



## All Standard Notes

(Special Notes[35-50] will be described on, or attached to, each Purchase Order because they are job specific)

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**001 NOTE A: MATERIAL TEST REPORTS**

CERTIFIED PHYSICAL AND CHEMICAL MILL TEST REPORTS TO COMPLY WITH ASME SECTION II MATERIAL SPEC PART A, B OR C LATEST EDITION OR MILL TEST REPORTS ALONG WITH A C.O.C. SHOWING MATERIAL BEING SUPPLIED CONFORMS TO LATEST ADDENDA. NOTE: A COPY OF MILL TEST REPORTS TO BE SENT PRIOR TO RECEIPT OF MATERIAL AT GRAHAM CORPORATION. EMAIL TO: MATERIAL\_CERTS@GRAHAM-MFG.COM. DOCUMENTATION SHOULD BE IN THE FOLLOWING FORM: 1) MATERIAL CERTIFICATIONS TO BE SCANNED INTO A PDF, TIF, JPEG OR OTHER SCANNABLE FILE AND ATTACHED TO THE EMAIL. 2) INCOMING EMAILS SHALL HAVE THE VENDOR NAME/PO#/LINE ITEM# IN THE SUBJECT LINE OF THE EMAIL (I.E. VENDOR NAME BXXXXXX). 3) IF MULTIPLE MATERIAL CERTIFICATIONS ARE ATTACHED IN THE SAME EMAIL, VENDOR IS TO LEAVE OFF THE LINE ITEM NUMBER IN THE SUBJECT LINE (I.E. VENDOR NAME BXXXXXX). 4) ALL MTRS TO HAVE PO# AND LINE ITEM# ON EACH PAGE OF CERTIFICATION, AND GRAHAM JOB# WHEN APPLICABLE. 5) LINE ITEM#S ARE FROM GRAHAM'S PO ONLY AND ARE NOT TO CHANGE. \*\*\*IF UNABLE TO EMAIL, NOTIFY GRAHAM CORPORATION PURCHASING DEPARTMENT AND COPY MUST ACCOMPANY SHIPMENTS. GRAHAM RECEIVING/INSPECTION DEPARTMENT WILL NOT UNLOAD MATERIAL WITHOUT PROPER DOCUMENTATION UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE.

**003 NOTE A: ASME CODE MARKING REQUIREMENTS**

MATERIAL IDENTIFICATION AND MARKINGS ARE TO BE IN ACCORDANCE WITH THE ASME CODE. MATERIAL MARKINGS MAY INCLUDE, BUT ARE NOT LIMITED TO, THE SA/SB/SFA SPECIFICATION, ALLOY/GRADE; HEAT/SLAB OR LOT NUMBER; AND MANUFACTURER'S IDENTIFICATION AS REQUIRED IN THE PRODUCT MATERIAL SPECIFICATION AND THE APPLICABLE GENERAL SPECIFICATION OF ASME SECTION II.\* COMMON ASME SECTION II PRODUCT SPECIFICATIONS AND GENERAL SPECIFICATIONS INCLUDE:

	PART A - FERROUS	PART B
PIPE	SA53/SA106	
PLATE	SA516 - SA-20	
BAR	SA479 - SA-	
TUBES	SA249 - SA-450	

WHEN PRODUCT FORM DOES NOT REQUIRE STENCILING/STAMPING, THE TAGGING AND/OR SHIPPING CONTAINER SHALL BE IDENTIFIED AS REQUIRED BY ASME CODE SECTION II MATERIAL SPECIFICATIONS, (EXAMPLE: WELD MATERIAL).

**005 NOTE B: CERTIFICATES OF CONFORMANCE OR COMPLIANCE**

CERTIFICATES OF CONFORMANCE TO THE SPECS ARE REQUIRED

**051 NOTE BB: ORIGIN OF MANUFACTURE CERTIFICATE REQUIRED**

PROOF OF ORIGIN IN THE FORM OF MTR OR CERTIFICATE OF CONFORMANCE.

**070 NOTE BC: PMI BASE METAL BY VENDOR(VERIFICATION BY VENDOR)**

PMI SHALL BE PERFORMED PRIOR TO SHIPMENT TO GRAHAM AND PRIOR TO COATINGS THAT MAY BE REQUIRED TO BE APPLIED.

**073 NOTE BD: IMPACT TEST DUPLEX S/S OTHER THAN PLATE**

IMPACT TEST DUPLEX S/S OTHER THAN PLATE REFERENCE DWG# S-4263 REV 0

**018 NOTE C: ORIGIN OF MANUFACTURE REQUIRED**

ORIGIN OF MANUFACTURE REQUIRED ON PACKING LIST. ORIGIN IS REQUIRED FOR TRANSPORTATION/SHIPPING PURPOSES ONLY.

**045 NOTE CC: NO ALUMINUM BRG ALLOYS**

NO ALUMINUM OR ALUMINUM BEARING ALLOYS PERMITTED

**055 NOTE DD: NO ASBESTOS MATERIAL**

NO ASBESTOS OR ASBESTOS BEARING COMPONENTS PERMITTED AND SO STATED ON A CERTIFICATE OF COMPLIANCE.

**034 NOTE EE: NO COPPER**

NO COPPER OR COPPER BEARING ALLOYS ARE PERMITTED

**050 NOTE FF: MERCURY FREE**

ALL MATERIALS TO BE MERCURY FREE AND SO STATED ON A CERTIFICATE OF CONFORMANCE OR ORIGINAL MILL TEST REPORT.

**047 NOTE GG: SUBJECT TO CUST INSPECT/EXPEDITING AT SUPPLIERS**

SUBJECT TO CUSTOMER INSPECTION/EXPEDITING AT SUPPLIERS

**018 NOTE HH: BUY AMERICAN ACT**

MATERIALS SUPPLIED FOR THIS PO MUST BE MANUFACTURED IN THE UNITED STATES (PREFERENCE) OR A QUALIFYING COUNTRY. METALS AND METAL COMPONENTS FOR THIS PO MUST BE MELTED AND MANUFACTURED IN THE UNITED STATES (PREFERENCE) OR A QUALIFYING COUNTRY. PLEASE NOTE: PREFERENCE IS GIVEN TO MATERIALS MANUFACTURED OR MELTED IN THE UNITED STATES.

\* IF YOU CANNOT OFFER USA MATERIAL, THE LIST OF QUALIFIED COUNTRIES BELOW IS ALSO ACCEPTABLE. PLEASE CONFIRM ON QUOTE/ORDER THE COUNTRY OF ORIGIN OF BOTH MELT (IF APPLICABLE) AND MANUFACTURE FOR REVIEW AND CONFIRMATION BY THE PURCHASER. AUSTRALIA, AUSTRIA, BELGIUM, CANADA, CZECH REPUBLIC, DENMARK, EGYPT, ESTONIA, FINLAND, FRANCE, GERMANY, GREECE, ISRAEL, ITALY, JAPAN, LATVIA, LUXEMBOURG, NETHERLANDS, NORWAY, POLAND, SLOVENIA, SPAIN, SWEDEN, SWITZERLAND, TURKEY, UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND.

\* FOR ANY MATERIAL THAT DOES NOT MEET USA MELT/MANUFACTURE OR A QUALIFIED COUNTRY MELT OR MANUFACTURE AS NOTED ABOVE, PLEASE IDENTIFY THE COUNTRY OF ORIGIN.

**040 NOTE II: NAFTA COMPLIANCE**

PURCHASING WILL PURSUE REQUESTS FOR "NAFTA" COMPLIANCE BY PURCHASING MATERIALS FROM CANADA, USA, OR MEXICO WHEN POSSIBLE. IT IS RECOGNIZED THAT ONLY 60% OF THE TOTAL VALUE OF THE FINAL PRODUCT NEED TO BE SOURCED FROM A "NAFTA" COUNTRY FOR COMPLIANCE. PLEASE PROVIDE DOCUMENTATION SHOWING NAFTA COMPLIANCE.

**018 NOTE JJ: MATLS OF USA ORIGIN**

MATLS OF USA ORIGIN AND SO STATED ON C.O.C.

**008 NOTE LL: NO CHINESE MATL. & SO STATED ON MTR OR C OF C**

NO CHINESE MATERIAL AND SO STATED ON MTR OR C OF C

**014 NOTE MR: MTR REQUIREMENTS**

MTR WITH CHEMICALS, PHYSICALS AND ORIGINS REQUIRED

**021 NOTE NN: SUBLET**

SUBLET

**035 NOTE PP: PURCHASED IN THE SOLUTION ANNEALED CONDITION**

TO BE PURCHASED IN THE SOLUTION ANNEALED CONDITION

**034 NOTE QQ: GHM ORIGIN & MFG. POLICY PER DWG NO. S4195 REV 2**

GRAHAM CORP. ORIGIN AND MANUFACTURE POLICY PER DRAWING NO: S 4195 REV 2  
USA, JAPAN, ITALY, GERMANY, UNITED KINGDOM, FRANCE, CANADA, MEXICO, SOUTH KOREA, SWEDEN, AND SWITZERLAND

**008 NOTE RR: SPIRAL GASKET SURFACE**

SPIRAL GASKET SURFACES MUST BE IN ACCORDANCE WITH ANSI B16.5

**075 NOTE SS: NORMALIZED**

MATERIAL TO BE NORMALIZED AND SO STATED ON A CERTIFICATE OF CONFORMANCE OR ORIGINAL MILL TEST REPORTS

**016 NOTE TT: NOTES FOR HEAD ORDERS**

- A) ALL HEADS ARE TO COMPLY WITH UG-81, UG-96 & UCS-79(d) AS APPLICABLE, OF THE ASME SECTION VIII DIV 1 CODE, PROPER DOCUMENTATION TO BE NOTED ON THE TEST REPORT AND COVER SHEET.
- B) ORIGINAL MILL TEST REPORTS REQUIRED.
- C) NO CENTER HOLE ALLOWED - IF CENTER HOLE IS REQUIRED TO FABRICATE HEAD, ADVISE GRAHAM MFG. CO., INC. BEFORE PROCEEDING COST EXTRA FOR REPAIR TO THE ASME SPECIFICATION. CENTER HOLE PLUG TO BE RETAINED AND SENT WITH HEAD, WHEN APPLICABLE OR SHIP SEPARATELY VIA UPS TO THE ATTENTION OF RECEIVING INSPECTION AT THE SAME TIME OR PRIOR TO SHIPMENT OF HEADS TO GRAHAM; TRACEABILITY MUST BE MAINTAINED ON PLUGS. MATERIAL HEAT NUMBER, MATERIAL SPEC, AND MATERIAL TEST REPORTS AT MINIMUM

**042 NOTE UU: MTR TO COMPLY WITH EN10204 3.1B**

MTR TO COMPLY WITH EN10204 3.1B

**098 NOTE XA MATERIAL TEST REPORTS AND MARKINGS**

MILL TEST REPORT (MTR) REQUIRED  
ASME/ASTM CODE MARKINGS INCLUDING HEAT NUMBER REQUIRED IN ADDITION TO ANY FLOWDOWN OR DRAWING SPECIFIC MARKINGS THAT MAY BE REQUIRED. REFER TO ALL PURCHASE ORDER NOTES AND FLOWDOWNS FOR ADDITIONAL REQUIREMENTS.  
IF UNABLE TO PHYSICALLY MARK MATERIAL, CONTACT BUYER FOR INSTRUCTIONS.  
PLEASE NOTE: THE MTR MAY REQUIRE PRE-APPROVAL BEFORE USE OR SHIPMENT. REFER TO THE TOP OF THE PURCHASE ORDER FOR INSTRUCTIONS.  
MTR SHOULD ACCOMPANY SHIPMENT AND BE SENT TO:  
MATERIAL\_CERTS@GRAHAM-MFG.COM  
WITH THE FOLLOWING SUBJECT LINE FORMAT:  
PO# BXXXXXX / LINE# XXX / SUPPLIER NAME

**017 NOTE XB CERTIFICATE OF CONFORMANCE REQUIRED**

CERTIFICATE OF CONFORMANCE REQUIRED (C OF C)  
\*\*\*\*\*  
BUYER TO SPECIFY DETAILS PER JOB REQUIREMENTS  
\*\*\*\*\*  
PLEASE NOTE: THE C OF C MAY REQUIRE MULTIPLE ELEMENTS, REFER TO ALL PURCHASE ORDER NOTES AND FLOWDOWNS FOR C OF C REQUIREMENTS  
C OF C MAY REQUIRE PRE-APPROVAL BEFORE SHIPMENT  
PLEASE REFER TO TOP OF PURCHASE ORDER FOR INSTRUCTIONS  
C OF C SHOULD ACCOMPANY SHIPMENT AND BE SENT TO THE FOLLOWING PRIOR TO SHIPMENT:  
MATERIAL\_CERTS@GRAHAM-MFG.COM  
WITH THE FOLLOWING SUBJECT LINE FORMAT:  
PO# BXXXXXX / LINE# XXX / SUPPLIER NAME

**049 NOTE XF MP MERCURY RESTRICTIONS**

MATERIALS, COMPONENTS OR SERVICES BEING SUPPLIED SHALL NOT CONTAIN MERCURY.  
MATERIALS, COMPONENTS OR SERVICES BEING SUPPLIED SHALL NOT COME INTO DIRECT CONTACT WITH MERCURY, MERCURY COMPOUNDS OR WITH A MERCURY CONTAINING DEVICE.  
RAW MATERIAL MTR'S SHALL CONTAIN A STATEMENT ADDRESSING MERCURY. CERTIFICATES OF CONFORMANCE SHALL BE PROVIDED BY DISTRIBUTORS, MACHINE SHOPS OR OUTSIDE SERVICE SUPPLIERS ADDRESSING CONTACT WITH MERCURY, MERCURY COMPOUNDS OR MERCURY CONTAINING DEVICES.  
PLEASE CONTACT YOUR BUYER IMMEDIATELY IF YOU HAVE ANY QUESTIONS REGARDING DELIVERABLES FOR MERCURY RESTRICTIONS.

**071 NOTE YY: MATERIAL PER NACE MR-0175**

MATERIAL PER NACE MR-0175

**072 NOTE ZZ: MATERIAL PER NACE MR-0103**

MATERIAL PER NACE MR-0103

**306 NOTE 21: INTERNAL PMI NOTE**

(PMI) POSITIVE MATERIAL IDENTIFICATION TO BE PERFORMED UPON RECEIPT AT GRAHAM CORPORATION

**085 NOTE 85: GREY IRON CASTING NOTES**

CERTIFICATE OF CONFORMANCE WITH SPECIFICATION REQUIRED "IN TRIPLICATE", YOU ARE ALSO REQUIRED BY ABOVE SPEC. TO CAST ON EACH CASTING YOUR IDENTIFICATION SYMBOL, THE CLASS OF MATERIAL, IRON CL 35 OR 40. IN ADDITION YOU ARE TO CAST THE WORD "GRAHAM" ON EACH CASTING AND THE GRAHAM PATTERN NUMBER. GREY IRON SPEC. IS TO ASME SPEC SA-278 AND UNLESS OTHERWISE SPECIFIED ON THE PURCHASE ORDER ALL CASTINGS WILL BE USED IN APPLICATIONS OF LESS THAN 450 DEGREES "F". SHOULD GRAHAM REQUIRE CASTING FOR USE ABOVE 450 DEGREES "F" IT SHALL BE SO STATED ON OUR PURCHASE ORDER AND YOU WILL BE REQUIRED TO MEET THE CODE REQUIREMENTS FOR SUCH APPLICATIONS.

**086 NOTE 86: CAST BRONZE CASTING NOTES**

CERTIFICATE OF CONFORMANCE TO SPECIFICATION REQUIRED. ONE COPY IS TO BE SENT WITH THE SHIPMENT AND ONE COPY WITH THE INVOICE. YOU ARE ALSO REQUIRED BY THE ABOVE SPEC. TO CAST ON EACH CASTING YOUR FOUNDRY SYMBOL, THE NAME "GRAHAM" AND THE GRAHAM PATTERN NUMBER AT A LOCATION ON THE CASTING WHERE IT WILL NOT BE REMOVED IN THE FINAL MACHINING PROCESS.

**087 NOTE 87: STAINLESS STEEL CASTING NOTES**

PLEASE NOTE THAT YOUR FOUNDRY IDENTIFICATION SYMBOL AS WELL AS THE HEAT NUMBER AND GRADE OF MATERIAL ARE TO BE SHOWN ON EACH CASTING IN ACCORDANCE WITH THE ASME SPEC.

**090 NOTE 90: CAST STEEL CASTING NOTES**

PLEASE NOTE THAT YOUR FOUNDRY IDENTIFICATION SYMBOL AS WELL AS THE HEAT NUMBER AND GRADE WCB ARE TO BE SHOWN ON EACH CASTING IN ACCORDANCE WITH THE ASME SPEC. ALSO, STATE THE PROCESS USED ON THE MATERIAL TEST REPORT

**091 NOTE 91: FOR ALL HELIFLOW CAST STEEL BASE PLATES & CASINGS**

WATER QUENCHED AND TEMPERED PER SUPPLEMENTAL REQUIREMENT S15, UCS-66 CURVE B APPLIES.