



Distribution E.S.
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83030A - 03/19/14

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SECTION IV - FIRE AND EXPLOSION DATA

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FLASH POINT: -18 C
(TAGLIABUE C. C.)
CLASS 3, DIVISION 1

LEL: 1.0%
UEL: 16.3%

EXTINGUISHING MEDIA: DRY CHEMICAL CARBON DIOXIDE FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: FLAMMABLE LIQUID (FLASH POINT LESS THAN 100 F/38 C). MAY FORM FLAMMABLE MIXTURES. VAPORS MAY BE EXPLOSIVE IN AIR. ELIMINATE IGNITION SOURCES. GROUND ALL EQUIPMENT. KEEP CONTAINER CLOSED.

SPECIAL FIREFIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL NEARBY CONTAINERS AND STRUCTURES EXPOSED TO FIRE.

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SECTION V - HEALTH HAZARD DATA

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EFFECTS OF OVER EXPOSURE: *** INHALATION: VAPORS MAY BE IRRITATING. EXPOSURE TO HIGH VAPOR CONCENTRATIONS MAY CAUSE HEADACHES, DIZZINESS, NAUSEA, AND CENTRAL NERVOUS SYSTEM DEPRESSION. PROLONGED EXPOSURE TO HIGH VAPOR CONCENTRATIONS MAY CAUSE UNCONSCIOUSNESS OR DEATH. *** INGESTION: MODERATELY TOXIC. HARMFUL IF SWALLOWED. SWALLOWING LARGE QUANTITIES CAUSES HEADACHES, NAUSEA, VOMITING, AND CENTRAL NERVOUS SYSTEM DEPRESSION. MAY CAUSE LIVER AND/OR KIDNEY DAMAGE. SMALL AMOUNTS OF LIQUID DRAWN INTO THE LUNGS FROM SWALLOWING OR VOMITING MAY CAUSE SEVERE HEALTH EFFECTS (E.G. PULMONARY EDEMA). *** SKIN: CAN CAUSE MODERATE IRRITATION. CAN CAUSE DEFATTING AND DERMATITIS. PROLONGED EXPOSURE MAY CAUSE SKIN SENSITIZATION. CAN CAUSE CHEMICAL BURNS. CAN BE ABSORBED THROUGH THE SKIN CAUSING A HEALTH HAZARD. *** EYES: VAPORS MAY IRRITATE. LIQUID AND MISTS WILL IRRITATE AND MAY BURN THE EYES. *** CHRONIC EFFECTS OF OVEREXPOSURE: CONTAINS SILICA. LONG TERM EXPOSURE TO SILICA DUST MAY CAUSE SILICOSIS AND CARDIOPULMONARY IMPAIRMENT. REPEATED OR PROLONGED EXPOSURES MAY CAUSE SKIN AND/OR RESPIRATORY SENSITIZATION. REPEATED OR PROLONGED EXPOSURES MAY CAUSE LIVER, KIDNEY, AND/OR NEURAL DYSFUNCTION. REPEATED OR PROLONGED EXPOSURES MAY CAUSE DELAYED EFFECTS INVOLVING BLOOD, GASTRO-INTESTINAL, NERVOUS AND/OR REPRODUCTIVE SYSTEMS. LONG TERM EXPOSURE TO DUSTS CAN LEAD TO RESPIRATORY IMPAIRMENT. HIGH EXPOSURES TO XYLENES IN SOME ANIMAL STUDIES HAVE BEEN REPORTED TO CAUSE HEALTH EFFECTS ON THE DEVELOPING EMBRYO/FETUS. THESE EFFECTS WERE OFTEN AT LEVELS TOXIC TO THE MOTHER. THE SIGNIFICANCE OF THESE FINDINGS TO HUMANS HAS NOT BEEN DETERMINED. LONG-TERM EXCESSIVE EXPOSURES MAY CAUSE TALCOSIS, PULMONARY FIBROSIS, WHICH IN TURN MAY LEAD TO SEVERE AND PERMANENT DAMAGE TO THE LUNGS. IN A LIFETIME INHALATION STUDY, EXPOSURE TO 250 MG/M3 TITANIUM DIOXIDE DUST RESULTED IN THE DEVELOPMENT OF LUNG TUMOURS IN RATS. THESE TUMOURS OCCURRED ONLY AT DUST LEVELS THAT OVERWHELMED THE ANIMALS' LUNG CLEARANCE MECHANISMS AND WERE DIFFERENT FROM COMMON HUMAN LUNG TUMOURS IN BOTH TYPE AND LOCATION. THE RELEVANCE OF THESE FINDINGS TO HUMANS IS UNKNOWN. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED TITANIUM DIOXIDE AS POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B) BASED ON INADEQUATE EVIDENCE OF CARCINOGENICITY IN HUMANS AND SUFFICIENT EVIDENCE OF CARCINOGENICITY IN EXPERIMENTAL ANIMALS. ACCORDING TO THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), METHYL ISOBUTYL KETONE IS POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B)

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: SKIN DISORDERS. EYE DISORDERS. CHRONIC RESPIRATORY DISORDERS.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: *** INHALATION: REMOVE TO FRESH AIR. ASSIST

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SECTION V - HEALTH HAZARD DATA

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BREATHING IF NECESSARY. KEEP VICTIM WARM AND QUIET. SEEK MEDICAL ATTENTION. *** INGESTION: DO NOT INDUCE VOMITING OR GIVE FLUIDS. KEEP AT REST. GET PROMPT MEDICAL ATTENTION. IF VOMITING OCCURS, KEEP VICTIM'S HEAD BELOW HIPS TO PREVENT ASPIRATION INTO THE LUNGS. *** SKIN: FLUSH CONTAMINATED SKIN WITH WATER. GET PROMPT MEDICAL ATTENTION. *** EYES: FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES AND IMMEDIATELY GET MEDICAL ATTENTION.

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SECTION VI - REACTIVITY DATA

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STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

HAZARDOUS POLYMERIZATION: COULD OCCUR UNDER NORMAL CONDITIONS. CARE MUST BE EXERCISED.

HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON. TOXIC FUMES AND SMOKE. FLAMMABLE FUMES.

CONDITIONS TO AVOID: HEAT, SPARKS OR FLAME.

INCOMPATIBILITY: OXIDIZING AGENTS. ACIDS. ALKALIES. AMINES. SULFIDES. ALDEHYDES. HALOGENS. CHLORINATED COMPOUNDS.

SENSITIVITY TO STATIC DISCHARGE: TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.

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SECTION VII - SPILL OR LEAK PROCEDURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: ELIMINATE IGNITION SOURCES. STOP SOURCE OF SPILL. VENTILATE AREA. EVACUATE ALL NON ESSENTIAL PERSONNEL. WEAR APPROPRIATE PROTECTIVE EQUIPMENT. DIKE SPILL TO KEEP FROM SPREADING. COVER WITH INERT ABSORBENT. REMOVE TO DISPOSAL CONTAINER.

WASTE DISPOSAL METHOD: DO NOT CONTAMINATE ANY LAKES, PONDS, STREAMS, OR UNDERGROUND WATER SUPPLIES. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS IN YOUR AREA.

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SECTION VIII - SAFE HANDLING AND USE INFORMATION

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RESPIRATORY PROTECTION: USE A COMBINATION ORGANIC VAPOR/TOXIC PARTICULATE HIGH EFFICIENCY FILTER RESPIRATOR. FOR HIGH CONCENTRATIONS, USE AIR SUPPLIED RESPIRATOR.

VENTILATION: EFFICIENT LOCAL EXHAUST VENTILATION IS REQUIRED. USE EXPLOSION PROOF VENTILATION EQUIPMENT.

PROTECTIVE GLOVES: WEAR APPROPRIATE CHEMICAL RESISTANT GLOVES/CLOTHING TO PREVENT SKIN CONTACT.

EYE PROTECTION: DO NOT GET IN EYES. WEAR SAFETY GLASSES/GOGGLES OR A FACE SHIELD.

OTHER PROTECTIVE EQUIPMENT: IMPERMEABLE APRON AND BOOTS. EYE BATH AND SAFETY



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SECTION VIII - SAFE HANDLING AND USE INFORMATION

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SHOWER.

HYGENIC PRACTICES: DO NOT GET IN EYES, SKIN OR CLOTHING. AVOID INHALING. DO NOT SWALLOW. KEEP AWAY FROM FOOD PRODUCTS. WASH HANDS THOROUGHLY AFTER HANDLING. CHANGE AND WASH CONTAMINATED CLOTHING.

SPECIAL SHIPPING INFORMATION: PAINT. FLAMMABLE LIQUID CLASS:3 UN#1263
PACKING GROUP II. CANUTEC 24 HOUR EMERGENCY NUMBER: (613) 996-6666

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SECTION IX - SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN A COOL, DRY, WELL VENTILATED AREA, AWAY FROM ALL INCOMPATIBLE MATERIALS. KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINER CLOSED. GROUND ALL EQUIPMENT.

OTHER PRECAUTIONS: DO NOT USE PRESSURE TO EMPTY CONTAINERS. DO NOT CUT, GRIND, WELD OR DRILL ON OR NEAR THIS CONTAINER. CONTAINERS WILL RETAIN PRODUCT RESIDUES AND VAPORS. HANDLE EMPTY CONTAINERS AS IF THEY WERE FULL. DO NOT PUNCTURE, INCINERATE, BURN OR STORE ABOVE 45 C. SOME OR ALL OF THE LISTED COMPONENTS OF THIS PRODUCT MAY PRESENT A HEALTH THREAT IN THE FORM OF DUSTS.

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SECTION X - HMIS INFORMATION

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HMIS: HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 1 PERSONAL
PROTECTION: K

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M A T E R I A L S A F E T Y D A T A S H E E T

SECTION I - PRODUCT IDENTIFICATION AND USE

Product Identifier: 2.1 VOC ARP PRIMER ACTIVATOR

Identification Number: 83030B

Product Use: PAINT ADDITIVE

WHMIS Class: B2 D1AD2AE

MANUFACTURER:

SUPPLIER:

Cloverdale Paint Inc.

Cloverdale Paint Inc.

50 PANET ROAD

50 PANET ROAD

WINNIPEG, MB

WINNIPEG, MB

R2J 0R9 204/237-0241

R2J 0R9 204/237-0241

PREPARED BY: Mr Robert Tinsley, 204-237-0241

DATE: 02/03/16

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WT. PERCENT		EXPOSURE LIMIT	LC50	LD50
		RANGE				
XYLENE: MIXED ISOMERS	1330-20-7	1.0-5.0	10g ppm	5000 PPM RAT	4G/KG RAT ORAL	
METHYL ISOBUTYL KETONE	108-10-1	1.0-5.0	50 ppm	5700 PPM RAT	2080MG/KG RAT	
ACETONE	67-64-1	5.0-10.0	758 ppm	16000 PPM RAT	7400 MG/KG RAT	
N-BUTYL ALCOHOL	71-36-3	1.0-5.0	100 ppm	8000 PPM RAT	790 MG/KG RAT	
2-BUTOXYETHANOL	111-76-2	1.0-5.0	50 ppm SKIN	925 PPM MOUSE	470 MG/KG RAT	
DIMETHYLANINOMETHYL PHENOL	90-72-2	1.0-5.0	NO INFO	N/AV	1200 MG/KG RAT	
ETHYLBENZENE	100-41-4	1.0-5.0	100 ppm	>4000 PPM RAT	3.5 G/KG RAT	
BENZYL ALCOHOL	100-51-6	10.0-30.0	NO INFO	1400 PPM RAT	3230 MG/KG RAT	
ALIPHATIC POLYAMIDE	106906-26-1	10.0-30.0	NO INFO	N/AV	N/AV	

N.A. - NOT APPLICABLE

SECTION III - PHYSICAL DATA

BOILING RANGE	: 56-206 C	VAPOR DENSITY	: IS HEAVIER THAN AIR
ODOR	: AROMATIC	EVAPORATION RATE	: IS FASTER THAN BUTYL
APPEARANCE	: CLEAR LIQUID		ACETATE
VOLATILE BY WEIGHT	: 13.2%	SOLUBILITY	: 7% WATER SOLUBLE
VOLATILE BY VOLUME	: 20.8%	SPECIFIC GRAVITY	: 1.295
PH @ 0.00 %	: 7.0	FREEZING POINT	: -40 C
VAPOR PRESSURE	: 184 mm Hg		



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SECTION IV - FIRE AND EXPLOSION DATA

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FLASH POINT: -18 C
(TAGLIABUE C. C.)
CLASS 3, DIVISION 1

LEL: 1.0%
UEL: 12.8%

EXTINGUISHING MEDIA: DRY CHEMICAL CARBON DIOXIDE FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: FLAMMABLE LIQUID (FLASH POINT LESS THAN 100 F/38 C). MAY FORM FLAMMABLE MIXTURES. VAPORS MAY BE EXPLOSIVE IN AIR. ELIMINATE IGNITION SOURCES. GROUND ALL EQUIPMENT. KEEP CONTAINER CLOSED.

SPECIAL FIREFIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL NEARBY CONTAINERS AND STRUCTURES EXPOSED TO FIRE.

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SECTION V - HEALTH HAZARD DATA

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EFFECTS OF OVER EXPOSURE: *** INHALATION: VAPORS AND MISTS ARE EXTREMELY CORROSIVE. BRONCHITIS, PULMONARY EDEMA, AND CHEMICAL PNEUMONITIS MAY OCCUR. *** INGESTION: HIGHLY TOXIC. MAY BE FATAL. SWALLOWING LARGE QUANTITIES CAUSES HEADACHES, NAUSEA, VOMITING, AND CENTRAL NERVOUS SYSTEM DEPRESSION. MAY CAUSE LIVER AND/OR KIDNEY DAMAGE. VAPORS, MISTS, AND LIQUID ARE CORROSIVE. SWALLOWING CAN CAUSE DEATH. SMALL AMOUNTS OF LIQUID DRAWN INTO THE LUNGS FROM SWALLOWING OR VOMITING MAY CAUSE SEVERE HEALTH AFFECTS (E.G. PULMONARY EDEMA). *** SKIN: VAPORS, MISTS AND LIQUID ARE EXTREMELY CORROSIVE. CAN CAUSE DEFATTING AND DERMATITIS. PROLONGED EXPOSURE MAY CAUSE SKIN SENSITIZATION. CAN CAUSE CHEMICAL BURNS. CAN BE ABSORBED THROUGH THE SKIN CAUSING A HEALTH HAZARD. *** EYES: VAPORS, LIQUID AND MISTS ARE EXTREMELY CORROSIVE. BRIEF CONTACT WILL BE SEVERELY IRRITATING AND MAY DAMAGE THE EYES AND CAUSE PERMANENT INJURY OR BLINDNESS. *** CHRONIC AFFECTS OF OVEREXPOSURE: REPEATED OR PROLONGED EXPOSURES MAY CAUSE SKIN AND/OR RESPIRATORY SENSITIZATION. REPEATED OR PROLONGED EXPOSURES MAY CAUSE LIVER, KIDNEY, AND/OR NEURAL DYSFUNCTION. REPEATED OR PROLONGED EXPOSURES MAY CAUSE DELAYED EFFECTS INVOLVING BLOOD, GASTRO-INTESTINAL, NERVOUS AND/OR REPRODUCTIVE SYSTEMS. ETHYL BENZENE HAS BEEN CLASSIFIED BY THE IARC AS A GROUP 2B SUBSTANCE ON THE BASIS OF SUFFICIENT EVIDENCE FOR CARCINOGENICITY IN LABORATORY ANIMALS BUT INADEQUATE EVIDENCE FOR CANCER IN HUMANS. HIGH EXPOSURES TO XYLENES IN SOME ANIMAL STUDIES HAVE BEEN REPORTED TO CAUSE HEALTH EFFECTS ON THE DEVELOPING EMBRYO/FETUS. THESE EFFECTS WERE OFTEN AT LEVELS TOXIC TO THE MOTHER. THE SIGNIFICANCE OF THESE FINDINGS TO HUMANS HAS NOT BEEN DETERMINED. CARCINOGENICITY IN EXPERIMENTAL ANIMALS. ACCORDING TO THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), METHYL ISOBUTYL KETONE IS POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B) 2-BUTOXYETHANOL MAY CAUSE REPRODUCTIVE EFFECTS BASED ON STUDIES IN LABORATORY ANIMALS AT HIGH GENERALLY TOXIC DOSES. 2-BUTOXYETHANOL MAY CAUSE TERATOGENIC/EMBRYOTOXIC EFFECTS BASED ON IN STUDIES IN LABORATORY ANIMALS

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: ALLERGIES. SKIN DISORDERS. EYE DISORDERS. CENTRAL NERVOUS SYSTEM DISORDERS. CHRONIC RESPIRATORY DISORDERS.

PRIMARY ROUTE(S) OF ENTRY: INHALATION DERMAL INGESTION

EMERGENCY AND FIRST AID PROCEDURES: *** INHALATION: REMOVE TO FRESH AIR. ASSIST BREATHING IF NECESSARY. KEEP VICTIM WARM AND QUIET. SEEK MEDICAL ATTENTION. *** INGESTION: DO NOT INDUCE VOMITING OR GIVE FLUIDS. KEEP AT REST. GET PROMPT MEDICAL ATTENTION. IF VOMITING OCCURS, KEEP VICTIM'S HEAD BELOW HIPS TO PREVENT ASPIRATION INTO THE LUNGS. *** SKIN: FLUSH CONTAMINATED SKIN WITH WATER. GET PROMPT MEDICAL ATTENTION. *** EYES: FLUSH

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SECTION V - HEALTH HAZARD DATA

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WITH CLEAN WATER FOR AT LEAST 15 MINUTES AND IMMEDIATELY GET MEDICAL ATTENTION.

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SECTION VI - REACTIVITY DATA

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STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

HAZARDOUS POLYMERIZATION: COULD OCCUR UNDER NORMAL CONDITIONS. CARE MUST BE EXERCISED.

HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON. OXIDES OF NITROGEN. TOXIC FUMES AND SMOKE.

CONDITIONS TO AVOID: HEAT, SPARKS OR FLAME.

INCOMPATABILITY: DIRECT SUNLIGHT AVOID EXTENDED CONTACT WITH AIR OR OXYGEN HEATING IN AIR MAY PRODUCE IRRITATING ALDEHYDES, ACIDS AND KETONES BASES. SODIUM HYDROXIDE ALUMINUM AND ITS ALLOYS OXIDIZING AGENTS. ACIDS. ALKALIES. AMINES. CYANIDES, ISOCYANATES. SULFIDES. ALDEHYDES. HALOGENS. WATER

SENSITIVITY TO STATIC DISCHARGE: TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.

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SECTION VII - SPILL OR LEAK PROCEDURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: ELIMINATE IGNITION SOURCES. STOP SOURCE OF SPILL. VENTILATE AREA. EVACUATE ALL NON ESSENTIAL PERSONNEL. WEAR APPROPRIATE PROTECTIVE EQUIPMENT. DIKE SPILL TO KEEP FROM SPREADING. COVER WITH INERT ABSORBENT. REMOVE TO DISPOSAL CONTAINER.

WASTE DISPOSAL METHOD: DO NOT CONTAMINATE ANY LAKES, PONDS, STREAMS, OR UNDERGROUND WATER SUPPLIES. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS IN YOUR AREA.

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SECTION VIII - SAFE HANDLING AND USE INFORMATION

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RESPIRATORY PROTECTION: USE A COMBINATION ORGANIC VAPOR/TOXIC PARTICULATE HIGH EFFICIENCY FILTER RESPIRATOR. FOR HIGH CONCENTRATIONS, USE AIR SUPPLIED RESPIRATOR.

VENTILATION: EFFICIENT LOCAL EXHAUST VENTILATION IS REQUIRED. USE EXPLOSION PROOF VENTILATION EQUIPMENT.

PROTECTIVE GLOVES: WEAR APPROPRIATE CHEMICAL RESISTANT GLOVES/CLOTHING TO PREVENT SKIN CONTACT.

EYE PROTECTION: DO NOT GET IN EYES. WEAR SAFETY GLASSES/GOGGLES OR A FACE SHIELD.

OTHER PROTECTIVE EQUIPMENT: OVERALLS, APRON. EYE BATH AND SAFETY SHOWER.

HYGENIC PRACTICES: DO NOT GET IN EYES, SKIN OR CLOTHING. AVOID INHALING. DO NOT

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SECTION VIII - SAFE HANDLING AND USE INFORMATION

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SWALLOW. KEEP AWAY FROM FOOD PRODUCTS. WASH HANDS THOROUGHLY AFTER HANDLING. CHANGE AND WASH CONTAMINATED CLOTHING.

SPECIAL SHIPPING INFORMATION: PAINT RELATED MATERIAL. FLAMMABLE LIQUID
CLASS:3 UN#1263 PACKING GROUP II. CANUTEC 24 HOUR EMERGENCY NUMBER: (613) 996-6666

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SECTION IX - SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN A COOL, DRY, WELL VENTILATED AREA, AWAY FROM ALL INCOMPATIBLE MATERIALS. KEEP AWAY FROM HEAT, SPARKS AND FLAME. GROUND ALL EQUIPMENT.

OTHER PRECAUTIONS: DO NOT CUT, GRIND, WELD OR DRILL ON OR NEAR THIS CONTAINER. DO NOT PUNCTURE, INCINERATE, BURN OR STORE ABOVE 45 C.

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SECTION X - HMIS INFORMATION

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HMIS: HEALTH: 3 FLAMMABILITY: 3 REACTIVITY: 1 PERSONAL
PROTECTION: K

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Polyisocyanurate Foam Sheathing Continuous Insulation

AP™ FOIL-FACED

PRODUCT DATA SHEET



DESCRIPTION

Johns Manville AP™ Foil-Faced Foam Sheathing board consists of a uniform closed-cell polyisocyanurate foam core bonded on each side to a foil facer. One side has a reflective foil facer and the other side has a white non-reflective foil facer to suit your building needs.

Polyiso provides one of the highest R-values per inch of any rigid insulation (R-6.0 at 1 inch). Furthermore, when properly installed, AP Foil-Faced Foam Sheathing functions as a water-resistive barrier, vapor barrier and air barrier, eliminating the need to install additional components.

AP Foil-Faced Foam Sheathing is produced with an EPA-compliant hydrocarbon-based blowing agent that has zero Ozone Depletion Potential (ODP) and virtually no Global Warming Potential (GWP); it also meets both CFC- and HCFC-free specification requirements. Polyiso is one of North America's most widely used insulation products and has been cited by the EPA for its responsible impact on the environment.

AP Foil-Faced Foam Sheathing provides exceptional heat, moisture and air control to protect your building's exterior wall assembly.

INSTALLATION

AP Foil-Faced Foam Sheathing is lightweight and can be easily cut with a utility knife or saw. Use maximum board lengths to minimize the number of joints. Vertical joints should be staggered. Butt joints should be centered over framing. To create a water-resistive barrier or an air barrier, treat seams and penetrations as instructed in the installation guide and in accordance with manufacturer's guidelines. Once installed, AP Foil-Faced Foam Sheathing may be left exposed for up to 60 days. Consult your local building department for code requirements.

COMPLIANCES

- ASTM C1289 Type 1, Class 1
- CAN/ULC S704, Type 1, Class 1
- ICC-ES Evaluation Report ESR-3398
- Canadian Construction Materials Centre 13104-L
- Air Barrier Association of America Evaluated Air Barrier Material, Assembly & Water Resistive Barrier
- International Building Code
- International Residential Code
- International Energy Conservation Code
- ENERGY STAR
- ASHRAE 90.1
- California State Insulation Quality Standards

PERFORMANCE STANDARDS

- ASTM C1289, Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board
- CAN/ULC-S704, Standard for Thermal Insulation, Polyurethane and Polyisocyanurate, Boards, Faced
- ASTM E84, Test for Surface Burning Characteristics of Building Materials
- CAN/ULC S102, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies
- NFPA 259, Standard Test Method for Potential Heat of Building Materials
- NFPA 285, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components
- AC 71, Acceptance Criteria for Foam Plastic Sheathing Panels Used as Water-Resistive Barriers
- ASTM E331, Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
- AATCC Test Method 127, Water Resistance: Hydro Static Pressure Test
- ASTM E1233, Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Cyclic Air Pressure Differential
- ASTM E2178, Standard Test Method for Air Permeance of Building Materials
- ASTM E2357, Standard Test Method for Determining Air Leakage of Air Barrier Assemblies

AVAILABILITY

AP Foil-Faced Foam Sheathing is available in the sizes shown in Table 1 (see reverse). For additional information or special size inquiries, please consult a sales representative at 800-654-3103.



PERFORMANCE ADVANTAGES

Thermal Insulation: inch for inch, polyiso has one of the highest energy efficiencies. R-values for AP Foil-Faced Foam Sheathing are shown in Table 1, and physical properties are shown in Table 2 (see reverse). R means resistance to heat flow. The higher the R-value, the greater the insulating power.

Water-Resistive Barrier: when properly installed as part of a Johns Manville Wall System, AP Foil-Faced Foam Sheathing meets the ICC-ES AC71 acceptance criteria for foam plastic sheathing used as a water-resistive barrier. Please see the installation guide for qualifying assemblies and detailed instructions.

Vapor Barrier: at a minimum thickness of one inch, AP Foil-Faced Foam Sheathing has a vapor permeance of 0.05 perms and qualifies as a Class I vapor retarder.

Air Barrier: when properly installed as part of a Johns Manville Wall System, AP Foil-Faced Foam Sheathing meets the Air Barrier Association of America boardstock criteria for materials and assemblies. Please see installation guide for qualifying assemblies and detailed instructions.

Noncorrosive: does not accelerate corrosion of pipes, wiring or metal studs.

Lightweight: easy to handle, can be cut with a utility knife or saw.

ENERGY, QUALITY & ENVIRONMENT





Polyisocyanurate Foam Sheathing Continuous Insulation



PRODUCT DATA SHEET

AP™ FOIL-FACED

STORAGE

Store AP Foil-Faced Foam Sheathing elevated above the floor or ground and standing water. If stored outdoors, keep dry by covering completely with a waterproof tarpaulin.

LIMITATIONS

AP Foil-Faced Foam Sheathing is nonstructural. The walls must be braced in accordance with the requirements of the applicable code.

WARRANTY

All Johns Manville products are sold subject to Johns Manville's Limited Warranty and Limitation of Remedy. For a copy of these documents, call 800-654-3103.

WARNING

AP Foil-Faced Foam Sheathing is combustible and shall only be used as specified by the local building code with respect to flame spread classification and to the use of a suitable thermal barrier when required.

TECHNICAL SERVICES

Johns Manville can provide technical information to assist in addressing questions regarding AP Foil-Faced Foam Sheathing. Please call 800-654-3103 for technical assistance.

PERFORMANCE DATA

Table 1: Thermal Performance

THERE ARE 2 LAYERS OF 2" THICK INSULATING PANELS, FOR A TOTAL OF 4" ALL AROUND. APPLIED ON WALLS, CEILING AND FLOOR.

THICKNESS (inches)	R-VALUE U.S. ¹ (°F•ft ² •h/BTU)	THICKNESS (mm)	RSI-VALUE ¹ (°K•m ² /W)	BOARD SIZE (ft)	R-VALUE WITH REFLECTIVE AIR SPACE ²		
					½" Air Space	¾" Air Space	1" Air Space
0.50	2.7	13	0.48	4 x 8, 9, or 10	5.2	5.5	5.4
0.625	3.5	16	0.62	4 x 8, 9, or 10	6.0	6.3	6.2
0.75	4.4	19	0.77	4 x 8, 9, or 10	6.8	7.1	7.0
0.85	5.0	22	0.91	4 x 8, 9, or 10	7.4	7.7	7.6
1.00	6.0	25	1.06	4 x 8, 9, or 10	8.5	8.8	8.7
1.50	9.3	38	1.63	4 x 8, 9, or 10	11.7	12	12
1.65	10	42	1.82	4 x 8, 9, or 10	12	12	12
2.00	13	51	2.21	4 x 8, 9, or 10	15	15	15
2.50	16	64	2.79	4 x 8, 9, or 10	18	19	19
3.00	19	76	3.36	4 x 8, 9, or 10	22	22	22
3.50	22	89	3.94	4 x 8, 9, or 10	25	25	25
4.00	26	102	4.52	4 x 8, 9, or 10	28	28	28
4.50	28	114	5.09	4 x 8, 9, or 10	30	31	31

¹Aged R-value at 75° F in accordance with ASTM C1289.

²Only applies when an ideal reflective air space and horizontal heat flow conditions exist. The shiny foil side of product must face the air space.

Determined in accordance with FTC 16 CFR Part 460 requirements and published ASHRAE air space R-values. Refer to the 2009 ASHRAE Handbook of Fundamentals, Chapter 26, Table 3, for details.

Table 2: Physical Properties

PROPERTY	UNITS	TEST METHOD	RESULT
Thermal Resistance, 1 inch	°F•ft ² •hr/BTU	ASTM C518*	6.0
Compressive Strength	psi	ASTM D1621	≥ 16
Flexural Strength	psi	ASTM C203	≥ 40
Water Absorption	% by volume	ASTM C209	0.1
Water Vapor Permeance	perms	ASTM E96	0.05
Surface Burning Characteristics**			
Flame Spread ¹	index	ASTM E84	≤ 25
Smoke Developed ¹	index	ASTM E84	≤ 450
Service Temperature	°F		-100 to 250

*Aged R-value at 75° F in accordance with ASTM C1289.

**Numerical ratings are not intended to reflect hazards present in actual fire conditions.

¹Foam core tested at 4 inches.

Visit our website at www.JM.com or call 800-654-3103 | Building Insulation Division P.O. Box 5108 | Denver, CO 80217-5108

Data as shown in this literature is intended to be used as a general guideline only. The physical and chemical properties of AP Foil-Faced Polyisocyanurate Foam Sheathing listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the sales office nearest you for current information. All Johns Manville products are sold subject to Johns Manville's Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville Limited Warranty and Limitation of Remedy or for information on other Johns Manville thermal and acoustical insulation and systems, visit the website or call the 800 number above, 717 17th Street Denver CO, 80202

BID-0151 7/15

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Manufacturier de produits CVAC sur mesure

Project : 6515-103, Pumping station
Client : Promec

3. Fabrication characteristics (continued)



Manufacturier de produits CVAC sur mesure

Project : 6515-103, Pumping station
Client : Promec

Fabrication characteristics (continuation)

Identification tag

FABRICATION MEP	
TAG NO:	6515-103, Pumping station
MODEL:	AMP-PFB-2-160-E
SERIE:	AMP00378

Pedestrian door

Description:

(1x) 42" x 84"

4" insulated freezer style

Warning informations

☒ Risk of electrocution



The high performance entrance door!

The Glace-Guard™ Entrance door combines insulation performance and durability, while being attractive and virtually maintenance free. This entrance door, available in 3" or 4" thickness, is made of high quality metal skins. Its panels are insulated with a rigid polyurethane foam core, providing the highest insulation value. Its hardware is engineered to withstand an intensive usage, while providing safety and smoothness of operation.

The Glace-Guard™ Entrance door is operated by industrial cam-lift hinges, heavy duty pull handle and heavy gauge steel automatic door closer, ensuring trouble-free operation and effortless firm closing.

The Glace-Guard™ Entrance door is suitable for coolers and freezers, for both interior and exterior applications. It is your best door investment when performance, durability and low maintenance costs are criteria of selection.

The Glace-Guard™ Entrance door is ideal for applications such as:

- Supermarkets
- Restaurants
- Cold storage distribution warehouses
- Grocery distribution warehouses
- Food processing plants



Entrance® / Glace-Guard™

ET-300, ET-400 Series

Section 08326

Well insulated:

The Glace-Guard™ Entrance ET-300 (3" thick) and ET-400 (4" thick) doors are insulated with a rigid polyurethane foam core.

Designed for energy savings:

Full perimeter magnetic vinyl gasket and bottom double U-shaped rubber gasket to ensure airtight joints.

Built to last with superior quality materials:

Proven experience and expertise achieve a perfect adherence of the polyurethane foam to the metal skins, ensuring panel strength, rigidity and preservation of insulation value over time. The high quality 26 gauge galvanized steel with superior 25-micron polyester top coat, ensures durability and resistance to corrosion.

Heavy duty hardware for long lasting use and smooth operation:

Industrial cam-lift hinges, heavy duty pull handle and heavy gauge steel door closer, combined with a variety of accessories, provide trouble-free operation, safety and durability.

THERMOSTOP
Tradition of quality



Cold storage entrance door
Model Glace-Guard™ Entrance ET-300

Reference product:

Glance-Guard™ Entrance ET-300 or
Glance-Guard™ Entrance ET-400,
as manufactured by Thermostop Inc.,
www.thermostop.com

Temperature range:

-20°F to +120°F (-29°C to +49°C)

Standard dimensions:

- 36" x 84" (914mm x 2134mm)
 - 60" x 84" (1524mm x 2134mm)
- Other dimensions available upon request.

Thickness:

- Glance-Guard™ Entrance ET-300:
3" (75mm) thick
- Glance-Guard™ Entrance ET-400:
4" (100mm) thick

Panels:

Insulated with rigid polyurethane, foamed in place under high pressure between two metal skins. Standard 26ga. steel skins, white stucco finish. For other skin options, please consult *Metal skins options*. Panel frame is made with heavy duty aluminum extrusions.

Door frame and thermal barrier:

Door frame is made of shock-proof 5/32" (4mm) thick exterior and interior extruded aluminum angles. The exterior aluminum angle has an incorporated resin thermal break.

Hinges:

- For doors with width under 60" (1524mm): Self-closing and reversible high pressure die-cast zinc hinges with self-lubricating nylon cams. Brushed chrome finish.



- For doors with width of 60" (1524mm) and greater: Heavy duty self-closing and reversible high pressure die-cast zinc flanges, 3/16" (5mm) thick steel strap. Gray finish.



Pull handle:

High pressure die-cast zinc cylinder locking handle, complete with emergency inside release system. Brushed chrome finish.



Door closer:

Heavy gauge steel mechanical door closer, complete with extra-wide hook. Chrome finish.

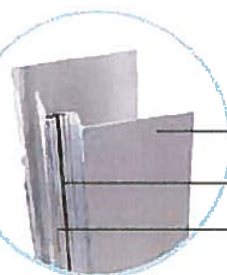


Perimeter magnetic gasket:

A full perimeter magnetic vinyl gasket insures that the door is airtight and vapour-proof on the perimeter joint.

Bottom door gasket:

Extruded aluminum retainer with two U-shaped rubber gaskets to insure airtight joints.



Door frame details

Heat trace (optional):

For freezer applications, the door is equipped with a heat trace on four (4) sides of the door, preventing ice or frost accumulation and eliminating the need to have a heated threshold.

Kick plate (optional):

36" (914mm) high steel kick plate, on full door width, to protect the door bottom against forklift impacts.

- 16ga. galvanized steel, smooth finish
- 18ga. stainless steel, #304 finish

Metal skins options:

Steel	Finish
26ga. (0.41mm)	stucco, white
20ga. (0.86mm)	smooth, white
16ga. (1.42mm)	smooth, painted

Aluminum	Finish
24ga. (0.60mm)	stucco, white or grey RAL-9006
16ga. (1.30mm)	smooth, clear anodized

THERMOSTOP
Tradition of quality

3775 Losch Blvd.
Longueuil (Quebec)
Canada
J3Y 5T7

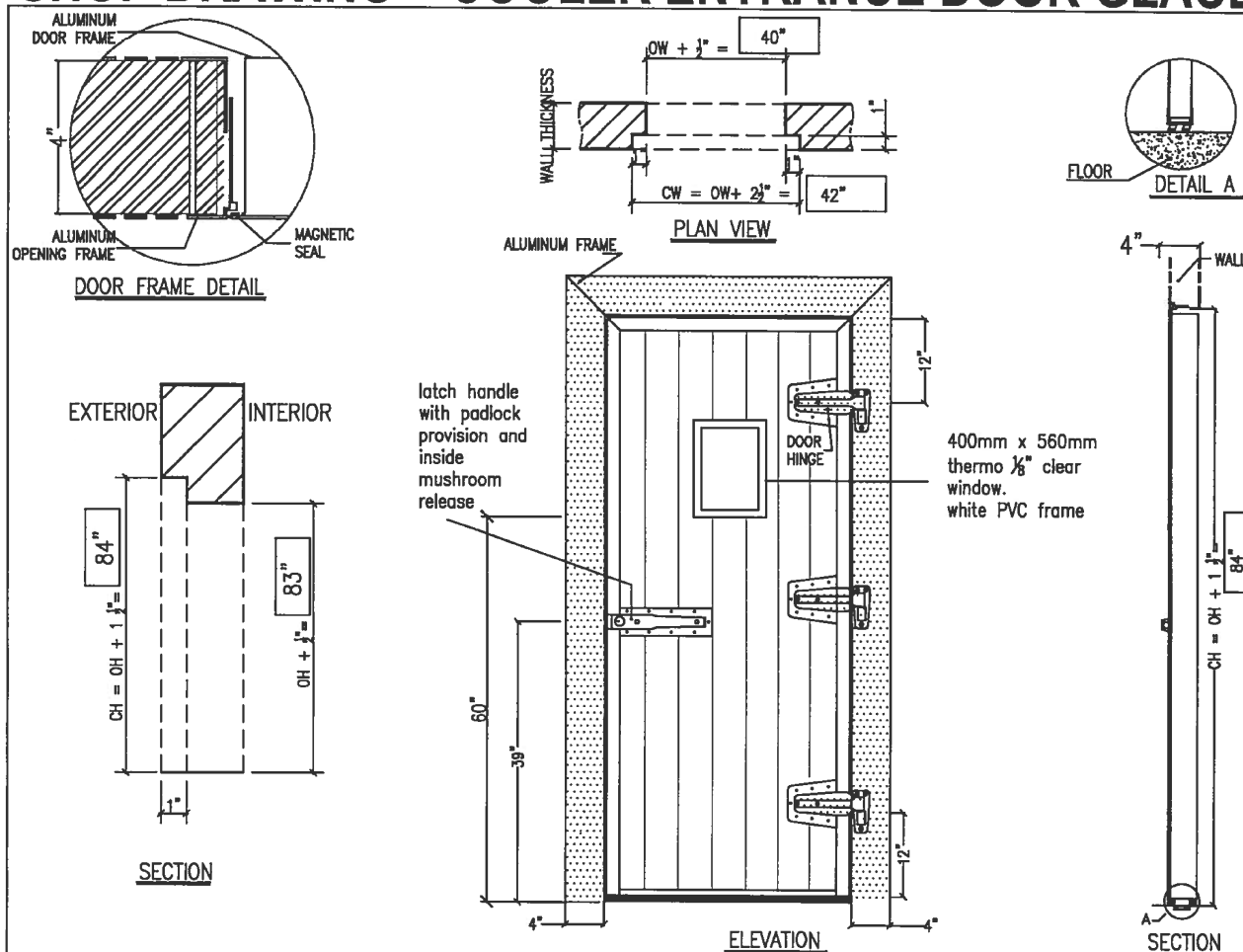
Phone: 450.678.8666
Toll free: 866.678.0123
Fax: 450.678.7765
thermostop.com

Warranty

Thermostop doors and hardware carry a warranty of one (1) year against any defects or faulty workmanship. The door panels carry a ten (10) year limited warranty against perforation due to rusting, and a five (5) year limited warranty on delamination, under normal operational conditions.

THERMOSTOP

SHOP DRAWING - COOLER ENTRANCE DOOR GLACE-GUARD ET-400



Specifications:

- ☒ ET-400: 4"(100mm)
- ☒ Cooler application (36°F and above)

Standard Features:

- *Polyurethane insulated panels
- *20ga galvanized steel, white, smooth finish with ribs
- *Heavy-duty mirror frame $\frac{5}{32}''$ (4mm) in two extruded angles. Aluminium mill finished.
- *Magnetic seals on door frame perimeter.
- *Bottom double blade seal on door panel.
- * 3 (three) 10" cam-lift hinges.
- * 1 (one) LATCH handle with padlock provision (padlock by others) & inside MUSHROOM release

Latch handle is chrome finished steel. Hinges are brush chrome finished steel

Others features:

- * Exterior chain with S hook and eye bolt
- * Interior storm door chain with spring

Legend

OW = OPENING WIDTH
 OH = OPENING HEIGHT
 CW = CLEARANCE WIDTH
 CH = CLEARANCE HEIGHT

DIMENSIONS	QTY	FINISHED OPENING		REQUIRED CLEARANCE		APPROVED FOR MANUFACTURING BY:	
		WIDTH (OW)	HEIGHT (OH)	WIDTH (CW)	HEIGHT (CH)	Name:	Date:
		39.50"	82.50"	42"	84"	Signature:	

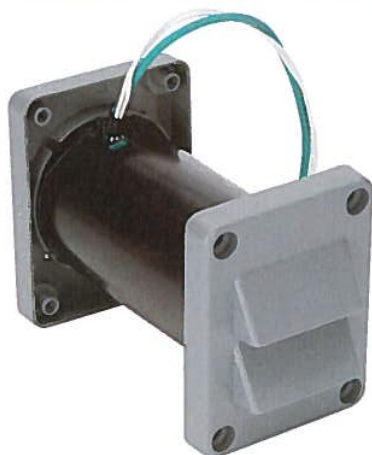
GLACE-GUARD
Cold Storage Doors

THERMOSTOP INC.

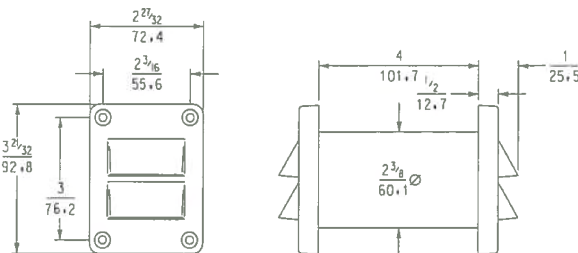
3775, boulevard Losch, Longueuil (Québec), Canada J3Y 5T7,
 Tel.: (450) 678-8666, Fax: (450) 678-7765, www.thermostop.com

Distributor: AIRMP INC.	Date: 05-09-2017	Drawn by: F.L.	Verify by: L.H.	Page: 1/2	Note : *Drawings not to scale
Customer:	Revision:				

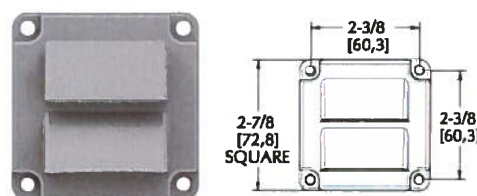
KASON PRESSURE RELIEF PORTS



STANDARD LOUVER



SQUARE LOUVER



US Patent No. 6,176,776

ITEM # 1825



1825 NARROW JAMB HEATED VENT

- Exclusive, patented Kason ventilator seals tight and opens at lowest pressure of any competitive vent.
- Lightweight, springless valves provide greater air flow at lower pressure than spring-loaded valves.
- Lower pressure allows doors to open and close with ease and reduces stress on walk-in enclosure joints, reducing chance of leaks.
- Computer-designed heater eliminates valve freezing.
- Narrow profile unit mounts in door jamb.
- Port installs through 2 1/2" (63.5mm) diameter hole with minimal wiring.
- Poppet valves close tightly to prevent air leakage.
- Engineered to optimize the self-closing potential of Kason Walk-in hinges, latches and door closers.

SPECIFICATIONS

MATERIAL:
Gray ABS plastic
valve body and
louvers, PVC tube,
internal aluminum
and stainless steel
parts.

POWER:
.04 amp @ 120 VAC;
4W heater.
.02 amp @ 230 VAC;
4W heater.

UL LISTING:
File No. E57306

SELECTION:
See Quantity Selector Chart, page
B-59.

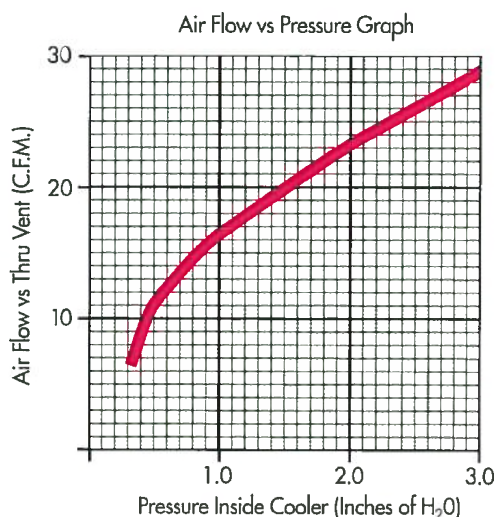
MOUNTING:
No. 1825 only mounts horizontally.
Drilled for No. 10 (5.0mm) screws.
Requires 2-1/2" (63.5mm) diameter
hole.

Model No.	Item	Qty./Carton	Wgt./Carton
11825000004	Heated Vent, 120 VAC, 4" Wall	10	7 lb. (3.2 kg)
11825000006	Heated Vent, 230 VAC, 4" Wall	10	7 lb. (3.2 kg)
11825000004	Heated Square Louver Vent, 120 VAC, 4" Wall	10	7 lb. (3.2 kg)
11825000006	Heated Square Louver Vent, 230 VAC, 4" Wall	10	7 lb. (3.2 kg)
11825000008	Unheated Vent, 4" Wall	10	7 lb. (3.2 kg)

*Other thicknesses available. Contact factory.

PERFORMANCE TESTED

Comprehensive performance tests show that Kason 1825 pressure relief ports provide better air flow at lower pressure and greater frost resistance than competitive ventilators.

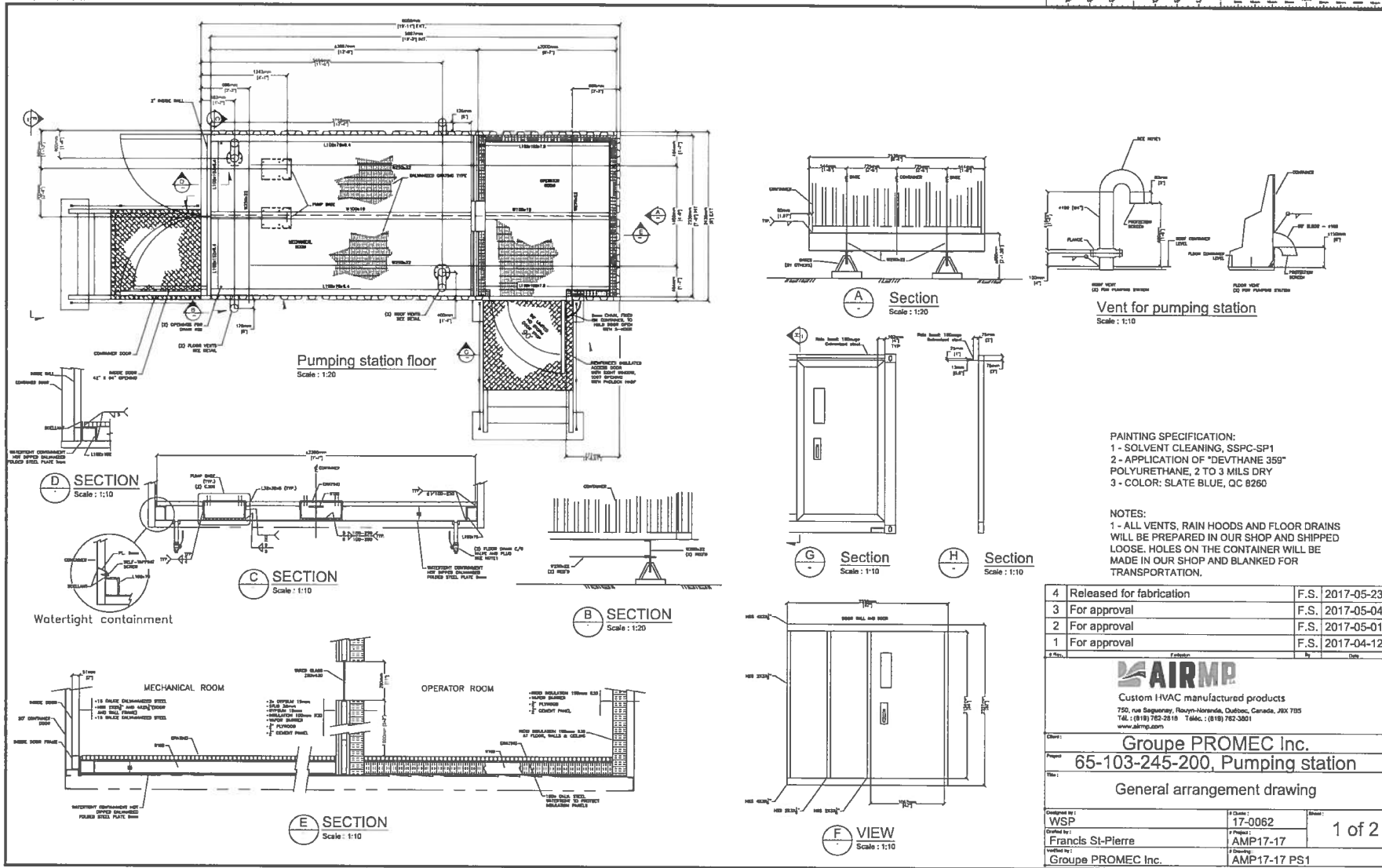


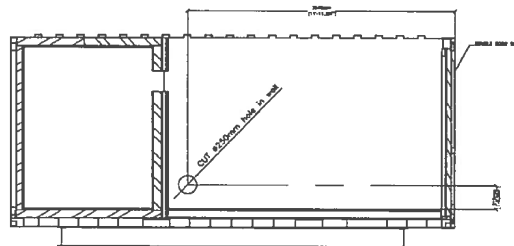


Manufacturier de produits CVAC sur mesure

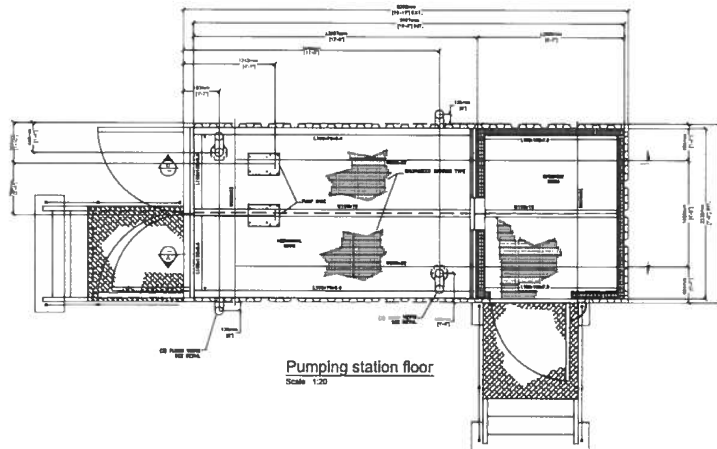
Project : 6515-103, Pumping station
Client : Promec

4. General arrangement drawings

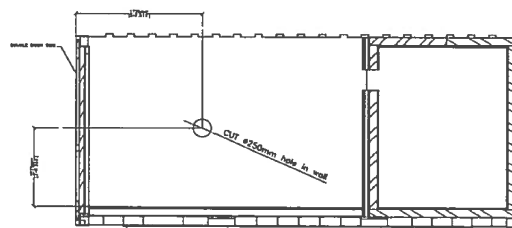




B SECTION
Scale: 1:20



Pumping station floor
Scale: 1:20



A SECTION
Scale: 1:20

3	Released for fabrication	F.S.	2017-05-23
2	For approval	F.S.	2017-05-09
1	For approval	F.S.	2017-04-12
 AIRMP Custom HVAC manufactured products 750, rue Saguenay, Rouyn-Noranda, Québec, Canada, J9X 7B5 TEL: (819) 762-2816 Téléc: (819) 762-3801 www.airmp.com			
Client:		Groupe PROMEC Inc.	
Project:		65-103-245-200, Pumping station	
Title:		Wall opening location	
Drawn by:	WSP	Project:	17-0062
Drawn by:	Francis St-Pierre, Ing.	Project:	AMP17-17
Drawn by:	Groupe PROMEC Inc.	Project:	AMP17-17 PS1
		2 of 2	

Liste de matériel (Pour 1 assemblage)						
# Pièces	Description	Grade	Détail	Epais.	Qté	Poids (lb)
AMP17-17 ST01	W250x22 X 8'-3 15/16" LG				2	124
AMP17-17 ST02	W250x22 X 15'-3 1/2" LG				2	226



Manufacturier de produits CVAC sur mesure

NOTES GÉNÉRALES:
GENERAL NOTES:

PROJECT:
PROJECT #: **AMP17-17**

CLIENT:

TITRE:
TITLE:

PIECE:
PARTS: **20 foot pumping station**

QTE: req. POIDS: 700 lb
QTY: WEIGHT:

SCEAU & SIGNÉ
SEAL & SIGNED

DESSINÉ:
DRAWN: Francis St-Pierre, Ing.
VÉRIFIÉ:
CHECKED: Richard Piquette

DATE: 2017-04-23 FEUILLE:
SHEET: 1 / 1

DESSIN REFERENCE:
REFERENCE DRAWING:

No. DESSIN:
DRAWING No. **AMP17-17 ST_1**
REV: **0**

1/4 X 45° TYP

AMP17-17 ST02

AMP17-17 ST01

3/8 TYP

2 TYP

Détail A
Échelle 1 / 5

AMP17-17 ST01

4666 mm [183 11/16 po] REF
C/C

4564 mm [179 11/16 po]
INTÉRIEUR

1450 mm [57 1/16 po] REF
C/C

1348 mm [53 1/16 po]
INTÉRIEUR

493 mm [19 7/16 po]
TYP

AMP17-17 ST02

AMP17-17 ST02

AMP17-17 ST01





Custom HVAC manufactured products

Inspection report – Paint of the unit

Contract number : Amp17-17 (PSI-103)
Client : Groupe promec inc.

CLIENT IDENTIFICATION:

Monitored points	C	NC	NN	Comments	Reference documents
Visual inspection :					
Runs	☒	☐	☐		
Misses/voids	☒	☐	☐		
Scratches	☒	☐	☐		
Dry film thickness	☒	☐	☐		
C : complying NC : non-complying NN : not needed					

Verified by : Karen Gendreau-Lacoste

Signature : Karen G. Lacoste

Date : 26 mai 2017

Reviewed by : Richard Piquette, Operations director

Signature : _____

Date : _____



Custom HVAC manufactured products

Inspection report – Paint of base

Contract number : Amp17-17 (PS1-103)

Client : Groupe promec inc.

CLIENT IDENTIFICATION:

Monitored points	C	NC	NN	Comments	Reference documents
Visual inspection :					
Runs	☒	☐	☐		
Misses/voids	☒	☐	☐		
Scratches	☒	☐	☐		
Dry film thickness	☒	☐	☐		
C : complying NC : non-complying NN : not needed					

Verified by : Karen Gendreau-Lacoste

Signature : Karen G. lacoste

Date : 26 mai 2017

Reviewed by : Richard Piquette, Operations director

Signature : _____

Date : _____

TABLE OF MEASUREMENTS

UNIT - ROOF

SPOT -->	1	2	3	4	5	AVERAGE DFT FOR EPOXY	AVERAGE WANTED DFT
1	6	5,9	5,9	7,4	7,2		
2	6,7	6,3	5,6	7,9	7,4		
3	5,9	5,8	5,7	7,7	6,9		
AVERAGE	6,20	6,00	5,73	7,67	7,17	6,55	5 TO 6,8 mils

MAKE MODEL TEST EQUIPMENT : PosiTest DFT

SERIAL# TEST EQUIPMENT : A 13938F

STANDARD CALIBRATION USED : PLASTIC SHIM

DATE: 26-mai-17

PROJECT : amp17-17 PS1-103

Verified by : Karen Gendreau-Lacoste

Reviewed by : Richard Piquette, Operations director

SIGNATURE : Karen G. lacoste

SIGNATURE : _____

TABLE OF MEASUREMENTS

UNIT - NORTH WALL

SPOT -->	1	2	3	4	5	AVERAGE DFT FOR EPOXY	AVERAGE WANTED DFT
1	10,5	7,4	7	6,1	7,4		
2	9,9	6,9	6,4	6,4	7,6		
3	9,5	6,7	6,4	5,5	6,9		
AVERAGE	9,97	7,00	6,60	6,00	7,30	7,37	5 TO 6,8 mils

UNIT - SOUTH WALL

SPOT -->	1	2	3	4	5	AVERAGE DFT FOR EPOXY	AVERAGE WANTED DFT
1	6,1	8,2	6,7	8,8	7,4		
2	6,5	8,7	6,2	8,6	7,7		
3	6,2	8,8	6,9	8,5	6,8		
AVERAGE	6,27	8,57	6,60	8,63	7,30	7,47	5 TO 6,8 mils

TABLE OF MEASUREMENTS

UNIT - EAST WALL

SPOT -->	1	2	3	4	5	AVERAGE DFT FOR EPOXY	AVERAGE WANTED DFT
1	6,9	6,5	6,3	4,7	5,5		
2	6,5	5,9	5,9	4,6	5,4		
3	7,2	5,8	6,2	4,9	6,3		
AVERAGE	6,87	6,07	6,13	4,73	5,73	5,91	5 TO 6,8 mils

UNIT - WEST WALL

SPOT -->	1	2	3	4	5	AVERAGE DFT FOR EPOXY	AVERAGE WANTED DFT
1	6,3	4,9	6,4	5	5,3		
2	5,6	5,2	5,8	5,2	4,9		
3	5,6	5,1	5,6	5,5	5,2		
AVERAGE	5,83	5,07	5,93	5,23	5,13	5,44	5 TO 6,8 mils

TABLE OF MEASUREMENTS

BASE

SPOT -->	1	2	3	4	5	AVERAGE DFT FOR EPOXY	AVERAGE WANTED DFT
1	10,9	8,9	7,8	6,9	6,6		
2	11,4	9,2	7,7	7,1	6,3		
3	11,5	9,5	7,5	6,3	7,3		
AVERAGE	11,27	9,20	7,67	6,77	6,73	8,33	6 TO 12 mils

MAKE MODEL TEST EQUIPMENT : PosiTest DFT

SERIAL# TEST EQUIPMENT : A 13938F

STANDARD CALIBRATION USED : PLASTIC SHIM

DATE: 26-mai-17

PROJECT : Amp17-17 PS1-103

Verified by : Karen Gendreau-Lacoste

Reviewed by : Richard Piquette, Operations director

SIGNATURE : Karen G. Lacoste

SIGNATURE : _____



Vendor Document Status

AGNICO EAGLE

- 1 ☐ Proceed to next submission and status.
- 2 ☐ Proceed with exceptions as noted to next submission and status.
- 3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.
- 4 ☒ Complete, no further submission required.

By: **JEAN-FRANCOIS TREMBLAY** Date: **2017-05-16**

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle
No. 6515-C-270-007-141-TES-0046 R: Sub001

DOCUMENT FOR INFORMATION



Agnico-Eagle Mines Ltd.
Walkways and Stairways Check List

ITR Number : AEM-ME-ITR-004
Contract no. : C22466T



SYSTEM: <u>Fuel Farm Rankin</u>	TAG NO. <u>N/A</u>	
LOCATION: <u>Rankin inlet</u>	AREA: <u>ALL</u>	UNIT: <u>4</u>
Check when satisfactory. If not satisfactory, include nonconformance report, control and re-inspect when correct		
DESCRIPTION	STATUS	REMARKS
1. Installed in accordance with drawings and specifications	✓	
2. Stairs and ladders are securely anchored	✓	
3. Bolts are correct type and length	✓	
4. Bolts tightened (indicated by the burnishing or preening of the corners by the impact wrench)	✓	
5. Ladders and stairs are free of obstructions and are the correct width	✓	
6. The first and last rung of stair riser is the correct height from grade or a platform	✓	
7. Safety chains or bars are installed at ladder openings		<u>N/A</u>
8. Hand grip surfaces on hand rails and ladders are ground smooth	✓	
9. Toe plate is rigid and installed at all required locations	✓	
10. Handrails & toe plates terminating at structural members are welded at structural joint	✓	
11. Penetrations of pipe, ducts and conduit through platforms are located properly, correct size and banded with toe plates		<u>N/A</u>
12. All grating secured to support steel with removable saddle clip anchors	✓	
13. All paint and galvanized damaged areas have been touched up	✓	
14. Ensure all valve operators, chain operators and access to valve handles		<u>N/A</u>
15. Verify proper installation of fall arrest anchor points		<u>N/A</u>
COMMENTS:		



PROMEC DESIGNATE - SIGNATURE



DIRECTOR OF PIPINGS - TITLE

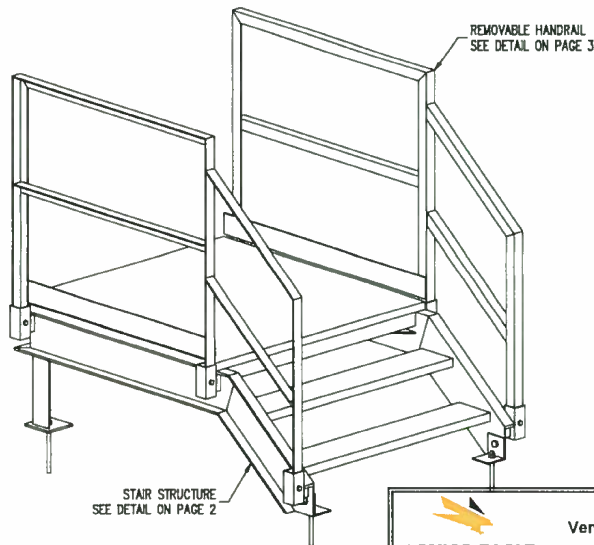
04-10-2017

DATE

CLIENT DESIGNATE - SIGNATURE

TITLE

DATE



ISOMETRIC VIEW
CONTAINER CATWALK

WSP SHOP DRAWING DATA SHEET

Affixing this stamp confirms that an administrative approval and/or a verification of compliance with shop drawings or specifications was made, but does not entail the liability of the author of the work or its owner with regards to this shop drawing or data sheet, for which the contractor is the sole responsible.

☒ Reviewed ☐ Reviewed as noted
☐ Rejected ☐ Filed for records

The contractor, supplier and/or sub-contractor is responsible for confirming and coordinating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his or her work with that of all other trades and performing all work in a safe and satisfactory manner.

By: Joël Morliere Date: 2017/05/23
 Q-ADN-272-03-11E-2 Project # 151-06440-40

AGNICO EAGLE Vendor Document Status

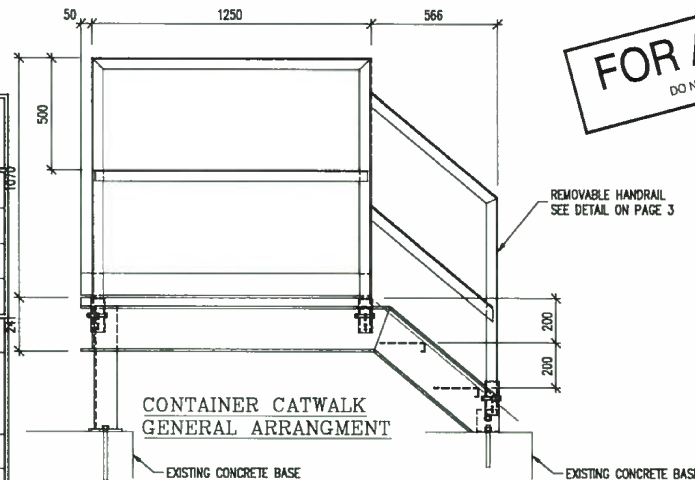
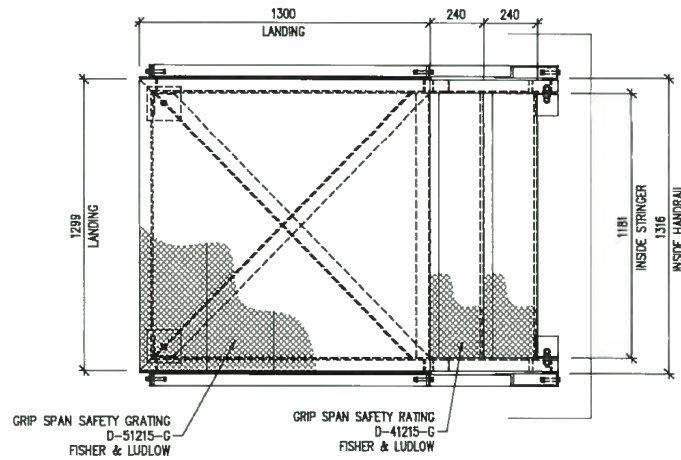
1 ☐ Proceed to next submission and status.
 2 ☐ Proceed with exceptions as noted to next submission and status.
 3 ☐ Do not proceed.
 4 ☒ Complete, no further submission required.

By: Joël Morliere Date: 2017-05-23

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Agnico Eagle No. 6515-C-270-007-245-SPD-0001 R: Sub001

DOCUMENT FOR INFORMATION



FOR APPROVAL
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Révision:			
AA	2017-05-10	FOR APPROVAL	MC
No	Date (a-m-j)	Description	Par

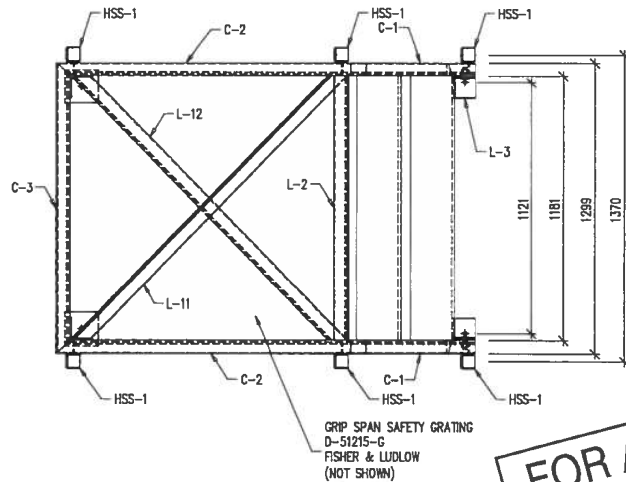
Client:

NORMEX
LA SARRE, QUEBEC
(TEL) 519-333-1200
(FAX) 519-333-1212

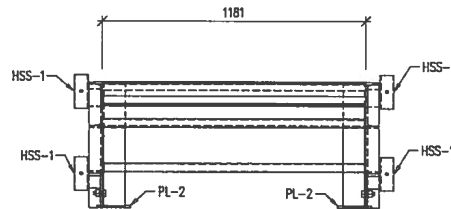
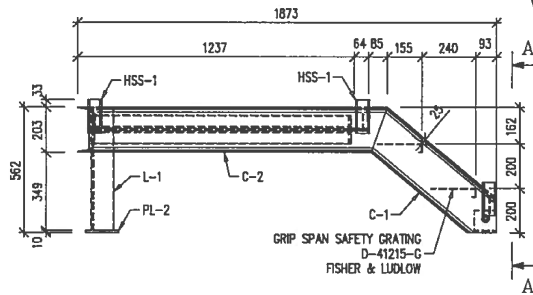
exp.

Las Services exp. inc.
1-816-762-2888 (1-816-762-4814)
25, 1^{er} Plan, Bureau 102
Rouge-Moquette, QC J3R 2A0
CANADA
www.exp.ca

Projet: AGNICO EAGLE - MELIADINE DIVISION - FUEL DISTRIBUTION			
Titre: CONTAINER CATWALK STRUCTURAL GENERAL ARRANGEMENT			
Approuvé par: JONATHAN FAUCHER ing	Dessiné par: MARIO CLUCHE ing.	Date: 2017-05-10	Page: 1 de 4
Dossier: 999-00048075-PP	Numéro de dessin: NMOI - 00048075 - A0 - S01 - AA		

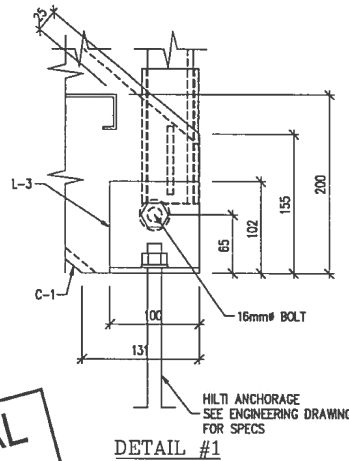


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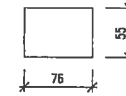


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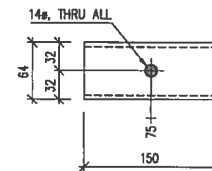
1 REQ'D STAIR STRUCTURE ARRANGEMENT



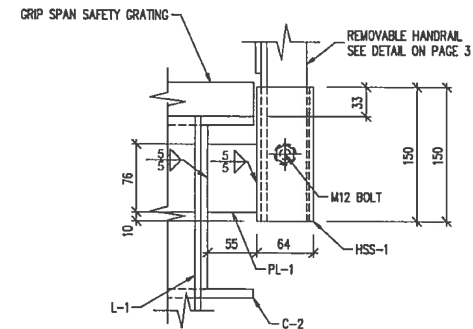
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6x(PL-1) PL 6.3x55x76-A36



6x(HSS-1) HS64x64x4.8-A500



DETAIL #1

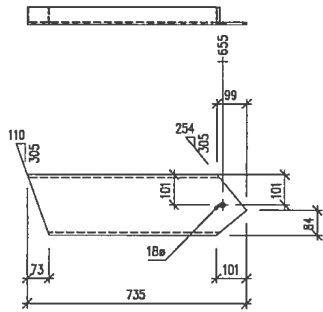
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No	Date (a-m-j)	Description	Par

Client

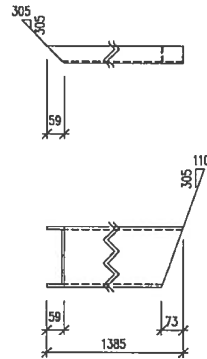
NORMEX
LA SARRÉ, QUÉBEC
(TEL) 819-333-1200
(FAX) 819-333-1212

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Les Services exp inc.
1-819-762-2888 (T) - 1-819-762-4814
28, rue du, bureau 200
Rouville-Harmon, QC J8K 2M3
CANADA
www.exp.ca

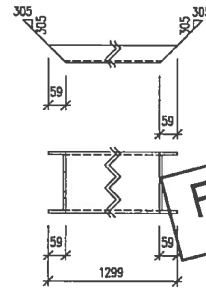
Projet : AGNICO EAGLE - MELIADINE DIVISION - FUEL DISTRIBUTION			
Titre : CONTAINER CATWALK STRUCTURAL STAIR DETAILS			
Approuvé par : JONATHAN FAUCHER ing.	Dessiné par : MARIO CLICHE ing.	Date : 2017-05-10	Page: 2 de 4
Dossier : 999-00048075-PP	Numéro de dessin : NMOI - 00048075 - A0 - S01 - AA		



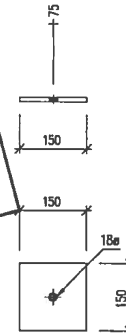
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1L/1R **C-2** C200x21-300W

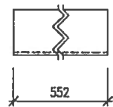


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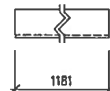


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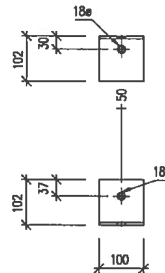
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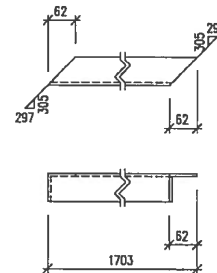
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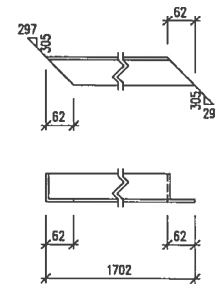
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2X **L-3** L102X102X6.4-300W



1X **L-12** L64X64X6.4-300W



1X **L-11** L64X64X6.4-300W

Révision :			
AA	2017-05-10	FOR APPROVAL	MC
No	Date (a-m-j)	Description	Par

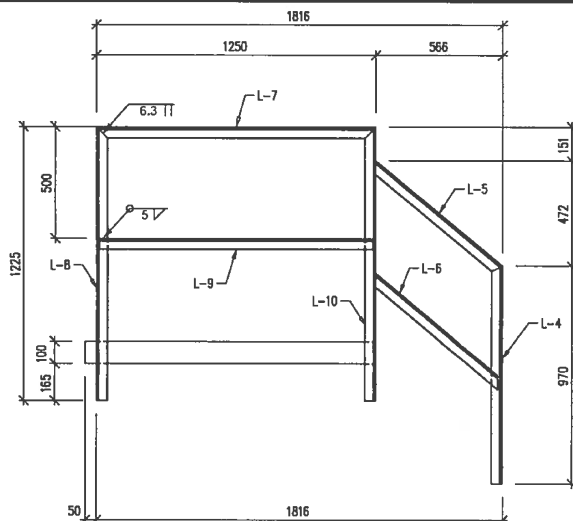
Client :

NORMEX
LA SARRE, QUEBEC
(TEL) 819-333-1200
(FAX) 819-333-1212

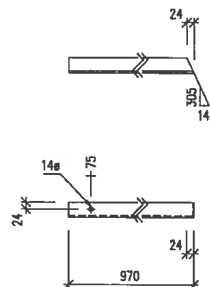
exp.

Les Services exp inc.
1-819-762-2888 (T) - 1-819-762-8114
26, 1^{er} étage, bureau 200
Régina-Henriette, QC J3A 2A3
CANADA
www.exp.ca

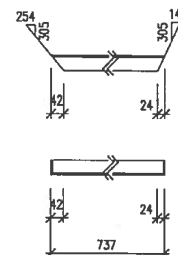
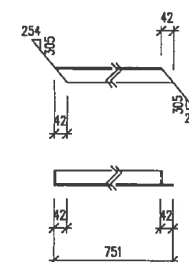
Projet : AGNICO EAGLE - MELIADINE DIVISION - FUEL DISTRIBUTION			
Titre : CONTAINER CATWALK STRUCTURAL STAIR DETAILS			
Approuvé par : JONATHAN FAUCHER ing.	Dessiné par : MARIO CLUCHE ing.	Date : 2017-05-10	Page : 3 de 4
Dossier : 999-00048075-PP	Numéro de dessin : NMOI - 00048075 - A0 - S01 - AA		



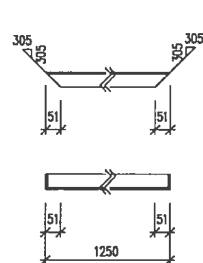
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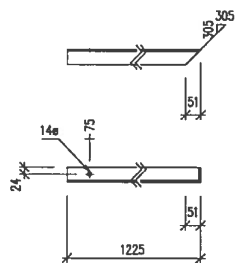
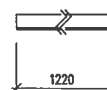
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2x **L-5** L51X51X6.4-300W2x L-6 L51X51X6.4-300W

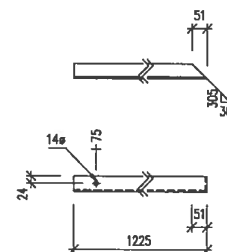
FOR APPROVAL
DO NOT USE FOR FABRICATION



2X(L-7) L51X51X6.4-300W

2X **L-8** L51X51X6.4-300W

2x **L-9** L51X51X6.4-300W

2X L-10 L51X51X6.4-300W

AA	2017-05-10	FOR APPROVAL	MC
No	Date (a-m-y)	Description	Par

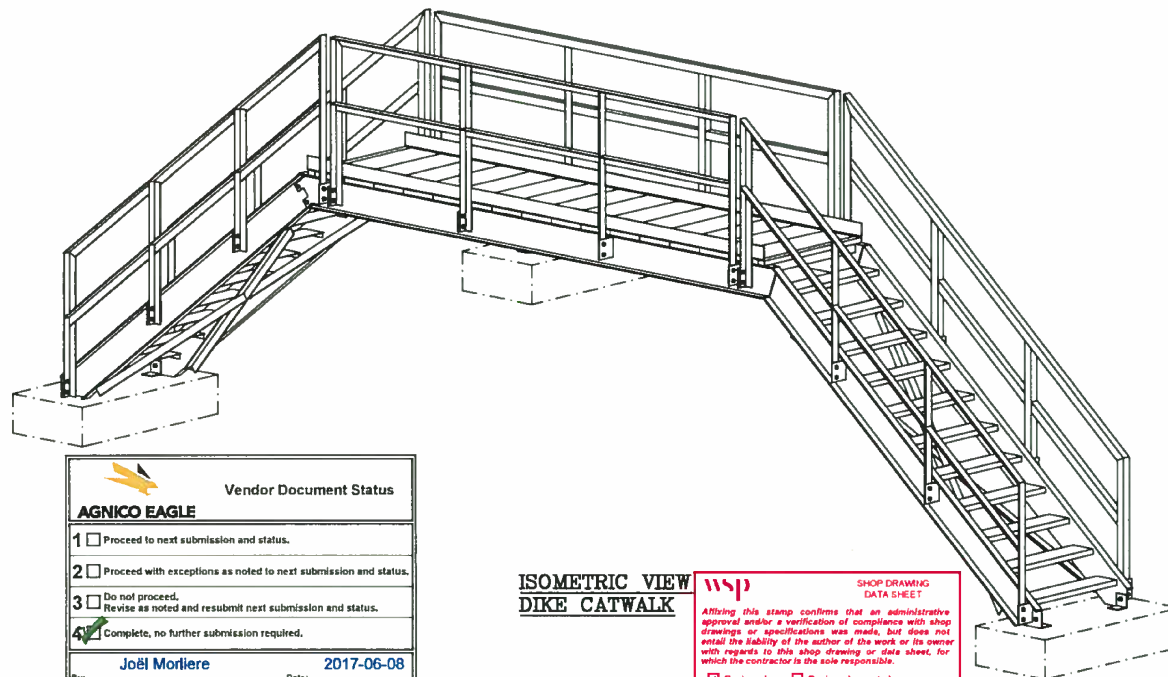
Client :


NORMEX
LA SARRE, QUEBEC
(TEL) 819-333-1200
(FAX) 819-333-1212



Las Services exp inc.
 • 1-819-762-2868 | • 1-819-762-4514
 20, 1^{re} Rue, bureau 205
 Rougemont-sur-Matane, QC J9A 2M2
 CANADA
 WWW.EXP-CA.COM

Projet : AGNICO EAGLE - MELIADINE DIVISION - FUEL DISTRIBUTION			
Titre : CONTAINER CATWALK STRUCTURAL HANDRAIL DETAILS			
Approuvé par : JONATHAN FAUCHER ing.	Dessiné par : MARIO CLICHE ing.	Date : 2017-05-10	Page: 4 de 4
Dossier : 999-00048075-PP Numéro de dessin : NMOI-00048075-00-A0-S01-AA			



Vendor Document Status	
1	☐ Proceed to next submission and status.
2	☐ Proceed with exceptions as noted to next submission and status.
3	☐ Do not proceed. Revise as noted and resubmit next submission and status.
4	☒ Complete, no further submission required.
By: Joël Morliere Date: 2017-06-08	
Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.	
Agnico Eagle No. 6515-C-270-007-245-SPD-0002 R: Sub002	
DOCUMENT FOR INFORMATION	

**ISOMETRIC VIEW
DIKE CATWALK**

SHOP DRAWING DATA SHEET	
Affixing this stamp confirms that an administrative approval and/or a verification of compliance with shop drawings or specifications was made, but does not entail the liability of the author of the work or its owner with regards to this shop drawing or data sheet, for which the contractor is the sole responsible.	
☒ Reviewed ☐ Rejected	☐ Reviewed as noted ☐ Filed for records
The contractor, supplier and/or sub-contractor is responsible for: confirming and coordinating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his or her work with that of all other trades and performing all work in a safe and satisfactory manner.	
By: J. Morliere	Date: 2017/06/08
Project # 151-06440-40	

GENERAL NOTES:

- REFERENCE DRAWING : 65-103-245-201 REVISION 2
- CATWALK, RAILING AND STAIRS ARE ASSEMBLED AND BOLTED ON SITE.

MATERIAL:

- GRATING FOR LANDING
GRIP SPAN SAFETY GRATING
GALVANIZED STEEL
D-51215-G
BY FISHER & LUDLOW
- STAIR
GRIP SPAN SAFETY GRATING
GALVANIZED STEEL
D-41215-G
BY FISHER & LUDLOW
- STEEL
ALL STEEL MUST BE IN APPLIANCE WITH CSA G40.21
- WELD
ALL WELDS MUST BE IN APPLIANCE WITH W59.1 AND W47
- PAINT
SEE AGNICO EAGLE REQUESTED SPECS

DESIGN:

- DL = 0.5 KPa
- LL = 4.8 KPa
- DEFLECTION = L/300

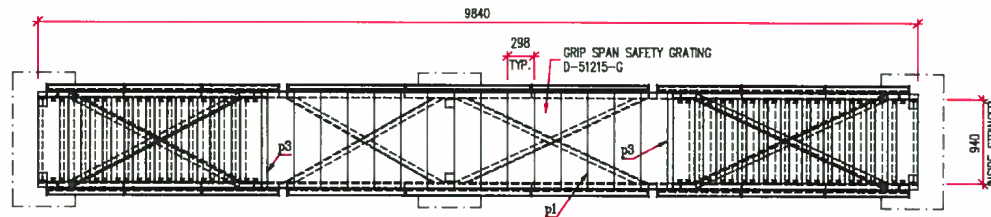
FOR APPROVAL
DO NOT USE FOR FABRICATION

Révision :			
BB	2017-05-29	HANDRAIL & STRINGER MODIFICATION	MC
AA	2017-05-16	FOR APPROVAL	MC
No	Date (a-m-j)	Description	Par

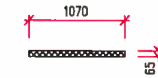
LA SARRÉ, QUÉBEC (TEL) 819-333-1200 (FAX) 819-333-1212

Les Services exp. inc. 1-819-732-2888 (T) • 1-819-732-8814 25, 19e Rue, Dorval (QC) H9P 1A5 CANADA www.exp.com

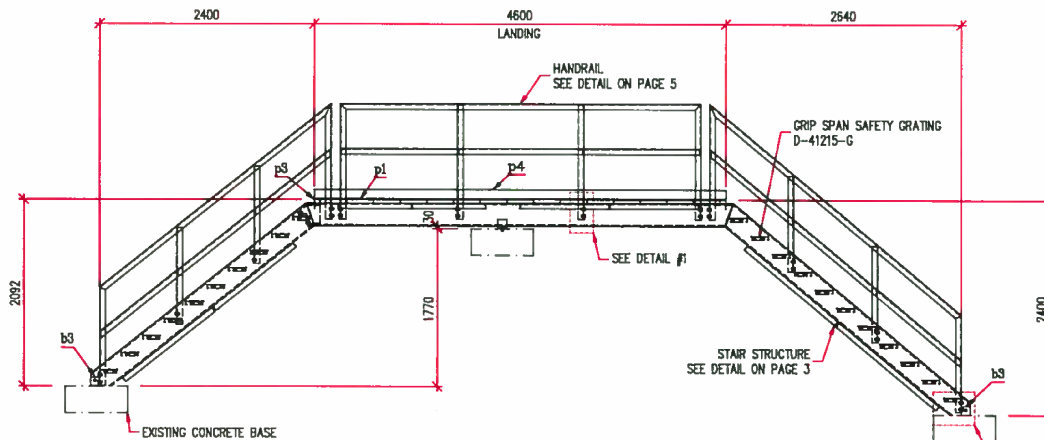
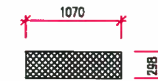
Projet : AGNICO EAGLE - MELIADINE DIVISION - FUEL DISTRIBUTION			
Titre : DIKE CATWALK STRUCTURAL GENERAL ARRANGEMENT			
Approuvé par : JONATHAN FAUCHER ing.	Dessiné par : MARIO CLICHE ing.	Date : 2017-05-16	Page : 1 de 6
Dossier : 999-00048075-PP		Numéro de dessin : NMCI - 00048075 - A0 - S03 - BB	



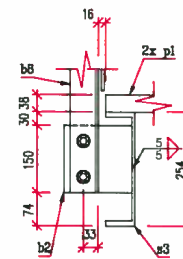
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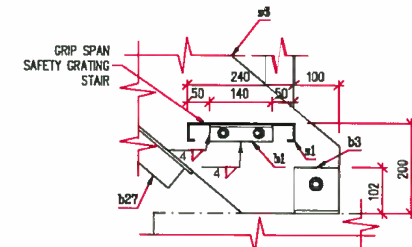
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1 REQ'D DIKE STAIR ARRANGEMENT



DETAIL #1



DETAIL #2

FOR APPROVAL
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Révision:			
BB	2017-05-29	HANDRAIL & STRINGER MODIFICATION	MC
AA	2017-05-16	FOR APPROVAL	MC
No	Date (a-m-j)	Description	Par

Client:

NORMEX

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(FAX) 819-333-1212

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Les Services exp. inc.

1-819-782-2868 / 1-819-782-4814

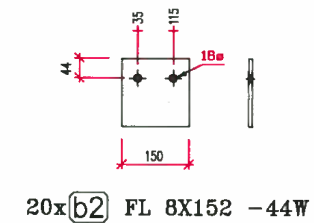
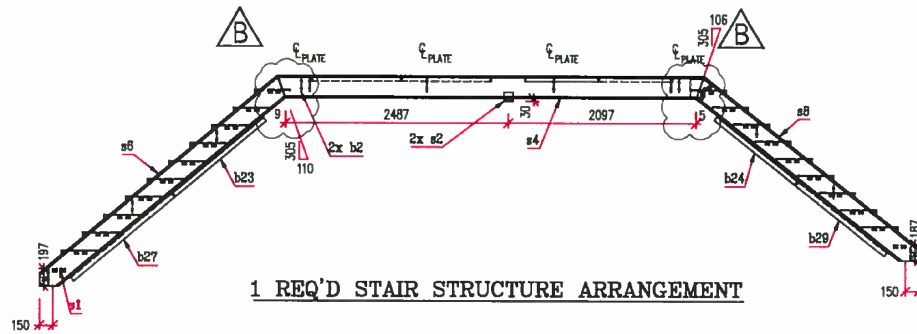
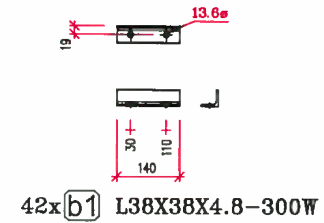
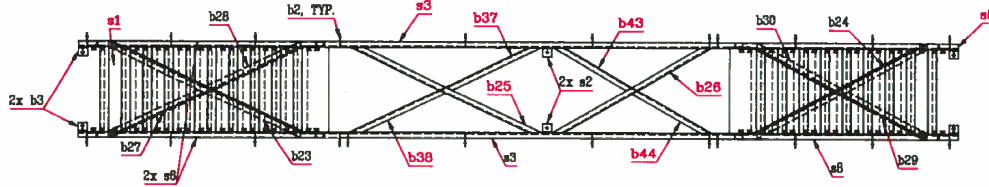
25, 1^{er} étage, bureau 200

Rouyn-Noranda, QC J0X 2N4

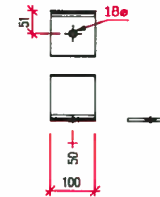
CANADA

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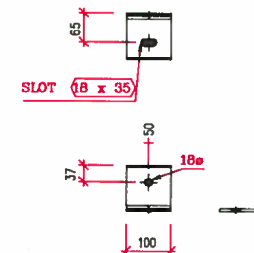
Projet: AGNICO EAGLE - MELIADINE DIVISION - FUEL DISTRIBUTION			
Titre: DIKE CATWALK STRUCTURAL CATWALK ARRANGEMENT			
Approuvé par: JONATHAN FAUCHER ing.	Dessiné par: MARIO CLICHE ing.	Date: 2017-05-16	Page: 2 de 6
Dossier: 999-00048075-PP	Numéro de dessin: NMOI - 00048075 - A0 - S03 - BB		



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2x(s2) L102X102X6.4-300W



4x(b3) L102X102X6.4-300W

Revision :			
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AA	2017-05-16	FOR APPROVAL	MC
No	Date (a-m-j)	Description	Par

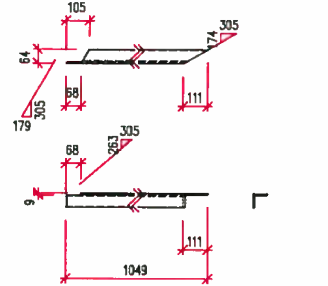
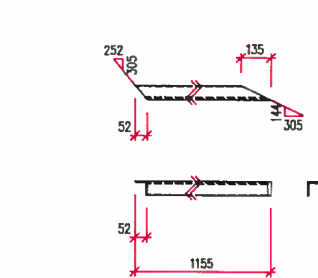
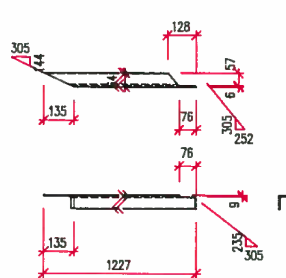
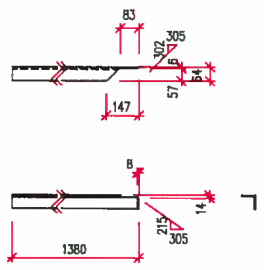
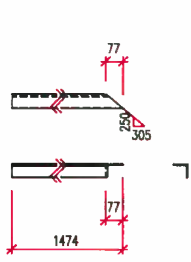
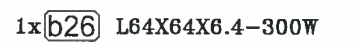
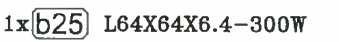
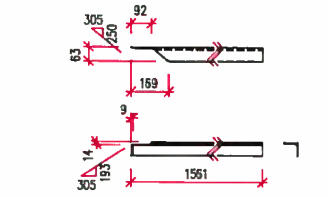
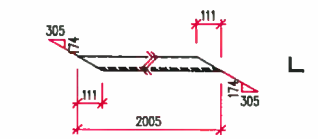
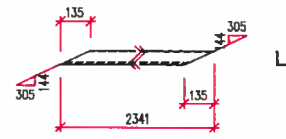
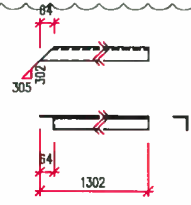
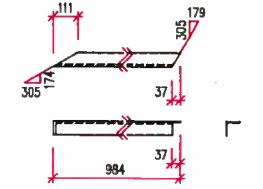
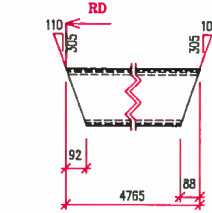
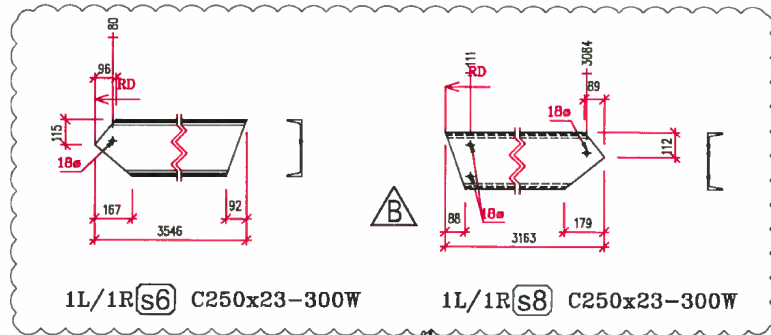
Client :

NORMEX
LA SARRÉ, QUÉBEC
(TEL) 819-333-1200
(FAX) 819-333-1212

exp.

Les Services exp. inc.
1 - 1319 762-2888 (T) +1 819 762-4814
25, 18e Plaz. Normex 200
Rouyn-Noranda, QC J0L 2K3
CANADA
www.exp.ca

Projet : AGNICO EAGLE - MELIADINE DIVISION - FUEL DISTRIBUTION			
Titre : DIKE CATWALK STRUCTURAL STAIR ARRANGEMENT			
Approuvé par : JONATHAN FAUCHER ing.	Dessiné par : MARIO CLICHE ing.	Date : 2017-05-16	Page : 3 de 6
Dossier : 999-00048075-PP	Numéro de dessin : NMOI - 00048075 - A0 - S03 - BB		



Révision :			
BB	2017-05-29	HANDRAIL & STRINGER MODIFICATION	MC
AA	2017-05-16	FOR APPROVAL	MC
No	Date (a-m-j)	Description	Par

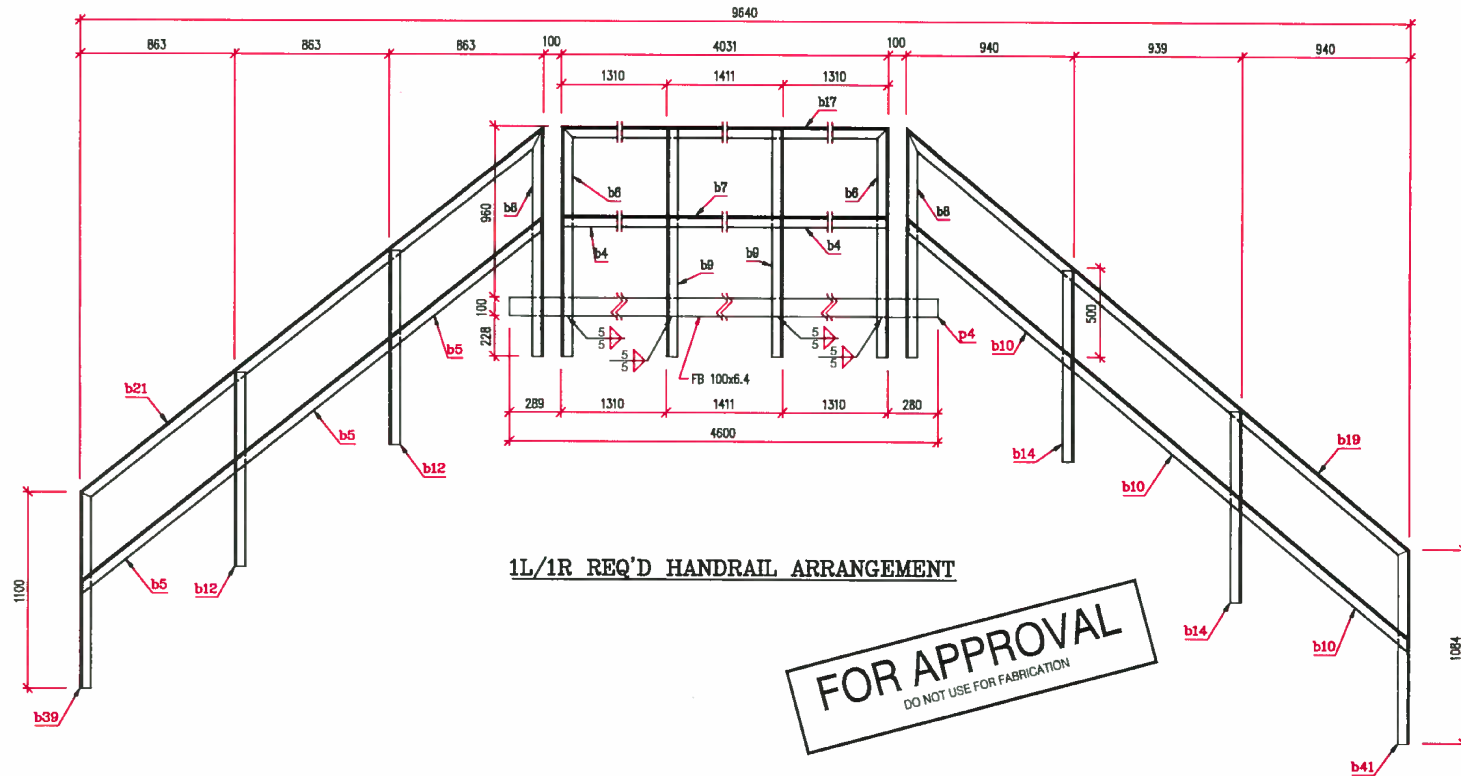
Client :

NORMEX
LA SARRE, QUEBEC
(TEL) 819-333-1200
(FAX) 819-333-1212

exp.

Les Services exp. inc.
1-819-762-2888 / 1-819-762-4814
26, Rue Normex inc.
Brossard, QC J2K 2M4
CANADA
www.exp.ca

Projet : AGNICO EAGLE - MELIADINE DIVISION - FUEL DISTRIBUTION			
Titre : DIKE CATWALK STRUCTURAL STAIR DETAILS			
Approuvé par : JONATHAN FAUCHER ing.	Dessiné par : MARIO CLICHE ing.	Date : 2017-05-16	Page : 4 de 6
Dossier : 999-00048075-PP	Numéro de dessin : NM01 - 00048075 - A0 - S03 - BB		



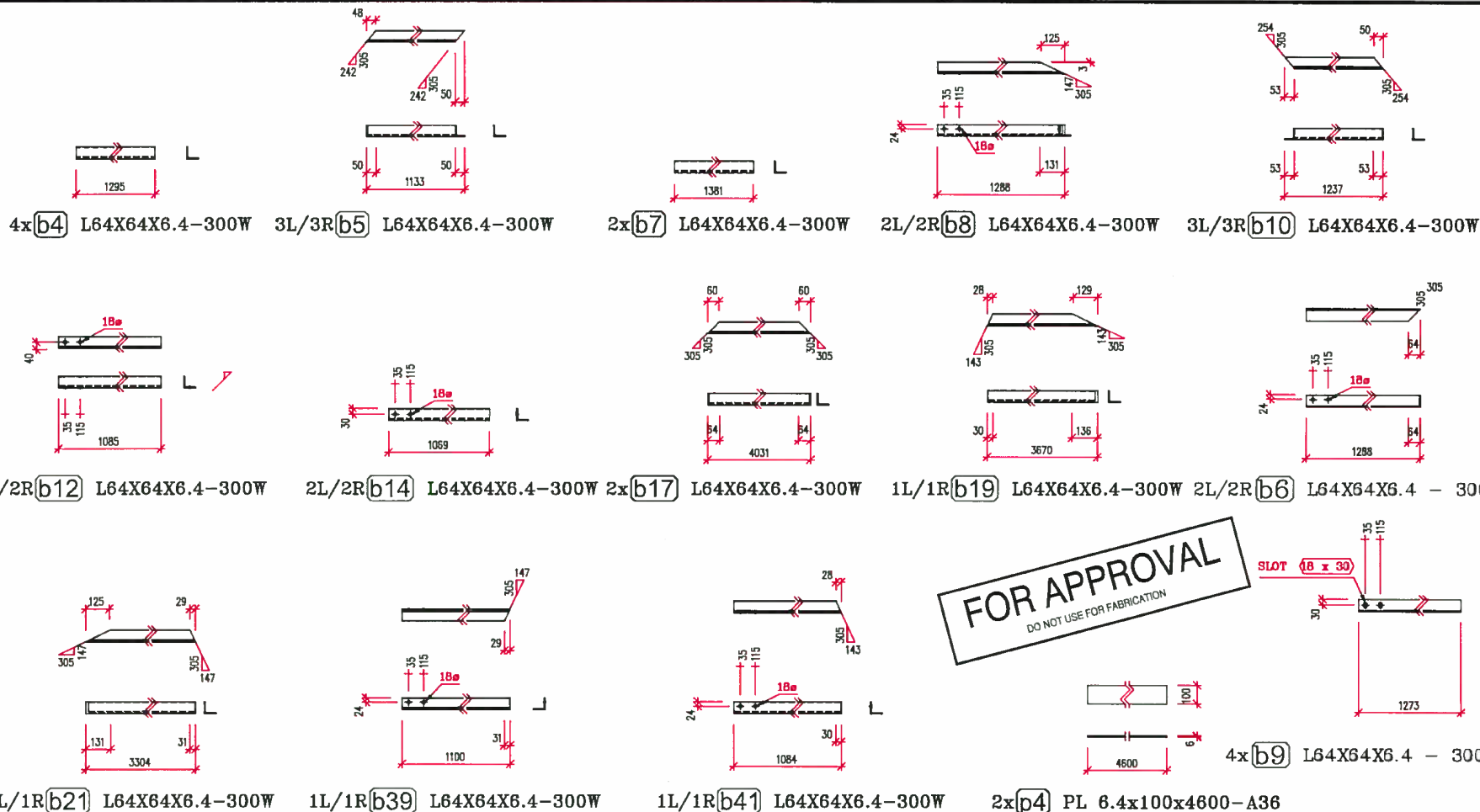
Révision:			
BB	2017-05-29	HANDRAIL & STRINGER MODIFICATION	MC
AA	2017-05-16	FOR APPROVAL	MC
No	Date (a-m-j)	Description	Par

Cliant :

NORMEX
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(TEL) 819-333-1200
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exp.
Les Services exp. Inc.
1-819-762-3888 (T) - 1-819-762-4814
26, 1^{re} Place, Niveau 200
Rouyn-Noranda, QC J0X 2M3
CANADA
www.exp.com

Projet : AGNICO EAGLE - MELIADINE DIVISION - FUEL DISTRIBUTION			
Titre : DIKE CATWALK STRUCTURAL HANDRAIL ARRANGEMENT			
Approuvé par : JONATHAN FAUCHER Ing.	Dessiné par : MARIO CLUCHE Ing.	Date : 2017-05-16	Page: 5 de 6
Dossier : 999-00048075-PP	Numéro de dessin : NMOI - 00048075 - A0 - S03 - BB		



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NORMEX
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Les Services exp. inc.
1-1-819-782-2888 (1-1-819-782-4814)
29, 18e Rue, bureau 201
Rivière-Henri, QC J9Y 2A3
CANADA
www.exp.ca

Projet: AGNICO EAGLE - MELJADINE DIVISION - FUEL DISTRIBUTION			
Titre: DIKE CATWALK STRUCTURAL HANDRAIL DETAILS			
Approuvé par: JONATHAN FAUCHER ing.	Dessiné par: MARIO CLICHE ing.	Date: 2017-05-16	Page: 6 de 6
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HANDRAIL
SEE DETAIL ON PAGE 5

EXISTING CONCRETE BASE

STAIR STRUCTURE
SEE DETAIL ON PAGE 3

EXISTING CONCRETE BASE

ISOMETRIC VIEW
PIPE CATWALK

GENERAL NOTES:

- REFERENCE DRAWING : 65-103-245-201 REVISION 2
- CATWALK, RAILING AND STAIRS ARE ASSEMBLED AND BOLTED ON SITE.

MATERIAL:

- GRATING FOR LANDING
GRIP SPAN SAFETY GRATING
GALVANIZED STEEL
D-51215-G
BY FISHER & LUDLOW
- STAIR
GRIP SPAN SAFETY GRATING
GALVANIZED STEEL
D-41215-G
BY FISHER & LUDLOW
- STEEL
ALL STEEL MUST BE IN APPLIANCE WITH CSA G40.21
- WELD
ALL WELDS MUST BE IN APPLIANCE WITH W59.1 AND W47
- PAINT
SEE AGNICO EAGLE REQUESTED SPECS

DESIGN:

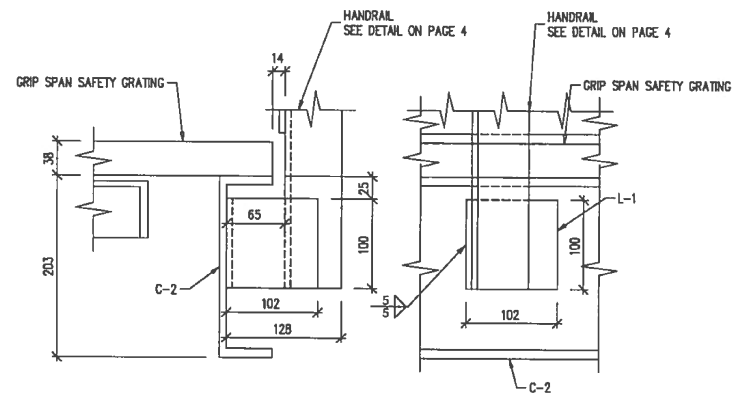
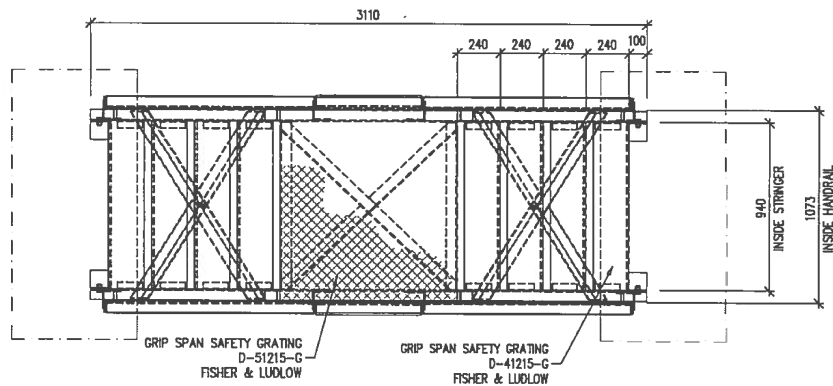
- DL = 0.5 KPa
- LL = 4.8 KPa
- DEFLECTION = L/300

	
Vendor Document Status	
1 ☐	Proceed to next submission and status.
2 ☐	Proceed with exceptions as noted to next submission and status.
3 ☐	Do not proceed. Revise as noted and resubmit next submission and status.
4 ☒	Complete, no further submission required.
By: Joël Morliere	Date: 2017-05-23
Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.	
Agnico Eagle No. 6515-C-270-007-245-SPD-0003 R: Sub001	
DOCUMENT FOR INFORMATION	

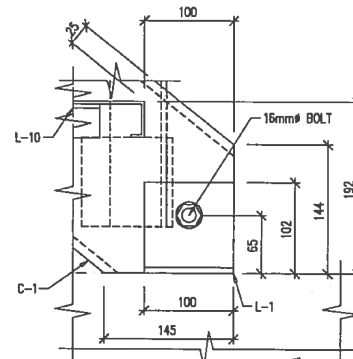
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SHOP DRAWING DATA SHEET	
Affixing this stamp confirms that an administrative approval and/or a verification of compliance with shop drawings or specifications was made, but does not entail the liability of the author of the work or its owner with regards to this shop drawing or data sheet, for which the contractor is the sole responsible.	
☒ Reviewed	☐ Reviewed as noted
☐ Rejected	☐ Filed for records
The contractor, supplier and/or sub-contractor is responsible for: confirming and coordinating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his or her work with that of all other trades and performing all work in a safe and satisfactory manner.	
By: Joël Morliere	Date: 2017/05/23
G-ADM-222-02-11C-2	Project #: 151-06440-40

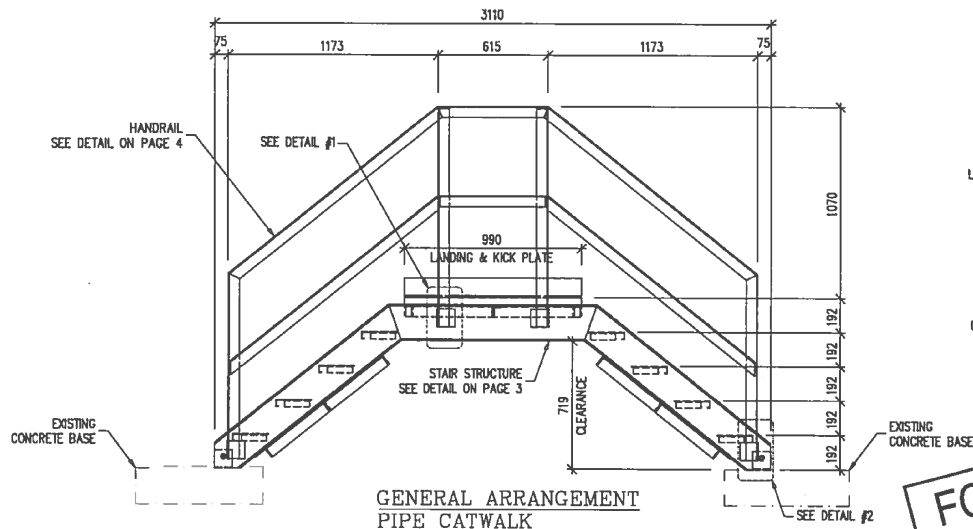
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				AGNICO EAGLE - MELIADINE DIVISION - FUEL DISTRIBUTION	
				Titre :	
		Les Services exp. inc. 1, 1810, 782-2880 (T) - 1, 810, 782-4814 26, 190 Rue, Suite 200 Boucherville, QC J0J 2N0 CANADA www.exp.ca		PIPE CATWALK STRUCTURAL GENERAL ARRANGEMENT	
AA	2017-05-15	FOR APPROVAL	MC	Approuvé par :	Date :
No	Date (a-m-j)	Description	Par	JONATHAN FAUCHER ing.	2017-05-15
				Dossier :	Page :
				999-00048075-PP	1 de 5
				Numéro de dessin :	Page :
				NMOI - 00048075 - A0 - S02 - AA	



DETAIL #1



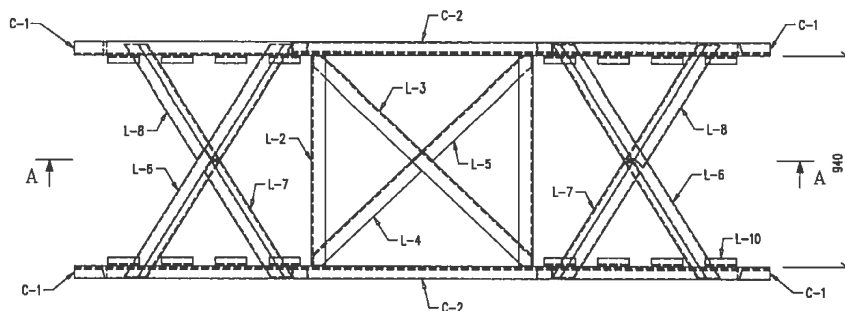
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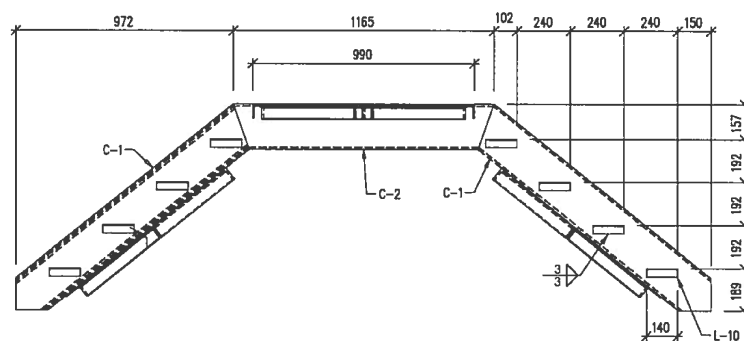
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		 NORMEX LA SARRE, QUEBEC (TEL) 819-333-1200 (FAX) 819-333-1212		AGNICO EAGLE - MELIADINE DIVISION - FUEL DISTRIBUTION	
		 exp. L&S Services exp inc. 1-1618-782-2888 (1-1618-782-4814) 26, 18e Rue, bureau 200 Repulse-Harvey, QC J9A 2A3 CANADA www.exp.com		Titre : PIPE CATWALK STRUCTURAL GENERAL ARRANGEMENT	
AA	2017-05-15	FOR APPROVAL	MC	Approuvé par :	JONATHAN FAUCHER ing.
No	Date (a-m-j)	Description	Par	Dessiné par :	MARIO CLUCHE ing.
				Date :	2017-05-15
				Page :	2 de 5
				Dossier :	999-00048075-PP
				Numéro de dessin :	NMOI - 00048075 - A0 - S02 - AA

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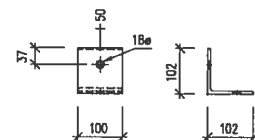


1 REQ'D STAIR STRUCTURE ARRANGEMENT

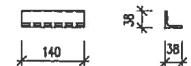


Section A - A

SLOT 18mm DIA. x 35 Lg.



4x(L-1) L102X102X6.4-300W



16x(L-10) L38X38X4.8-300W

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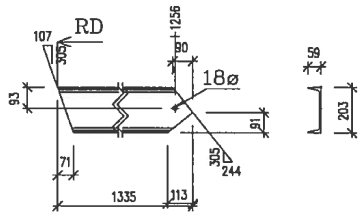
Client :

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(TEL) 819-333-1200
(FAX) 819-333-1212

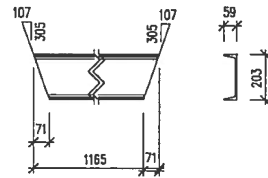
exp.

Les Services exp inc.
1 - 11819 762 2988 (1 - 11819 762 4814)
706, 10e Rue, Montreal 200
Montréal, QC H2R 2N3
CANADA
www.exp.com

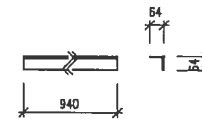
Projet : AGNICO EAGLE - MELIADINE DIVISION - FUEL DISTRIBUTION			
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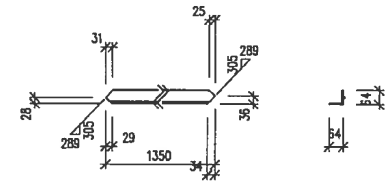
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2x **C-2** C200x21-300W

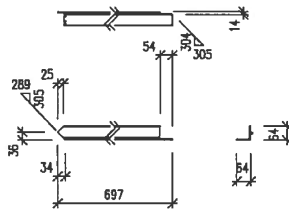


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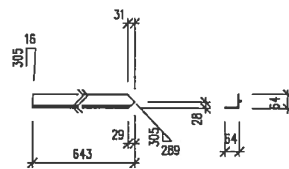


1x **L-3** L64X64X6.4-300W

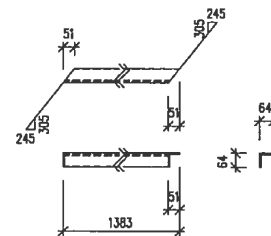
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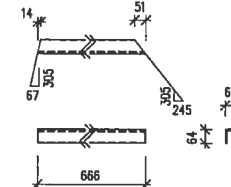
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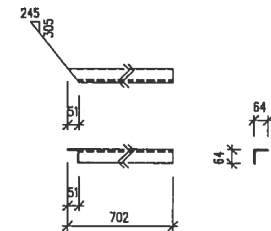
1x **L-5** L64X64X6.4-300W



2x **L-6** L64X64X6.4-300W



2x **L-7** L64X64X6.4-300W



2x **L-8** L64X64X6.4-300W

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No	Date (a-m-j)	Description	Par

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Régina-Normande, QC S4B 2A3
CANADA
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Titre : PIPE CATWALK STRUCTURAL STAIR DETAILS			
Approuvé par : JONATHAN FAUCHER ing.	Dessiné par : MARIO CLICHE ing.	Date : 2017-05-15	Page: 4 de 5
Dossier : 999-00048075-PP	Numéro de dessin : NMOI - 00048075 - AO - S02 - AA		