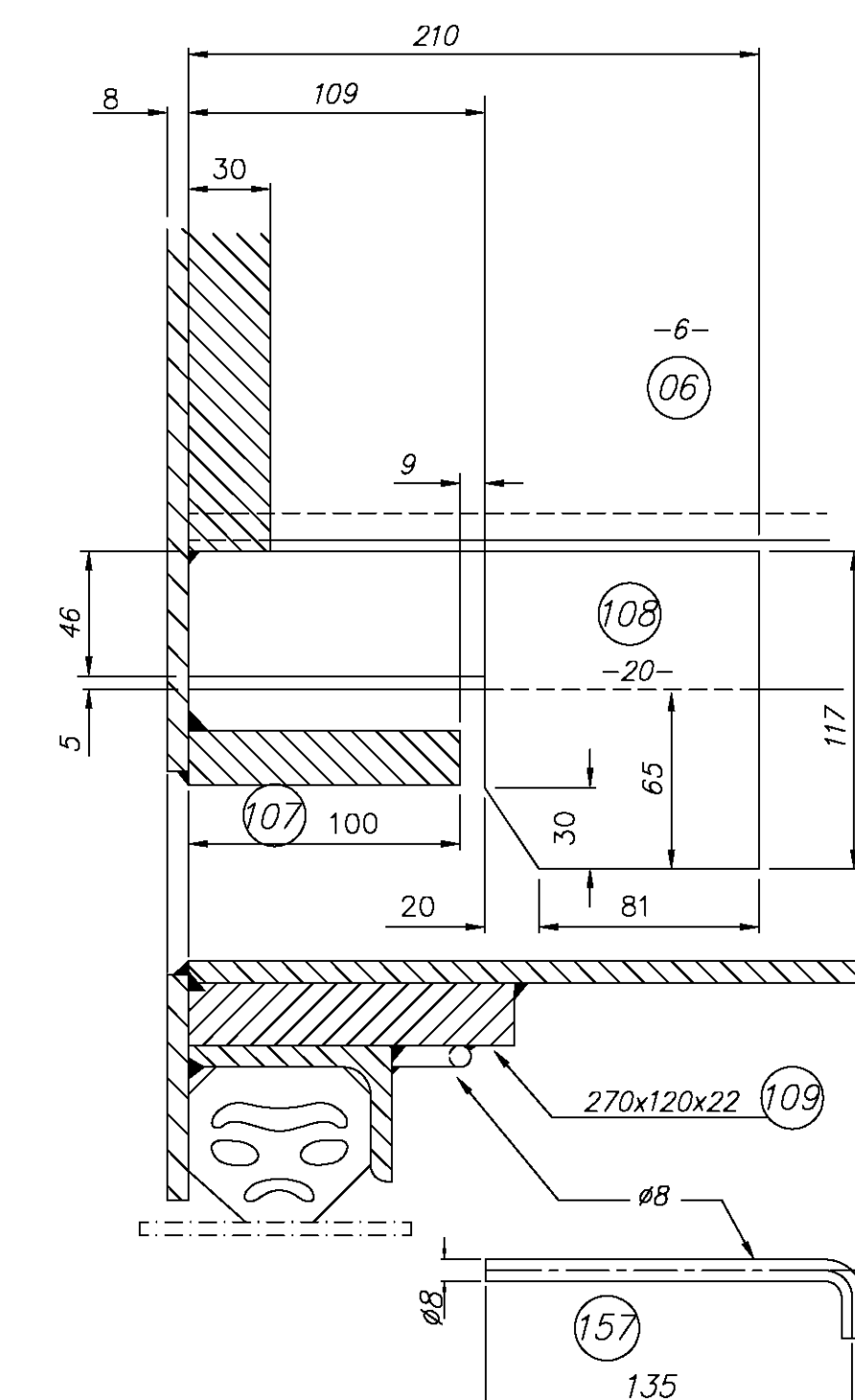




flush grinding ! —
see detail A —



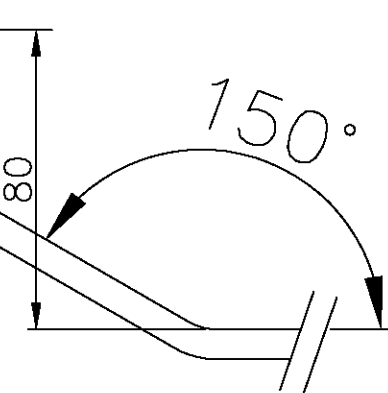
Detail endpad rubber (171)

Section D-D





ITEM No.	OFF No.	DWG No.	DENOMINATION	DIMENSION		MATERIAL	REMARKS
08/25/2023	 COOPS & NIEBORG BV			Edge Sealing Hatchcovers			SCALE 1:2
	HOOGEZAND-HOLLAND						DRAWN-DATE
	P.O.BOX 226						ESS 30-8-2022
	9600 AE Hoogezand						CHECKED
	TEL. 00-31-(0)598-395500 Fax. 00-31-(0)598-392427						TOLERANCE SYSTEM DIN 2310
Mr. A. Muralidhar	E-mail: tekeningam@coops-nieborg.nl www.coops-nieborg.nl			YARD DRAWING NO.:	YARD NO.:	DRAWING NO.	FORM SHEET
				P22003	005/2	A1	A

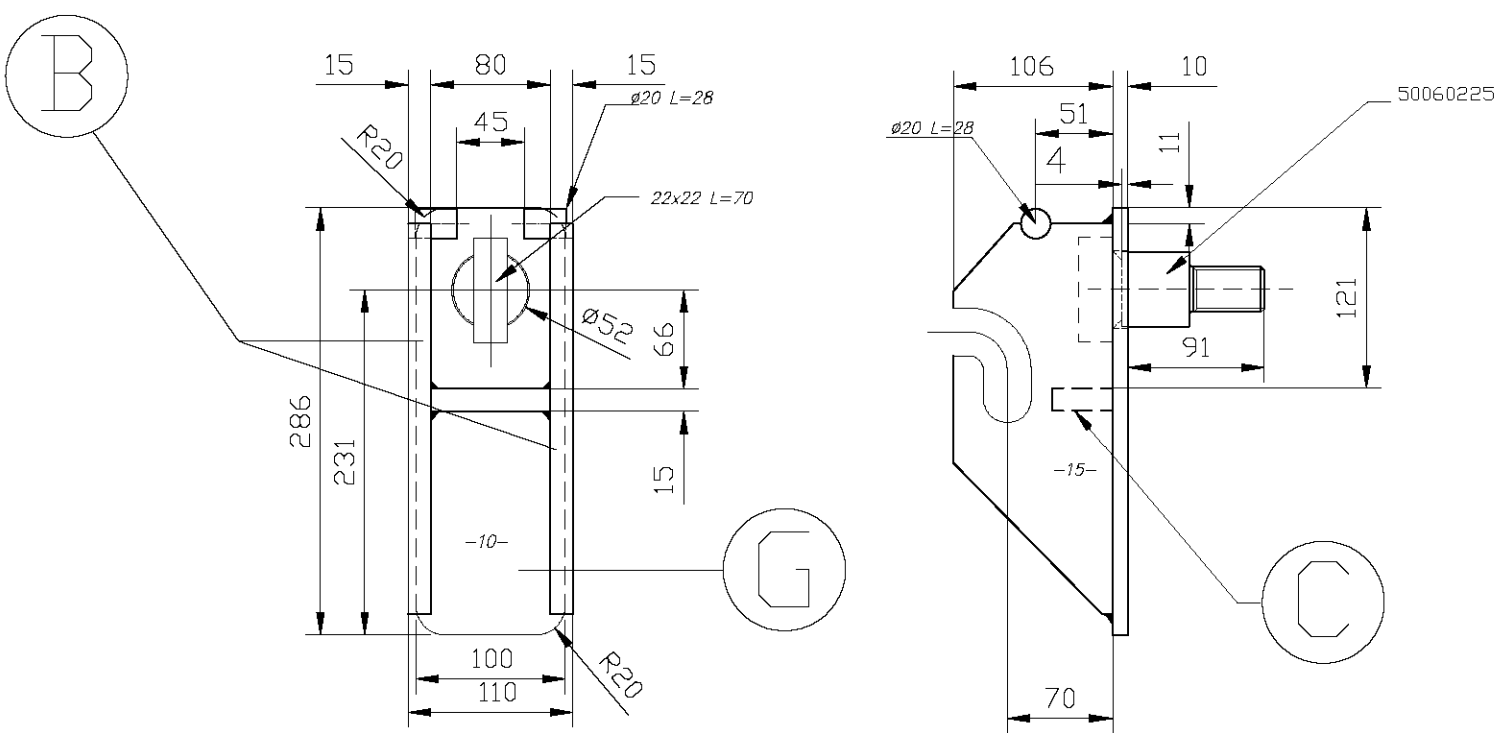
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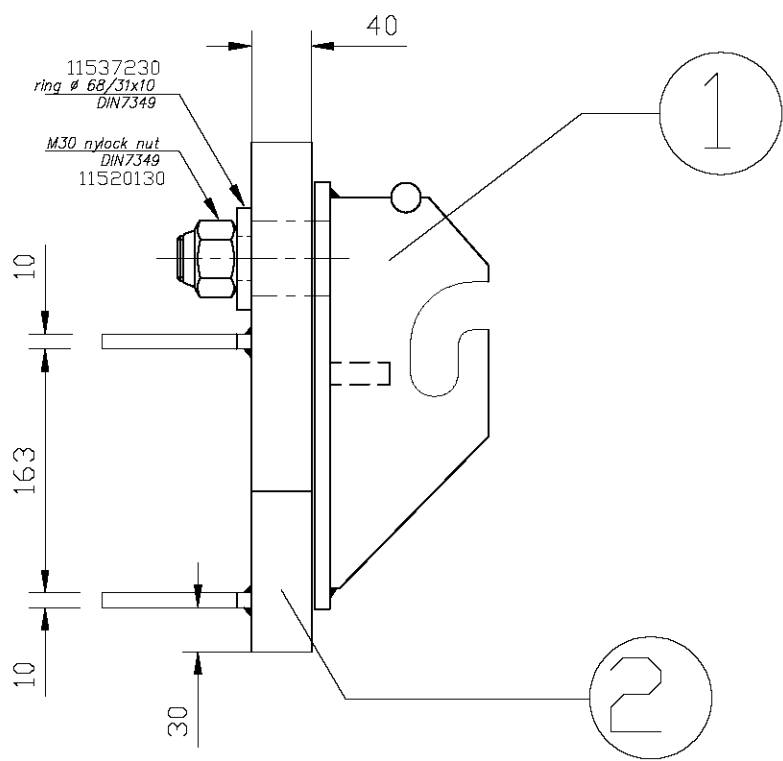
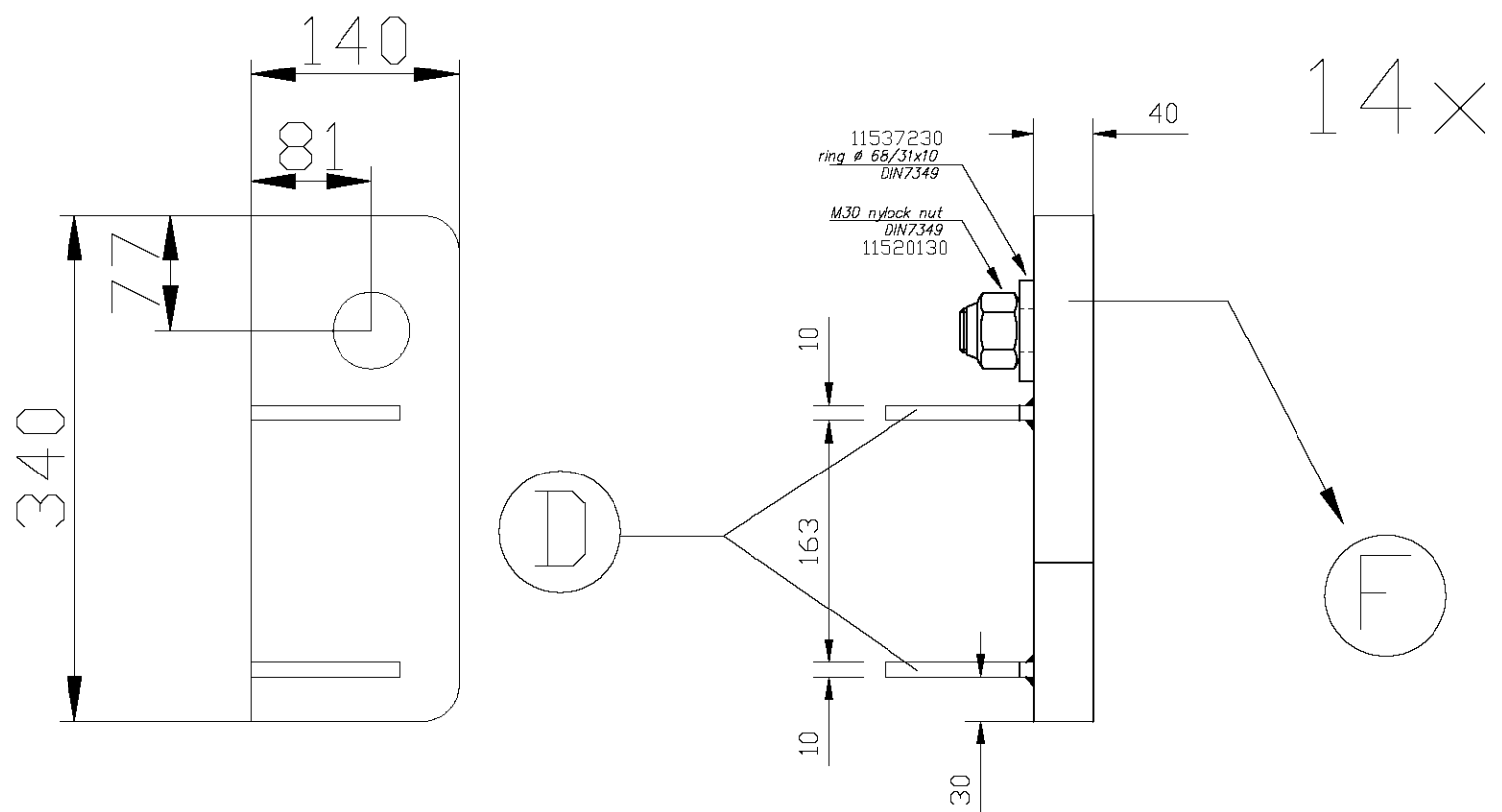
SECTION A-A

ITEM No.	OFF No.	DWG No.	DENOMINATION	DIMENSION	MATERIAL	REMARKS
 COOPS & NIEBOERG BV			Sideview Crossedling Hatchcovers HS-Shipping			
HOOGEZAND-HOLLAND				SCALE 1: DRAWN-DATE ESS 30-8-2022		
P.O.BOX 226 9600 AE Hoogezand				CHECKED		
TEL.00-31-(0)598-395500 Fax.00-31-(0)598-392427				TOLERANCE SYSTEM DIN 2310		
E-mail: tekenkamer@coops-nieboerg.nl www.coops-nieboerg.nl				YARD DRAWING NO.: YARD NO.: DRAWING No.		
			P22003	006-1	FORM A1	SHEET EDITION

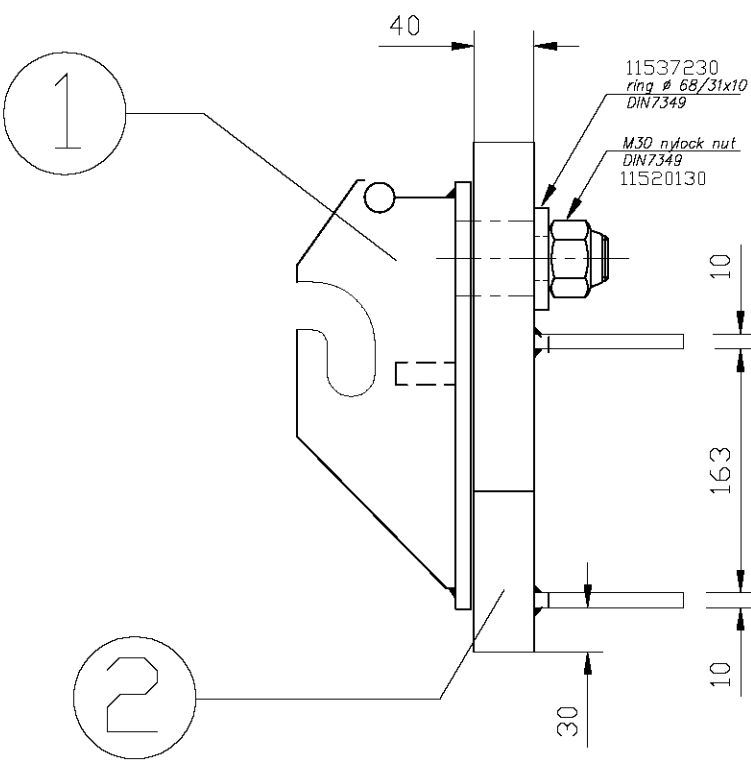
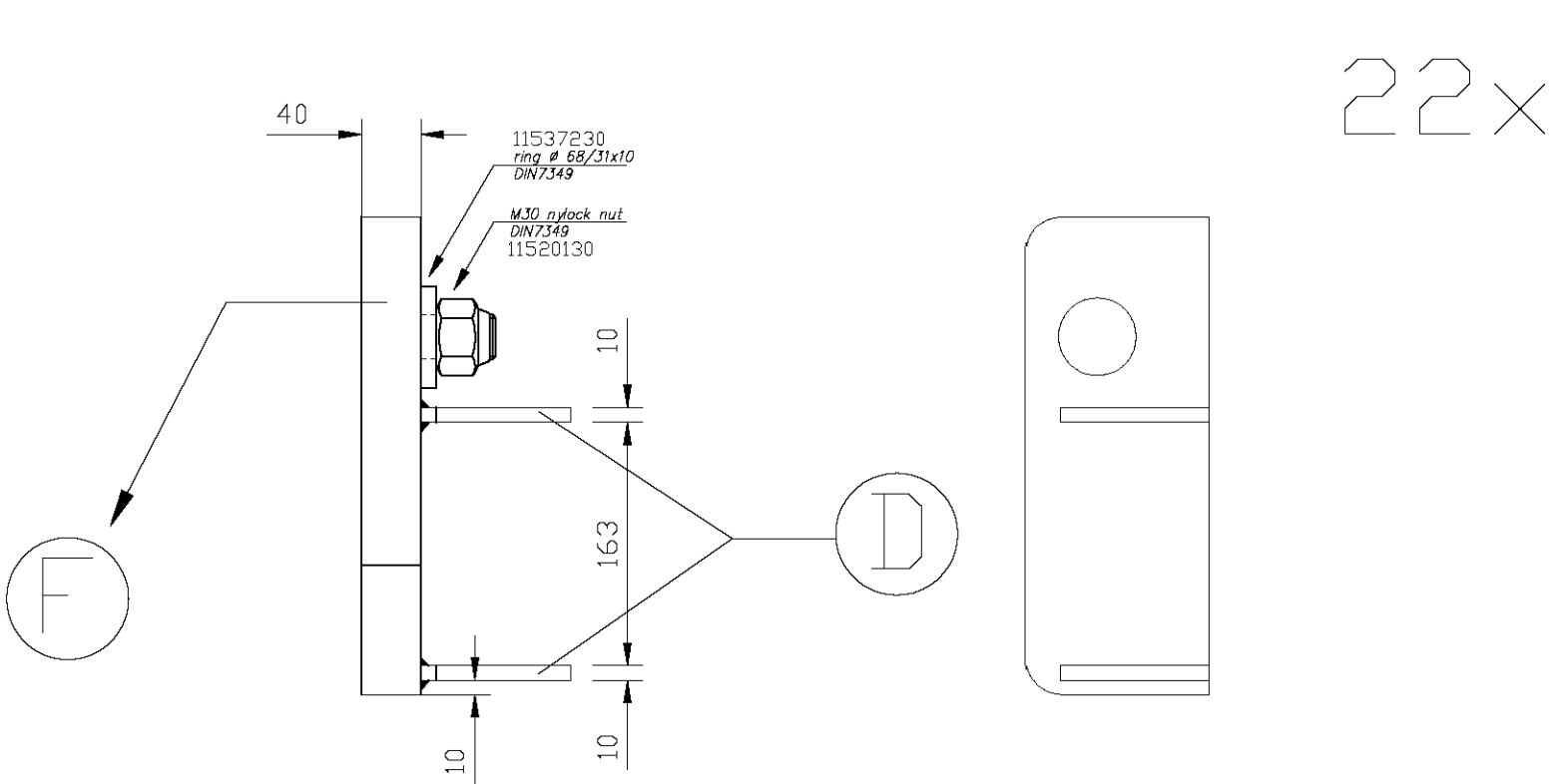
36x Assembly part 1



Assembly part 2 RIGHT


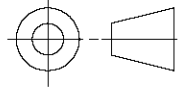


Assembly part 2 LEFT

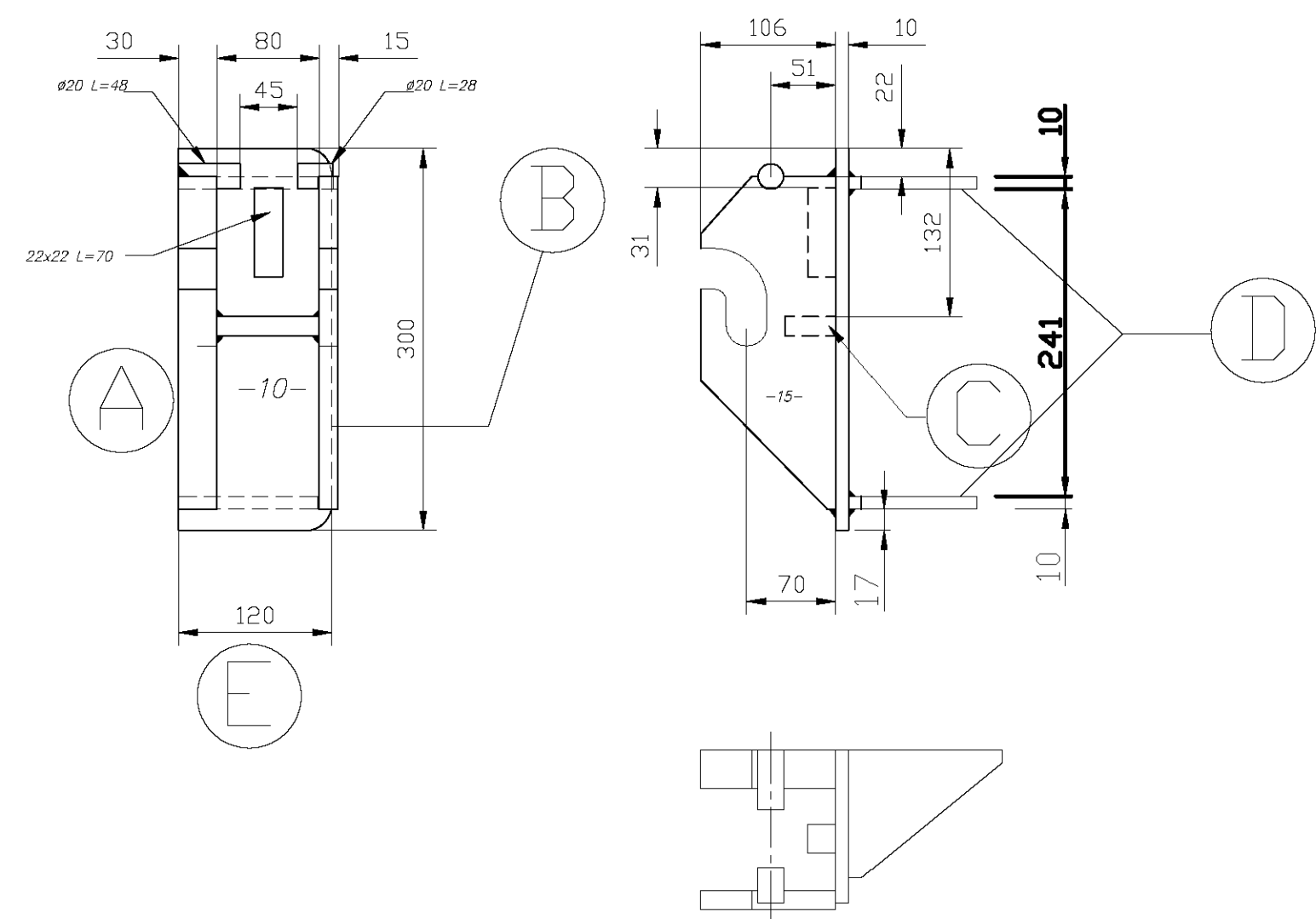


type C2

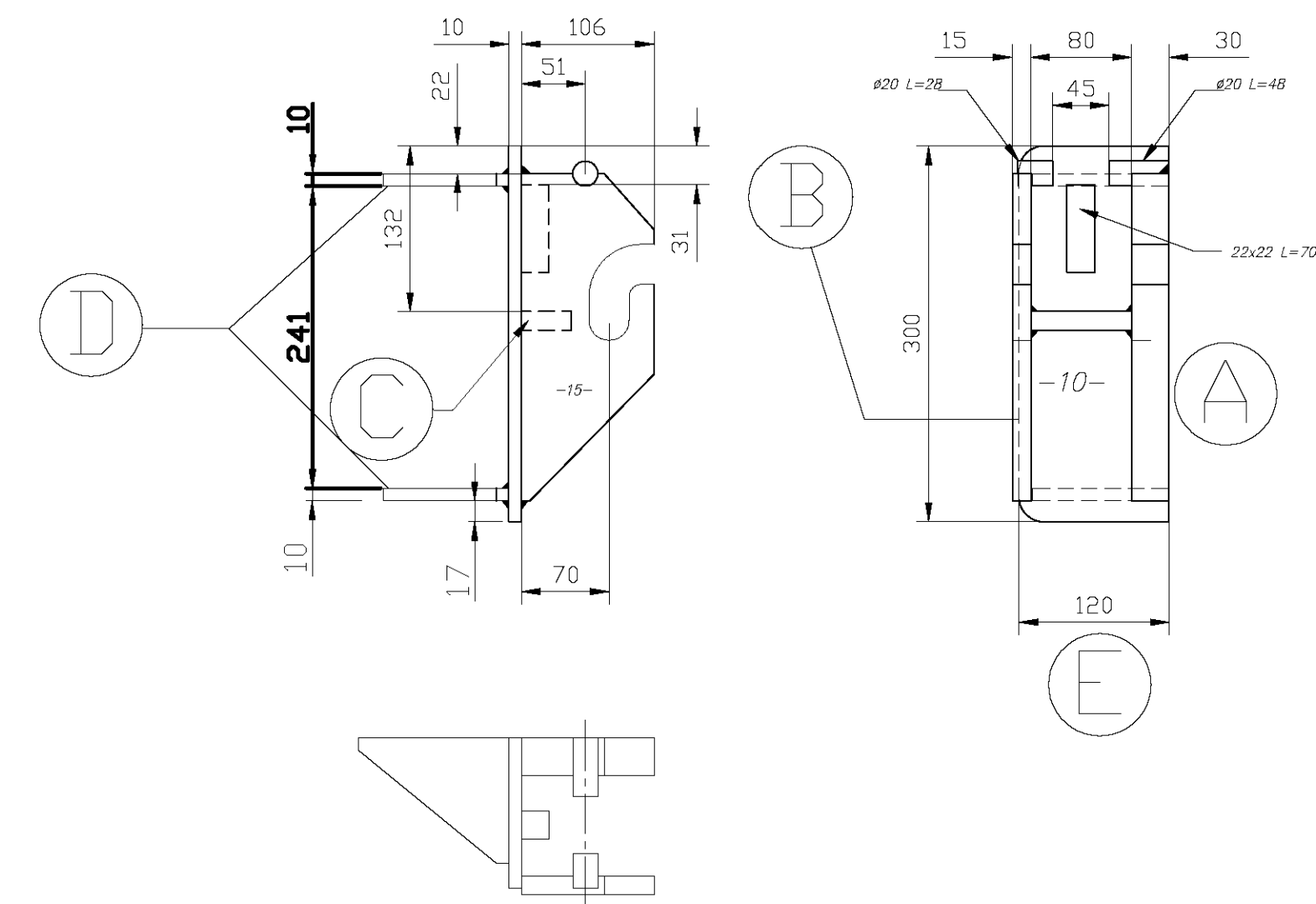
type C2


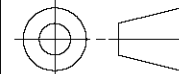
ITEM No.	OFF No.	DWG No.	DENOMINATION	DIMENSION	MATERIAL	REMARKS
 COOPS & NIEBORG BV			Assembly rotatable box Quick Acting Cleat HS-Shipping			
HOOGEZAND-HOLLAND						SCALE 1: 10
P.O.BOX 226 9600 AE Hoogezand						DRAWN-DATE ESS 2-9-2022
TEL.00-31-(0)598-395500 Fax.00-31-(0)598-392427						CHECKED
TEL.00-31-(0)598-395500 Fax.00-31-(0)598-392427			TOLERANCE SYSTEM DIN 2310			
Rev.	E-mail: tekenkamer@coops-nieborg.nl www.coops-nieborg.nl		YARD DRAWING NO.:	YARD NO.:	DRAWING No.	FORM SHEET EDITION
			P22003	011-1	A1 1/3 A	

20x Assembly part type C1 LEFT

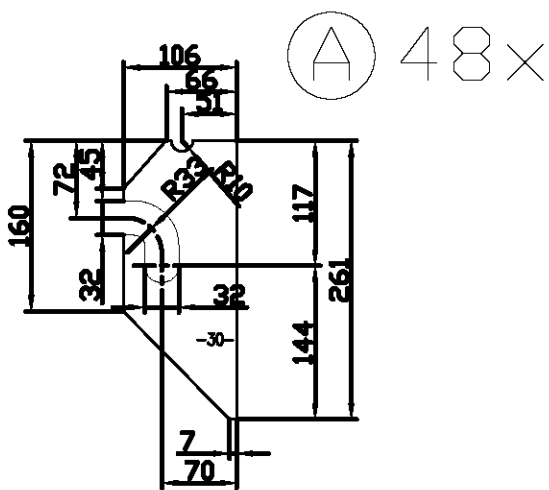


28x Assembly part type C1 RIGHT

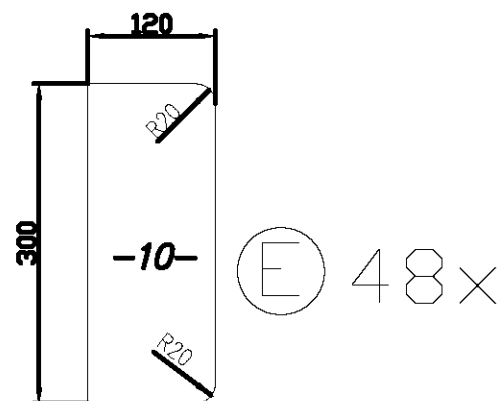


ITEM No.	OFF No.	DWG No.	DENOMINATION	DIMENSION	MATERIAL	REMARKS			
<div> COOPS & NIEBORG BV</div> <div>HOOGEZAND-HOLLAND</div> <div>P.O.BOX 226 9600 AE Hoogezand</div> <div>TEL.00-31-(0)598-395500 Fax.00-31-(0)598-392427</div>				<div>Assembly fixed type C1 Quick Acting Cleat HS-Shipping</div>		<div></div>			
						SCALE 1:10			
						DRAWN-DATE ESS 2-9-2022			
						CHECKED			
						TOLERANCE SYSTEM DIN 2310			
Rev.	E-mail: tekenkamer@coops-nieborg.nl www.coops-nieborg.nl			YARD DRAWING NO.:	YARD NO.: P22003	DRAWING No. 011-1	FORM A1	SHEET 2/3	EDITION A

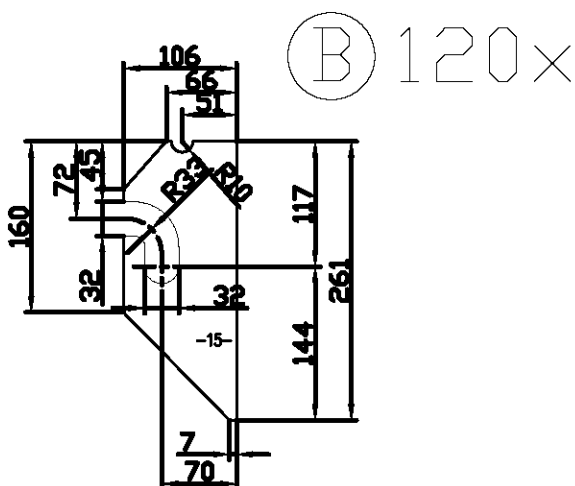
AH36



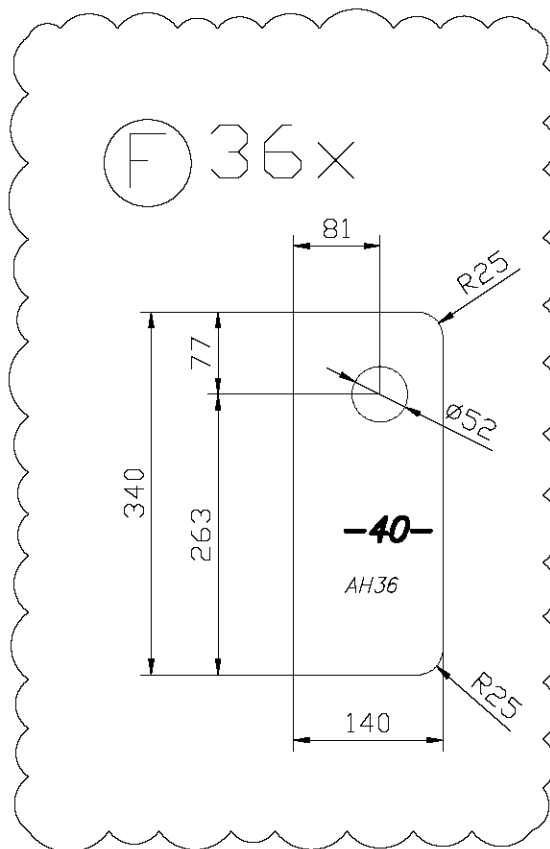
AH36



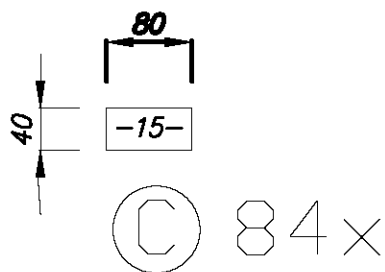
AH36



F 36x

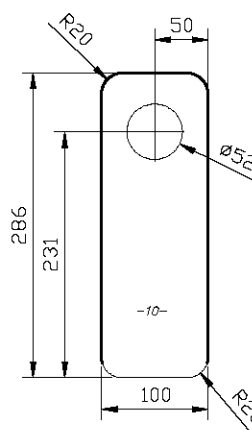


AH36

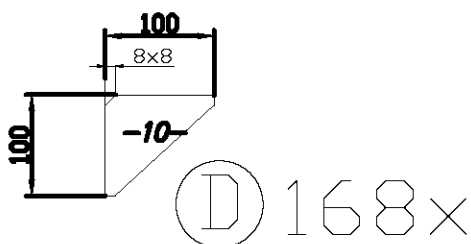


G 36x

AH36



AH36



ITEM No.	OFF No.	DWG No.	DENOMINATION	DIMENSION	MATERIAL	REMARKS
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COOPS & NIEBORG BV

HOOGEZAND-HOLLAND

P.O.BOX 226
9600 AE Hoogezand

TEL.00-31-(0)598-395500
Fax.00-31-(0)598-392427

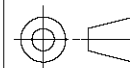
E-mail: tekenkamer @ coops-nieborg.nl
www.coops-nieborg.nl

Cleatfoundation
cutting parts
Quick Acting Cleat
HS-Shipping

YARD DRAWING NO.:

YARD NO.:
P22003

DRAWING No.
011-1



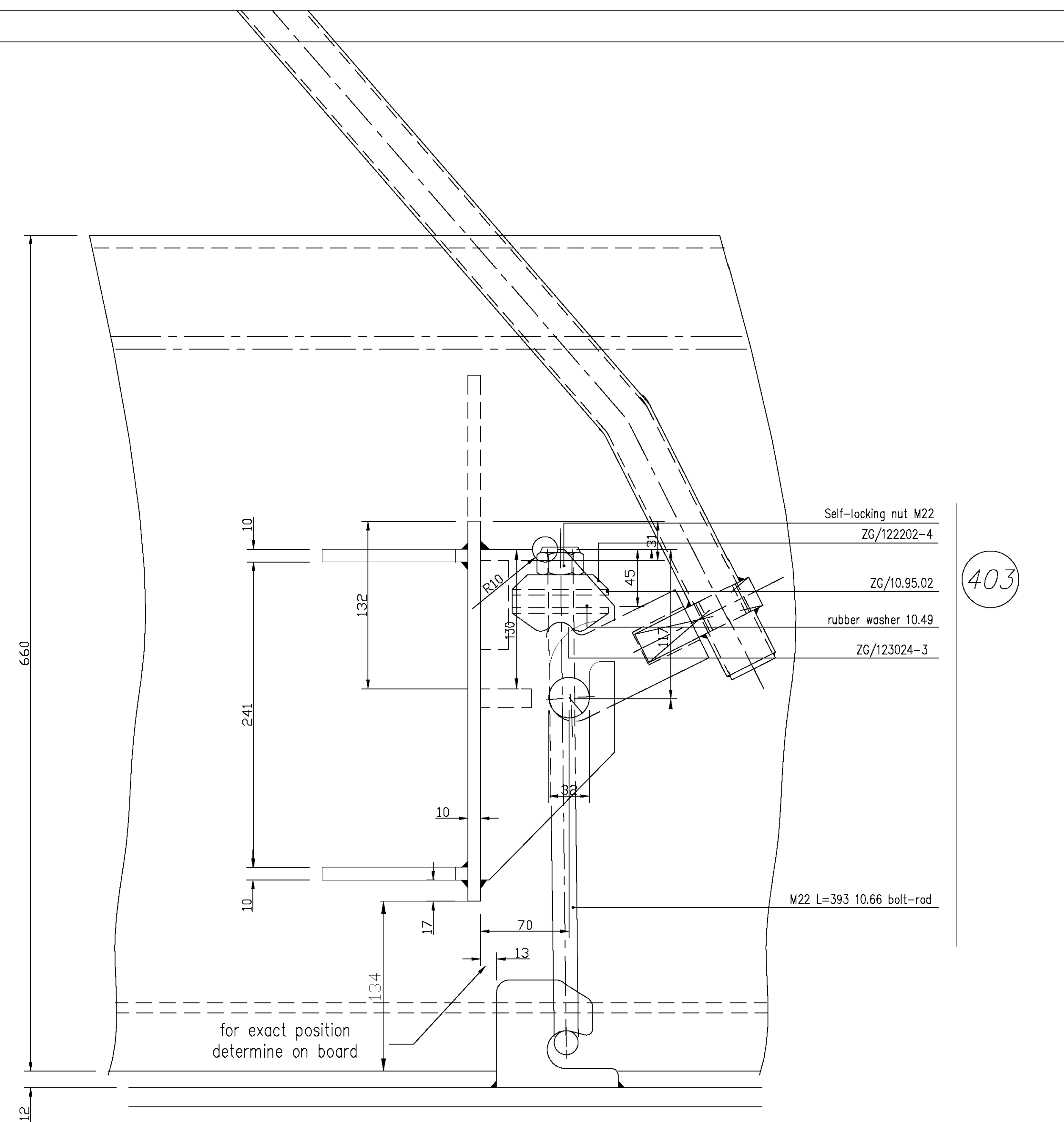
SCALE 1: 10



DRAWN-DATE
ESS 2-9-2022

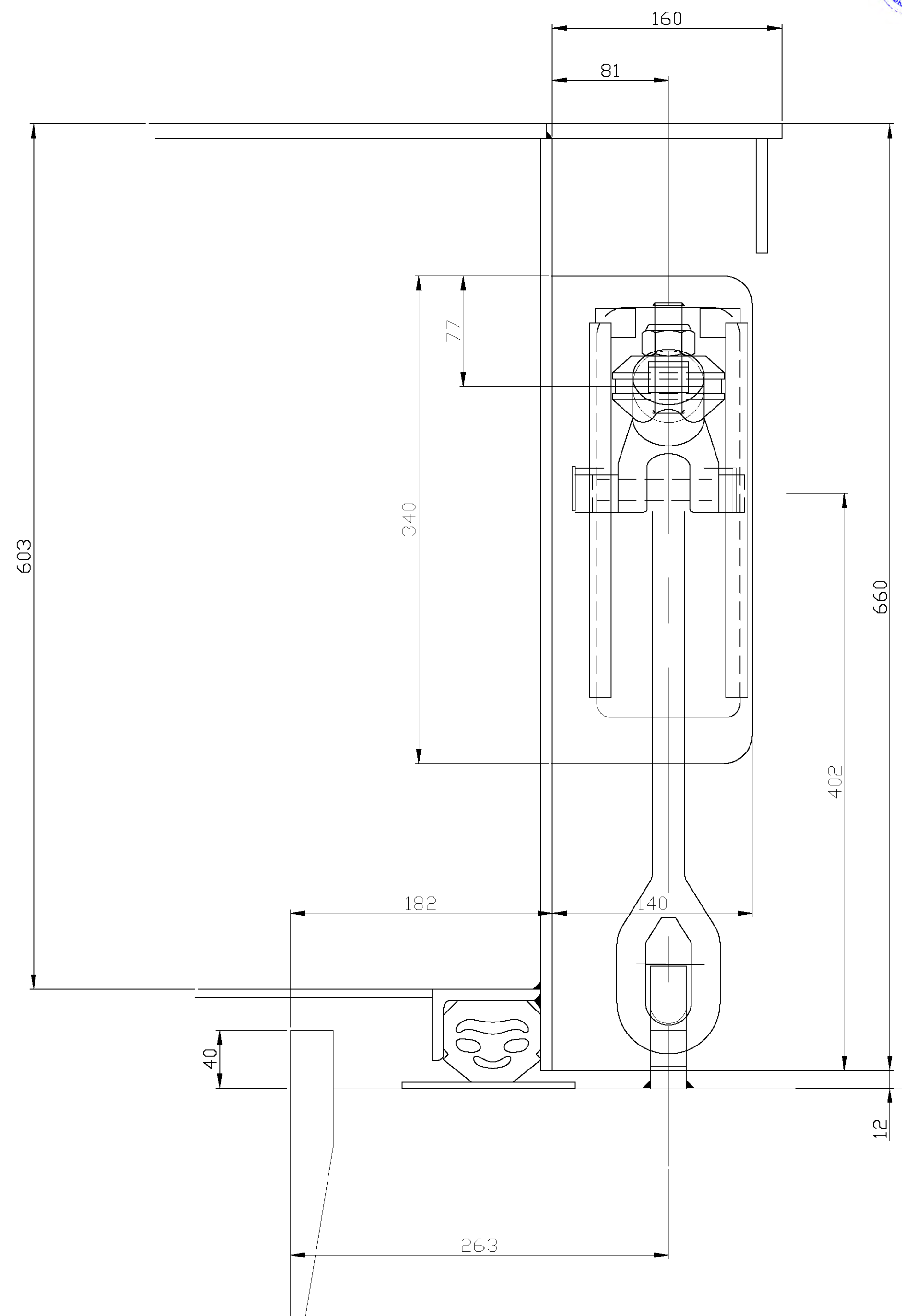
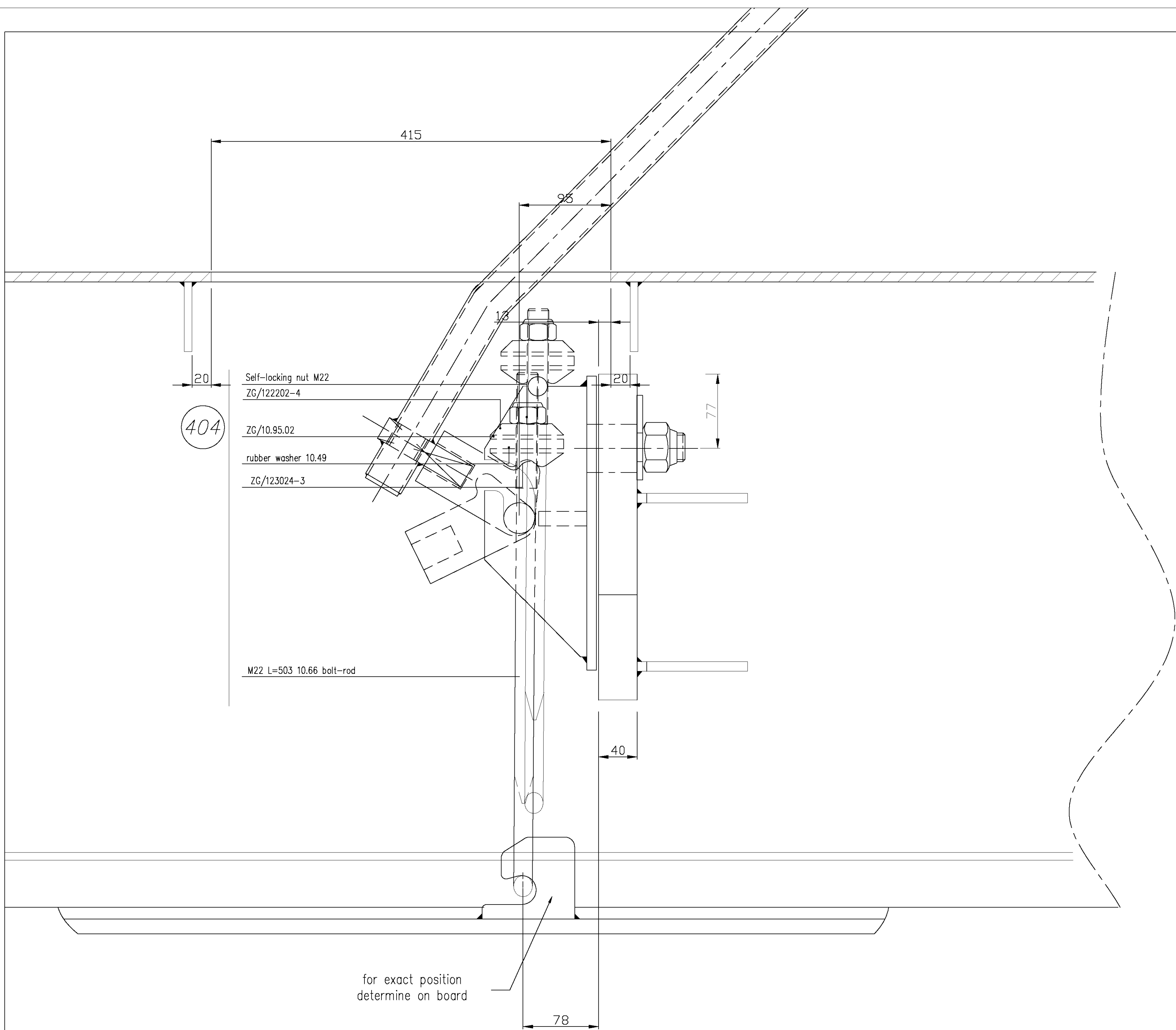
CHECKED

TOLERANCE SYSTEM
DIN 2310

FORM	SHEET	EDITION
A1	3/3	A



ITEM No.	OFF No.	DWG No.	DENOMINATION	DIMENSION	MATERIAL	REMARKS		
			 COOPS & NIEBORG BV HOOGEZAND-HOLLAND P.O.BOX 226 9600 AE Hoogezand TEL.00-31-(0)598-395500 Fax.00-31-(0)598-392427	Cam Locks Type C1 Hatchcovers HS-Shipping				
						SCALE 1:2.5		
						DRAWN-DATE ESS 02-9-2022		
						CHECKED		
						TOLERANCE SYSTEM DIN 2310		
Doc. No.	Rev.		YARD DRAWING NO.: www.coops-nieborg.nl	YARD NO.: P22003	DRAWING No. 011-2	FORM A1	SHEET	EDITION



Number: 36x
22x as drawn
14x opposite

For parts and assembly see drw.011-1 sheet 1-3

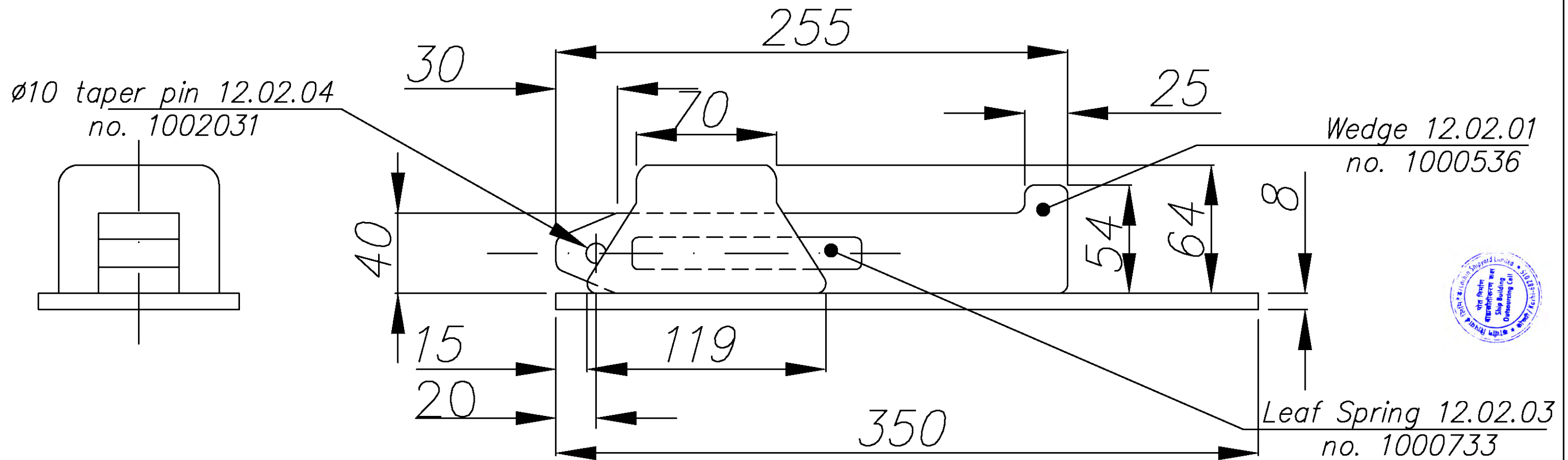
SB

FREE SIDE

Placement at SB see dwr.nr.003-1 - 003-12

ITEM No.	OFF No.	DWG No.	DENOMINATION	DIMENSION	MATERIAL	REMARKS
ESS/02-01-2022			COOPS & NIEBORG BV HOOGEZAND-HOLLAND P.O.BOX 226 9600 AE Hoogezand TEL.00-31-(0)598-395500 Fax.00-31-(0)598-392427 E-mail: tekenkamer@coops-nieborg.nl www.coops-nieborg.nl	Cam Locks Type C2 Hatchcovers HS-Shipping	SCALE 1: 2.5 DRAWN-DATE ESS 02-9-2022 CHECKED TOLERANCE SYSTEM DIN 2310	
Rev. A	Rev. A	Rev. A	YARD DRAWING NO.: P22003	DRAWING No. 011-3	FORM A1	SHEET A

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Wedge 90001202
number: 66x(incl. 1x spare)

ITEM No.	OFF No.	DWG No.	DENOMINATION	DIMENSION	MATERIAL	REMARKS
COOPS & NIEBORG BV			Wedge type 90001202		SCALE 1: 2	
HOOGEZAND-HOLLAND					DRAWN-DATE RI 31-12-10	
P.O.BOX 226					CHECKED	
9600 AE Hoogezand					TOLERANCE SYSTEM DIN 2310	
TEL.00-31-(0)598-395500						
Fax.00-31-(0)598-392427						
E-mail: tekenkamer@coops-nieborg.nl			YARD DRAWING NO.:		FORM A3	SHEET
www.coops-nieborg.nl			P22003		EDITION	
			DRAWING No. 012			

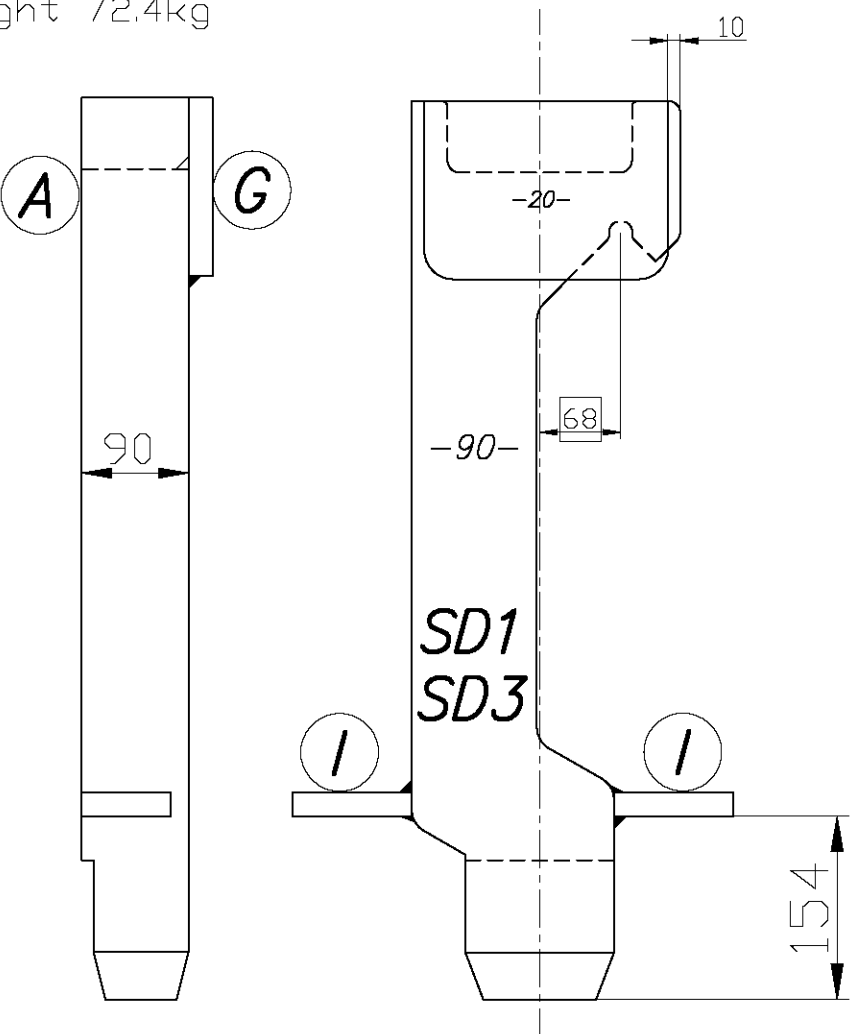
Assembly SD1+3 PS

Number SD1: 11x

Number SD3: 11x

For this ship SD1 and SD3 are similar

Weight 72.4kg



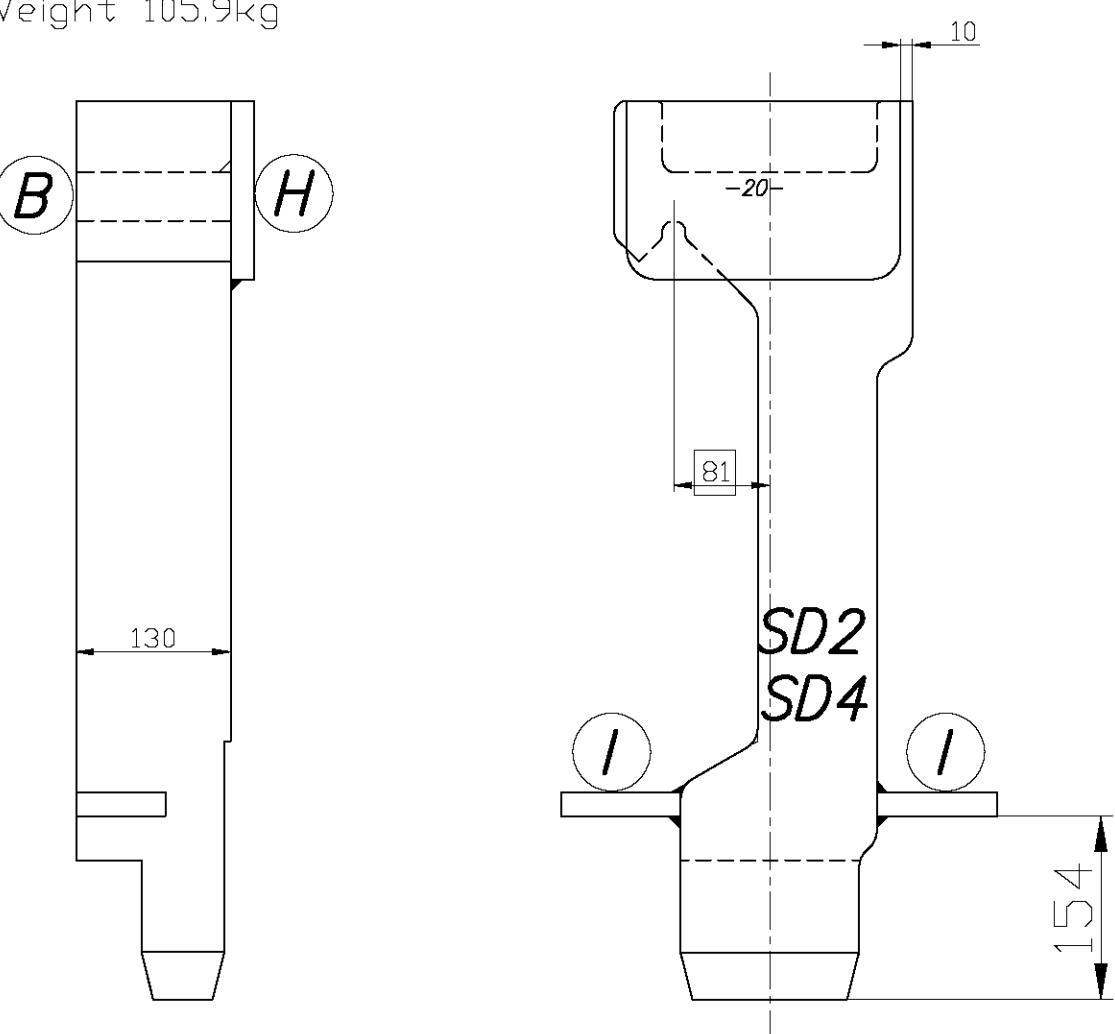
Assembly SD2+4 SB

Number SD2: 11x

Number SD4: 11x

For this ship SD2 and SD4 are similar

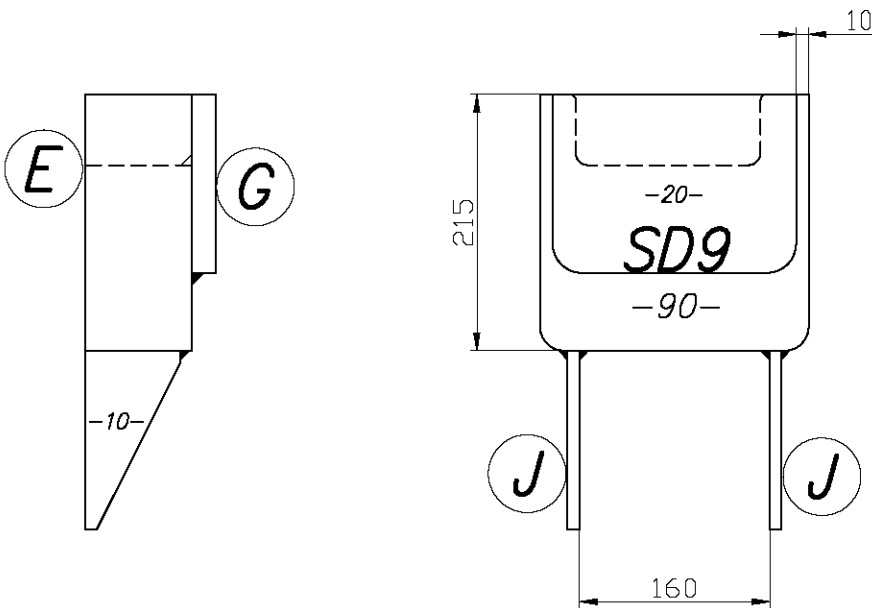
Weight 105.9kg



Assembly SD9 PS

Number SD9: 4x

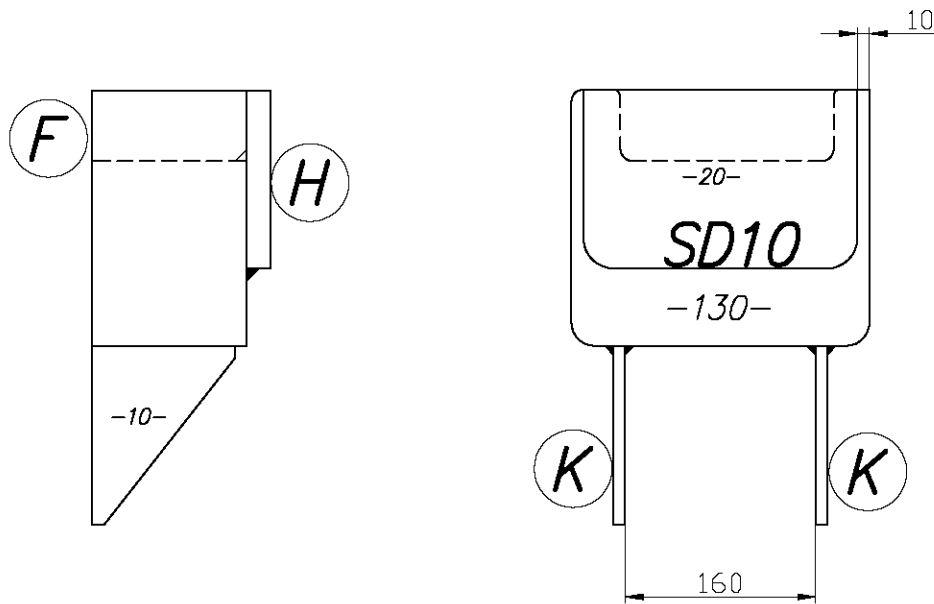
Weight 37kg



Assembly SD10 SB

Number SD10: 4x

Weight 51.1kg



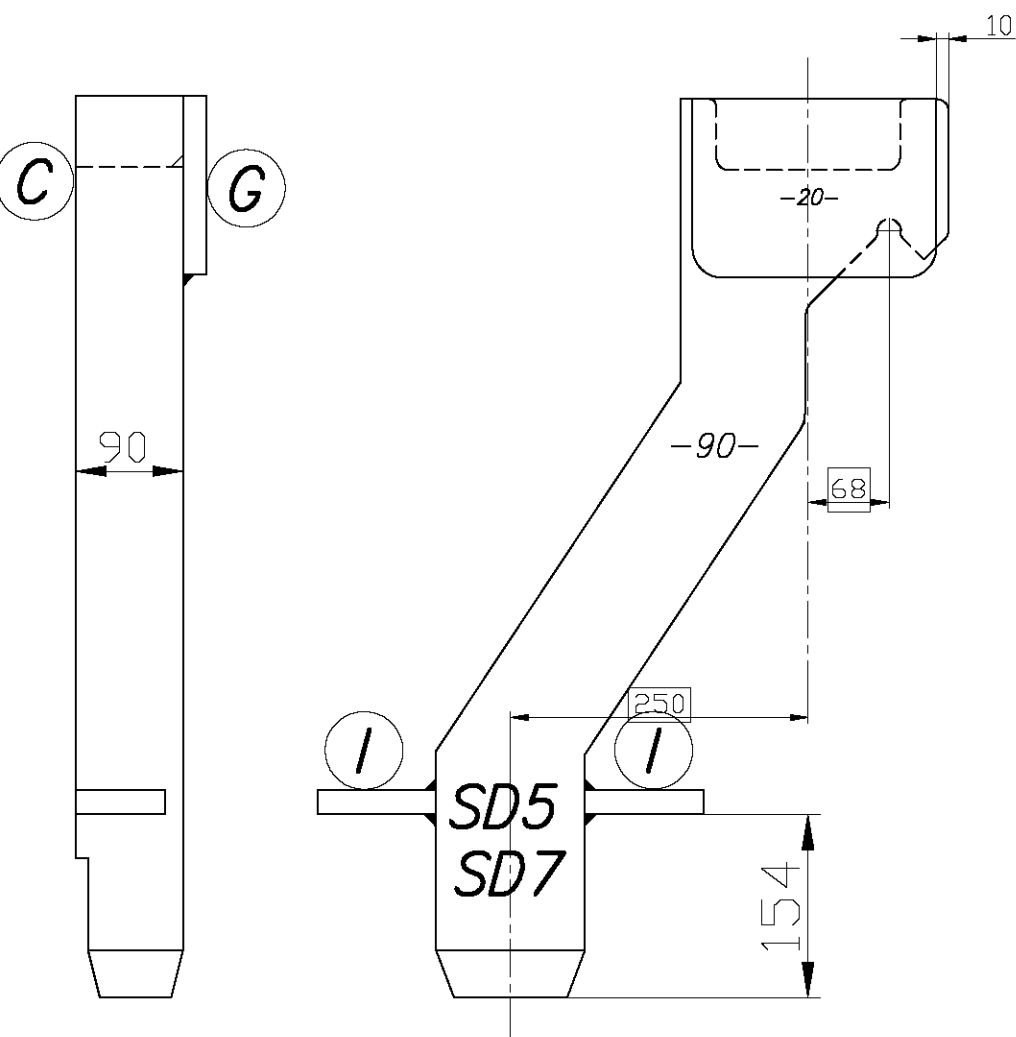
Assembly SD5+7 PS

Number SD5: 1x

Number SD7: 1x

For this ship SD5 and SD7 are similar

Weight 79.4kg



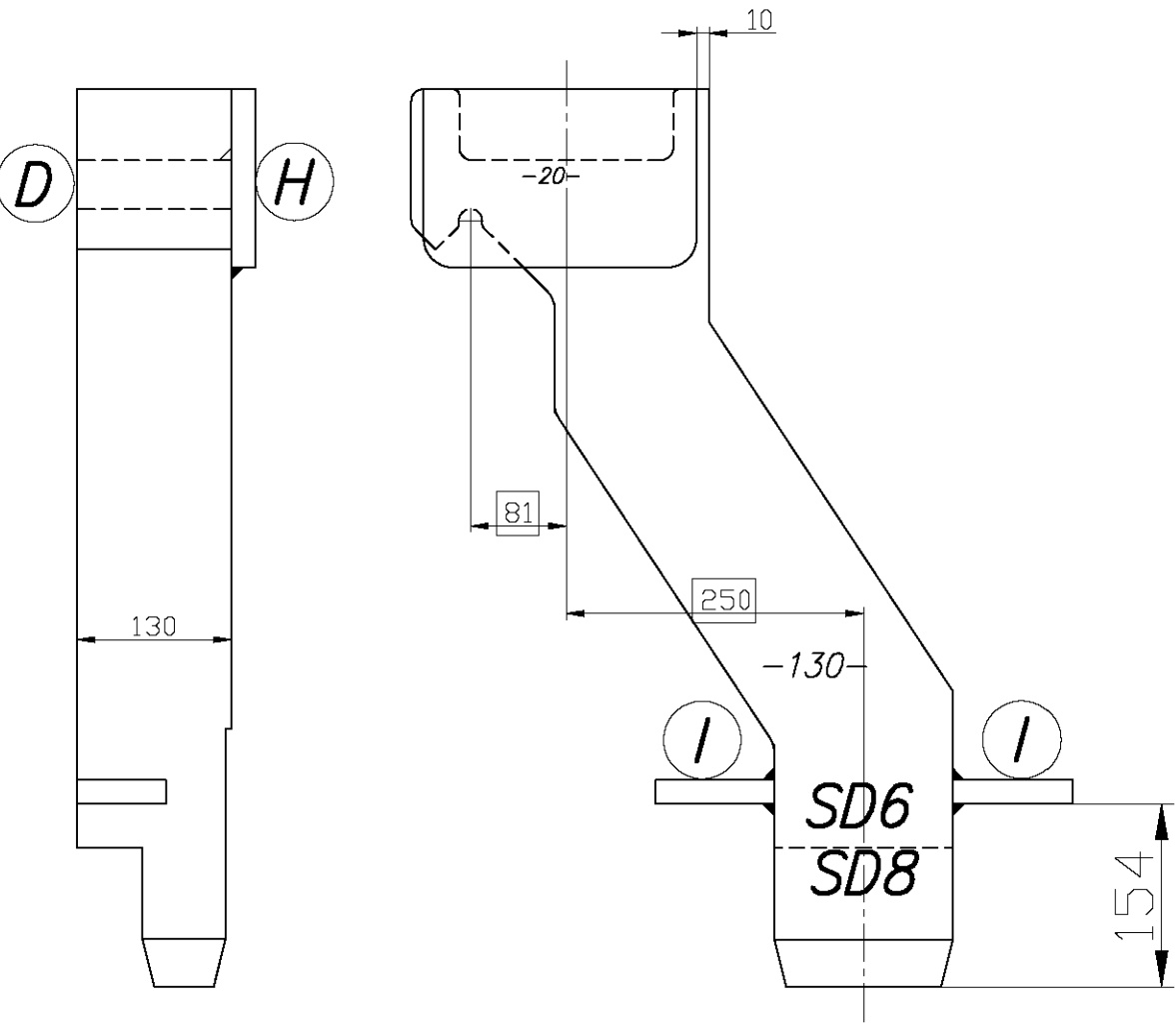
Assembly SD6+8 SB



Number SD6: 1x

Number SD8: 1x

For this ship SD6 and SD8 are similar

Weight 116.9kg

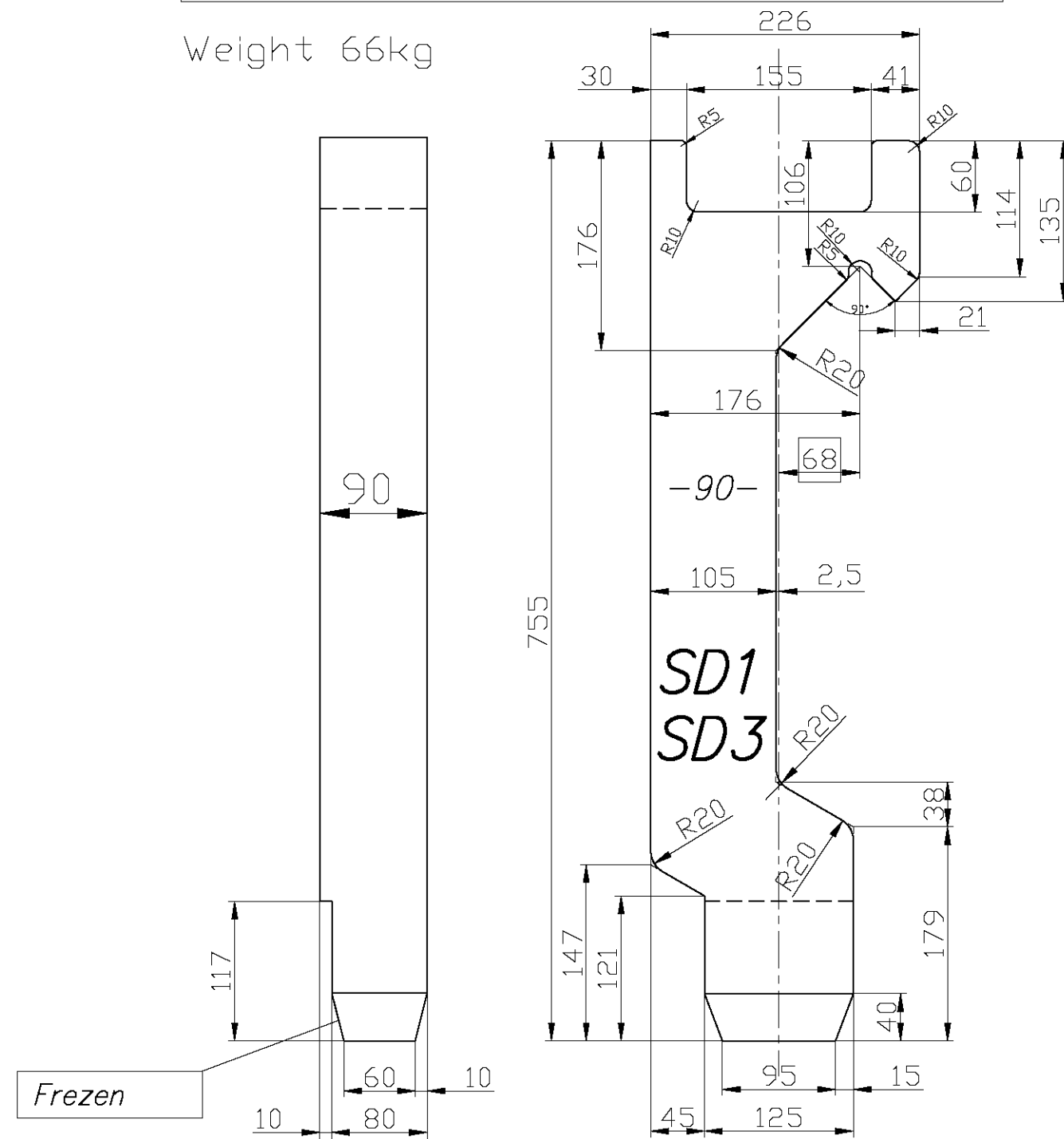


ITEM No.	OFF No.	DWG No.	DENOMINATION	DIMENSION		MATERIAL	REMARKS			
<div></div> <div>COOPS & NIEBORG BV</div> <div>HOOGEZAND-HOLLAND</div> <div>P.O.BOX 226 9600 AE Hoogezand</div> <div>TEL.00-31-(0)598-395500 Fax.00-31-(0)598-392427</div>			<div>Assembly Stacking devices Hatchcovers HS-Shipping</div>				<div></div>			
							SCALE 1: -		DRAWN-DATE ESS 5-09-2022	
							CHECKED		TOLERANCE SYSTEM DIN 2310	
Rev.	E-mail: tekenkamer @ coops-nieborg.nl www.coops-nieborg.nl		YARD DRAWING NO.:	YARD NO.:	DRAWING No.	FORM	SHEET	EDITION		
				P22003	013-1	A2				

A Mat:DH36 PS
Number SD1:11x
Number SD3:11x

For this ship SD1 and SD3 are similar

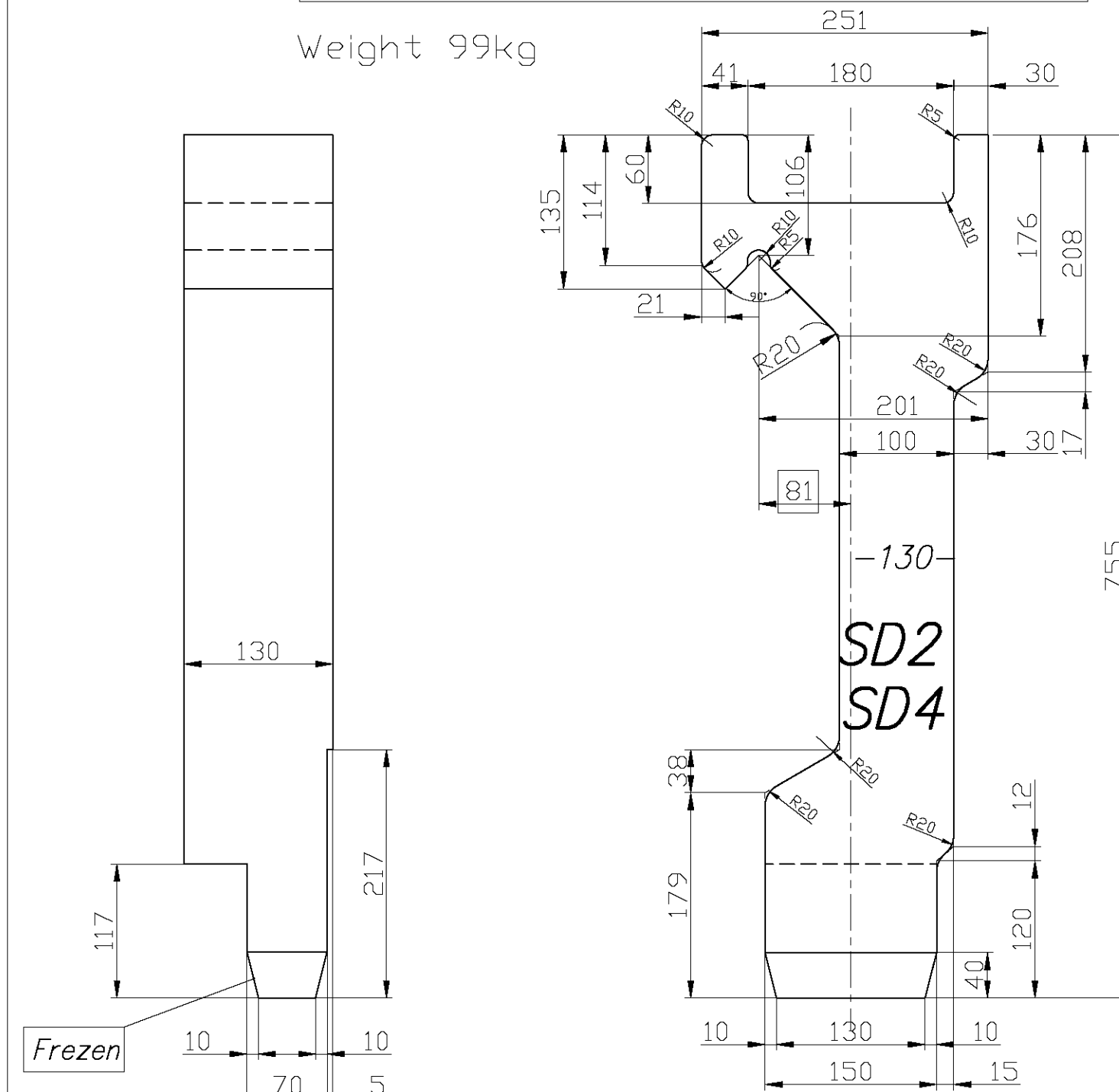
Weight 66kg



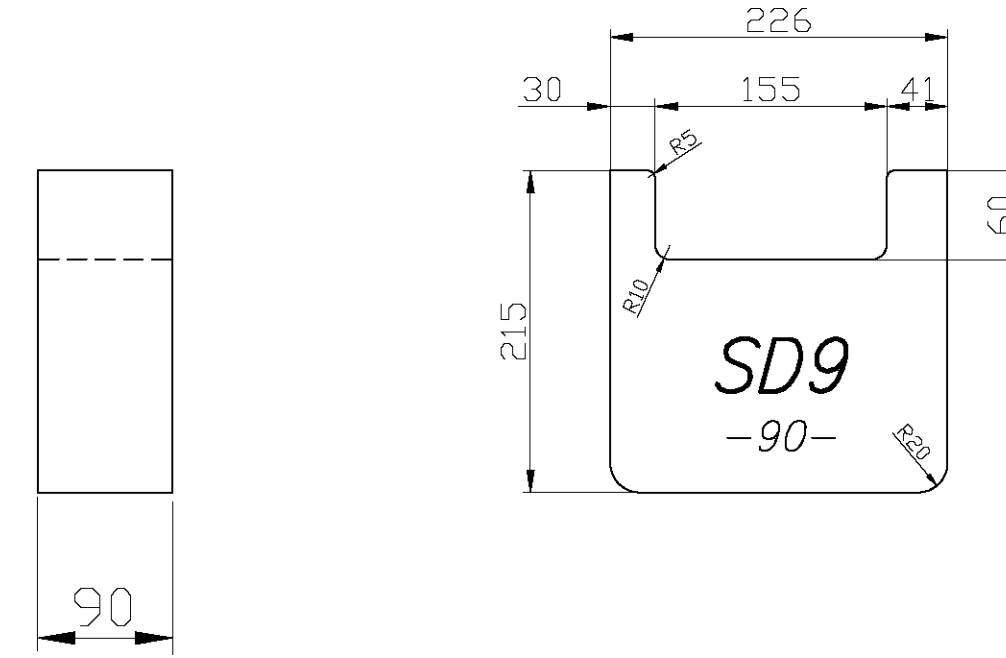
B Mat:DH36 SB
Number SD2:11x
Number SD4:11x

For this ship SD2 and SD4 are similar

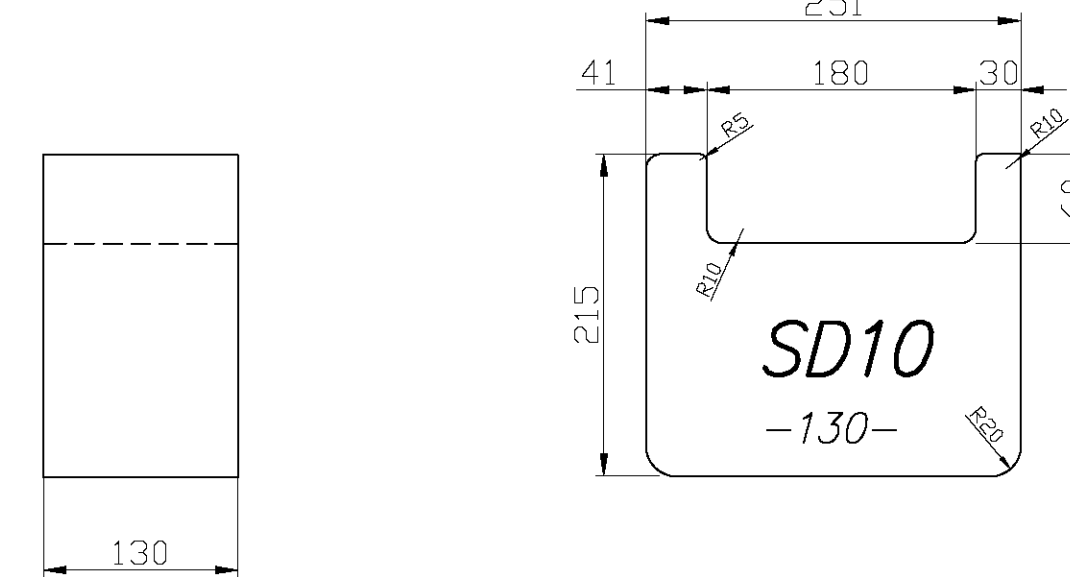
Weight 99kg



E Mat:DH36 PS
Number SD9: 4x
Weight 31kg



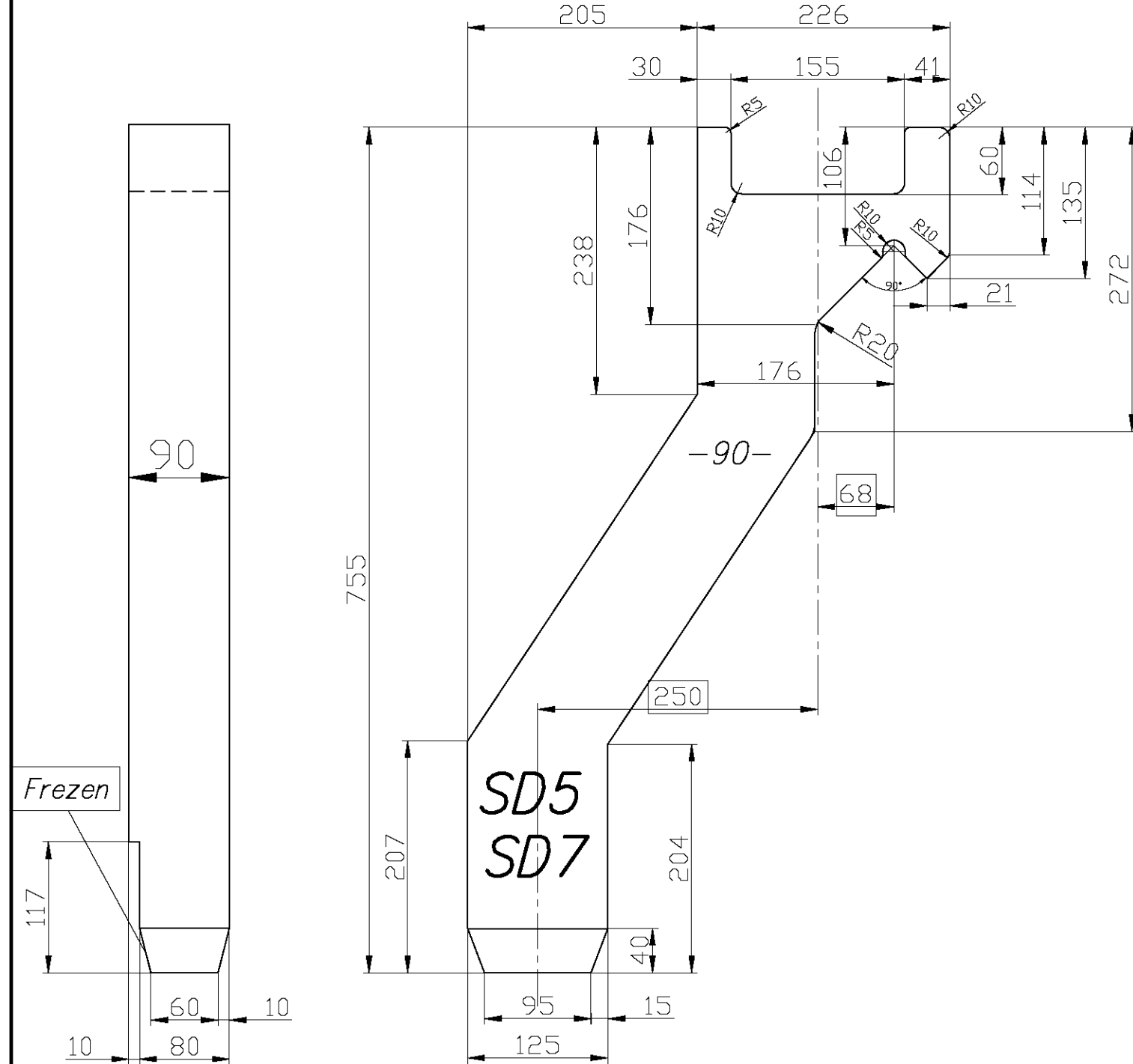
F Mat:DH36 SB
Number SD10: 4x
Weight 44kg



C Mat:DH36 PS
Number SD5:1x
Number SD7:1x

For this ship SD5 and SD7 are similar

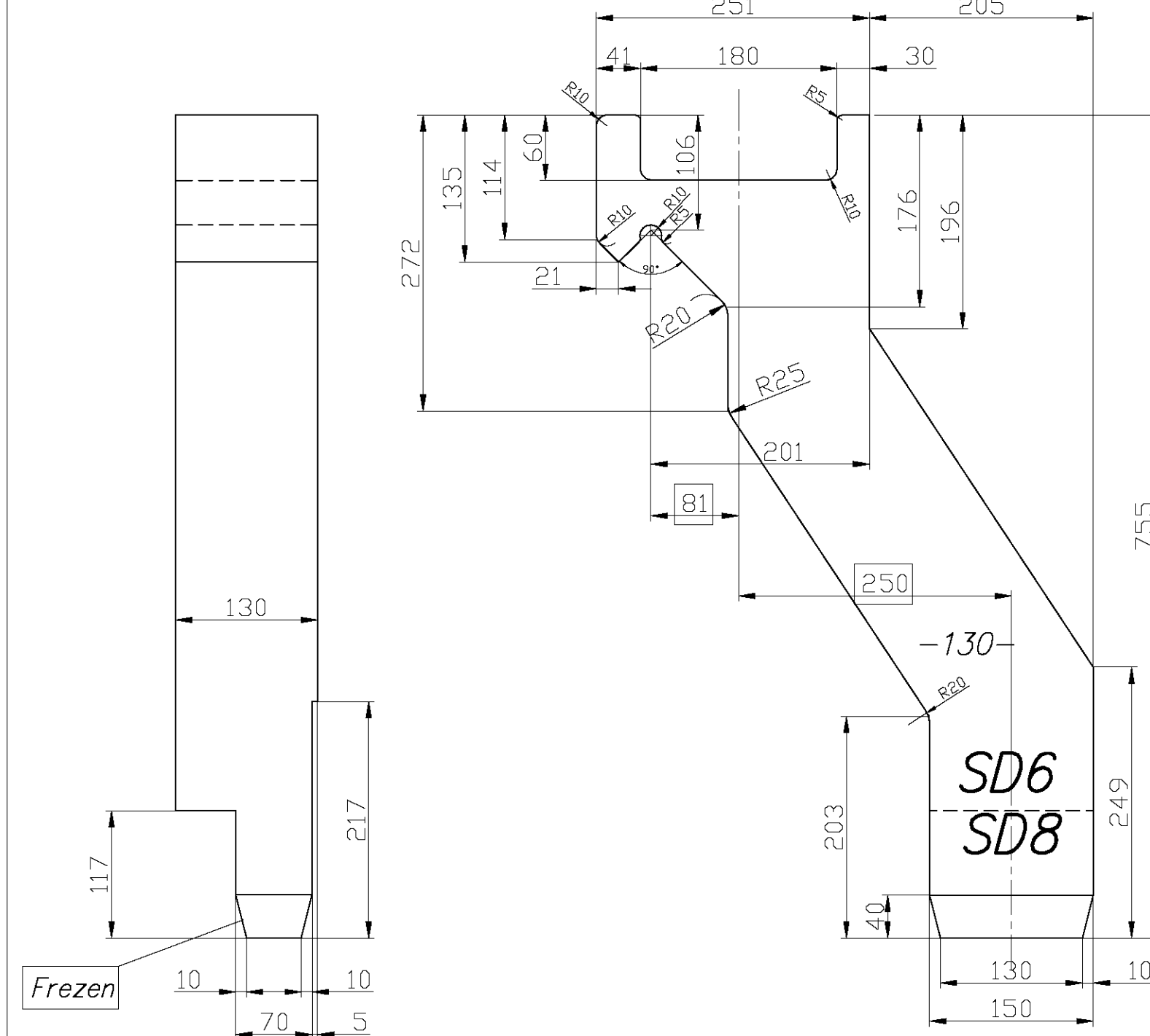
Weight 73kg



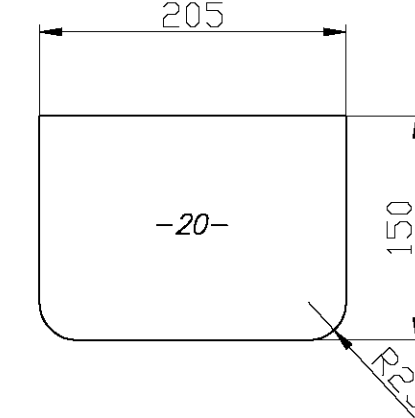
D Mat:DH36 SB
Number SD6:1x
Number SD8:1x

For this ship SD6 and SD8 are similar

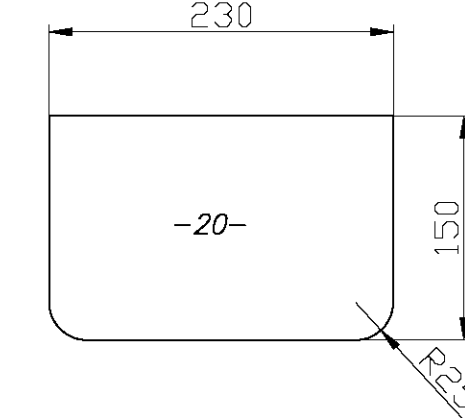
Weight 110kg



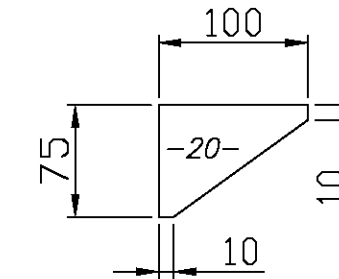
G Mat:AH36 PS
Number: 26x
Weight 5kg



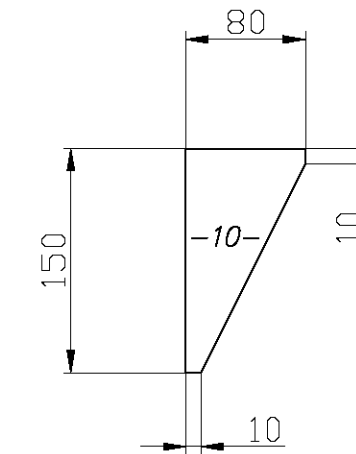
H Mat:AH36 SB
Number: 26x
Weight 5.5kg



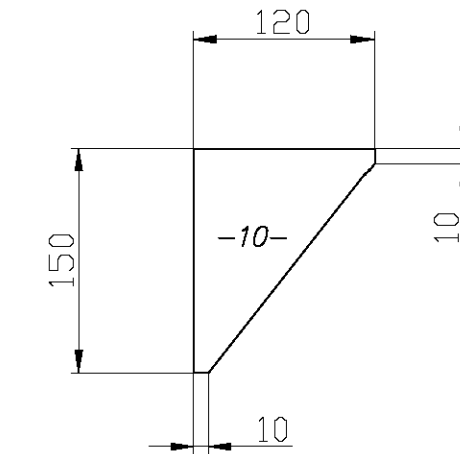
I Mat:AH36
Number: 48x
Weight 0.7kg



J Mat:AH36 PS
Number: 8x
Weight 0.5kg

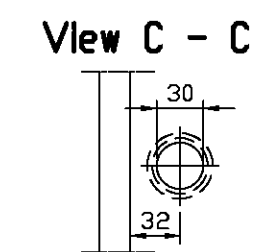


K Mat:AH36 SB
Number: 8x
Weight 0.8kg



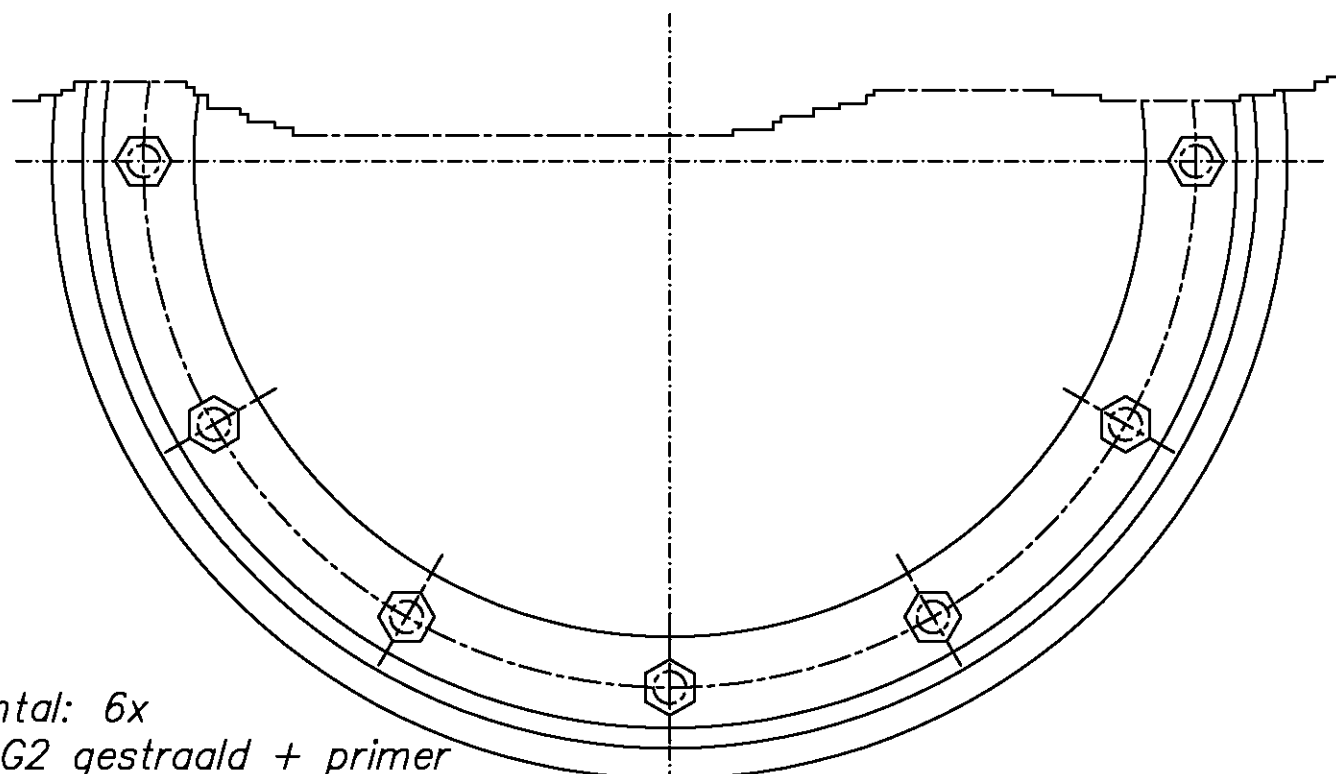
ITEM No.	OFF No.	DWG No.	DENOMINATION	DIMENSION	MATERIAL	REMARKS
			COOPS & NIEBORG BV HOOGEZAND-HOLLAND P.O.BOX 226 9600 AE Hoogezond TEL.00-31-(0)598-395500 Fax.00-31-(0)598-392427 E-mail: tekenkamer@coops-nieborg.nl www.coops-nieborg.nl			Cutting plates Stacking devices Hatchcovers HS-Shipping
			YARD DRAWING NO.: P22003	YARD NO.: 013-2	FORM SHEET A1	SCALE 1:5 DRAWN-DATE ESS 5-09-22 CHECKED TOLERANCE SYSTEM DIN 2310 EDITION

Copyright by konstruktiebedrijf Coops & Nieborg B.V.



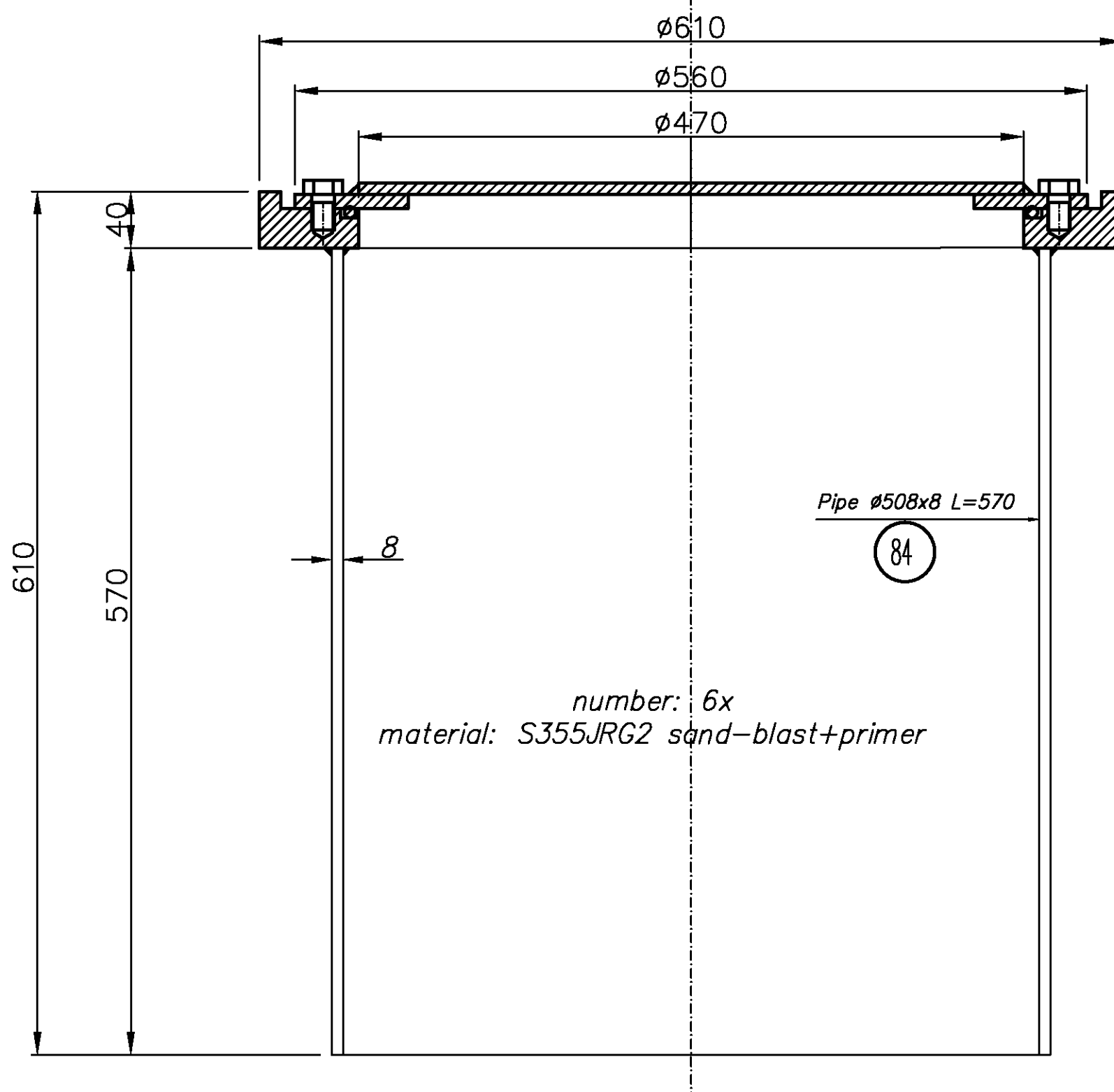
EXAMPLE

Copyright by konstruktiebedrijf Coops & Nieborg B.V.



Aantal: 6x
 materiaal: S355JRG2 gestraald + primer
 Art Nr: 80012000

83



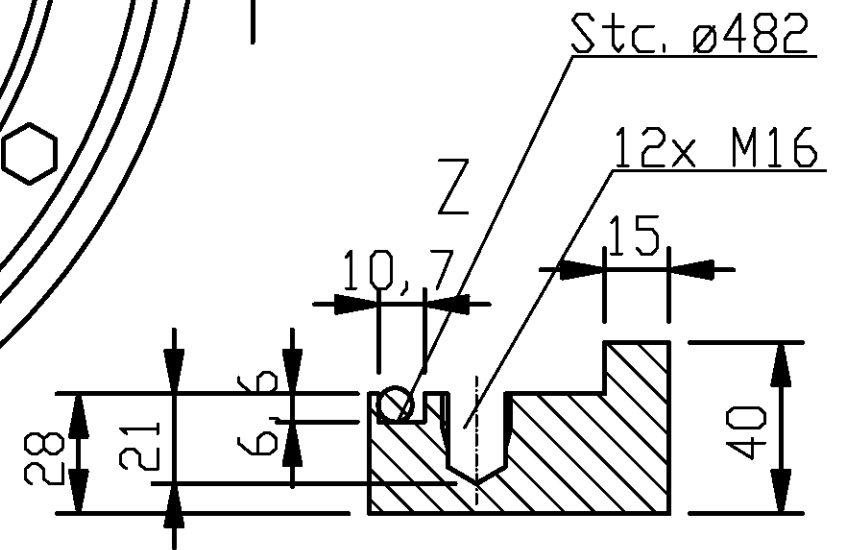
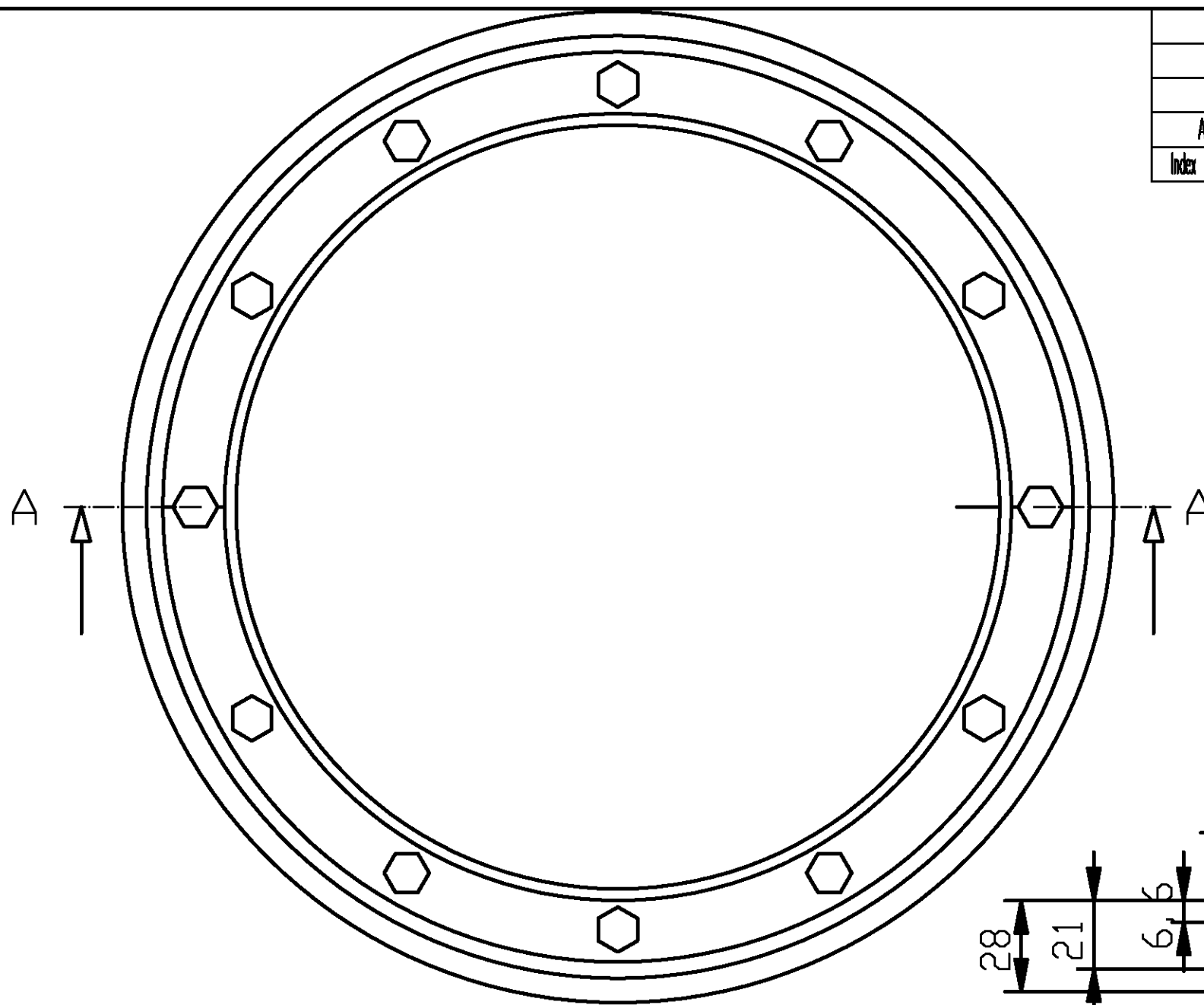
number: 6x
 material: S355JRG2 sand-blast+primer

84

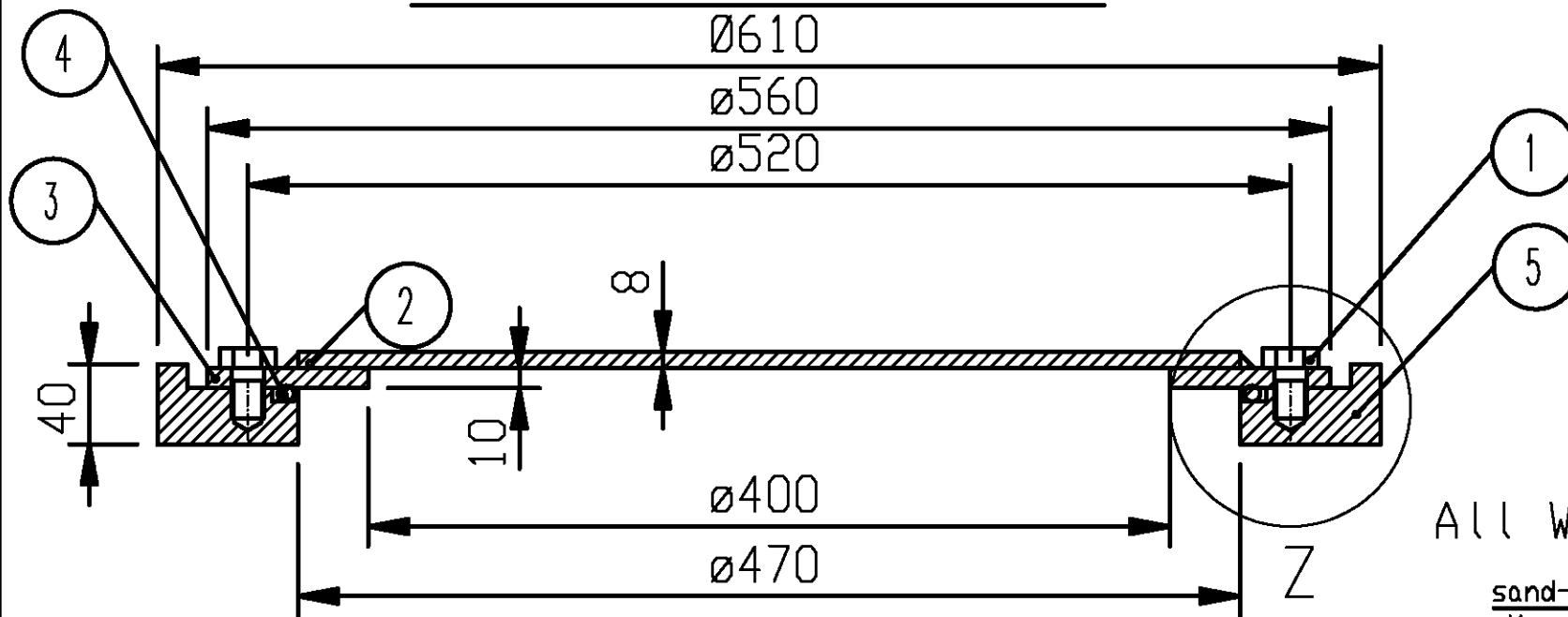


ITEM No.	OFF No.	DWG No.	DENOMINATION	DIMENSION	MATERIAL	REMARKS
			COOPS & NIEBORG BV			
			HOOGEZAND-HOLLAND			
			P.O.BOX 226			
			9600 AE Hoogezand			
			TEL.00-31-(0)598-395500			
			Fax.00-31-(0)598-392427			
			E-mail: tekenkamer@coops-nieborg.nl			
			www.coops-nieborg.nl			
			YARD DRAWING NO.:	YARD NO.:	DRAWING No.	FORM SHEET EDITION
				P22003	016	
						A

A	Total revision	02.07.2019	M.K.
Index	Changes	Date	Name



Cross-section A-A



All Weldings a=5

sand-blast+Sigma-weld 199
Weight cover+ring 48kg/pcs

5	1		Ring	0.0	0.0	27.6	S355J2G3	
4	1		Neophrene Ø8 seal	0.0	0.0	0.0		Ø482
3	1		Cover	0.0	0.0	9.5	S355J2G3	
2	1		Top Cover	0.0	0.0	10.9	S355J2G3	
1	12	11521782	Hex.head screw ISO 4017-M 16x25-8.8	25.0	0.0	0.0	8.8	Galvanized
POS	QUANT	ARTICLE NR	DENOMINATION	L[mm]	B[mm]	Gew[kg]	MATERIAL	REMARKS

COOPS & NIEBORG BV

HOOGZAND-HOLLAND

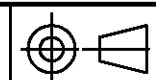
P. O. BOX 226
9600 AE Hoogezand

TEL. 00-31-(0)598-395500
Fax. 00-31-(0)598-392427

E-mail: tekenkamer@coops-nieborg.nl
www.coops-nieborg.nl

Cover+Ring
Ø610

Hatchcover



SCALE 1:5

DRAWN-DATE

D. J. 07. 07. 2016

CHECKED

M. K. 02. 07. 2019

TOLERANCE SYSTEM

ISO 2768-M

FORM
A4

SHEET

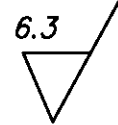
EDITION
A

YARD DWG NO.:

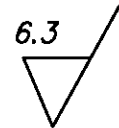
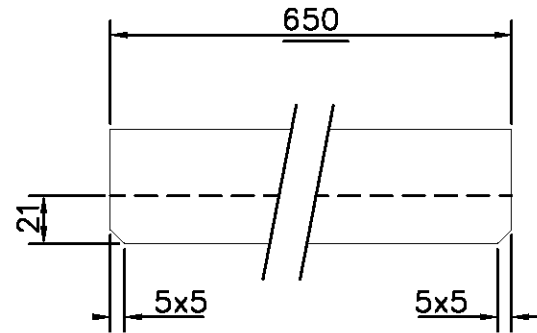
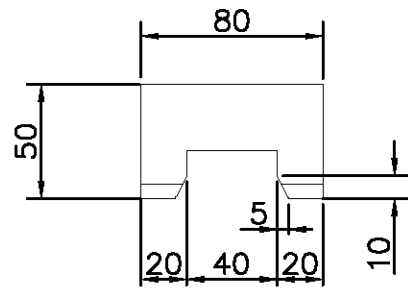
PROJECT NO.:

DRAWING No.

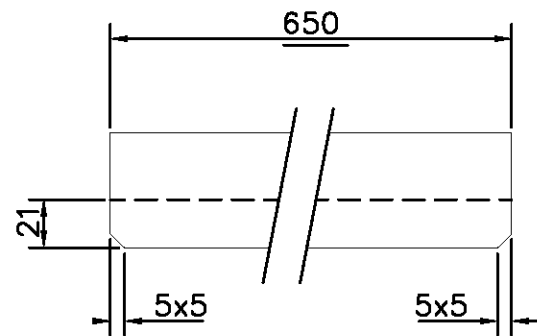
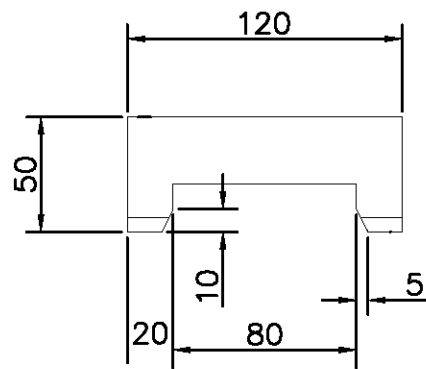
80012000



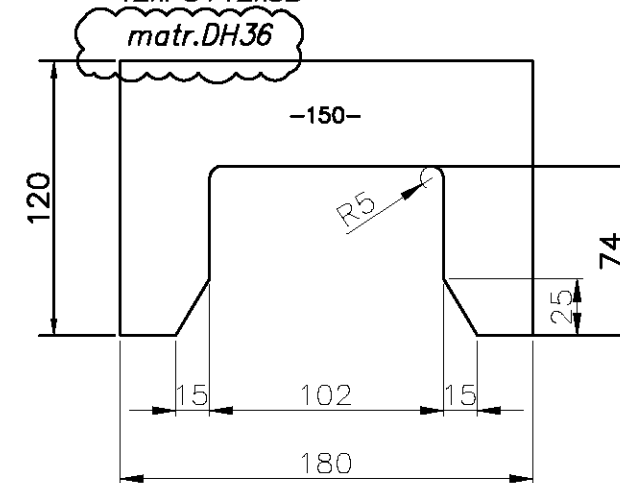
YZ stopper at PS matr.Hardox 500
Total = 37x



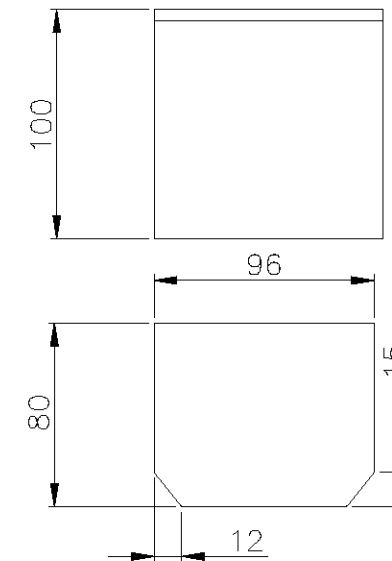
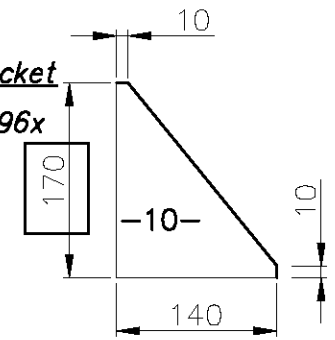
matr.Hardox 500
Z stopper at SB matr.Hardox 500
Total : 37x



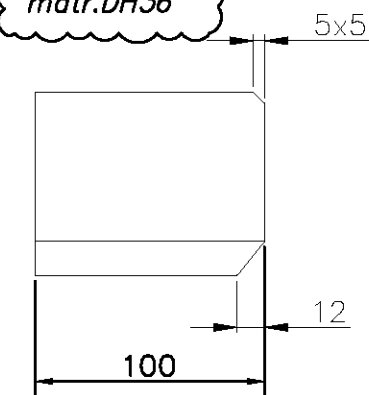
GP X-stopper
12xPS+12xSB
matr.DH36



GP X-stopper bracket
hor.+vert.sidebracket 96x
matr.AH36

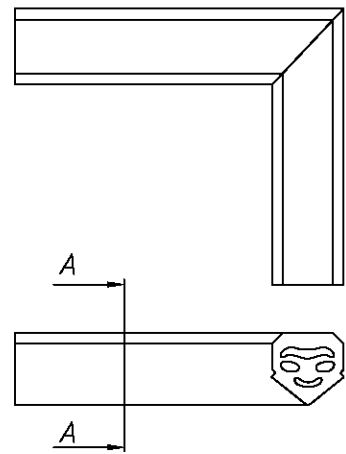


GP X-stopper PS+SB
coamingpart 24x
matr.DH36



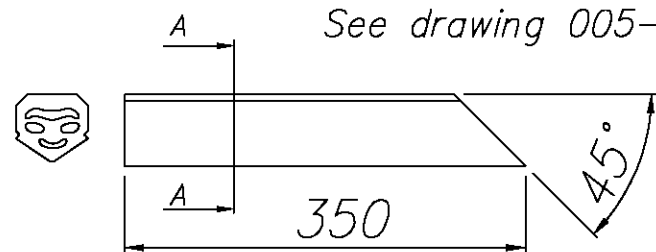
ITEM No.	OFF No.	DWG No.	DENOMINATION	DIMENSION	MATERIAL	REMARKS
120/70-01-2003	120/70-01-2003		COOPS & NIEBORG BV HOOGEZAND-HOLLAND P.O.BOX 226 9600 AE Hoogezand TEL.00-31-(0)598-395500 Fax.00-31-(0)598-392427 E-mail: tekentkamer@coops-nieborg.nl www.coops-nieborg.nl	Machining Parts Hatchcovers HS-Shipping	SCALE 1: DRAWN-DATE ESS 0-08-2022 CHECKED TOLERANCE SYSTEM DIN 2310	FORM SHEET EDITION B
YARD DRAWING NO.:	YARD NO.:	DRAWING No.:				
	P22003	017				

164 4x 60027104
RUBBER hoek 90gr. type CNCAT07



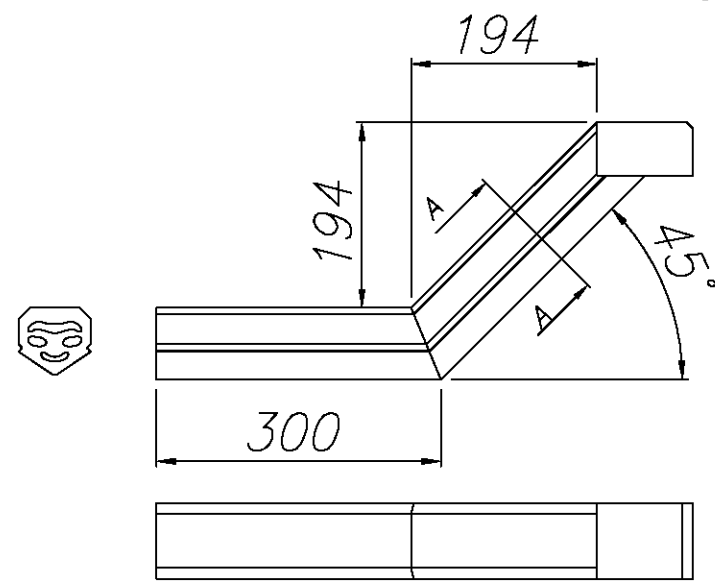
171 22x 60027105

RUBBER eindstuk type CNCAT08
See drawing 005-2



162 22x 60027088
RUBBER hoekstuk type CNCAT06

See drawing 005-2



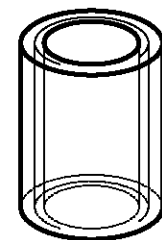
Catprofile 71x67

161 60009450
RUBBER 94x50
totale lengte 150meter



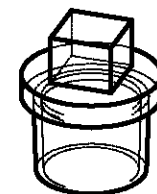
80070420 12x

1/2" socket.
D 26,6 x L 34,5



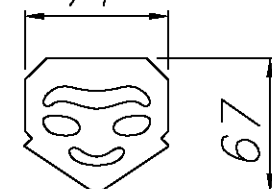
80070020 12x

1/2" stop galvanized



163 60007267

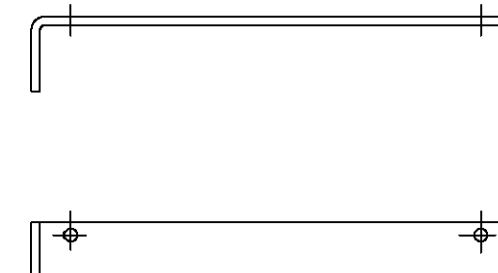
RUBBER CATPROFILE 71x67
totale lengte 151 meter
71 See drawing 005-2



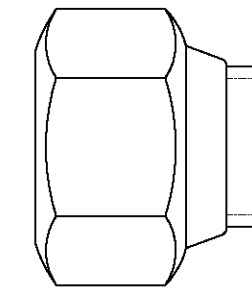
50051046 2x 197
See drawing 003-12



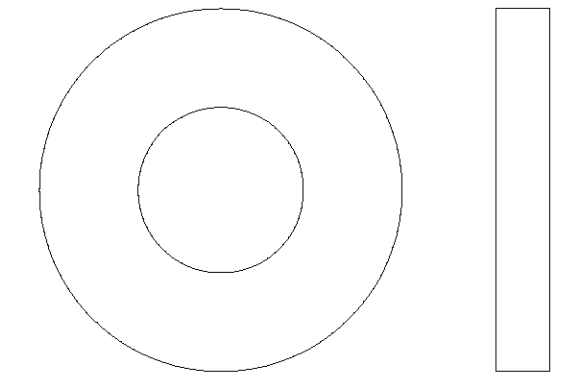
50051047 4x



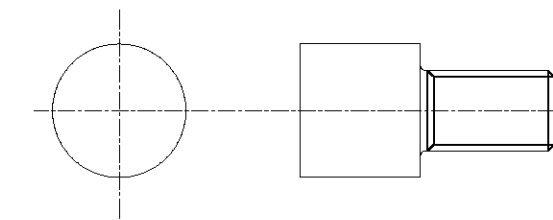
11520130 36x 413
For cleat 60001104
See drawing 011-3



11537230 36x 412
For cleat 60001104
See drawing 011-3



50060225 36x 403
For cleat 60001104
See drawing 011-3



Kvaerner cleat complete with bolt (48x)
See drawing 011-2

403 60001101

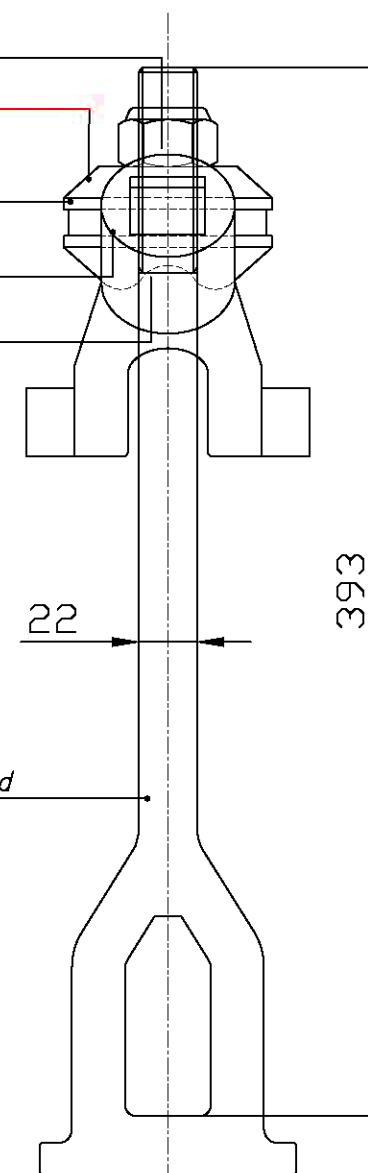
Self-locking nut M22
ZG/122202-4

ZG/10.95.02

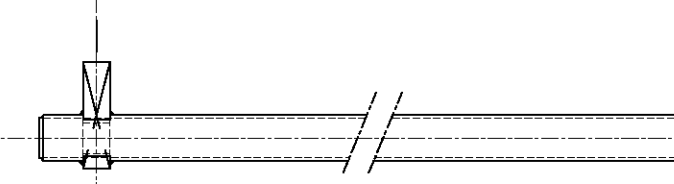
rubber washer 10.49

ZG/123024-3

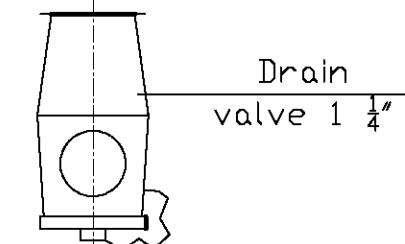
M22 L=400 10.66 bolt-rod



91000010 2x
For cleat 60001104+60001101
See drawing 011-3 and 011-2

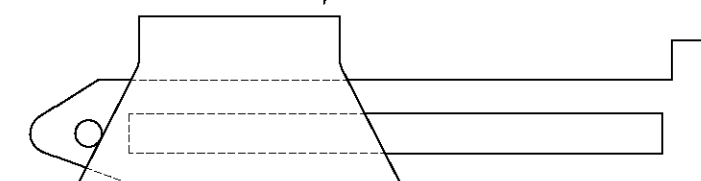


80003045 6x



Drain
valve 1 1/4"

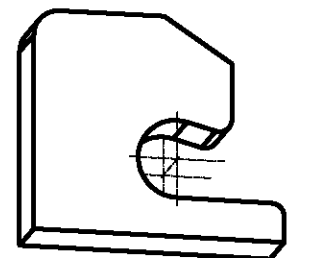
170 90001202
Keggen type MGN 12.02
66x See drawing 005-1
+1 spare



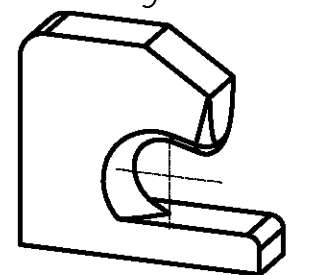
Kvaerner cleat complete with bolt (36x)
See drawing 011-3

404 60001104

50052050 48x
For cleat 60001101
See drawing 011-2

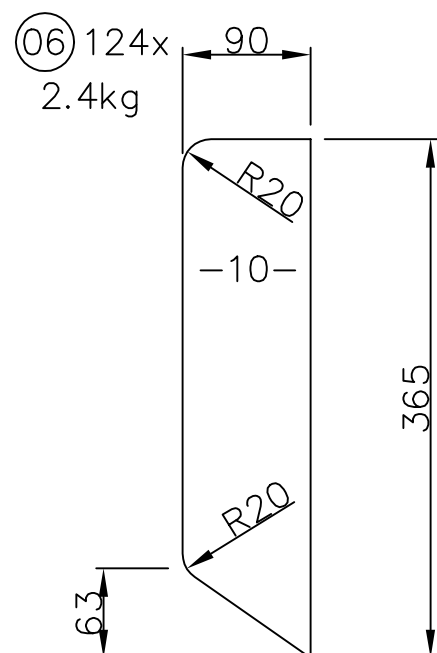
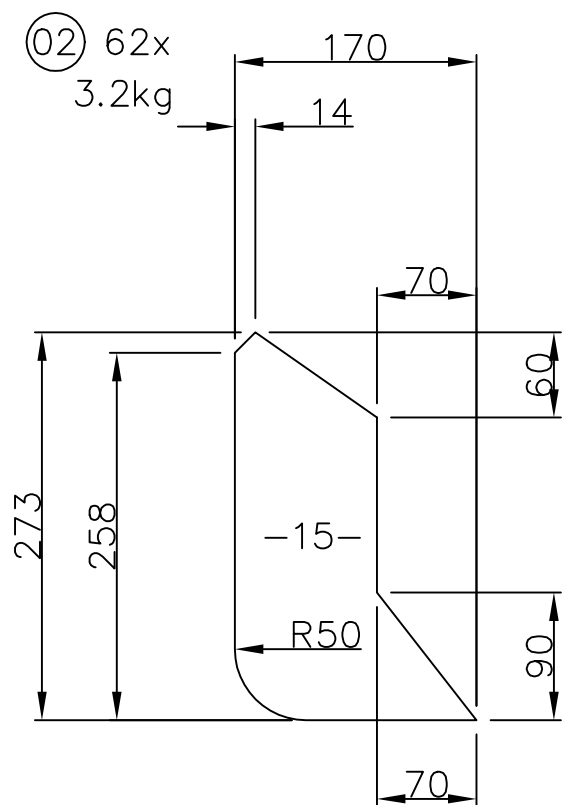
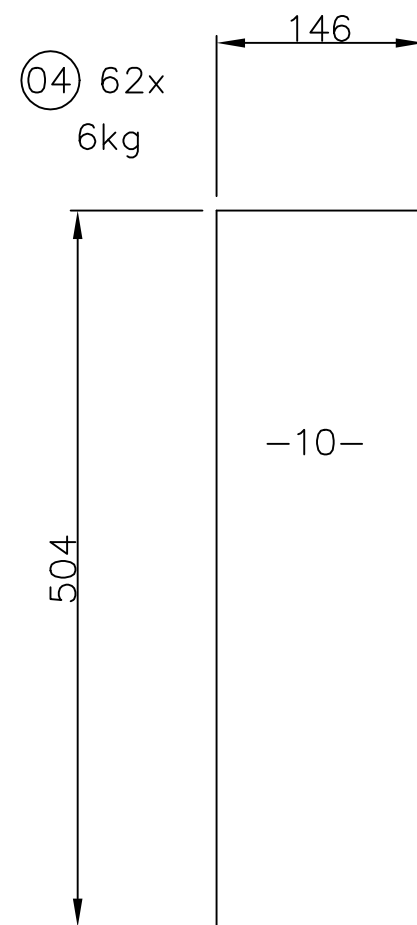
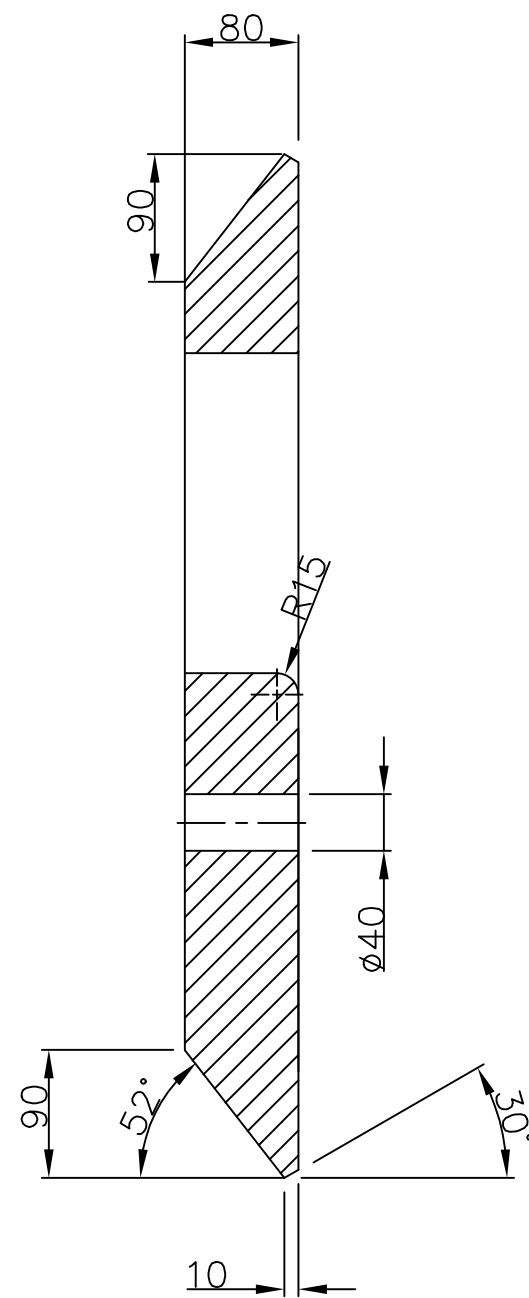
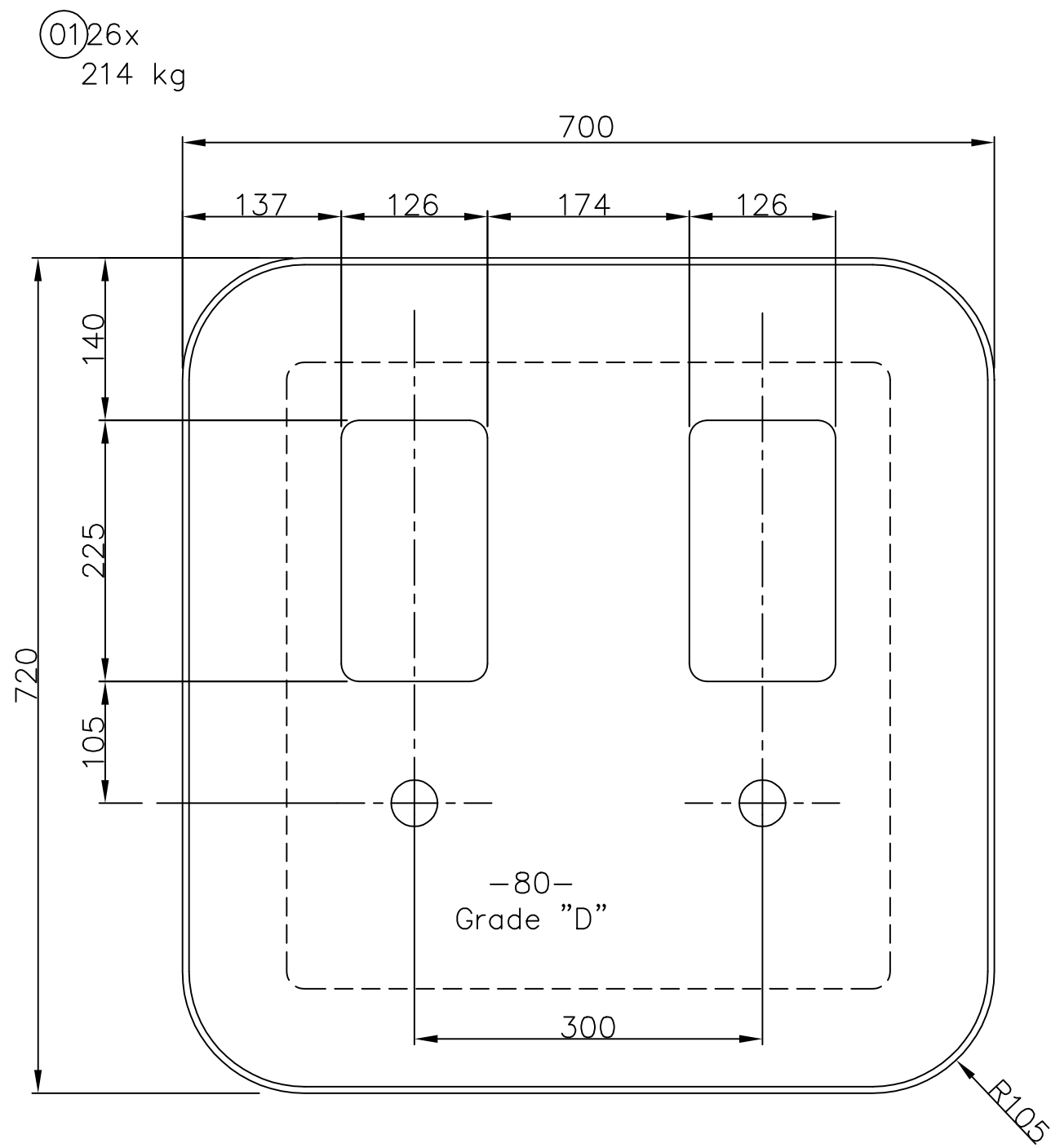
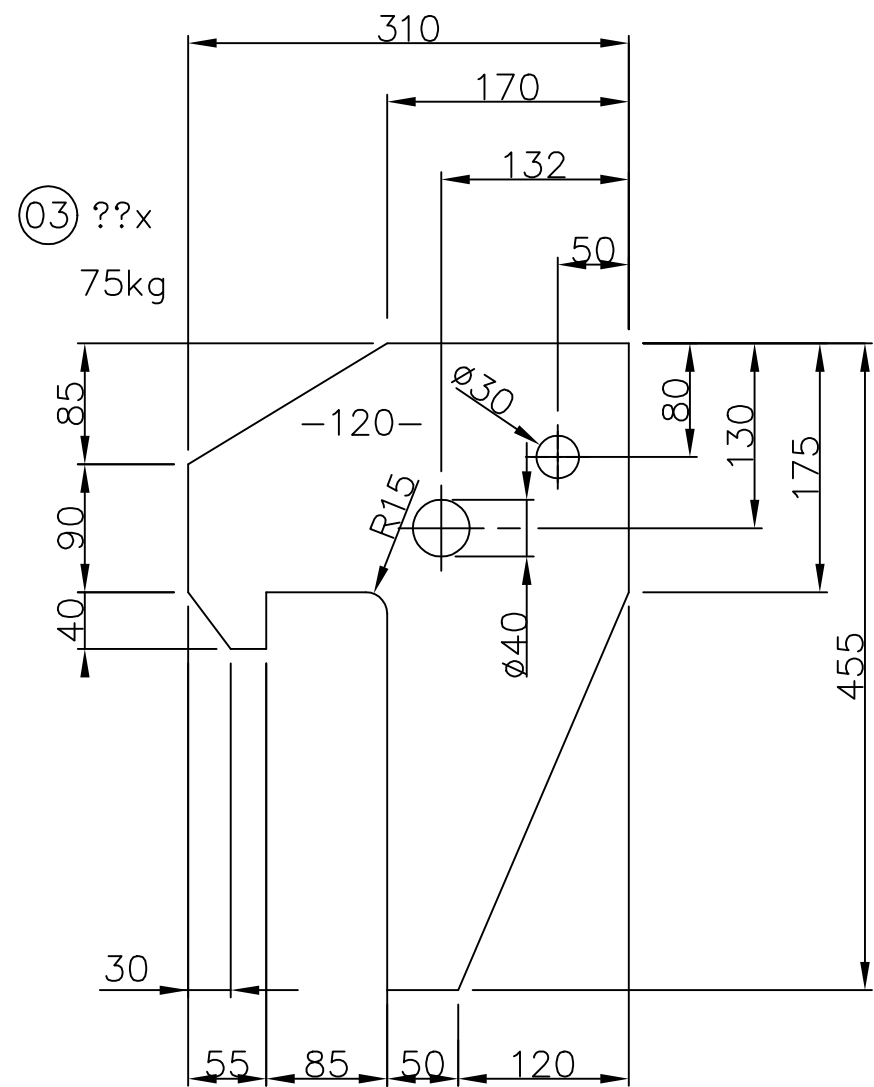
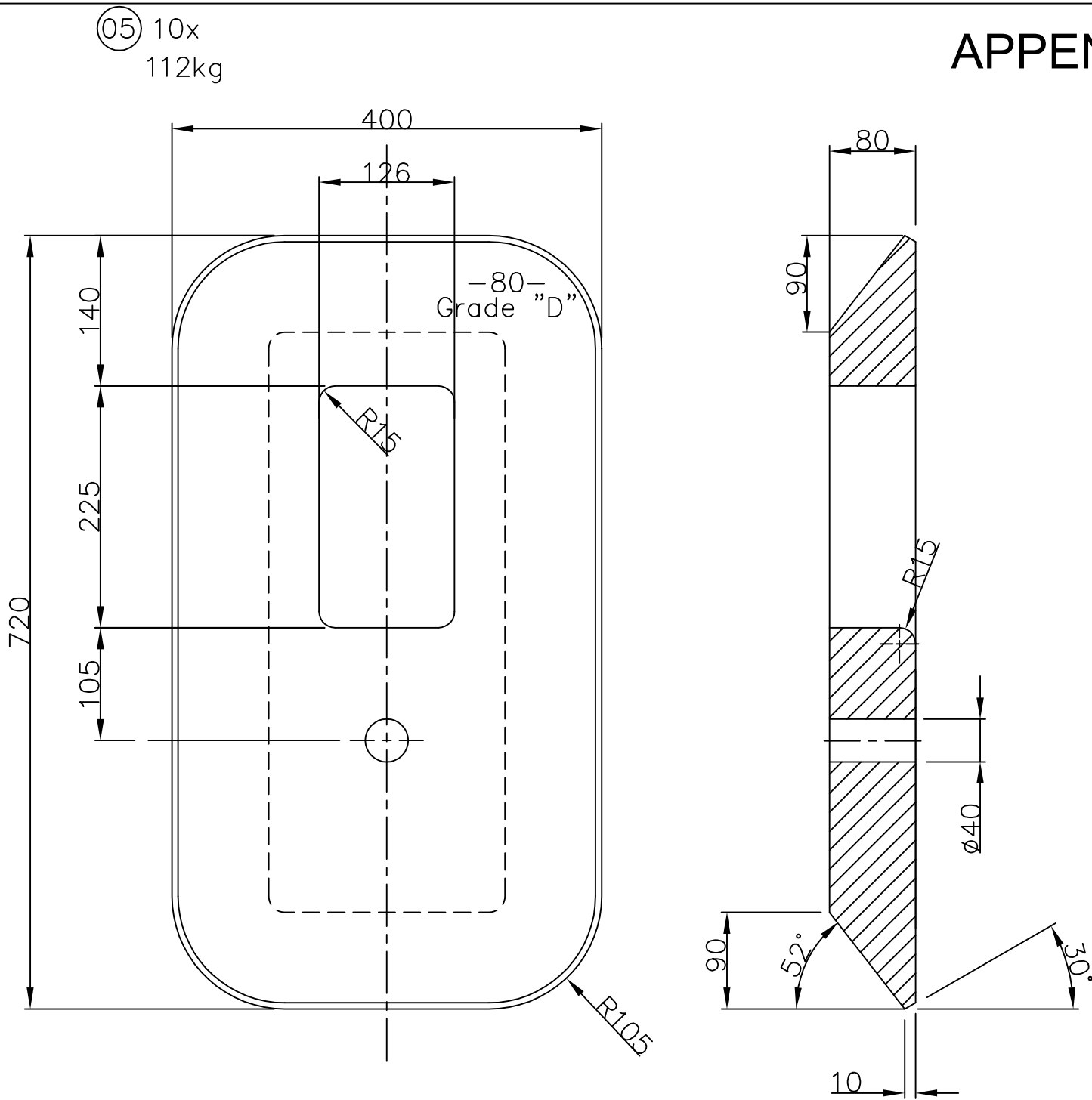


50052053 36x
For cleat 60001104
See drawing 011-3



ITEM No.	OFF No.	DWG No.	DENOMINATION	DIMENSION	MATERIAL	REMARKS
ESS/02-9-2022			COOPS & NIEBORG BV HOOGEZAND-HOLLAND P.O.BOX 226 9800 AE Hoogezand TEL.00-31-(0)598-395500 Fax.00-31-(0)598-392427 E-mail: tekenkamer@coops-nieborg.nl www.coops-nieborg.nl	Key Parts Hatchcovers HS-Shipping	SCALE 1: DRAWN-DATE ESS 02-9-2022 CHECKED TOLERANCE SYSTEM DIN 2310	FORM SHEET A
YARD DRAWING NO.:	YARD NO.:	DRAWING No.:	FORM	SHEET	EDITION	
	P22003	019/1			A	

APPENDIX - F



Material: AH36 unless otherwise mentioned
Material: 3.2 Certified

Item No.	Off No.	DWG No.	Denomination	Dimension	Material	Remarks
05	10x	112kg	Support Tweendeck			
01	26x	214 kg				
03	??x	75kg				
04	62x	6kg				
02	62x	3.2kg				
06	124x	2.4kg				

COOPS & NIEBORG BV	YARD DRAWING NO.:	YARD NO.:	DRAWING No.	FORM	SHEET	EDITION
HOOGEZAND-HOLLAND		P22003	113			
P.O.BOX 226 9600 AE Hoogezand						
TEL.00-31-(0)598-395500 Fax.00-31-(0)598-392427						
E-mail: tekenkamer @ coops-nieborg.nl www.coops-nieborg.nl						



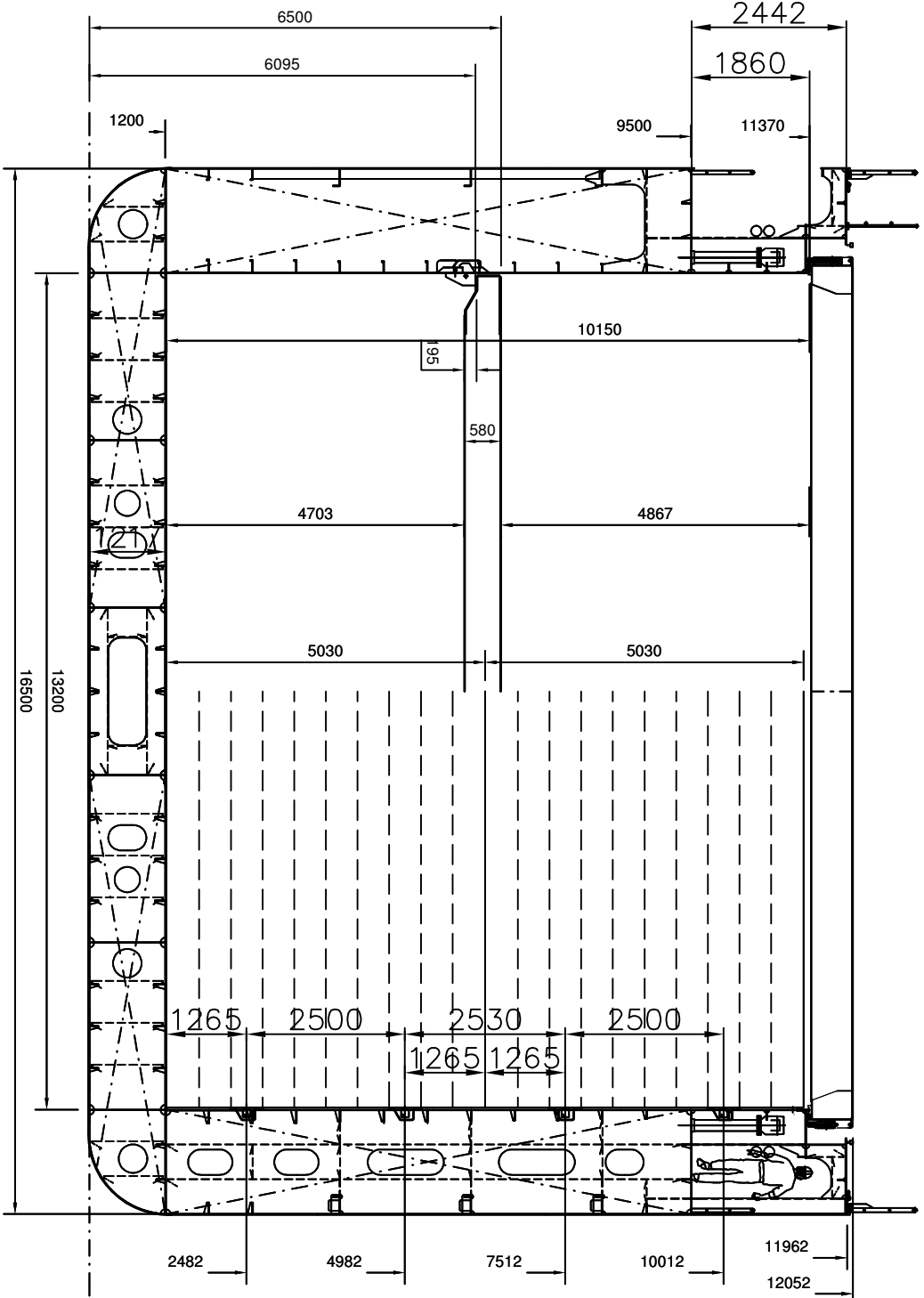
[illegible]

Technical drawing of a typical roof section. The drawing includes a side elevation and a plan view. The side elevation shows a roof with a total height of 117, a base width of 160, and a top width of 300. The roof is divided into two sections with heights of 5 and 135. The plan view shows a square base with a side length of 150 and a total width of 200. The drawing is labeled with dimensions and typical heights.

Typical heights

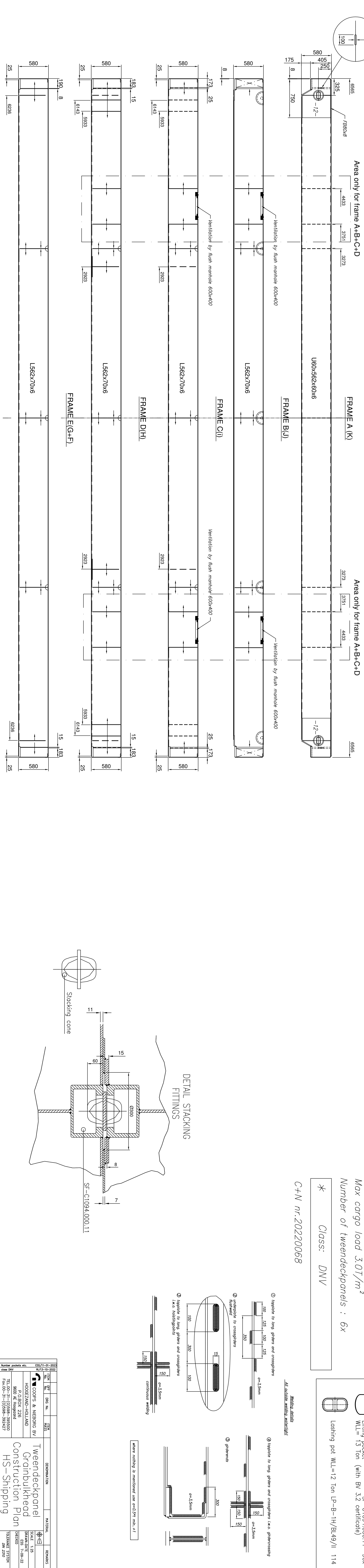
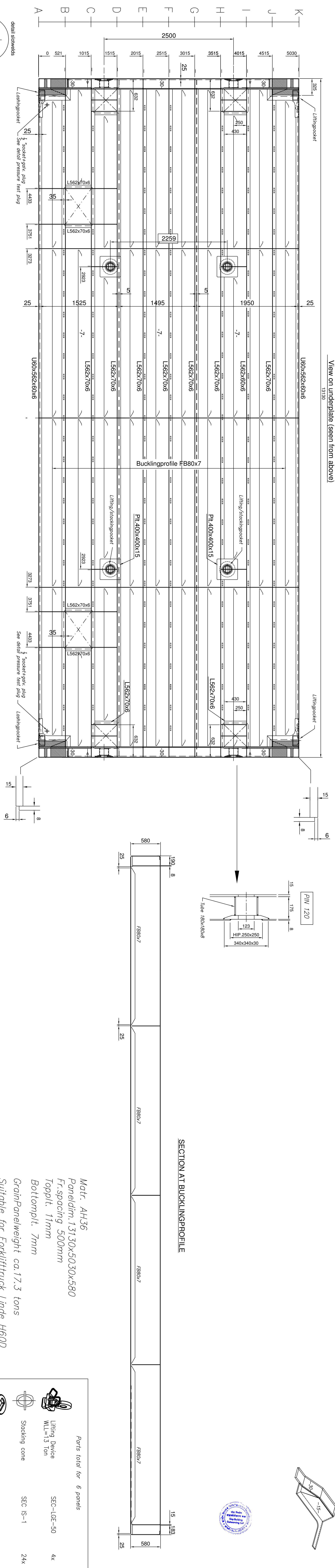
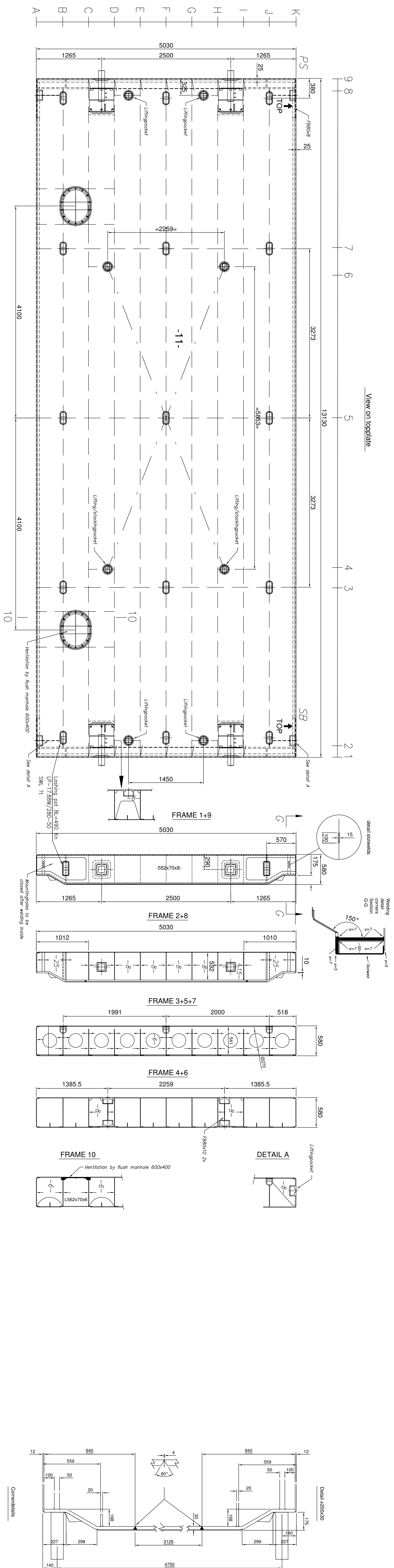
2482 ob
4982 ab
7512 ob
10012 ab

hip.300
hip.165
hip.135
5
5
117
160
15
200
10
150
15
10
Scale 1:5

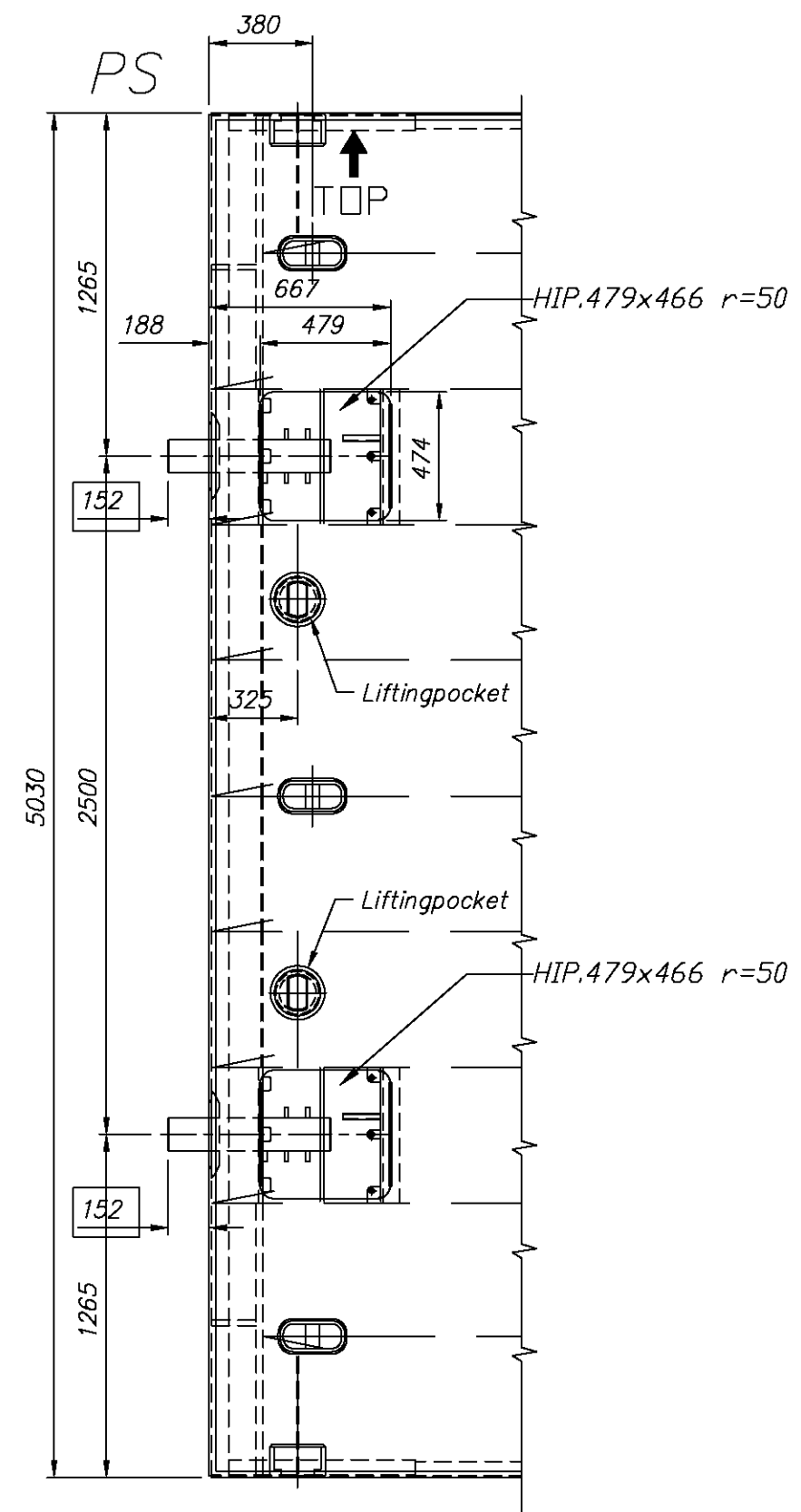


* Class:	DNV
----------	-----

[illegible]

[illegible]

PS aft is drawn, SB side is similar



Innerview PS aft is drawn, SB side is similar

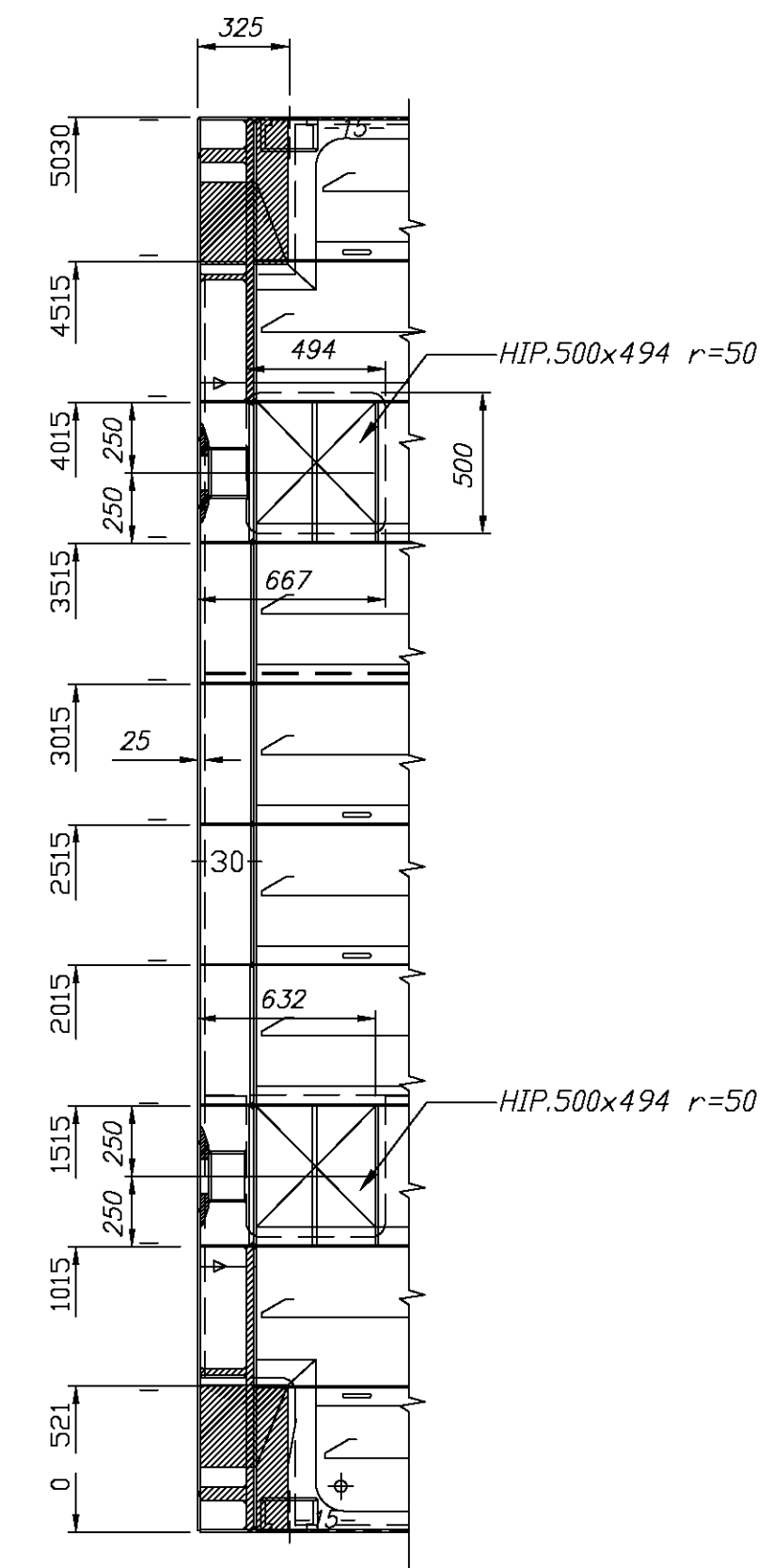
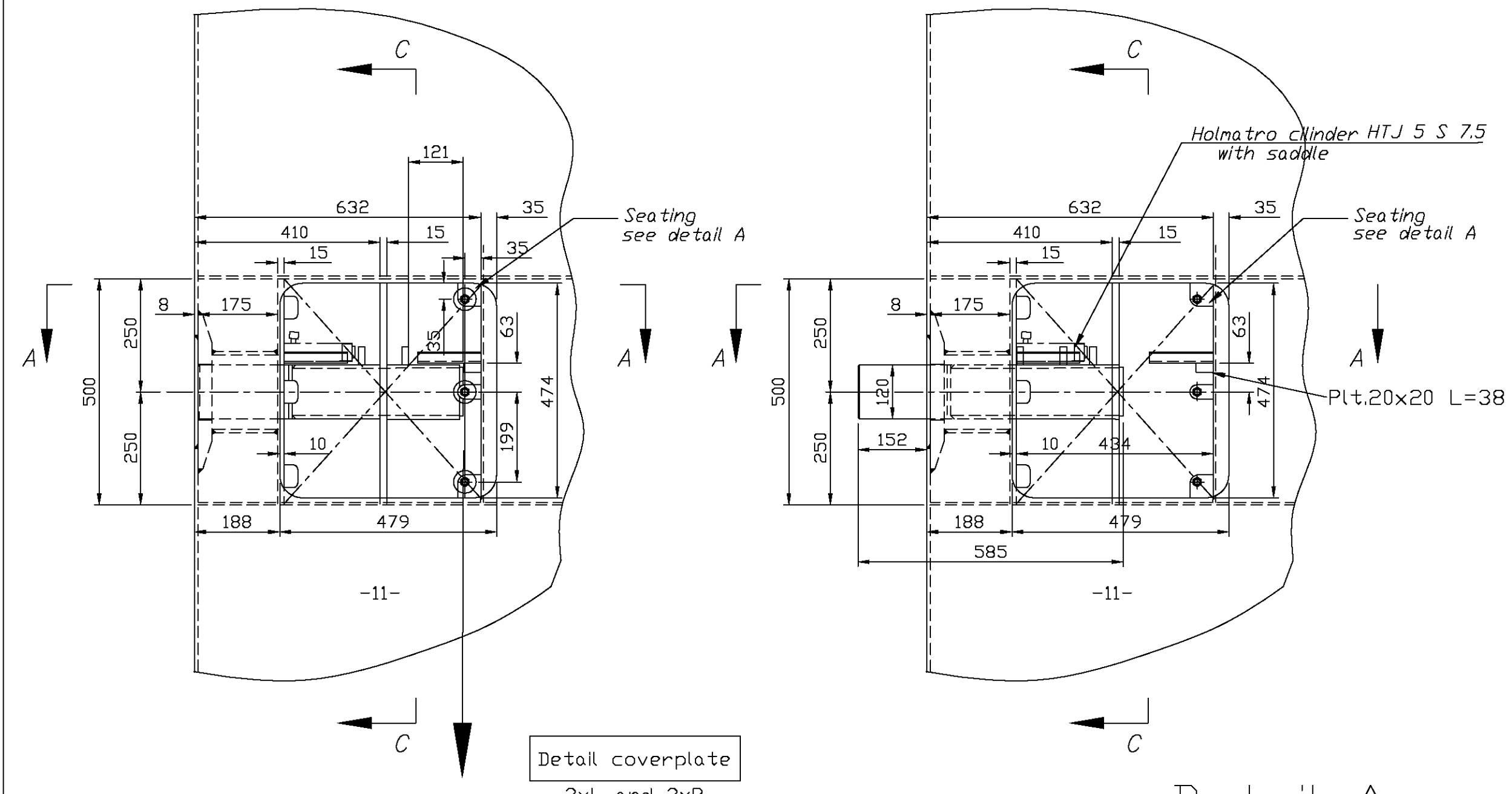
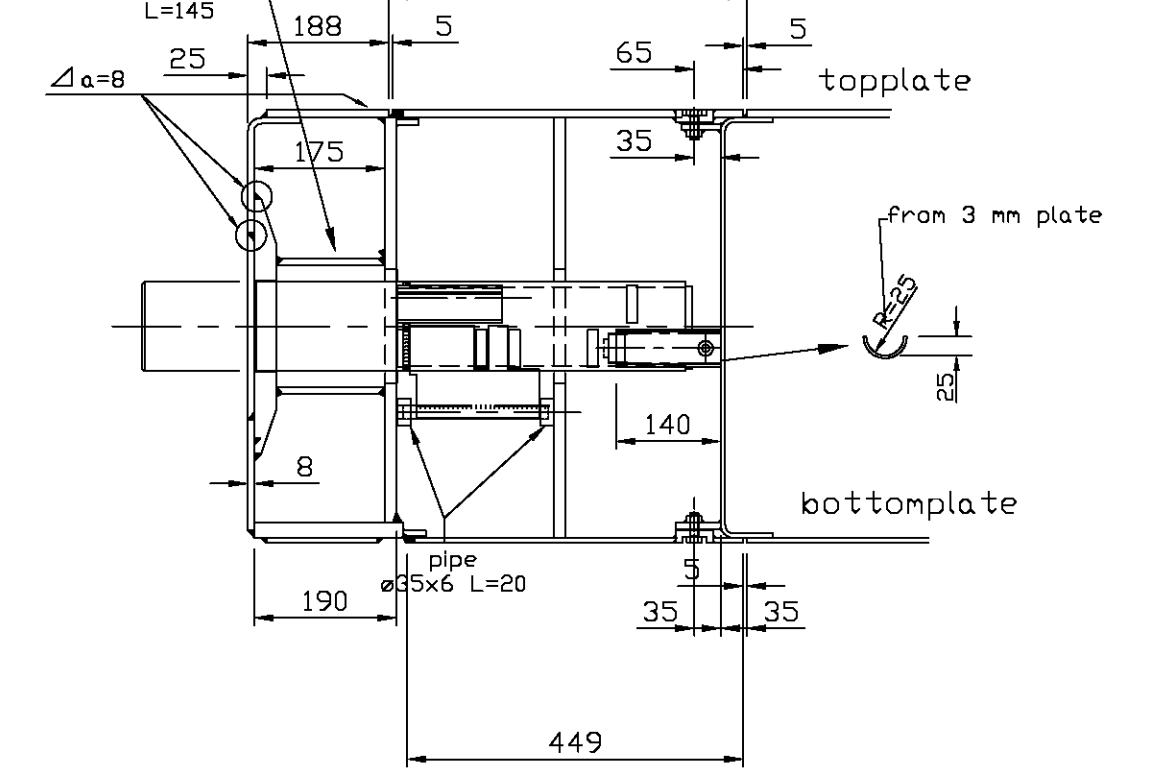
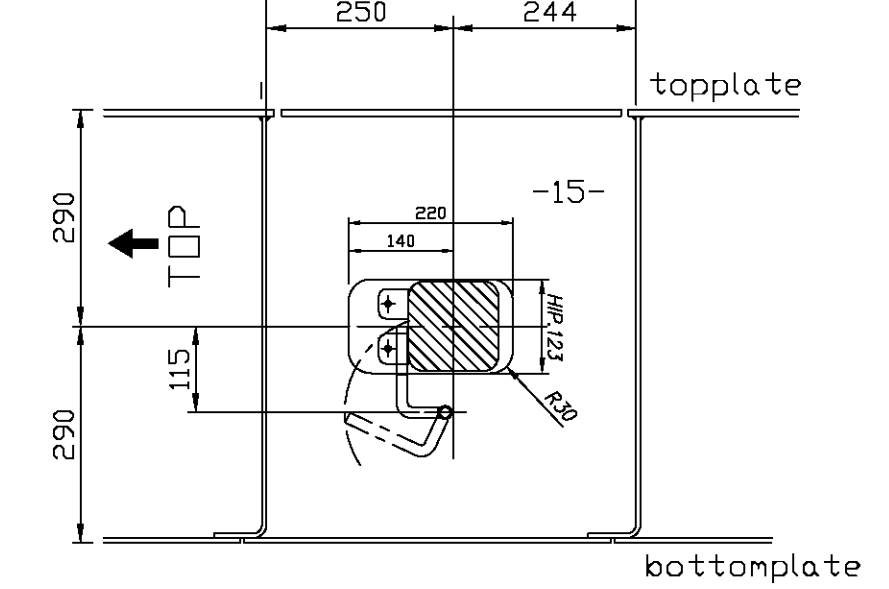
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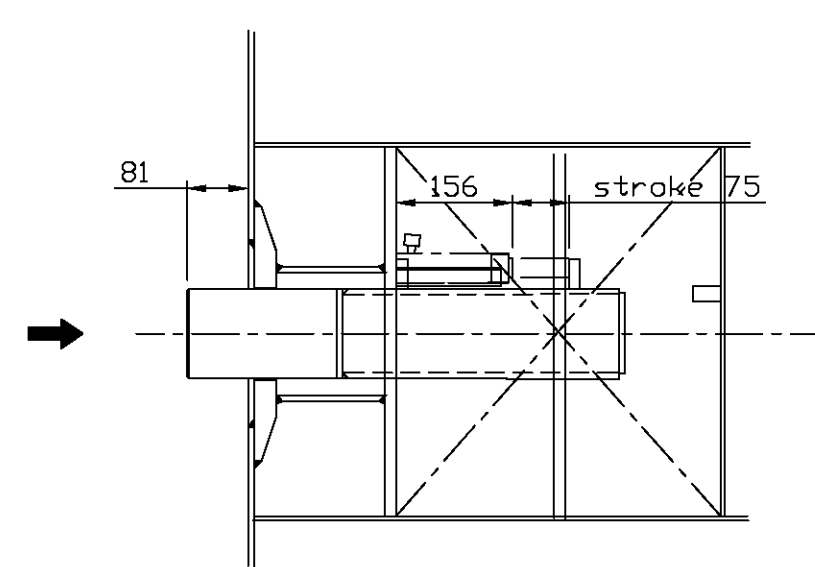
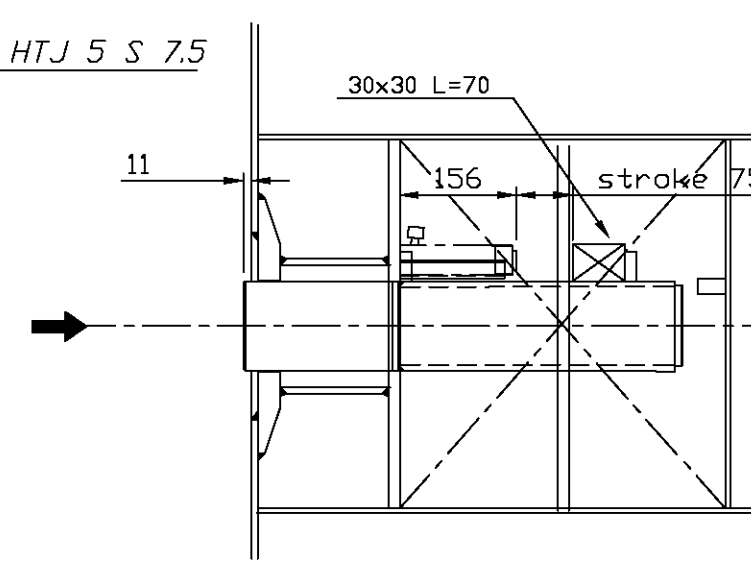
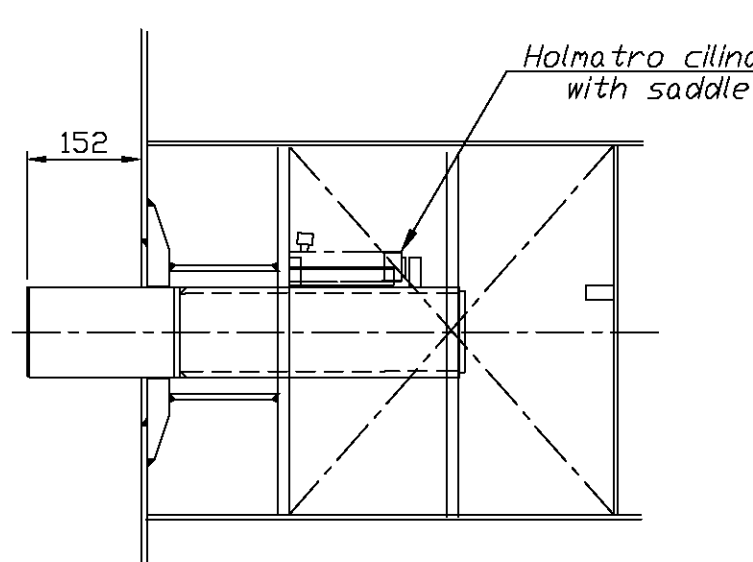
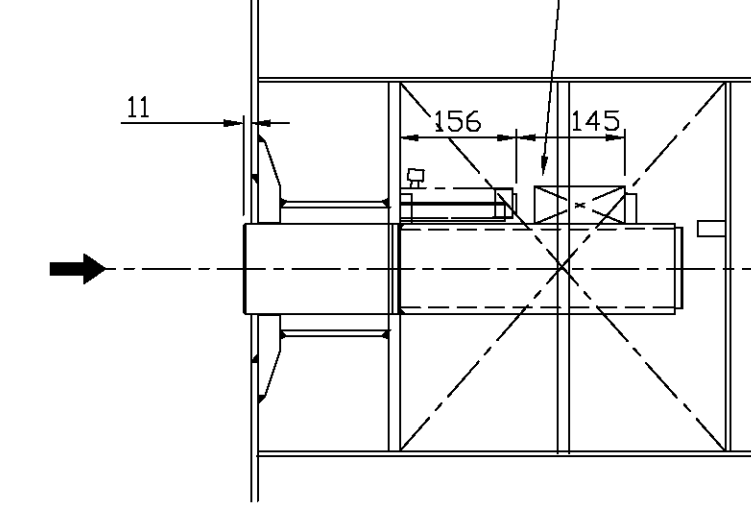
Diagram of a channel section with dimensions: 200x8, 479, and 35.



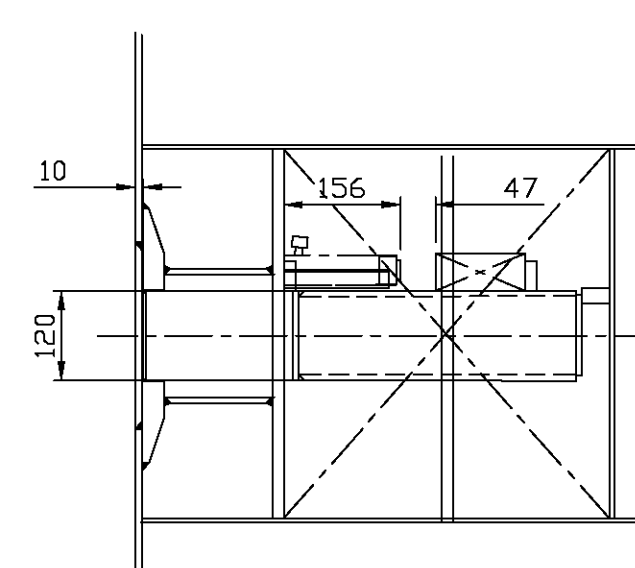
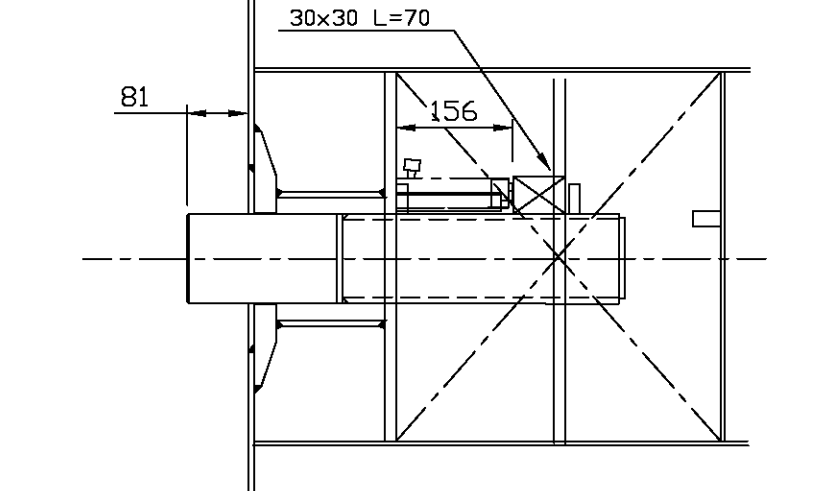
494



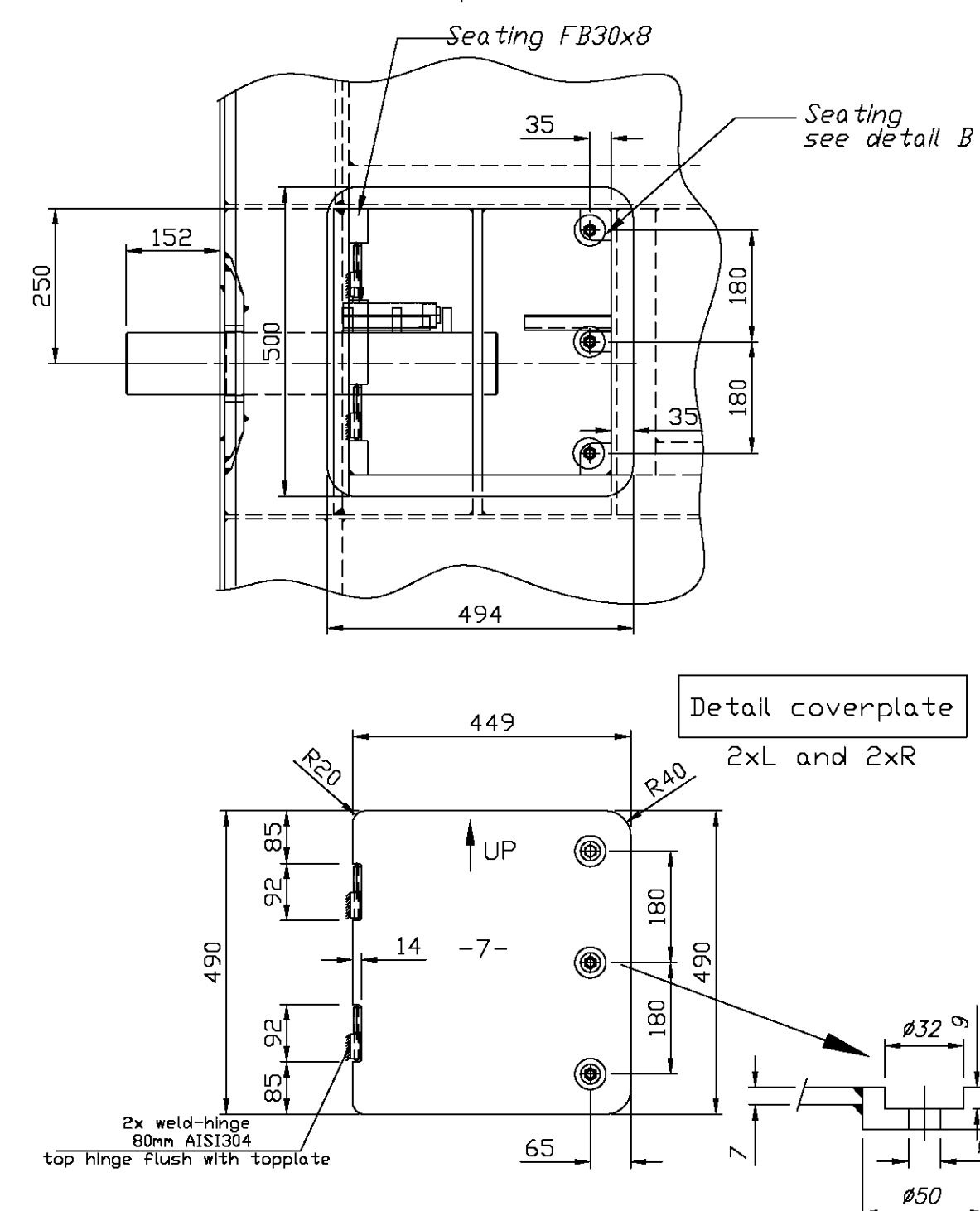
Holm

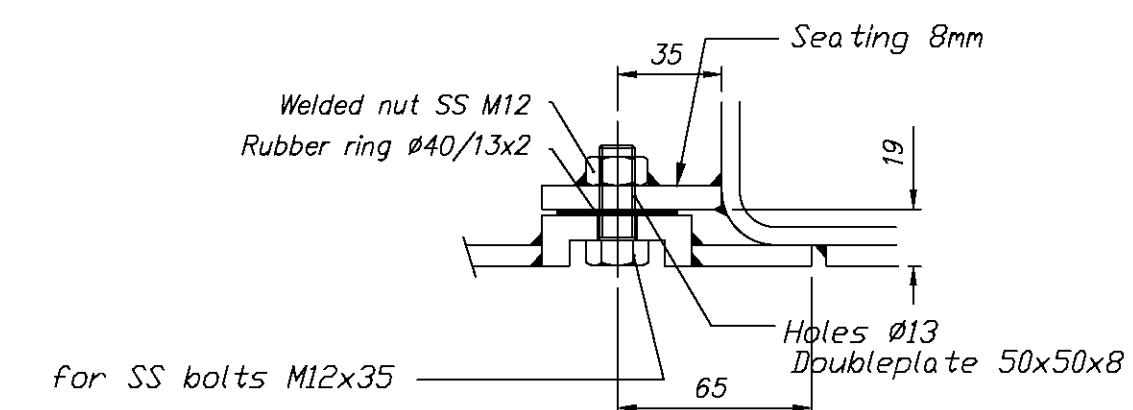
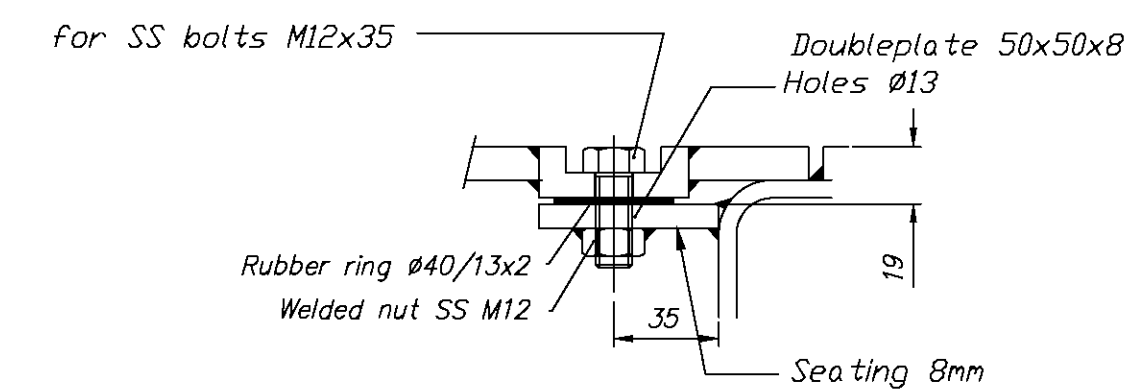
[illegible]

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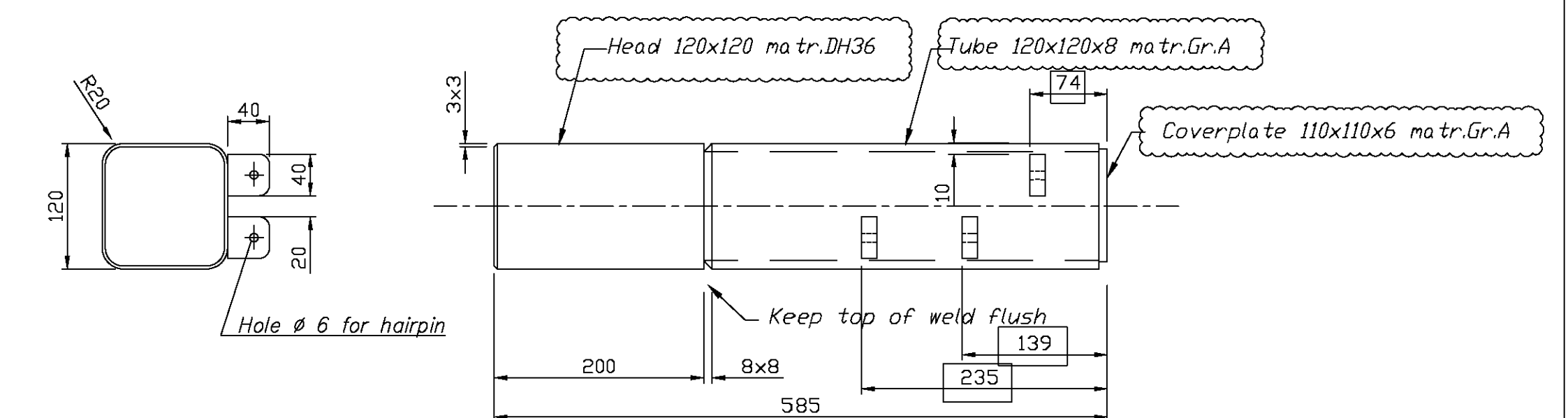
Seating FB30x8







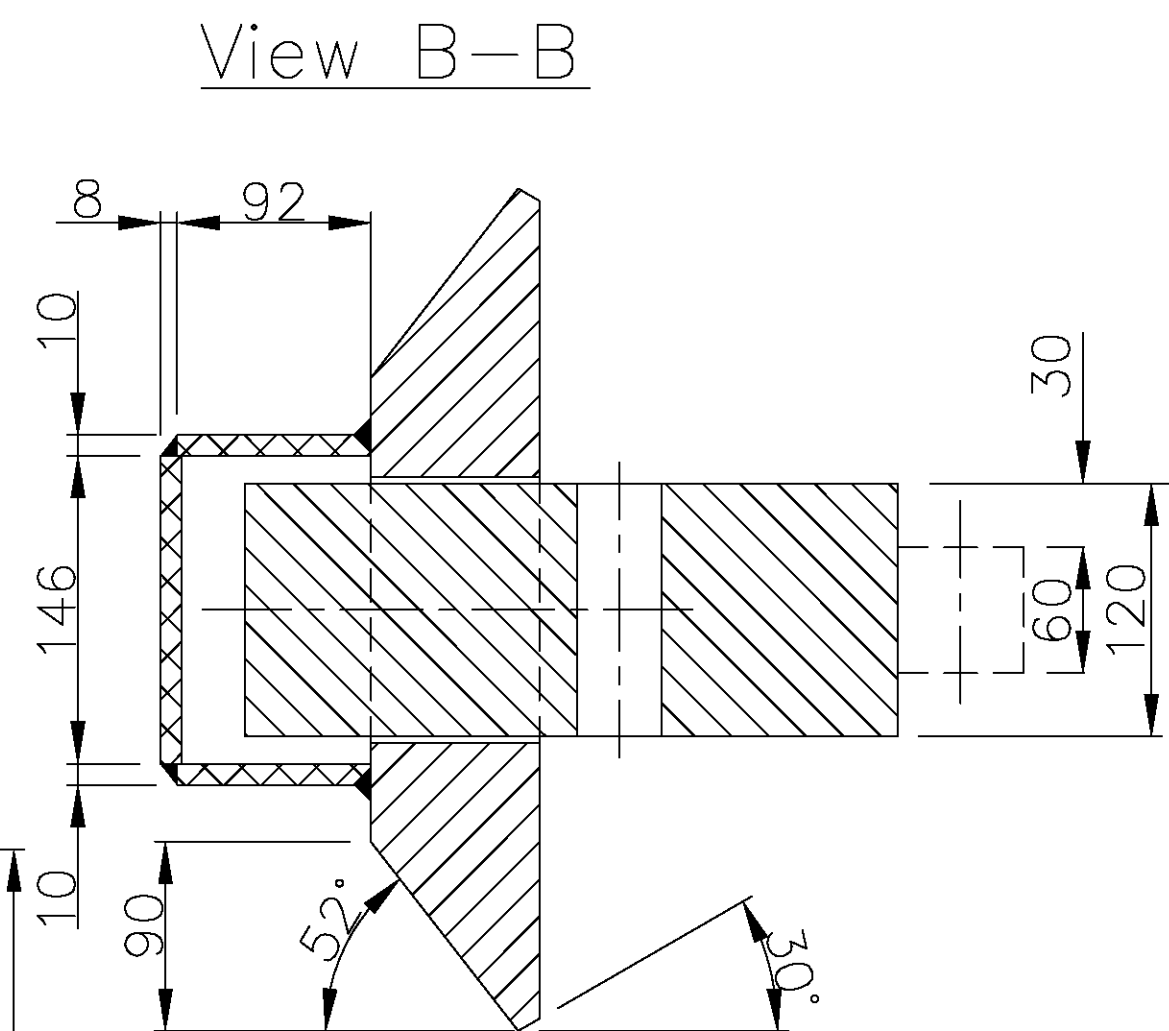
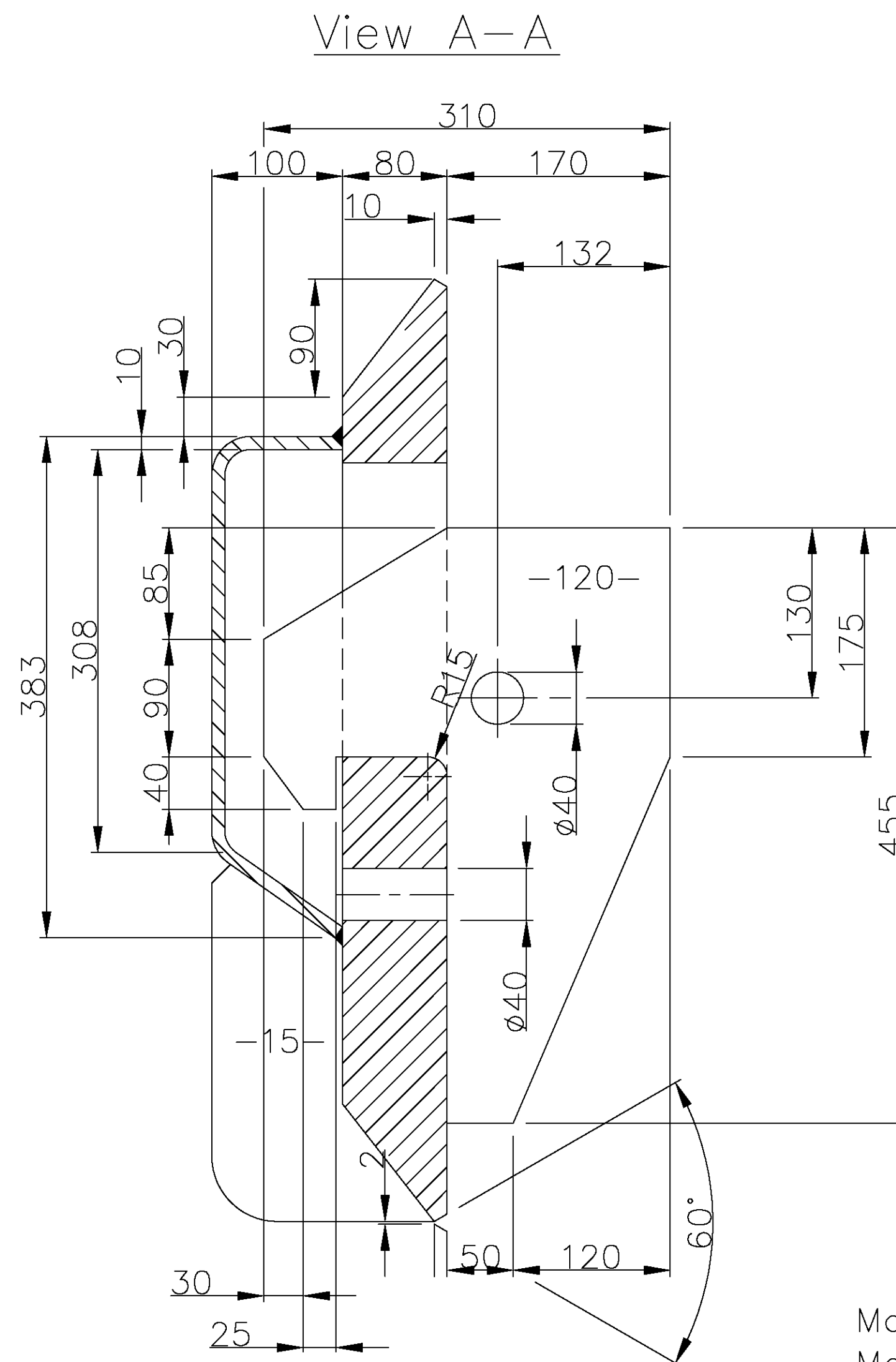
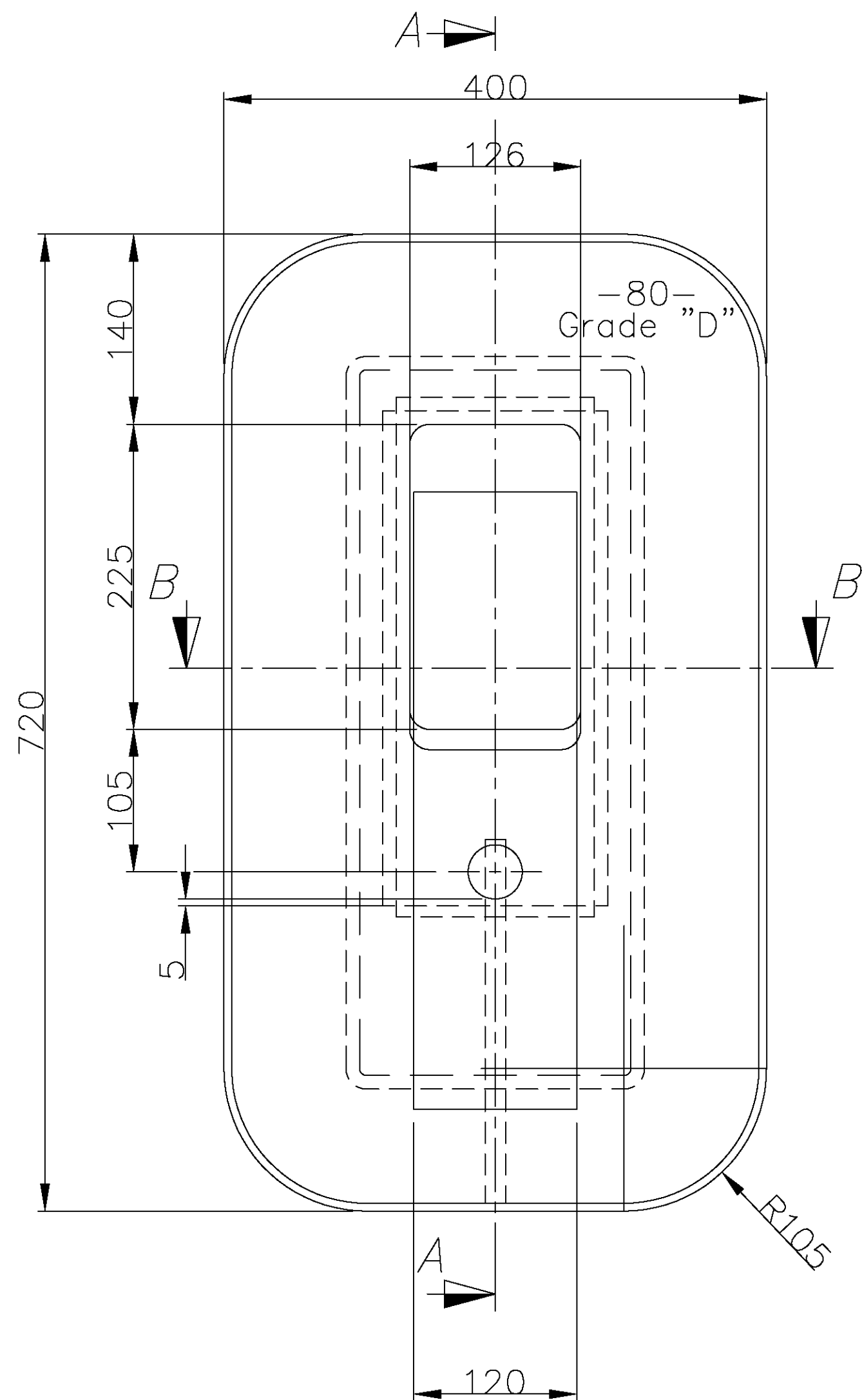
2x as drawn and 2x in mirrorview

After placing the pin into the pinbox in



ESS (1-1-2023) ESS (7-12-2022)		ITEM No. OFF No. DRG No. ITEM MASS		DENOMINATION		MATERIAL		REMARKS	
 COOPS & NIEBOEG BV HOOGEZAND - HOLLAND P.O. BOX 226 9600 AE Hoogezand TEL 00-31--(0)598-395500 Fax 00-31--(0)598-392427		Pn. 470384 Metre		Grainbulkhead Tweendeckpanel Sidepins 120 HS-Shipping		 SCALE 1:25/10 DRAWN-DATE ESS 8-09-2022 CHECKED		TOLERANCE SYSTEM DIN 2310	
Day Date By	E-mail: tekken@coops-nieboeg.nl www.coops-nieboeg.nl			YARD DRAWING NO.: Y22003	YARD NO.: 022	DRAWING NO. 022	FORM SHEET B		


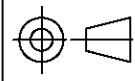
Copyright by konstruktiebedrijf Coops & Nieborg B.V.

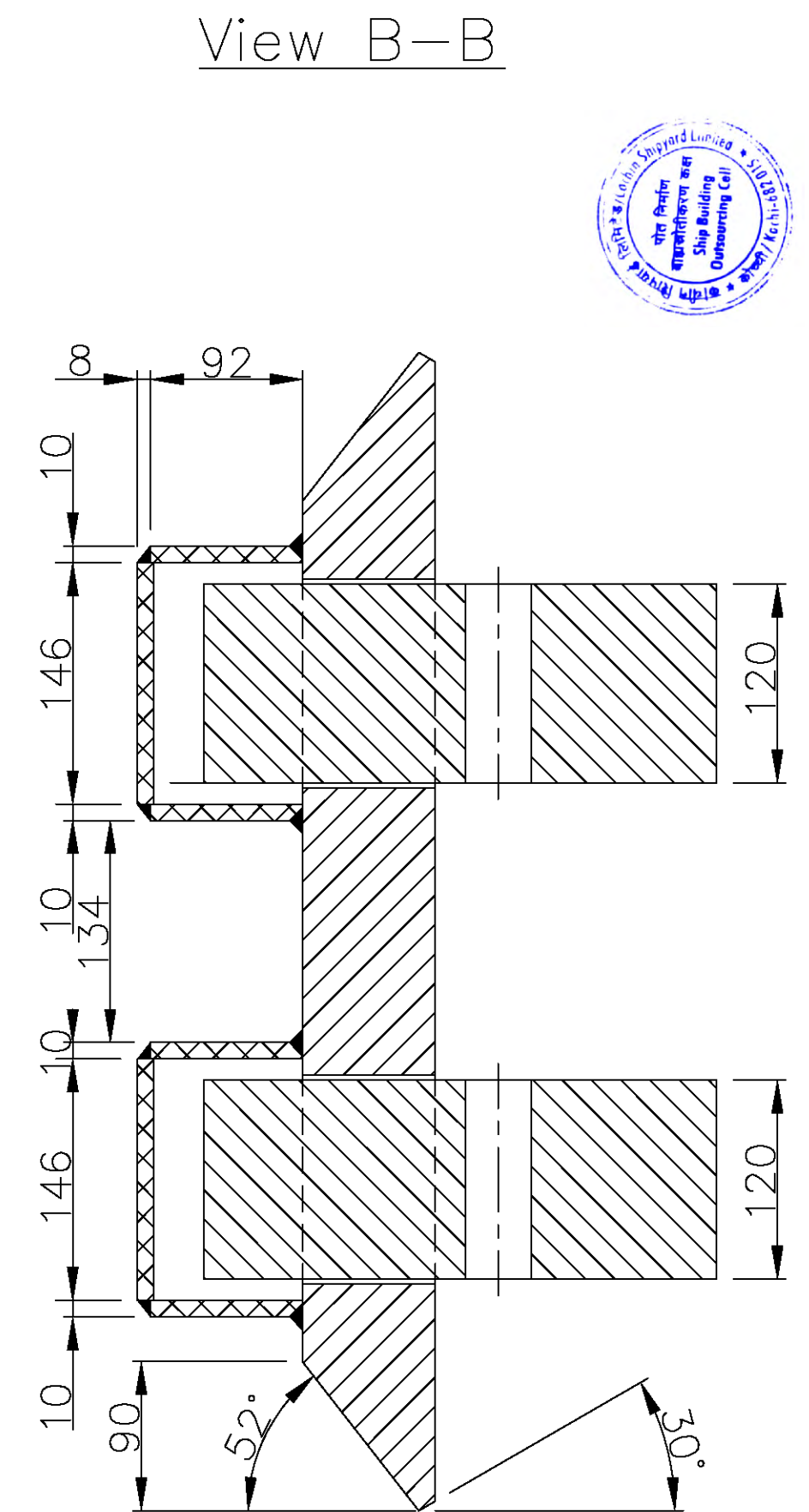
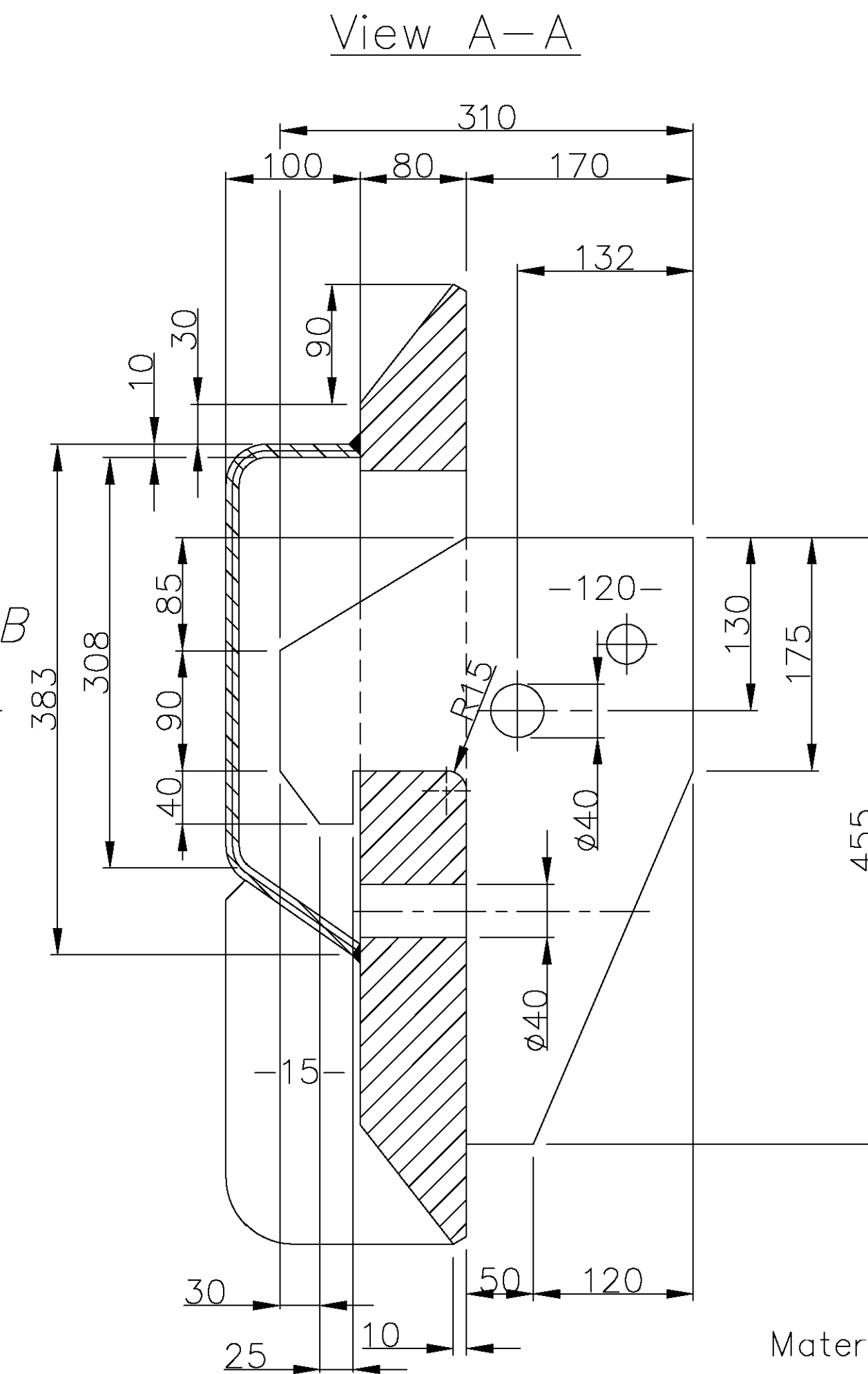
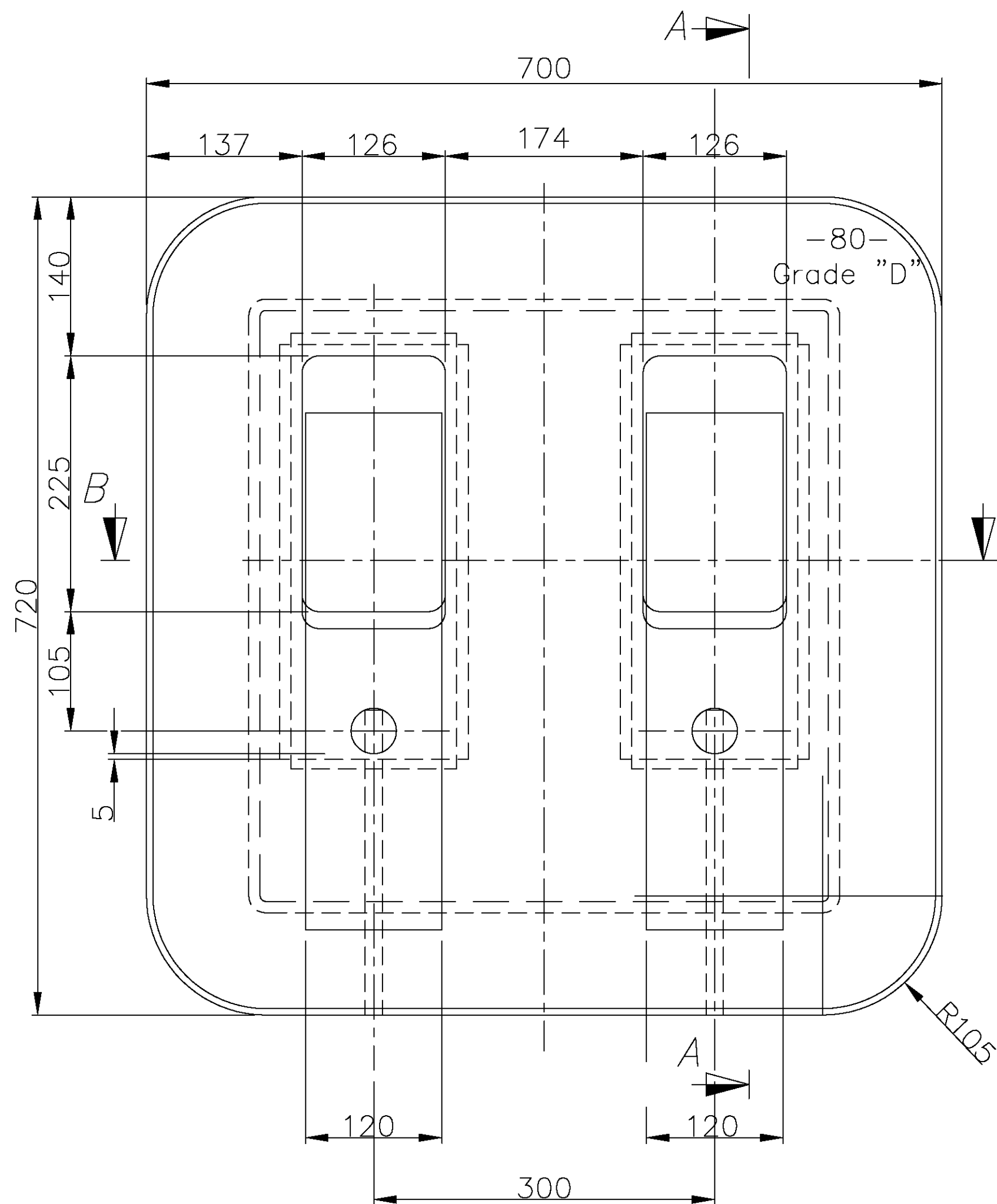


10x

Material: AH36 unless otherwise mentioned
Material: 3.2 Certified

Note: Welding of casing watertight
Weight housing : 126kg
Weight horsehead : 75kg


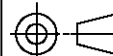
ITEM No.	OFF No.	DWG No.	DENOMINATION		DIMENSION	MATERIAL	REMARKS	
<div> COOPS & NIEBORG BV</div> <div>HOOGEZAND-HOLLAND</div> <div>P.O.BOX 226 9600 AE Hoogezand</div> <div>TEL.00-31-(0)598-395500 Fax.00-31-(0)598-392427</div>			Support Tweendeck					
						SCALE 1: 2.5		
						DRAWN-DATE R.I. 03-06-22		
						CHECKED		
						TOLERANCE SYSTEM DIN 2310		
Rev. A	E-mail: tekenkamer @ coops-nieborg.nl www.coops-nieborg.nl		YARD DRAWING NO.:	YARD NO.: P22003	DRAWING No. 111	FORM	SHEET	EDITION



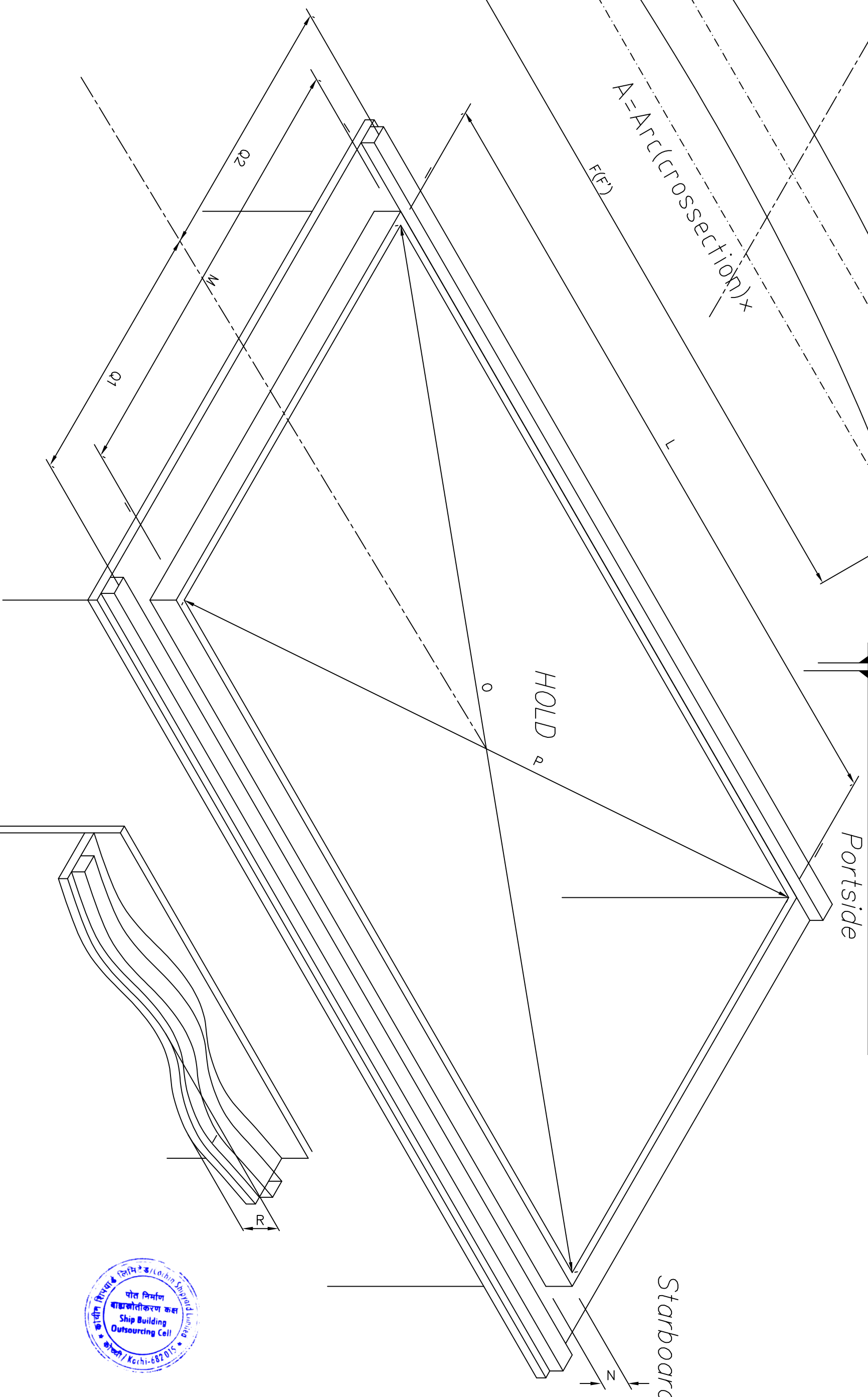
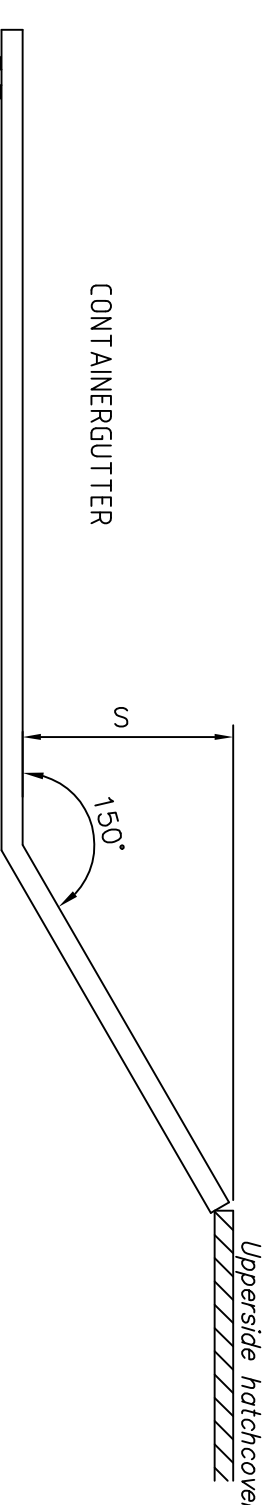
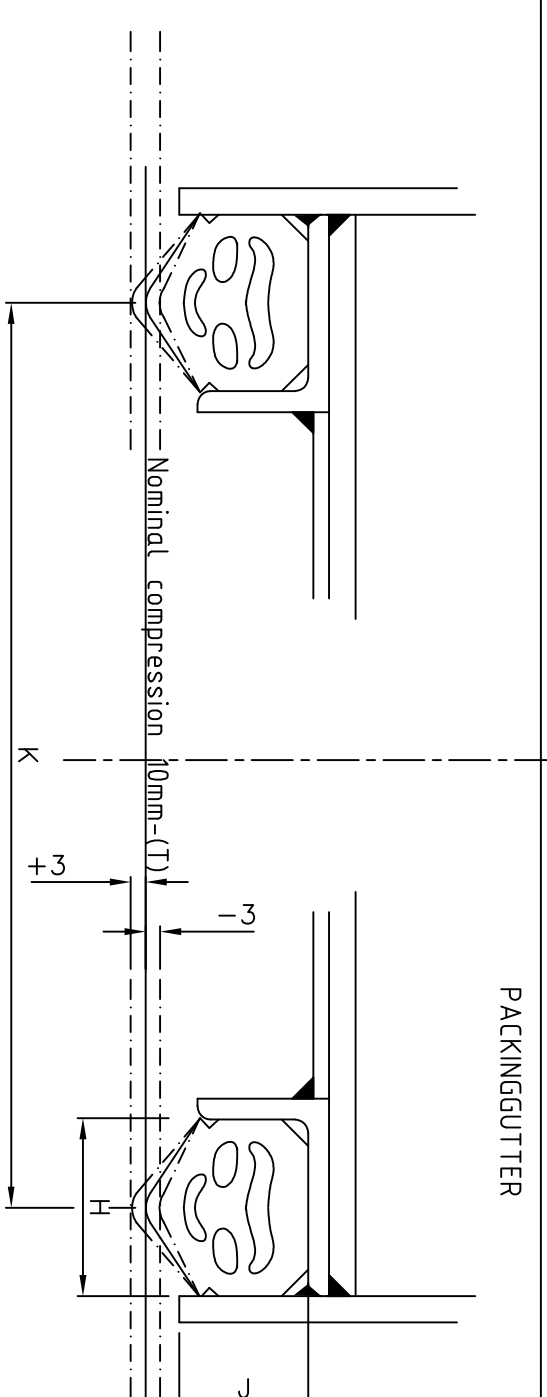
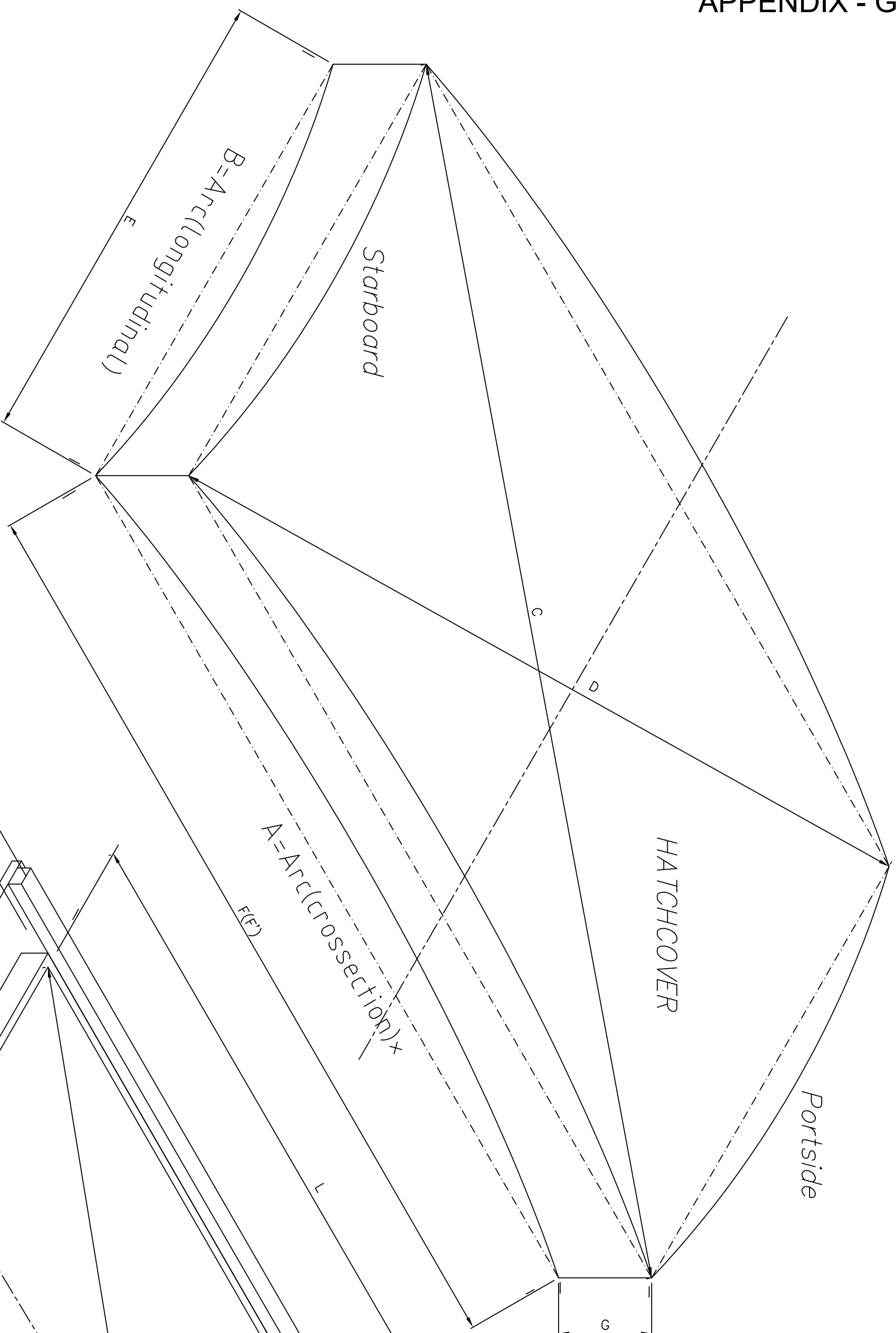
Material: AH36 unless otherwise mentioned
Material: 3.2 Certified

Note: Welding of casing watertight
Weight housing : 242kg
Weight horsehead : 75kg

26x

ITEM No.	OFF No.	DWG No.	DENOMINATION		DIMENSION	MATERIAL	REMARKS	
<div> COOPS & NIEBORG BV</div> <div>HOOGEZAND-HOLLAND</div> <div>P.O.BOX 226 9600 AE Hoogezand</div> <div>TEL.00-31-(0)598-395500 Fax.00-31-(0)598-392427</div>			<div>Support Tweendeck</div> <div></div> <div>SCALE 1: 2.5</div> <div>DRAWN-DATE R.I. 19-09-22</div> <div>CHECKED</div> <div>TOLERANCE SYSTEM DIN 2310</div>			<div></div>		
Rev.	E-mail: tekenkamer @ coops-nieborg.nl www.coops-nieborg.nl		YARD DRAWING NO.:	YARD NO.:	DRAWING No.	FORM	SHEET	EDITION
				P22003	112			

APPENDIX - G





ITEM	DESCRIPTION	DIMENSION	TOLERANCE
A1	Arc cross direction	—	+9
A2	Arc cross direction	—	+9
B	Arc long. direction	—	±2
C	Diagonal	—	±2
D	Diagonal	—	±2
E	Hatchcover length	—	±2
F	Hatchcover breadth	13564	+5 -6
G	Hatchcover height	660	±2
H	Gutter breadth	67	+15 -2
J	Gutter height	49	+9 -9
K	Centre to centre rubber	13481	+3 -6
L	Hold length	—	±10
M	Hold breadth	13200	+9
N	Coaming height	40	±2
O	Hold diagonal	—	±10
P	Hold diagonal	—	±10
Q1	Centre ship to centre crane rail SB	7160	±1
Q2	Centre ship to centre crane rail PS	7160	±1
R	Coaming deflection	—	±2
S	Reces Height	80	±2
	Compression rubber 94x50	15	±3
	Compression rubber 71x67CAT	10	±3

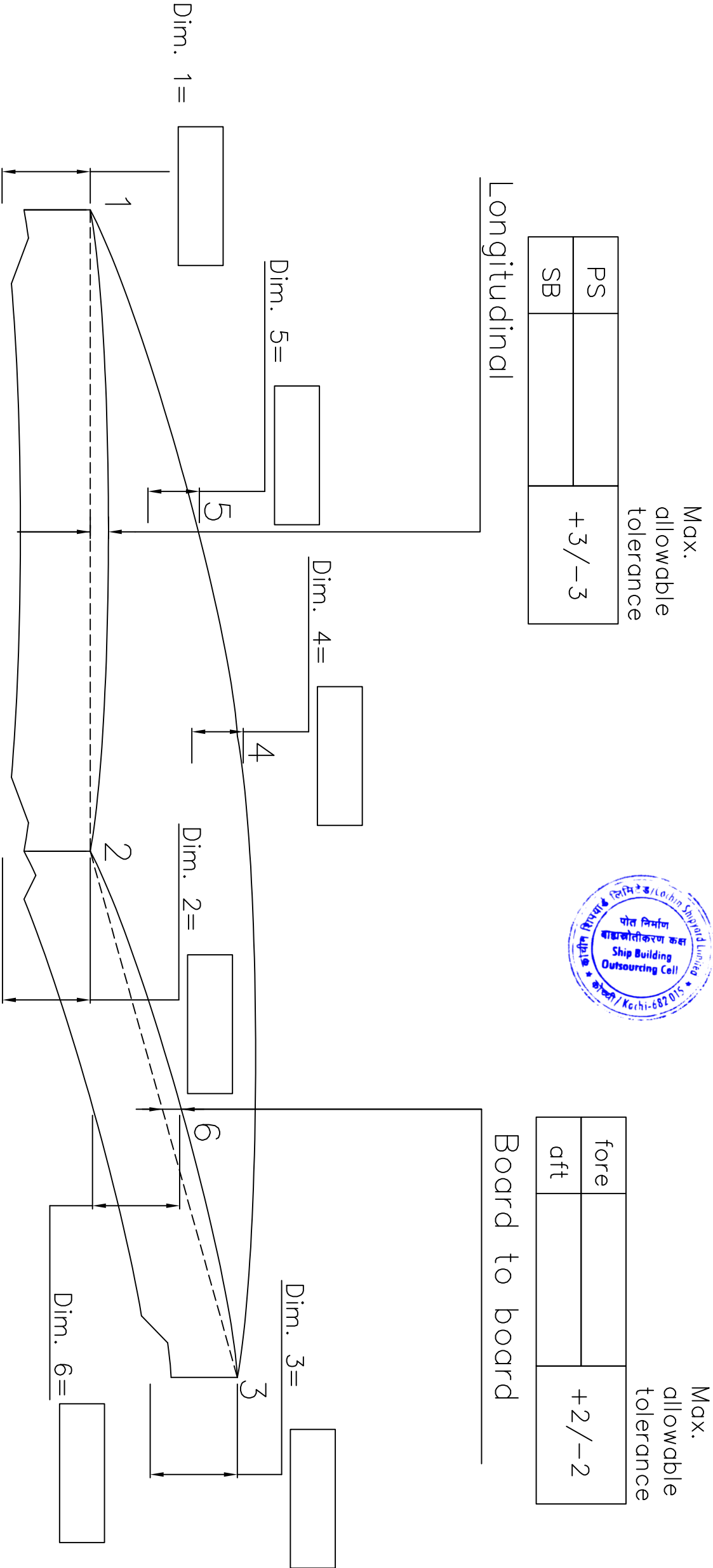
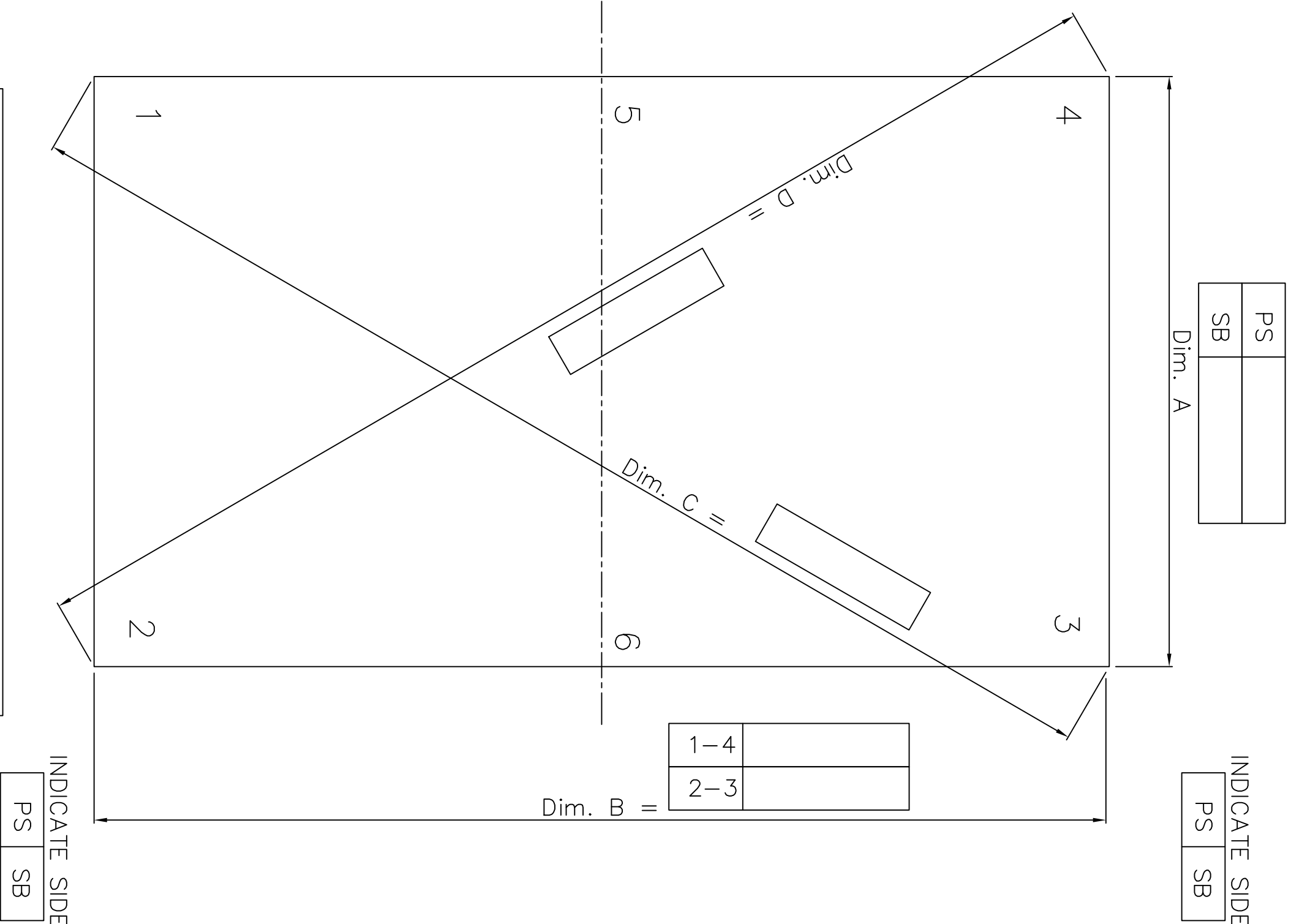
*A = divided into A1 and A2
A1= for closing hatchcovers
A2 = for the remaining hatchcovers

HATCHCOVER

Tolerance for edges of tweendeck: Be sure tweendeck must be laying on 4 points when not loaded. When between support and tweendeck is a gap it is must be filled on top of support

ITEM	OFF	DWG No.	DENOMINATION	DIMENSION	MATERIAL	REMARKS
<div><div><div>COOPS & NIEBORG BV</div></div><div>HOOGEZAND-HOLLAND</div><div>P.O. BOX 226</div><div>9600 AE Hoogezand</div><div>TEL.00-31-(0)598-395500</div><div>Fax.00-31-(0)598-392427</div><div>E-mail: telekamer @ coops-nieborg.nl</div><div>www.coops-nieborg.nl</div></div>						
<div><div>Coamingdetails</div><div>measurements</div><div>Hatchcovers</div><div>HS-Schiffahrt</div></div>						
YARD DRAWING NO.: P22003			YARD NO.: 004		FORM SHEET EDITION	
<div><div></div><div>SCALE 1:</div><div>DRAWN-DATE RI 13-01-2023</div><div>CHECKED TOLERANCE SYSTEM DIN 2310</div></div>						

APPENDIX - H



	Dimension acc. drawing	Max. allowable tolerance
Dim. A	5030	+4/-4
Dim. B	13130	+5/-0
Dim. C	14051	+4/-4
Dim. D	14051	+4/-4
Dim. 1	580/405	+2/-2
Dim. 2	580/405	+2/-2
Dim. 3	580/405	+2/-2
Dim. 4	580/405	+2/-2
Dim. 5	580	+2/-2
Dim. 6	580	+2/-2

Order number	P22003
Customer name	HS Schiffahrt
Yard number	P22003
Cover number	6x
Drawing number	020
Cover	
Date of Check	
Checked by	
Remarks	

Laser Height Measure (building platform: ±1)	
Height deflections	max. tolerance
1	+2/-2
2	+2/-2
3	+2/-2
4	+2/-2
5	+2/-2
6	+2/-2

ITEM No.

QFF No.

DRG No.

ITEM MASS

COOPS & NIEBORG BV

HOOGEZAND-HOLLAND

P.O.BOX 226

9600 AE Hoogezand

TEL:00-31-(0)598-395500

Fax:00-31-(0)598-392427

E-mail: tekenkamer @ coops-nieborg.nl

www.coops-nieborg.nl

Measuring Protocol

Tweendeck Hatchcovers

HS Schiffahrt

DENOMINATION

MATERIAL

REMARKS

SCALE 1: -

DRAWN-DATE RI 13-01-23

CHECKED

TOLERANCE SYSTEM DIN 2310

YARD DRAWING NO.:

YARD NO.:

DRAWING No.

FORM

SHEET

EDITION

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