

LCN 4040 SERIES

TABLE OF SIZES

4041 cylinder is adjustable from size 1 through size 6 and is shipped set to size 3.

Closing power of 4040 series closers may be adjusted 50%.

→ Indicates recommended range of door width for closer size.

EXTERIOR (and VESTIBULE) DOOR WIDTH

	24"	30"	36"	42"	48"
	610mm	762mm	914mm	1067mm	1219mm
*4041	size 3	size 4	size 5	size 6	
Minimum Door Width					

INTERIOR DOOR WIDTH

	24"	34"	38"	48"	54"	60"
	610mm	864mm	965mm	1219mm	1372mm	1524mm
*4041	size 2	size 3	size 4	size 5	size 6	
Minimum Door Width						

* Adjustable Size 1 thru 6

REDUCED OPENING FORCE 4040 CLOSERS

CAUTION ! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to POWER OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

	DOOR WIDTH	36"	42"	48"
	8.5* lbs.	4041	4041	4041
	5.0* lbs.	4041	4041	4041

* Maximum opening force

HOW-TO-ORDER 4040 SERIES CLOSERS

1. SELECT FINISH.

- ☐ Standard Powder Coat _____
Aluminum, Dark Bronze, Tan, Statuary, Light Bronze, Black, Brass.

Closer will be shipped with:

- STANDARD COVER,
 - REGULAR ARM,
 - SELF-REAMING and TAPPING SCREWS,
- unless options listed below are selected.

CLOSER OPTIONS

CYLINDER

- ☐ Delayed Action (DEL)

COVER

- ☐ Lead Lined (LL)
☐ Metal (specify right or left hand) (MC)
☐ Designer Series Metal (non-handed) (DS1)

FINISH

- ☐ Custom Powder Coat (RAL) _____
(handed metal cover required)
☐ Plated Finish, US _____
(handed metal cover required)
☐ SRI primer

ARM

- ☐ Regular w/62PA (Rw/PA)
☐ Regular w/62A (R/62A)
☐ Long (LONG)
☐ Extra Long (XLONG)
☐ Hold-Open (H)
☐ Hold-Open w/62PA (Hw/PA)
☐ Long Hold-Open (HLONG)
☐ EDA (optional -62G or -145)
☐ HEDA (specify right or left hand, optional-62G or -145)
☐ Cush-N-Stop (CUSH)
☐ HCush-N-Stop (HCUSH)
☒ Spring Cush (SCUSH)
☐ Spring HCush (SHCUSH)

OPTIONAL SCREW PACKS

- ☐ TB* w/Self-Reaming and Tapping (TBSRT)
☐ Wood & Machine Screw (WMS)
☐ TB*, Wood & Machine Screw (TBWMS)
☐ TORX Machine Screw (TORX)
☐ TB* & TORX Machine Screw (TBTRX)

* Specify door thickness if other than 1 3/4".

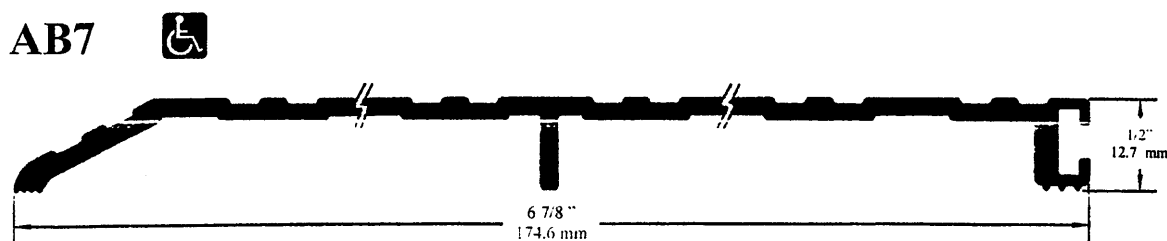
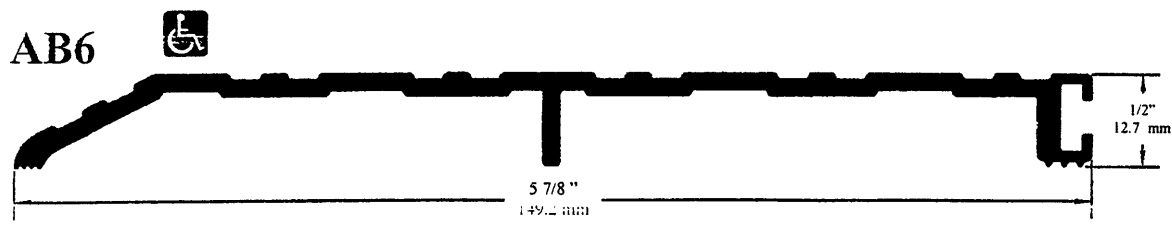
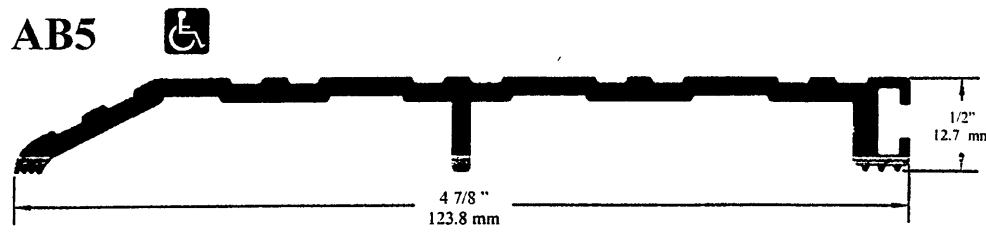
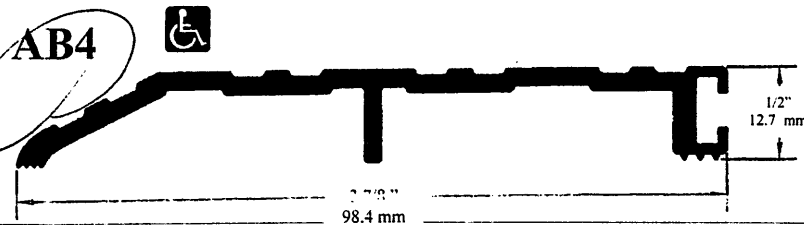
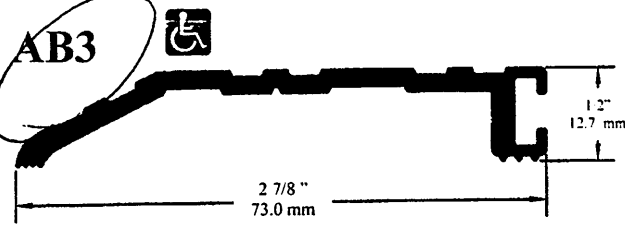
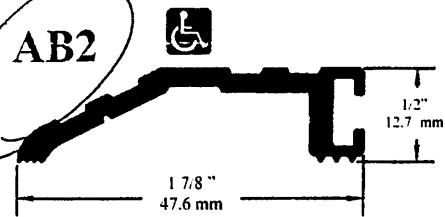
INSTALLATION ACCESSORIES

- ☐ Plate, 4040-18
☐ Plate, 4040-18TJ
☐ Plate, 4040-18G
☐ Plate, 4040-18PA
☐ Plate, 4040-18DS1
☐ Plate, 4040-18TJDS1
☐ Plate, 4040-18PADS1
☐ CUSH Shoe Support, 4040-30
☐ Blade Stop Spacer, 4040-61
☐ Auxiliary Shoe, 4040-62A
☐ Soffit Shoe, 4040-65
☐ PA Shoe Adapter, 4040-418
☐ CUSH Flush Panel Adapter, 4040-419

SPECIAL TEMPLATE

- ☐ ST- _____

Combination aluminum thresholds - Series AB

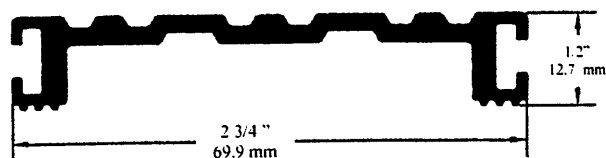


Extruded aluminum alloy 6063T5

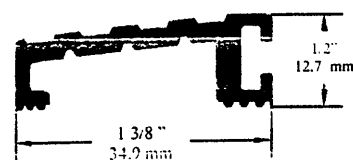
Scale 1" (25.4 mm) = 1" (25.4 mm)

Combination aluminum thresholds - Series AB

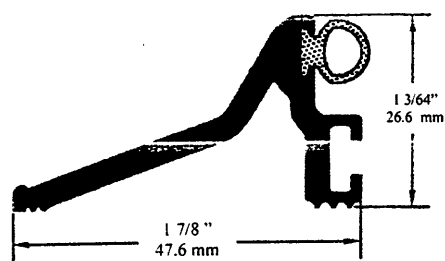
AB33



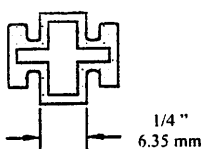
AB11



AB12



ABBT

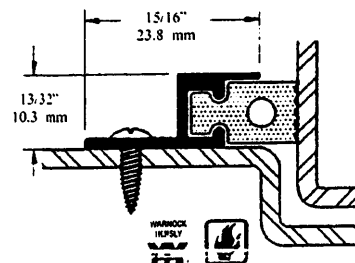


Extruded Aluminum alloy 6063T5

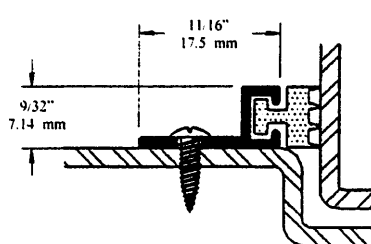
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Weatherstrip and/or soundproofing

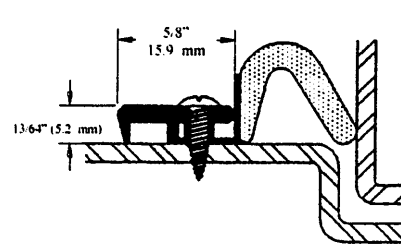
1650 AN-MB-MF



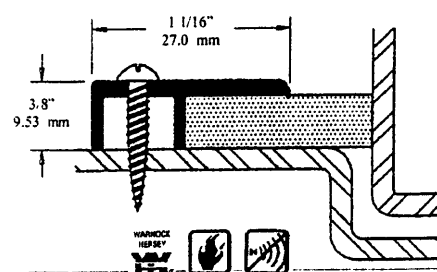
1600 AN-MF



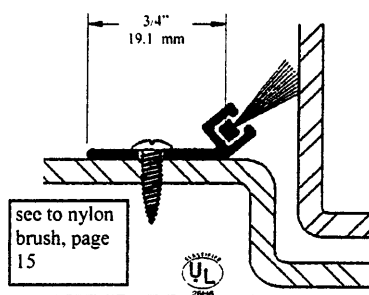
CF9 AN-MB



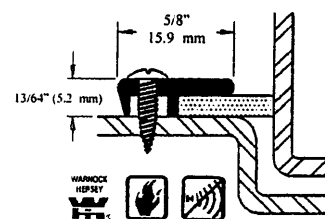
2000 AN-MB



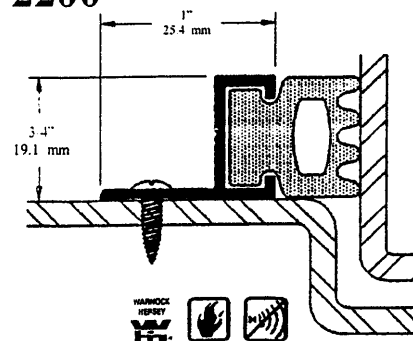
J140 AN-MB



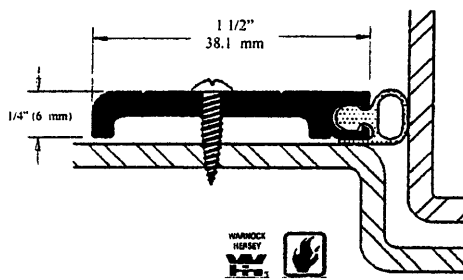
1900 AN-MB



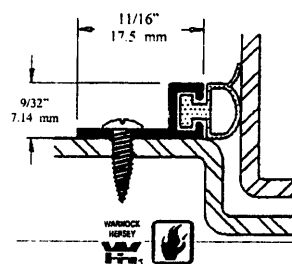
2200 AN-MB



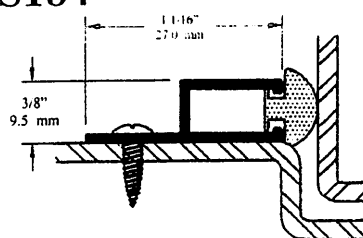
17V AN-MB



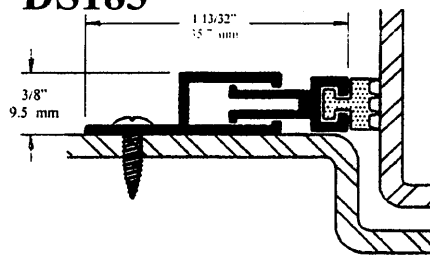
DS1 AN-MF



DS184 BL-BR-MF



DS183 BL-BR-MF



AN = Clair anodized
MB = Medium bronze
MF = Mill finish
BL = White paint
BR = Dark brown paint

Scale 1" (25.4 mm) = 1" (25.4 mm)

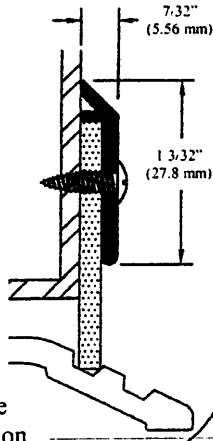
Unique Sash Balance Ltd

8301, Marconi, Anjou, Qc, H1J 2W4

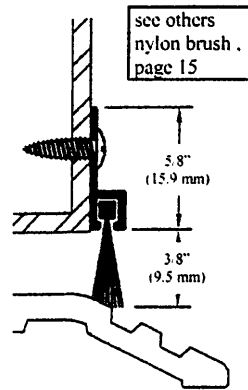
Tel: (514) 493-1353 Fax: (514) 493-0571 1-800-663-1353

Door sweeps

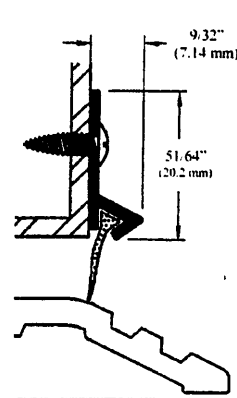
2100 AN-MB



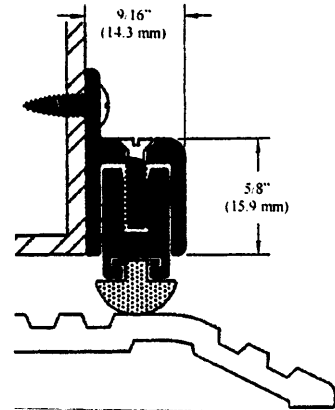
A180 AN-MB



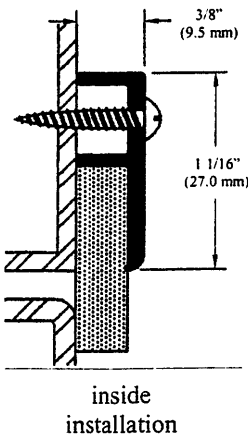
DS2 MF



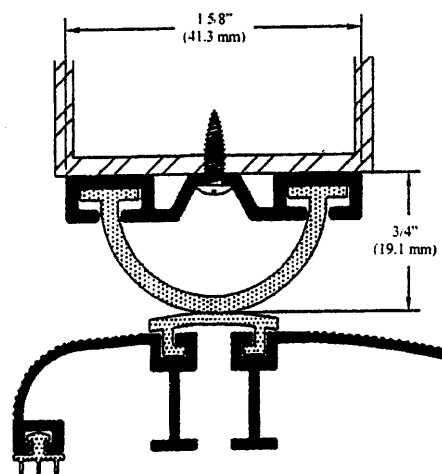
1800V AN-MB



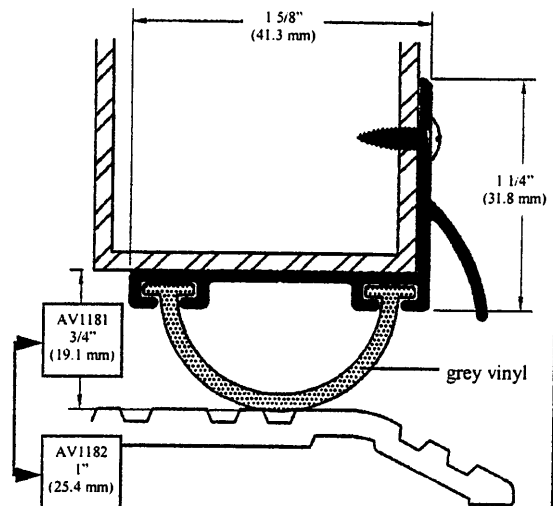
2000 AN-MB



AV175 MF

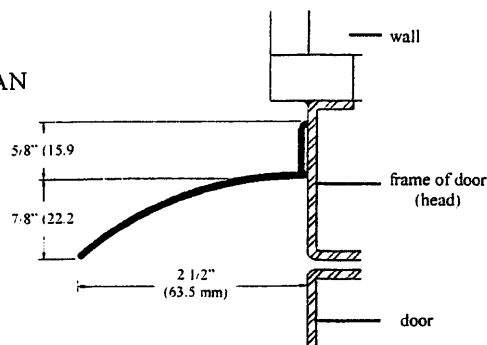


AV1181 - AV1182 MF

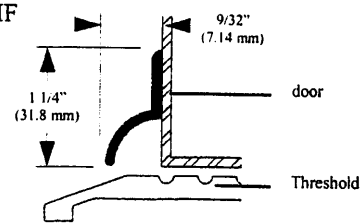


Water drip

AW2 AN



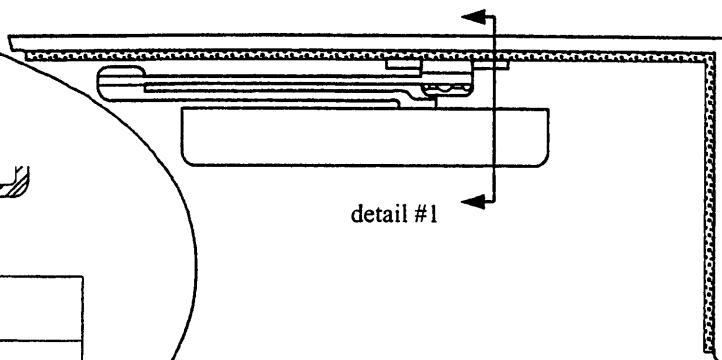
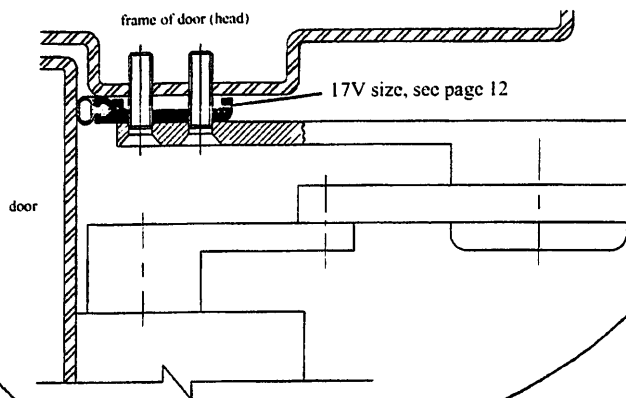
AW1 MF



Scale 1" (25.4 mm) = 1" (25.4mm)

Gasketing for overhead door closers

17V detail #1



When installing the 17V on the frame head. It should be in a single piece (do not cut in two pieces to let the door closer arm go through). The door closer should be anchored under the 17V.

WARNOCK HERSEY CLASSIFIED FIRE DOOR GASKETING

Automatic door bottoms

50K	_____	20 min.
50A and 50SHD	_____	90 min.
320V and 50MHD	_____	3 hours

Astragals

100A and #14	_____	90 min.
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Gasketing

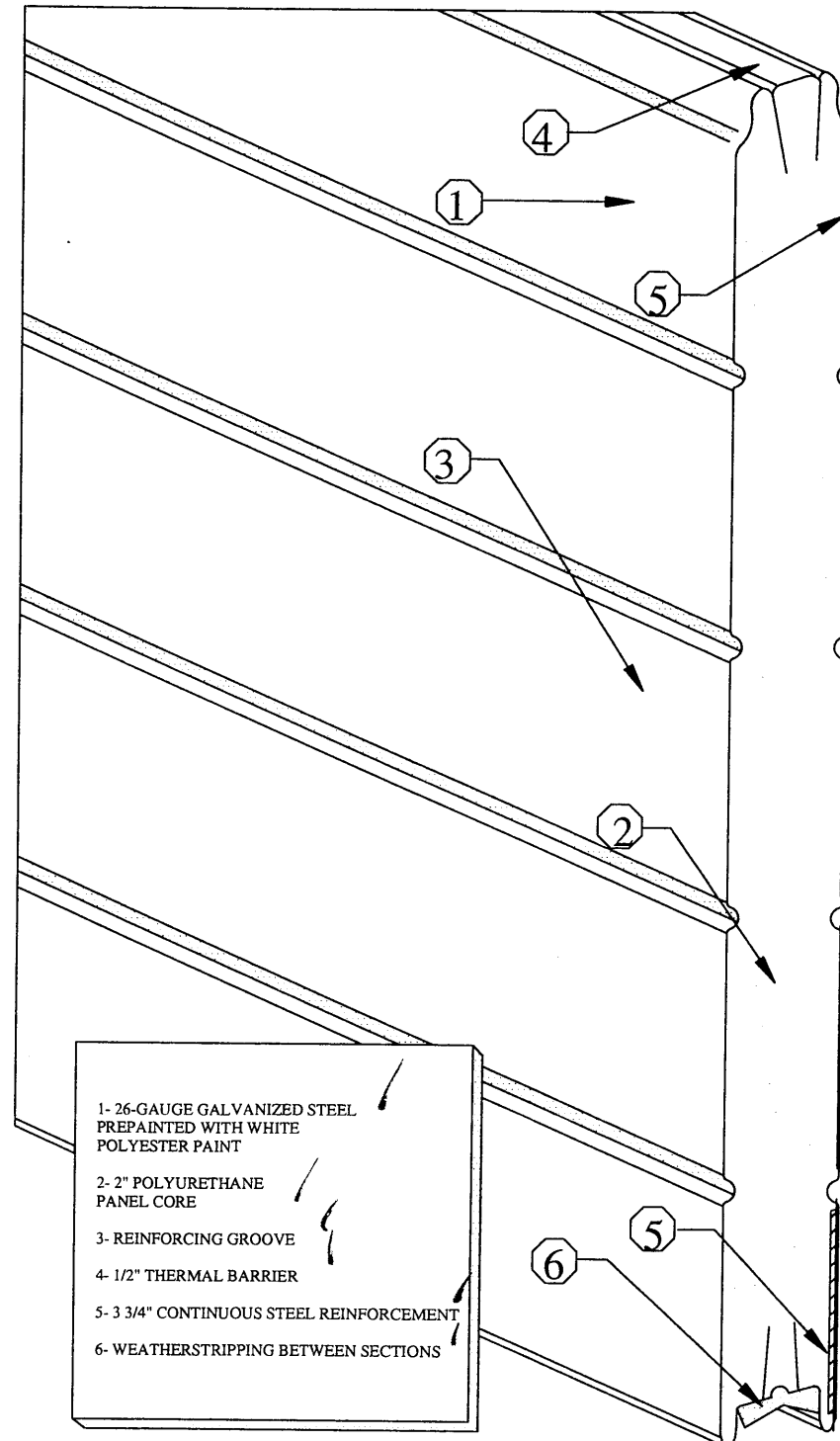
2200, 1900, 1800, 1700, 2000 and 2100	_____	90 min.
1650, 1500N, 1500P, 1500V and 17V	_____	3 hours

Thresholds

AD7 and ATP5	_____	3 hours
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Smoke seal

CF-10	_____	3 hours
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BarilMax 200

PRODUCT DESCRIPTION

THESE DOORS CAN COVER BAYS UP TO 32 FEET WIDE WITHOUT USING POSTS FOR THE CENTRE AXIS AND CAN THEREFORE ALSO BE USED FOR LARGE PORTALS. TYPICAL BUT NON-EXHAUSTIVE EXAMPLES OF APPLICATIONS FOR THESE DOORS INCLUDE: HEATED OR AIR-CONDITIONED FACILITIES, HEATED WAREHOUSES, COMMERCIAL BUILDINGS, TRUCK TERMINALS, EDUCATIONAL FACILITIES, AIR TERMINAL AND THEIR ANNEXES, AS WELL AS FARM BUILDINGS.

MATERIALS AND COMPONENTS:

ALL OUR DOORS ARE MADE OF SANDWICH PANELS WITH A GALVANIZED COVERING AND A POLYURETHANE CORE. INDIVIDUAL HEIGHTS ARE 21 INCHES AND 24 INCHES. THESE PANELS ARE AVAILABLE IN A WIDE RANGE OF LENGTHS.

A TYPICAL CROSS SECTION OF THESE DOORS REVEALS 2-INCH THICK POLYURETHANE FOAM (ISOCYANATE) WITH A DENSITY OF 2.6 LB/CU. FT., LAMINATED ONTO INTERIOR AND EXTERIOR STEEL COVERINGS BY MEANS OF A CONTINUOUS MANUFACTURING PROCESS.

- 1. GALVANIZED SHEET STEEL: G-90 GALVANIZING, GRADE A COMMERCIAL QUALITY.
- 2. FINISH: POLYESTER BASED COATING, 1 MIL THICK, APPLIED ON THE EXTERIOR AND HIDDEN SURFACE OF THE STEEL.
- 3. FLAME RETARDANT, LAMINATED URETHANE THERMAL INSULATION MEETING THE MVSS-02 STANDARD, APPLIED ONTO THE INTERIOR AND EXTERIOR STEEL COVERINGS BY MEANS OF A CONTINUOUS MANUFACTURING PROCESS, WITH A THICKNESS OF 50.8 MM (2") AND AN R-VALUE FACTOR OF 8.33 PER INCH OF INSULATION.
- 4. TOTAL DOOR THICKNESS OF 50.8 MM (2").
- 5. INTERIOR AND EXTERIOR COVERINGS: MINIMUM 26-GAUGE GALVANIZED STRUCTURAL STEEL. EACH SECTION HAS FOUR V-GROOVES.
- 6. HORIZONTAL JOINTS: U-SHAPED WITH A URETHANE INSULATED THERMAL BARRIER AT LEAST 16 MM (5/8") THICK.
- 7. SECTION ENDS: GALVANIZED 20-GAUGE STEEL CAP AT THE END OF EACH PANEL.
- 8. 3 3/4" HIGH, CONTINUOUS 20-GAUGE STEEL REINFORCEMENT AT THE TOP AND BOTTOM OF EACH SECTION, RUNNING ALONG THE ENTIRE WIDTH OF THE PANELS TO FACILITATE THE INSTALLATION OF HINGES.
- 9. FINISH: STANDARD WHITE, BAKED EPOXY IMITATION STUCCO INTERIOR AND EXTERIOR FINISH.

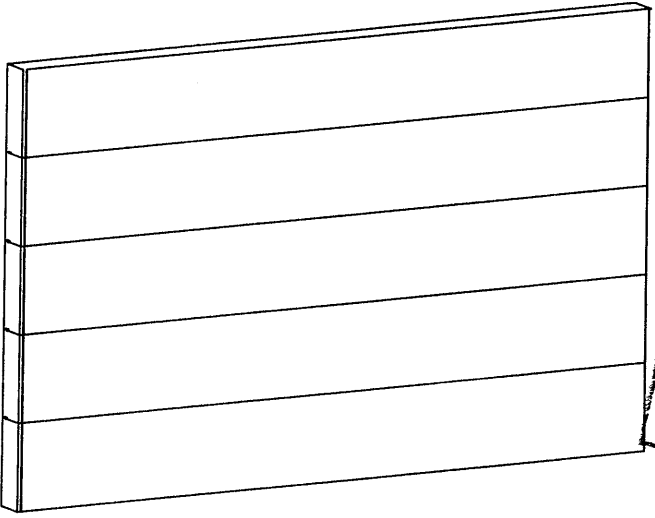
MANUFACTURING PROCESS

POLYURETHANE IS WIDELY RECOGNIZED AS AN EFFICIENT INSULATING MATERIAL AND KNOWN TO BE EXCEPTIONALLY RESISTANT.

ONLY A MANUFACTURING PROCESS INVOLVING THE CAREFULLY CONTROLLED, CONTINUOUS APPLICATION OF FOAM CAN ENSURE THAT THE FOAM WILL ADHERE PERMANENTLY TO THE METAL COVERINGS. NO OTHER PROCESS CAN PRODUCE A BETTER QUALITY AND MORE UNIFORM HOMOGENOUS PANEL, FREE OF VOIDS AND AIR POCKETS. OVER TIME, AIR POCKETS CAN DRAMATICALLY REDUCE THE RESISTANCE AND INSULATING PROPERTIES OF DOOR PANELS.

A RIGOROUS QUALITY CONTROL CHECK IS MADE AT EACH STAGE OF THE PROCESS TO ENSURE CONSISTENCY IN TERMS OF PANEL THICKNESS AND FOAM DENSITY.

STEEL DOOR PROFILE



KUDLIK CONSTRUCTION LTD
P.O. BOX 727, 1519 FEDERAL ROAD
IGLOO, NUNAVUT X0A 0H0
PHONE: (867) 973-1136
FAX: (867) 973-1135
08/07/2005

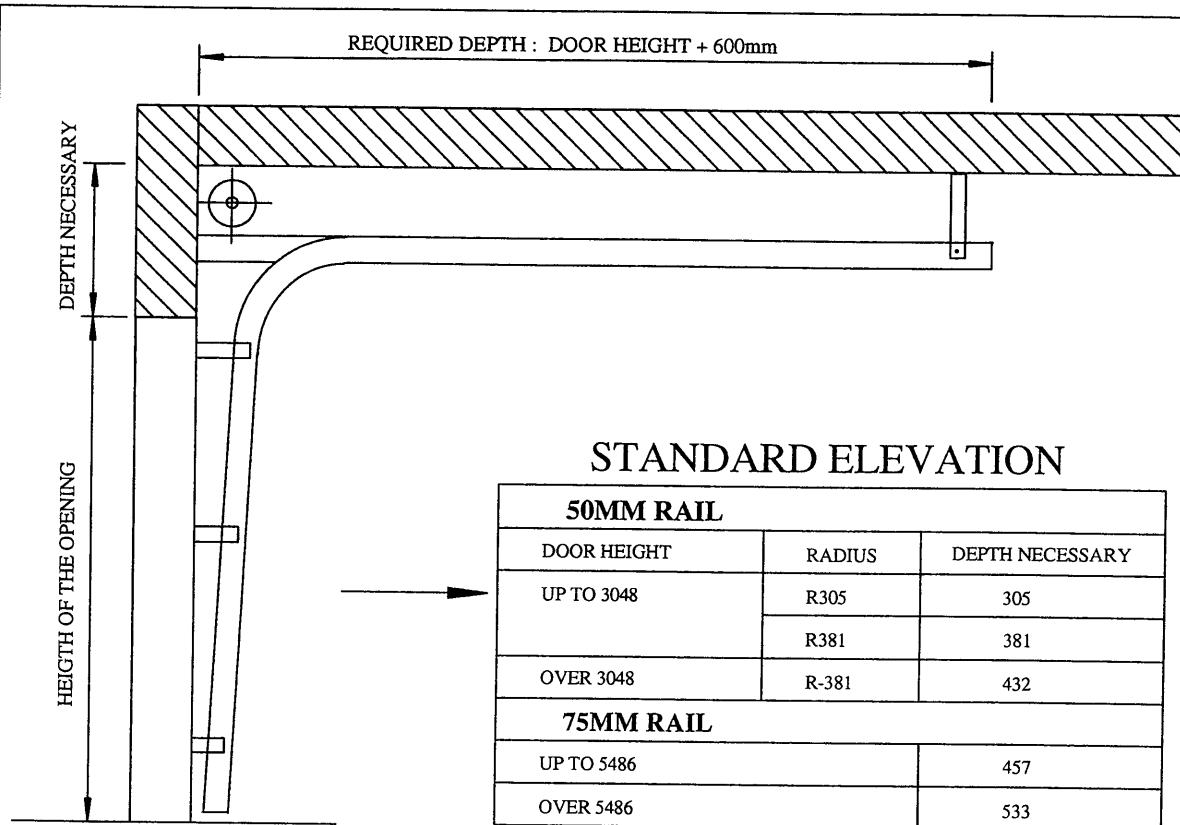
REVIEWED ☒
REVIEWED AS NOTED ☐
RESUBMIT ☐
DATE 14 Jul 05
SIGNATURE [Signature]

Number	Qty	DIMENSIONS		Number of sections	Number of windows sections	Number of windows by sections	Windows			Material covering	Finish	Color		Notes:
		Width	Height				TYPE	Width	Height			INTERIOR	EXTERIOR	
#101A	1	3000	2300	4	0					STEEL	Stucco	WHITE / WHITE		
#205	1	3000	2700	5	0					STEEL	Stucco	WHITE / WHITE		

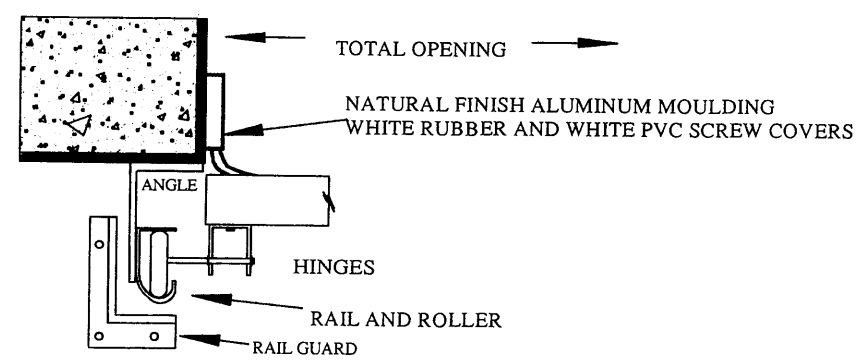
Baril
Portes de garage

500 Boul De La Bonaventure, Victoriaville, Qc.
Tel.: 819-758-7538 Fax.: 819-758-1892 G6T 2E9

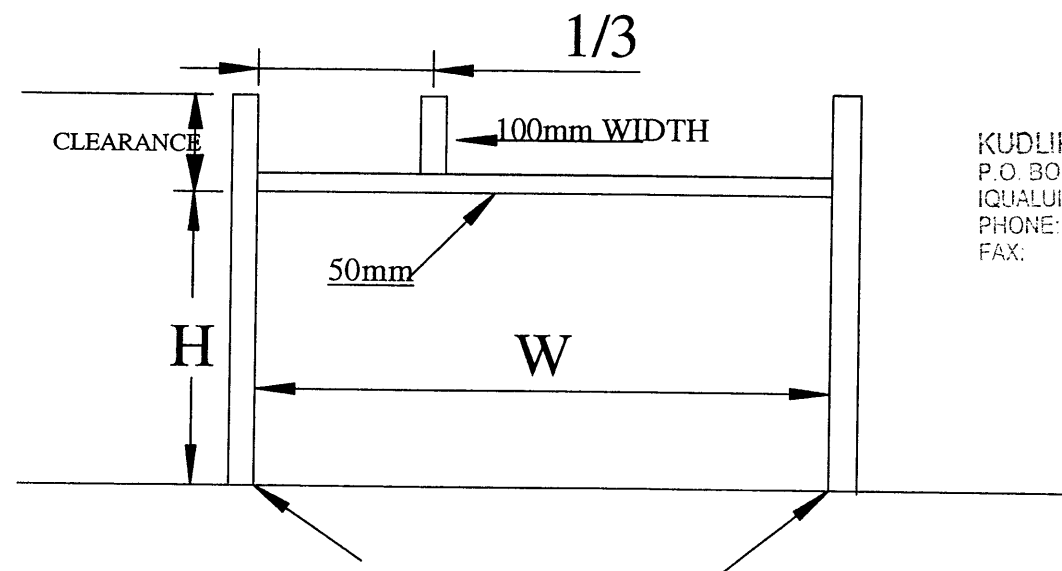
JOB SITE: WWTP Phase 1 Iqaluit
ARCHITECT:
CONTRATOR: Kudlik Construction Ltd
DEALER: Baril Portes de garage inc.
CHECK BY: Stéphane Provencher
DATE: 7 Juillet 2006 DRAWING #: SV-040706-A



TYPE OF MOVEMENT: VERTICAL LIFTING
 TYPE OF TRACKS: 902-T
 STEEL THICKNESS: 14-GAUGE
 TRACK SIZE: 50mm
 WEATHERSTRIPPING EDGING: MODEL RW-25
 CONTINUOUS ANGLE TO HOLD DOWN TRACKS



DOOR#	QTY	WIDTH	HEIGHT	CLEARANCE	TRAC	SPRING TYPE
#101A	1	3000	2300	256	50	Torsion
#205	1	3000	2700	256	50	Torsion



SUPPORTS REQUIRED FOR TORSION SPRINGS
 FRAME FOR DOORS SMALLER THAN 3658mm
 INSIDE VIEW

1. Frames, frame extensions, and anchor plates must be supplied and correctly installed by the contractor who must make sure they are plumb and at a 90o angle. All interior sides must be flush one against the other.
2. All clearances shown must be free of obstructions.
3. Steel frames can be made from U-beams for angles or from a flat iron angle assembly. The interior side of the jambs must be at least 77mm wide to accommodate the vertical tracks as well as the balancing system.

KUDLIK CONSTRUCTION LTD
 P.O. BOX 727, 1519 FEDERAL ROAD
 IQUALUIT, NUNAVUT X0A 0H0
 PHONE: (867) 979-1166
 FAX: (867) 979-1169

☒ REVIEWED
☐ REVIEWED AS NOTED
☐ RESUBMIT
 DATE 14 Jul 05

Baril
 Portes de garage
 500 Boul De La Bonaventure, Victoriaville, Qc.
 Tél.: 819-758-7538 Fax.: 819-758-1892 G6T 2E9

JOB SITE: WWTP Phase 1 Iqaluit
 ARCHITECT:
 CONTRATOR: Kudlik Construction Ltd
 DEALER: Baril Portes de garage inc.
 CHECK BY: Stéphane Provencher
 DATE: 7 Juillet 2006 DRAWING #: SV-040706-B

ENGLISH

MARMOLEUM APPLICATIONS

Lobbies, Hallways/Corridors, Conference rooms, Public areas, Storage rooms, Lunchrooms, Cafeterias, Dining Rooms, Classrooms, Dormitory or hallways, Jails/Prisons, Patient rooms, Pharmacies, Physical therapy rooms, Utility rooms, Stages, Dance floors, Military barracks and housing, Boutiques, Specialty shops, Sales floors or Show rooms, Waiting areas and Tabletops.

TECHNICAL DATA

Specifications
Meets or exceeds requirements for ASTM F2034 for Linoleum Sheet flooring.
Meets or exceeds National Building Code of Canada 1980 - Section 9.31.5
Meets or exceeds National Defense Canada - Schedule 010000-09666-01

Static Load Limit
450 Pounds per square inch. ASTM F-970.

Slip Resistance
Meets or exceeds A.D.A. recommendations of .6 for flat surfaces.

Flexibility
Will not crack or break when bent around a 1.4" (35 mm) diameter cylinder.

Fire Resistance
ASTM E-662/NFPA 258 (Smoke Density) - 450 or less
ASTM E-648/NFPA 253 (Critical Radiant Flux) - Class 1
F.M.V.S.S.-302 - Meets or exceeds.
CAN/ULC - S 102.2 - M88 Flame Spread Rating and Smoke.

Resistance to Bacteria
Marmoleum provides a self-sanitizing quality in the form of a bactericidal effect. Tests indicate that Marmoleum has a sterile zone around the material, inhibiting contaminants such as staphylococcus aureus.

Castor Resistance
During 25,000 cycles of 3 wheels loaded with 66 lbs. No damage.

Impact Sound Reduction: 6dB.

CONSTRUCTION

Marmoleum homogenous floor coverings shall be made of natural materials consisting of linseed oil, wood flour, rosin binders, dry pigments, mixed and calendared onto a natural jute backing.

PHYSICAL CHARACTERISTICS

Dimensions are approximate)
..... 79 inches (2 Meters)
..... 105 linear feet (32 Meters)
Gauge..... 1/10" (2.5 mm)
Backing..... Jute
Roll size..... 77 square yards (64 square meters)

TECHNICAL SERVICES

For detailed Product Specifications, Installation Specifications, Cleaning and Initial Maintenance Instructions, and warranty information, contact Forbo Linoleum Support Services at 1-800-842-7839.

Homogeneous Linoleum

In accordance with European standards (EN 548 and EN 670) Marmoleum is manufactured on the basis of a homogeneous mixture of raw materials. This mixture is applied to the jute carrier in two layers.

- The advantages are:
- The first layer smooths the jute carrier and prevents the natural yarn causing irregularities in the top layer of the floor covering, thus ensuring a smooth surface.
 - Thus produced, the end product is a more compact floor covering with measurably enhanced indentation resistance, and increased performance when subjected to mechanical loads (e.g. castor resistance test).

Drying room yellowing

During the last phase of the production process a yellowish film, the "drying room yellowing", may appear on the floor covering. This phenomenon is more visible on the lighter shades but, when exposed to light, it disappears quickly.

COLOR # 3855.

Forbo Linoleum
P.O. Box 667
2 Maplewood Drive
Humboldt Industrial Park
Hazleton, PA 18201

Telephone: 1-800-842-7839

570-459-0771

Fax: 570-450-0258

E-mail: info@FL-NA.com

www.forboLinoleumNA.com

ESPAÑOL

MARMOLEUM APLICACIONES

Lobbies, Pasillos/Corredores, Salas de Conferencias, Areas Publicas, Areas de almacenaje, Cafeterias, Comedores, Salones de Clases, Dormitorios o pasillos, Carceles/Prisiones, Cuartos de Pacientes, Farmacias, Cuartos de Terapias Fisicas, Cuartos de utileria, Escenarios, Pisos de Baile, Cuartel Militar y casas, Boutiques, Tiendas Especiales, Areas de Exhibicion, Salas de Espera y cubiertas de mesas.

INFORMACION TECNICA

Especificaciones
Iguala o excede los requisitos para ASTM F2034 para piso de Linoleum en Rollo.
Iguala o excede los codigos de la National Building de Canada 1980 - Sección 9.13.5
Iguala o excede la escala de la Defensa Nacional de Canada 010000-09666-01

Capacidad De Carga Estatica
450 libras por pulgada cuadrada. ASTM F-970.

Resistencia A Derrapes
Iguala o excede recomendaciones de A.D.A. de .6 para superficies planas.

Flexibilidad
No se rompe o quiebra cuando es doblado sobre un cilindro de 1.4" (35 mm) de diametro.

Resistencia Al Fuego
ASTM E-662/NFPA 258 (Densidad de Humo) - 450 o menos
ASTM E-648/NFPA 253 (Critico Radiante de Flujo) - Clase 1
F.M.V.S.S.-302 - Iguala o Excede
CAN/ULC - S 102.2-M88 Clasificacion Extendida de Flama y Humo

Resistencia A Bacterias
Marmoleum provee una cualidad auto-sanitaria que es de efecto bactericida. Las pruebas indican que el Marmoleum tiene una zona esteril en el material, inhibiendo contaminantes como el staphylococcus aureus.

Resistencia A Ruedas
Durante 25,000 ciclos de 3 ruedas rodando con 66 libras. Ningun Dano.

Reduccion De Sonido Al Impacto: 6 Decibeles

CONSTRUCCION

Marmoleum es un piso homogeneo hecho de materias primas naturales como aceite de linaza, corteza de arbol, resinas, pigmentos secos, mezclados y compactados en una base de yute.

CARACTERISTICAS FISICAS

(las dimensiones son aproximadas)
Ancho..... 79 pulgadas (2 metros)
Largo..... 105 pies lineales (32 metros)
Espesor..... 1/10" (2.5mm)
Base..... Yute
Medida del Rollo..... 77 yardas cuadradas (64 metros cuadrados)

SERVICIO TECNICO

Para detalles de Especificaciones del Producto, Especificaciones de Instalacion, Limpieza e Instrucciones de Mantenimiento Inicial, e informacion de garantia, contactar a Servicios de Soporte al Cliente al 1-800-842-7839.

Linoleum Homogeneo

De acuerdo con los estándares Europeos (EN548 y EN670) Marmoleum es manufacturado a base de una mezcla homogenea de materias primas. Esta mezcla es aplicada al yute en dos capas.

Las Ventajas son:

- La primera alisa al yute y previene que el hilado natural del yute cause irregularidades en la superficie del piso, asegurando así una superficie lisa.
- Producido así, el producto final es una cubierta de piso mas compacta con una resistencia medible, e incrementa el desempeño cuando esta sujeto a cargas mecánicas (Ej. Prueba de resistencia al desgaste, castor)

Efecto amarillento del cuarto de secado.

Durante la última fase del proceso de producción aparece una capa de color amarillento, "el efecto amarillento del cuarto de secado", puede aparecer en el piso. Este fenómeno es más visible a la sombra pero, cuando se expone a la luz, desaparece rápidamente.

FRANCAIS

UTILISATIONS DU MARMOLÉUM

Entrées, couloirs/corridors, salles de conférence, endroits pour espaces d'entreposage, coins-repas, cafétérias, salles à manger de classe, dortoirs ou couloirs, cellules/prisons, chambres de pharmacies, salles de physiothérapie, salles de rangement, planchers de danse, casernes et logements militaires, boutique surfaces de ventes ou salles d'exposition, magasins spécialisés d'attente et dessus de table.

INFORMATIONS TECHNIQUES

Caractéristiques
Rencontre ou excede des conditions pour ASTM F 2034 pour revêtement de sol en linoléum
Rencontre ou excede les normes du Code du Bâtiment du Canada 1980-Section 9.31.5
Rencontre ou excede les normes du Programme 010000-09666-01 Ministère de la défense nationale du Canada

Limite de charge statique
450 livres par pouce carré (180 kg/2,5cm) ASTM F-970

Résistance au glissement
Rencontre ou excede les recommandations de l'A.D.A. de .6 sur surfaces plates.

Flexibilité
Ne craque pas et ne se brise pas lorsqu' enroulé autour d'un cylindre d'un diamètre de 1,4" (35mm).

Résistance au feu
ASTM E-662/NFPA 258 (densité de la fumée)-450 ou moins
ASTM E-648/NFPA 253 (Fluctuation radiante critique) - catégo F.M.V.S.S.-302 - Rencontre ou excede.
CAN/ULC - S 102.2-M88 Vitesse de propagation de la flamme ou

Résistance aux bactéries
Le Marmoleum possède des propriétés auto-désinfectantes d'effet bactéricide. Les tests démontrent que le Marmoleum zone aseptisée en freinant les contaminants tels que les Staphylococcus aureus.

Résistance aux roulettes
Pendant 25,000 cycles de 3 roues portant 66lbs. Aucune ma-

Affaiblissement acoustique: 6dB

COMPOSITION

Le revêtement de plancher homogène Marmoleum est fait de matériaux naturels comme l'huile de lin, la farine de bois, des agglomérés résine et des pigments secs mélangés et pressés sur une base

CARACTÉRISTIQUES PHYSIQUES

(les dimensions sont approximatives)
Largeur..... 79 pouces
Longueur..... 105 pieds linéaires
Calibre..... 1/10"
Base..... Yute
Dimensions du rouleau..... 77 verges carrées (64 mètres carrés)

SERVICES TECHNIQUES

Pour plus de détails sur les caractéristiques, l'installation, le nettoyage et les instructions d'entretien initial du produit, ainsi que sur les services de soutien, contactez les Services de soutien de Linoléum Forbo au 1-800-842-7839.

Linoléum homogène

En conformité avec les normes européennes (EN 548 et EN 670) L'Marmoleum sont manufacturés à base d'un mélange de matières premières naturelles. Ce mélange est ensuite appliqué en deux couches et sur une base de jute. Les avantages de ce procédé sont les suivants:

- La première couche égalise la base de jute et empêche la fibre naturelle d'apparaître dans la couche supérieure du revêtement assurant ainsi une surface lisse.
- Suivant ce procédé, le produit final est un revêtement compact qui offre une résistance beaucoup plus grande aux empreintes et une performance accrue lorsque soumis à des charges mécaniques (par ex.: test de résistance aux roulettes).

Pellicule de séchage

Durant la dernière phase du procédé de production, une pellicule jaunâtre, appelée pellicule de séchage peut apparaître sur la surface de sol. Ce phénomène est plus visible sur les teintes plus claires et disparaît rapidement lorsque le produit est exposé à la lumière.

☒ REVIEWED

☐ REVIEWED AS NOTED

☒ RESUBMIT

KUDLIK CONSTRUCTION LTD.
P.O. BOX 727, 1519 FEDERAL ROAD
IGLOO, NUNAVUT X0A 0H0
PHONE: (867) 979-1166
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31/08/2005 6 Sept 05

creating better environments





LINOLEUM

ADHESIVE FORBO 414 LINOTACK®

PRODUCT ADVANTAGES

- Low percentage of solvents
- Non-flammable
- Easy and safe to apply
- Good moisture resistance
- High initial tack
- Favourable spreading
- Roller-caster chair resistant

APPLICATION

- For installing:
- Linoleum in sheets and tiles.

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TECHNICAL FACTS

- | | |
|---------------------|---|
| • Basis | Acrylic dispersion |
| • Colour | Beige |
| • Consistency | Thick liquid |
| • Density | 1.3kg/ltr |
| • Tools | Toothed spreader (Richards #15) |
| • Consumption | 400-450 g/ m ² |
| • Minimum open time | 0-5 minutes * |
| • Maximum open time | 15-20 minutes * |
| • Drying time | Approx. 24 hours * |
| • Storage | Store free from frost. Protect from high temperatures |
| • Shelf life | 12 months in unopened bucket |
| • Danger class | None |
| • Safety Data Sheet | Available upon request |

**The times mentioned have been determined in our laboratory and must be considered as guide-lines in view of the wide variety of compositions climatic circumstances and subfloor*

SUBFLOOR

- Forbo 414 LINOTACK is suitable for any type of subfloor that is smooth, clean, permanently dry and sound, according to the requirements of BS 3203 or DIN 18 365.
- If in doubt about the application please consult Forbo Technical Services

DIRECTION FOR USE

- Apply the adhesive with a regular toothed spreader (Richards #15)
- On porous subfloor the linoleum may be placed immediately into the wet adhesive.
- Subfloors of low porosity a waiting time of approx. 10 minutes is applicable.
- Roll the linoleum well. Sheet ends and seams are to be pressed firmly.
- On subfloor of low porosity rolling and pressing with 150 lbs roller is to be repeated after approx. 15 minutes (depending on temperature and relative humidity of the air).
- Remove any spilled adhesive immediately with water.

UNDERFLOOR HEATING

Forbo 414 LINOTACK can be applied over the underfloor heating systems. Turn off heater 24 hours before application. Do not heat again until at least 24 hours after installation and in steps of 5°C per day.

PACKAGING

Available in 15 litres. Buckets

All directions for use are based on careful tests carried out in the laboratory and in actual practice. However, we cannot take responsibility for executed work and therefore we advise that site tests be conducted prior to installation of linoleum.

FORBO LINOLEUM INC.

8296 Pascal Gagnon, Montréal Québec, H1P 1Y4, TEL +514-990-9700, FAX +514-327-8589, COURIEL / EMAIL: info@fl-NA.com



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PRP 110



PLANI/PATCH

Fast-Setting, Cement Based Patching Compound

DESCRIPTION

A fast-setting, latex-modified, cement based patching compound which, when mixed only with water, is used for fully cured concrete and exterior grade underlayment qualities prior to the installation of a floor covering. Floor covering can be installed in just 1 1/2 hours after application with no additional underlayment necessary.

USES

1. For interior use only.
2. For patching and filling cracks, holes, voids, and depressions in concrete and exterior grade underlayment prior to the installation of carpet, resilient flooring, wood parquet floors, ceramic tiles, slate, marble, granite, and stone veneer floors.
3. For repairing subfloors from featheredge to 1/2" (12 mm) thicknesses. If needed, PLANI/PATCH can be applied in two layers to exceed thicknesses greater than 1/2" (12 mm).
4. Offers a compatible bond with all resilient or ceramic tile adhesives, dry-set mortars, epoxies, and polyurethane adhesives when these materials are subsequently used for the installation of floor covering materials.
5. For high compressive strengths. Resists wheel chair traffic when covered with floor covering.

LIMITATIONS

1. Do not apply over presswood, flake board, metal or similar type substrates. Follow the floor covering manufacturer's recommendations regarding proper underlayment qualities.
2. Do not apply directly over gypsum floor patching compounds or lightweight concrete.
3. Do not use as a concrete resurfacing material when concrete surface is to be left

exposed or unprotected.

4. Do not use for leveling large surfaces. Use ULTRA/PLAN or ULTRA/PLAN MB self-leveling underlayments. (See data sheet for details.)
5. Do not use at temperatures below 40°F (4°C) or above 95°F (35°C).

RECOMMENDED SUBSTRATES

- Fully cured concrete (at least 28 days old)
- Exterior grade plywood, Group 1 CC type or similar performing underlayment qualities

SETTING INSTRUCTIONS

1. Surface preparation

1.1 General

1.1.1 All substrates must be structurally sound, solid, dry, clean and free from dust, oil, grease, tar, paint, wax, curing agents, sealers, release agents or any deleterious substances which may act as bond barriers.

1.1.2 Painted surfaces must be sanded and scarified completely to expose the substrate.

1.2 Concrete

1.2.1 Concrete subfloors must be at least 28 days old and completely cured.

1.2.2 Neutralize any trace of strong acid or alkali from the substrate prior to application.

1.2.3 No primer or special bond coat required.

1.3 Plywood

1.3.1 All wooden floors shall be well ventilated from below.

1.3.2 No primer or special bond coat is required.

2. Mixing

- 2.1 In a clean mixing container, pour in 4 qts. (3.7 L) water per 25 lbs. (11.3 kg) powder and 1.5 qts. (1.4 L) water per 10 lbs. (4.5 kg) powder and gradually

add the PLANI/PATCH powder while slowly mixing.

Note: If longer pot life is required, mix diluted PLANI/PATCH PLUS instead of water to PLANI/PATCH (see PLANI/PATCH data sheet).

2.2 Some settling may occur during transportation. Dry mix the entire contents of the bag prior to mixing small batches with water.

2.3 Using a low speed mixer (approx. 300 RPM) mix thoroughly to a smooth, lump-free consistency. Do not slake (let sit in container).

2.4 Avoid air entrapment and prolonged mixing which will shorten pot life.

2.5 Do not mix more material than can be finished within 8-10 minutes.

2.6 Do not slake (let sit in container). Spread paste onto the floor surface as quickly as possible after mixing.

2.7 Do not overwater.

2.8 Wash hands and tools with water immediately after mixing.

3. Application

3.1 Use a flat edge steel trowel. Finish the surface to the required smoothness.

3.2 Protect from excessive heat or drafty conditions during curing period.

3.3 Wash hands and tools with water while material is still fresh.

4. Expansion joints

4.1 Protect existing expansion and control joints. Do not fill or cover with patching compound.

Thickness Recommendations
PLANI/PATCH mixed with
PLANI/PATCH PLUS:



MAPEI 9

SURFACE PREPARATION
Fast-Setting, Cement Based Patching Compound

REFERENCES			
There are no national standards covering patching compounds for substrate preparation.			
TECHNICAL DATA			
Pot life at 72°F (22°C)	8-10 minutes		
Final set at 72°F (22°C)	Approximately 30-40 mins.		
Drying time required before installation of floor covering	60-90 minutes or once the material is completely dry.		
Bond strength (28 days) over concrete	406 psi (2.8 MPa)		
Compressive strength	6 hours	1400 psi (9 MPa)	
(ASTM C-109)	28 days	4564 psi (32 MPa)	
Shrinkage factor (28 days)	None		
Specific gravity (powder)	1.25 g/cm3		
Specific gravity (paste)	1.78 g/cm3		
pH (paste)	12		
Cleanability	With water while fresh		
PACKAGING			
4.4 lb. (2 kg) box			
10 lb. (4,5 kg) box			
25 lb. (11,3 kg) bag			
40 lb. (18,1 kg) pail			
SHELF LIFE			
12 months when stored in original container at room temperature in a dry, heated area.			
COLOR			
Gray			
HEALTH AND SAFETY			
Consult the material safety data sheet before using this product.			
APPROXIMATE COVERAGES			
	Thickness		
	1/16" (1,5mm)	1/8" (3mm)	1/4" (6mm)
10 lb. (4,5 kg)	18-22 sq. ft. (1,6 - 1,8 m²)	8-10 sq. ft. (0,8 - 0,9 m²)	4-6 sq. ft. (0,4 - 0,6 m²)
25 lb. (11,3 kg)	45-55 sq. ft. (3,7 - 4,6 m²)	20-25 sq. ft. (1,9 - 2,3 m²)	10-13 sq. ft. (0,9 - 1,2 m²)
NOTE			
Coverages shown are approximate and are given for estimating purposes only. Actual coverages may vary depending on the roughness of the substrate, method of application and use.			

Full Strength Mixture:

Up to 1/16" (1.5mm)

Diluted Mixture:

Up to 1/4" (6mm)

(3 parts water/1 part PLUS)

PLANI/PATCH mixed with water:

Up to 1/2" (13mm)

5. Protection General

- 5.1 Provide for dry heated storage on site and deliver all materials at least 24 hours before work begins.
- 5.2 Protect from traffic, dirt or dust from other trades until final installation of floor covering.
- 5.3 Do not apply any adhesive or floor covering material before PLANI/PATCH is completely dry.

- 5.4 Protect from excessive heat and drafty conditions while curing.

- 5.5 PLANI/PATCH must be covered over with a floor covering material.

NOTICE: We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was, or reasonably

should have been, discovered.

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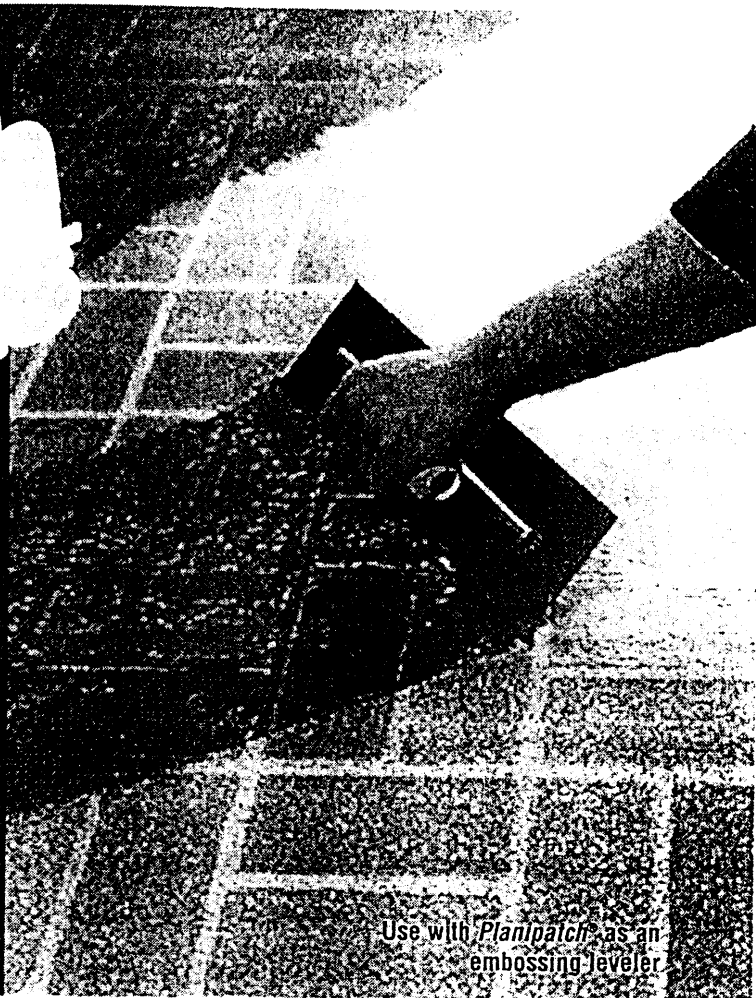
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Planipatch Plus

**High-performance additive
for Planipatch®**



DESCRIPTION

Planipatch Plus is an acrylic latex additive for use with *Planipatch*.

USES

When *Planipatch* is mixed with *Planipatch Plus*, the *Planipatch Plus* System can be used as an embossing leveler or as a patch over properly prepared vinyl sheet goods, vinyl composition tile (VCT), cement terrazzo and residual cutback adhesive surfaces prior to the direct glue-down installation of floor coverings. Mix diluted *Planipatch Plus* (1 part additive to 3 parts water) with *Planipatch* for use in thin applications over porous and dry concrete.

RECOMMENDED SUBSTRATES

Full-strength *Planipatch Plus* mixed with *Planipatch*

- Properly prepared VCT, vinyl asbestos tile (VAT) and noncushioned sheet goods (vinyl or urethane wear layers) – see Section 5.1
- Properly prepared cement terrazzo
- Residual cutback adhesive – see Section 5.2
- Ceramic tile – see Section 5.3

Diluted *Planipatch Plus* (1 part of *Planipatch Plus* mixed with 3 parts of water) mixed with *Planipatch*

- Dry concrete
- Any wood underlayment that is recommended or guaranteed by either the wood manufacturer or the floor-covering manufacturer, such as exterior-grade plywood, Group 1, CC type

Note: Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not described.

TECHNICAL NOTES

- For interior use only.
- Do not apply over presswood, flakeboard, metal or similar types of substrates. Follow the floor-covering manufacturer's recommendations regarding proper underlayment qualities.
- Do not apply directly over gypsum-based substrates.
- Do not use *Planipatch Plus* mixed with *Planipatch* as a wear layer.
- Do not use *Planipatch Plus* mixed with *Planipatch* for leveling large surfaces. Instead, use *Novoplan® 2*, *Ultraplan® 1* or *Ultraplan M20* self-leveling underlayments (see respective Technical Data Sheets for details).
- Do not use when the substrate temperature is below 50°F (10°C) or above 100°F (38°C).

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INSTRUCTIONS

1. Surface Preparation

- 1.1 All subfloors must be structurally sound, solid, well-fastened, dry, clean and free of dust, oil, grease, tar, paint, wax, curing agents, primers, sealers, loosely bonded toppings, loose particles and any substance that may prevent or reduce adhesion.
- 1.2 Painted surfaces must be sanded and scarified completely to expose the substrate, using appropriate safety precautions.
- 1.3 **Various underlayments**
 - 1.3.1 Concrete subfloors must be dry.
 - 1.3.2 Wooden floors must be well-ventilated from below.
 - 1.3.3 Cement terrazzo must be sound, solid, flawless, stripped clean and free of any contaminants or conditions that may prevent or reduce adhesion. Roughen surface by sanding or scarifying using appropriate safety precautions.

- 1.4 See "Surface Preparation Requirements" document for details.

2. Mixing

- 2.1 **If a full-strength mixture** (up to 1/8" [3 mm] thickness) (embossing leveler, to patch over residual cutback adhesive surfaces)
 - 2.1.1 Mix 3 parts of *Planipatch** powder with 1 part of *Planipatch Plus* liquid.
- 2.2 **If a diluted mixture** (up to 1/4" [6 mm])
 - 2.2.1 Dilute *Planipatch Plus* liquid using 1 part of *Planipatch Plus* with 3 parts of water. Then, mix 3 parts of *Planipatch* powder with 1 part of diluted *Planipatch Plus*. If a longer pot life is required, mix *Planipatch* with diluted *Planipatch Plus* instead of water.
- 2.3 Using a low-speed mixer (at 375 rpm maximum), mix thoroughly to a smooth, lump-free consistency. Do not mix more product than can be applied within 8 to 10 minutes.
- 2.4 Avoid air entrapment and prolonged mixing, which will shorten pot life.

3. Application

- 3.1 Immediately apply the mixture to the substrate using a flat-edge steel trowel, finishing the surface to the required smoothness.
- 3.2 Protect from excessive heat or drafty conditions during curing period.
- 3.3 Wash hands and tools with water while material is still fresh.

4. Expansion Joints

Respect existing expansion and control joints. Do not fill or cover with *Planipatch*.

5. Special Substrates

Refer to Section 2 for mixing ratios.

5.1 Noncushioned vinyl tile and sheet goods (vinyl or urethane wear layers)

- 5.1.1 Floor must be limited to one layer of existing flooring and be firmly bonded to substrate.
- 5.1.2 Remove any oils, grease, dirt, waxes or coatings with a stripping solution. Rinse with clean water and allow to dry. Important: Roughen surface of new floors or those with urethane wear layers to dull finish.

Caution: Do not completely remove the wear layer.

- 5.1.3 Fill embossed areas with *Planipatch* mixed with full-strength *Planipatch Plus*. Allow to dry (for approximately 60 minutes).
- 5.1.4 Apply a second application (at a minimum thickness of 1/32" [1 mm]) of *Planipatch* mixed with diluted *Planipatch Plus*. Allow to dry. The second coat fills any remaining smaller irregularities and creates a more porous substrate for water-based adhesives to perform properly.

5.2 Cutback Adhesive Residue

- 5.2.1 Remove ridges and loose cutback following appropriate guidelines.
- 5.2.2 Apply *Planipatch* mixed with full-strength *Planipatch Plus* in 1/16" (1.5 mm) thickness over residual cutback. Allow to dry.
Note: Cutback adhesive residue must be completely covered.
- 5.2.3 Apply a second application (at a minimum thickness of 1/32" [1 mm]) of *Planipatch* with diluted *Planipatch Plus*. Allow to dry (for approximately 60 minutes). The second application creates a more porous substrate for water-based adhesives to perform properly.

5.3 Ceramic Tile

- 5.3.1 Remove any coating or contamination from the surface of the tile and grout.
Note: To allow an adequate bond with glazed ceramic tile, abrade the surface using a belt sander set at a low speed.
- 5.3.2 Level the floor with *Planipatch* mixed with full-strength *Planipatch Plus* up to 1/16" (1.5 mm). Allow to dry.

TECHNICAL DATA (based on 73°F [23°C] and 50% relative humidity)

Pot life	40 to 50 minutes
Drying time required before floor-covering installation	55 to 60 minutes
Shelf life	12 months when stored in original container at 73°F (23°C) in a heated area. Protect from freezing.
Color	Milky white
Health and safety	Consult the Material Safety Data Sheet (MSDS) for safe-handling instructions.

Packaging

Jug: 1 U.S. gal. (3.79 L)

Pail: 5 U.S. gals (18.9 L)

Approximate Coverage

The coverage of *Planipatch Plus*™ depends on its usage with *Planipatch*®. Please refer to the *Planipatch* Technical Data Sheet or product package for details.

5.3.3 Apply a second application (at a minimum thickness of 1/32" [1 mm]) of *Planipatch* mixed with diluted *Planipatch Plus* over the first application. Allow to dry. The second coat fills any remaining smaller irregularities and creates a more porous substrate for water-based adhesives to perform properly.

5.4 For information on other flooring surfaces, contact the MAPEI® Technical Services Department.

6. Cleaning

When fresh, *Planipatch Plus* mixed with *Planipatch* is easily removed from hands and tools with water. If allowed to set and harden, it can only be removed through mechanical abrasion.

7. Protection

- 7.1 Provide dry, heated storage on site and deliver all materials at least 24 hours before work begins.
- 7.2 Protect from traffic, dirt or dust caused by other trades until the floor covering's final installation.
- 7.3 Do not apply any adhesive or floor-covering material before *Planipatch* is completely dry.

MAPEI
Plus

NOTICE

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. Any claim shall be deemed waived unless made in writing to us within fifteen (15) days from date it was, or reasonably should have been, discovered.

MAPEI

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Additional Information

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MAPEI – Canada

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MAPEI – Puerto Rico

Dorado

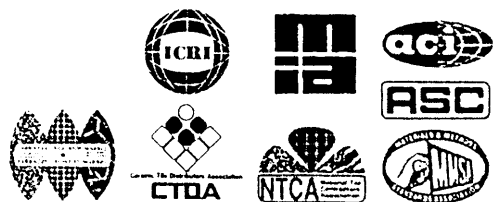
MAPEI – Venezuela

Caracas

For the most current
product data, visit
www.mapei.com.



MAPEI



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RESILIENT WALL BASE

PRODUCT SPECIFICATIONS

1. PROPRIETARY PRODUCT/MANUFACTURER

1.1 Proprietary Product: Resilient Rubber and Vinyl Wall Base.

1.2 Manufacturer:

Johnsonite

16910 Munn Road
Chagrin Falls, Ohio 44023
Phone: (800) 899-8916
(440) 543-8916
Fax: (440) 543-8920

KUDLIK CONSTRUCTION LTD
P.O. BOX 727, 1519 FEDERAL ROAD
IQUALUIT, NUNAVUT X0A 0H0
PHONE: (867) 979-1188
FAX: (867) 979-1189

1.3 Proprietary Product Description:

1.3.1 **Construction:** Johnsonite Rubber Wall Base is manufactured from a proprietary thermoplastic rubber formulation designed specifically to meet the performance and dimensional requirements of ASTM F-1861, Type TP, Group 1 (solid) Standard Specification for Resilient Wall Base.

Johnsonite Vinyl Wall Base is formulated from a homogeneous polyvinyl chloride (PVC) composition combined with high quality additives and colorants designed specifically to meet the performance and dimensional requirements of ASTM F-1861, Type TV, Group 1 (solid) Standard Specification for Resilient Wall Base.

(Note: The General Services Administration cancelled Federal Specification #SS-W-40a in October of 1995 and replaced it with ASTM F-1861, Standard Specification for Resilient Wall Base.)

1.3.2 Physical Characteristics:

Traditional Wall Base:

.125" (3.17 mm) thickness.
2-1/2" (6.35 cm), 4" (10.16 cm), and 6" (15.24 cm) heights.
Straight (Toeless) and Coved (Toe) Profiles.
4' (1.22 m) straight and 120' (36.58 m) coiled lengths.
6" (15.24 cm) profiles packaged in 100' (30.48 m) lengths.
Inside and Outside Corners with 4" (10.16 cm) returns.

Rubber Wall Base:

.125" (3.17 mm) thickness.
4-1/4" (6.35 cm) height.
Straight (Toeless) and Angled (Toe) Profiles.
4' (1.22 m) straight and 120' (36.58 m) coiled lengths.
Inside and Outside Corners with 4" (10.16 cm) returns.

Vinyl Wall Base:

.125" (3.17 mm) thickness.

1	REVIEWED
2	REVIEWED AS NOTED
3	RESUBMIT
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SIGNATURE	

2-1/2" (6.35 cm), 4" (10.16 cm), and 6" (15.24 cm) heights.
Straight (Toeless) and Coved (Toe) Profiles.
4' (1.22 m) straight and 120' (36.58 m) coiled lengths.
6" x .125" profiles packaged in 100' (30.48 m) lengths.
Inside and Outside Corners with 4" (10.16 cm) returns.

2. PRODUCT PERFORMANCE AND TECHNICAL DATA

2.1 Hardness - ASTM D 2240: Rubber - 85 Shore A; Vinyl - 90 Shore A

2.2 Flexibility - Will not crack, break, or show any signs of fatigue when bent around a 1/4" (6.4 mm) diameter cylinder.

2.3 Meets or exceeds the performance requirements for resistance to heat/light aging, chemicals, and dimensional stability when tested to the methods, as described, in ASTM F-1861.

2.4 Fire Resistance:

2.4.1 - ASTM E 84/NFPA 255 (Steiner Tunnel Test) - Class C

2.4.2 - ASTM E 648/NFPA 253 (Critical Radiant Flux) - Class 1.

2.4.3 - ASTM E 662/NFPA 258 (Smoke Density) - 450 or less.

3. INSTALLATION

3.1 The installation of Johnsonite Rubber and Vinyl Wall Bases should not begin until the work of all other trades has been completed, especially overhead trades. Areas to receive wall base shall be clean, fully enclosed, weathertight,

and maintained at a uniform temperature of at least 65⁰ F for 24 hours before,

during, and after the installation is completed. The wall base and adhesives shall be conditioned in the same manner. Coiled wall base shall be uncoiled and lay flat for at least 24 hours at 65⁰ F prior to installation. Floors and walls shall be clean, dry, free of dust, all paints, wallpaper, and all other foreign material, which may effect proper adhesive bonding. Wall Base may be installed on interior plaster, gypsum wallboard, concrete, masonry, mineral-reinforced cement board or similar porous surfaces. Wall Base shall not be installed on surfaces that will be exposed to drastic temperature changes or moisture.

3.2 Adhesives:

Porous Surfaces:

Johnsonite #960 Acrylic Cove Base Adhesive.

Application - 1/8" square notch trowel.

Coverage - approximately 250 linear feet of 4" Wall Base.

Non-porous Surfaces:

Johnsonite #945 Contact Bond Adhesive.

Application - Brush or roller.

Coverage - approximately 360 sq. ft./gallon.

3.3 Installation Manual: Refer to Johnsonite Wall Base Installation Instructions for complete installation details.

4. AVAILABILITY AND COST

4.1 Available through authorized Johnsonite distributors nationwide.

5.1 Limited 1 year warranty. For complete details, contact Johnsonite or an authorized Johnsonite distributor.

6. MAINTENANCE

6.1 Refer to Johnsonite Wall Base Installation Instructions for complete maintenance details.

7. TECHNICAL SERVICES

7.1 **Samples:** Submittal samples for verification and approval available upon request from Johnsonite, Customer Service. Samples shall be submitted in compliance with the requirements of the Contract Documents. Accepted and approved samples shall constitute the standard materials which represent materials installed on the project.

7.2 For current Installation and Maintenance Instructions, Architect Specifications, Product Specifications, and other technical data, contact Johnsonite Customer Service at 1-800-899-8916.



TASKI VISION STAR Fini pour plancher à haute teneur en solides

HMIS	NFPA	Équipement de protection individuelle
Santé	1	None Required
Risque d'incendie	0	
Réactivité	0	

Numéro de révision: 1

Date de révision: 2005-02-16

1. IDENTIFICATION DE LA SUBSTANCE/PRÉPARATION ET DE LA SOCIÉTÉ/ENTREPRISE

Nom du produit: TASKI VISION STAR Fini pour plancher à haute teneur en solides
 MSDS #: F-00339002
 Code du produit: 3096239, 3096247, 3096255, 3871184
 Utilisation recommandée: Entretien des planchers.

Producteur, importateur, fournisseur:
 US Headquarters
 JohnsonDiversey, Inc.
 8310 16th St.
 Sturtevant, Wisconsin 53177-0902
 Phone: 1-888-352-2249
 MSDS Internet Address:
 www.johnsondiversey.com

Canadian Headquarters
 JohnsonDiversey - Canada, Inc.
 2401 Bristol Circle
 Oakville, Ontario L6H 6P1
 Phone: 1-800-688-3131

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 FAX: (867) 979-1169

Téléphone en cas d'urgence: 1-800-851-7145 (Prosar); 1-651-817-6133 (Int'l Prosar); 01-800-710-3400 (Mexique)

2. IDENTIFICATION DES DANGERS

Aperçu des premiers secours

ATTENTION. PEUT IRRITER MODÉREMENT LES YEUX. Irritation légère de la peau.

Principales voies d'entrée: Yeux, Peau, Inhalation.
 Contact avec la peau: Peut irriter modérément la peau.
 Contact avec les yeux: Peut irriter modérément les yeux.
 Inhalation: Aucune
 Ingestion: Aucune

3. COMPOSITION/INFORMATION SUR LES COMPOSANTS

Composants Dangereux

Composants	N° CAS	% en poids	DL50 Orale	DL50 Cutanée	CL50 Inhalatoire
Ether de diéthylène glycol et de monoéthyle	111-90-0	5 - 10%	6.5 mL/kg (rat)	4.2 mL/kg (rabbit)	5.24 g/m³ (rat)

4. PREMIERS SECOURS

Contact avec les yeux: Rincer immédiatement à grande eau. En cas d'irritation, consulter un médecin.
 Contact avec la peau: Rincer immédiatement à grande eau. En cas d'irritation, consulter un médecin.
 Conditions médicales aggravées: Les personnes présentant des difficultés de la cutané préexistantes peut être plus susceptible aux effets irritants.

5. MESURES DE LUTTE CONTRE L'INCENDIE

Moyens d'extinction appropriés: Non applicable
 Dangers spécifiques: Non applicable
 Risques inhabituels: Aucun à notre connaissance
 Méthodes particulières d'intervention: Aucune méthodes spéciale n'est requise

Équipements spéciaux pour la protection des intervenants: Comme pour tout incendie, porter un respirateur à air comprimé, MSHA/NIOSH (approuvé ou équivalent), ainsi qu'une combinaison complète de protection.
 Moyen d'extinction à ne pas utiliser pour des raisons de sécurité: Pas d'information disponible.

TASKI VISION STAR Fini pour plancher à haute teneur en solides

6. MESURES A PRENDRE EN CAS DE DEVERSEMENT ACCIDENTEL

Précautions individuelles: Utiliser un équipement de protection individuel
Méthodes de nettoyage: Pas d'information disponible.

7. MANIPULATION ET STOCKAGE

Manipulation: Eviter le contact avec la peau et les yeux. POUR UTILISATION COMMERCIALE ET INDUSTRIELLE SEULEMENT.
Stockage: Protéger du gel. Conserver hermétiquement fermé dans un endroit sec, frais et bien ventilé.

8. MESURES DE CONTROLE DE L'EXPOSITION/PROTECTION INDIVIDUELLE

Mesures d'ordre technique: Aucune ventilation particulière requise. Ventilation adéquate du local.

Équipement de protection individuelle

Protection des yeux:	Aucune condition particulière dans les conditions normales d'utilisation
Protection des mains:	Aucune condition particulière dans les conditions normales d'utilisation
Protection de la peau et du corps:	Aucune condition particulière dans les conditions normales d'utilisation
Protection respiratoire:	Aucune condition particulière dans les conditions normales d'utilisation
Mesures d'hygiène:	A manipuler conformément aux bonnes pratiques d'hygiène industrielle et aux consignes de sécurité

9. PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

État physique:	Liquide	Aspect:	Émulsion
Couleur:	Blanc	Point/Intervalle d'ébullition:	indéterminé
Odeur:	Douce De solvant	Point/Intervalle de fusion:	indéterminé
Densité:	1.03	pH:	8.4
Dilution pH:	Pas d'information disponible	Densité:	8.63
Masse volumique apparente:	Pas d'information disponible	Température de décomposition:	indéterminé
Densité gazeuse:	Pas d'information disponible	Température d'auto-inflammabilité:	Pas d'information disponible
Vitesse d'évaporation:	Pas d'information disponible	Solubilité:	dispersable
Solubilité dans d'autres solvants:	Pas d'information disponible	Teneur (%) en COV (composés organiques volatils):	6.2
Viscosité:	Pas d'information disponible	Point d'éclair:	>200 (°F) >93.3 (°C)
Coefficient de partage (n-octanol/eau):	Pas d'information disponible		

10. STABILITÉ ET RÉACTIVITÉ

Stabilité: Le produit est stable
polymérisation: Une polymérisation dangereuse ne se produit pas
Produits de décomposition dangereux: Aucun raisonnablement prévisible

11. INFORMATIONS TOXICOLOGIQUES

Toxicité aiguë: ORALE, Estimée à un niveau supérieur à 5000 mg/kg. Dermal, Toxicité orale exprimée en DL50 > 2000 mg/kg.
Information sur les composants: Voir la Section 3
Toxicité chronique: Inconnu
Effets spécifiques:
effets cancérogènes: Aucun connu
effets mutagènes: Aucun connu
Toxicité reproductrice: Aucun connu
Effets sur l'organe-cible: Aucun connu

Composants Dangereux

12. INFORMATIONS ÉCOLOGIQUES

Information environnementales: donnée non disponible.

13. CONSIDÉRATIONS RELATIVES À L'ÉLIMINATION

TASKI VISION STAR Fini pour plancher à haute teneur en solides

Déchets de résidus / produits non utilisés:
Éliminer selon les dispositions prévues par les différentes réglementations fédérales, provinciales, locales ou d'État

14. INFORMATIONS RELATIVES AU TRANSPORT

DOT/TDG: S'il vous plaît, consulter le document d'expédition pour les renseignements à jour sur le transport

15. INFORMATIONS RÉGLEMENTAIRES

Inventaires Internationaux

Tous les éléments de ce produit sont énumérés dans les inventaires suivants: États-Unis (TSCA), Canada (DSL/NDSL).

Réglementation des É.-U.

Proposition 65 de la Californie: Il n'y a pas des ingrédients qui sont assujettis à la déclaration en suivant "Proposition 65" de Californie

LOI DU DROIT DE SAVOIR DE L'ÉTAT

Composants	N° CAS	MARTK:	NJRTK:	PARTK:	RIRTK:	ILRTK:	CTRTK:
Eau	7732-18-5	-	-	-	-	-	-
Ether de diéthylène glycol et de monoéthyle	111-90-0	-	Listed	Listed	-	-	-
Tributoxyéthyl-phosphate	78-51-3	-	Listed	Listed	-	-	-
disobutyrata de 2,2,4-triméthylpentane-1,3-diol	6846-50-0	-	-	-	-	-	-
Styrene-acrylic polymer	Not est.	-	-	-	-	-	-

CERCLA / SARA

Composants	N° CAS	% en poids	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Ether de diéthylène glycol et de monoéthyle	111-90-0	5 - 10%			Listed.
Tributoxyéthyl-phosphate	78-51-3	1 - 5%			Listed.

Composants	CAA HAP	CAA ODS	CWA Polluants en Priorité
Ether de diéthylène glycol et de monoéthyle	Listed.		
Tributoxyéthyl-phosphate	Listed.		

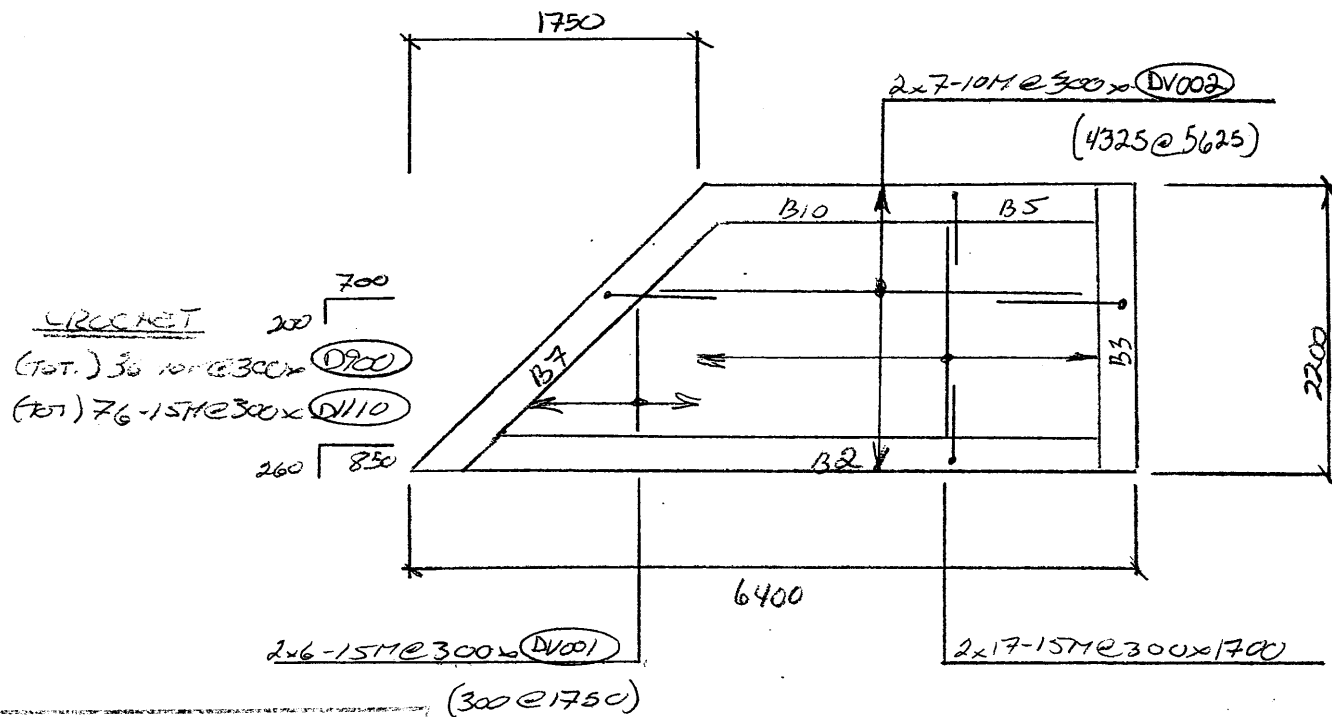
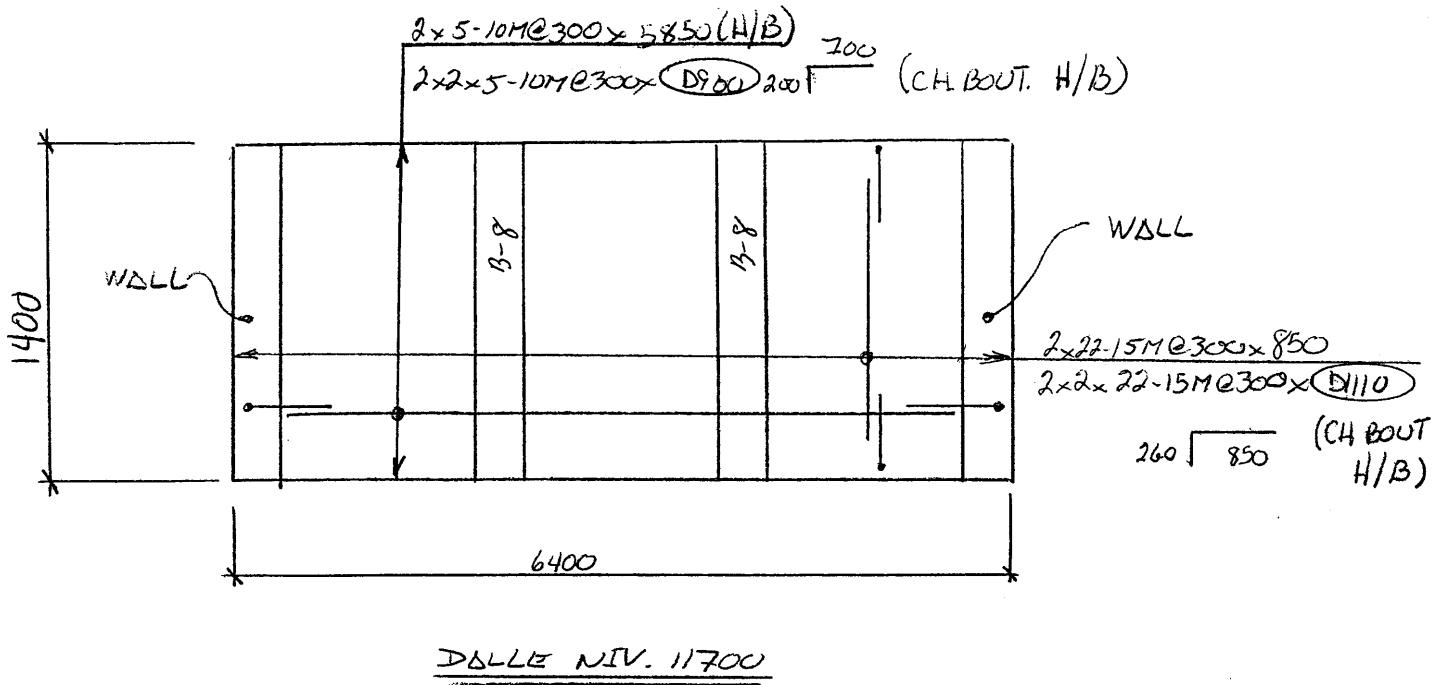
Canada

WHMIS: Non contrôle.

16. AUTRES INFORMATIONS

Cause de la révélation: non applicable
Préparé par: NAPRAC
Conseils supplémentaires: Aucune

Avis au lecteur: Ce document a été préparé de sources considérées techniquement sérieuses. Il ne constitue pas une garantie, énoncée ou tacite, de l'exactitude des renseignements ci-inclus. Les conditions actuelles d'usage et de maintenance sont hors du contrôle du vendeur. L'utilisateur doit s'assurer qu'il possède toutes les données en cours, en regard de son utilisation particulière et qu'il respecte tous les règlements fédéraux, des états, provinciaux et municipaux.



REVIEWED ACCORDING TO THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE CONTRACT. ANY ACTION INDICATED IS SUBJECT TO THESE REQUIREMENTS.

☒ NO EXCEPTIONS TAKEN
☐ MAKE NOTED CORRECTIONS

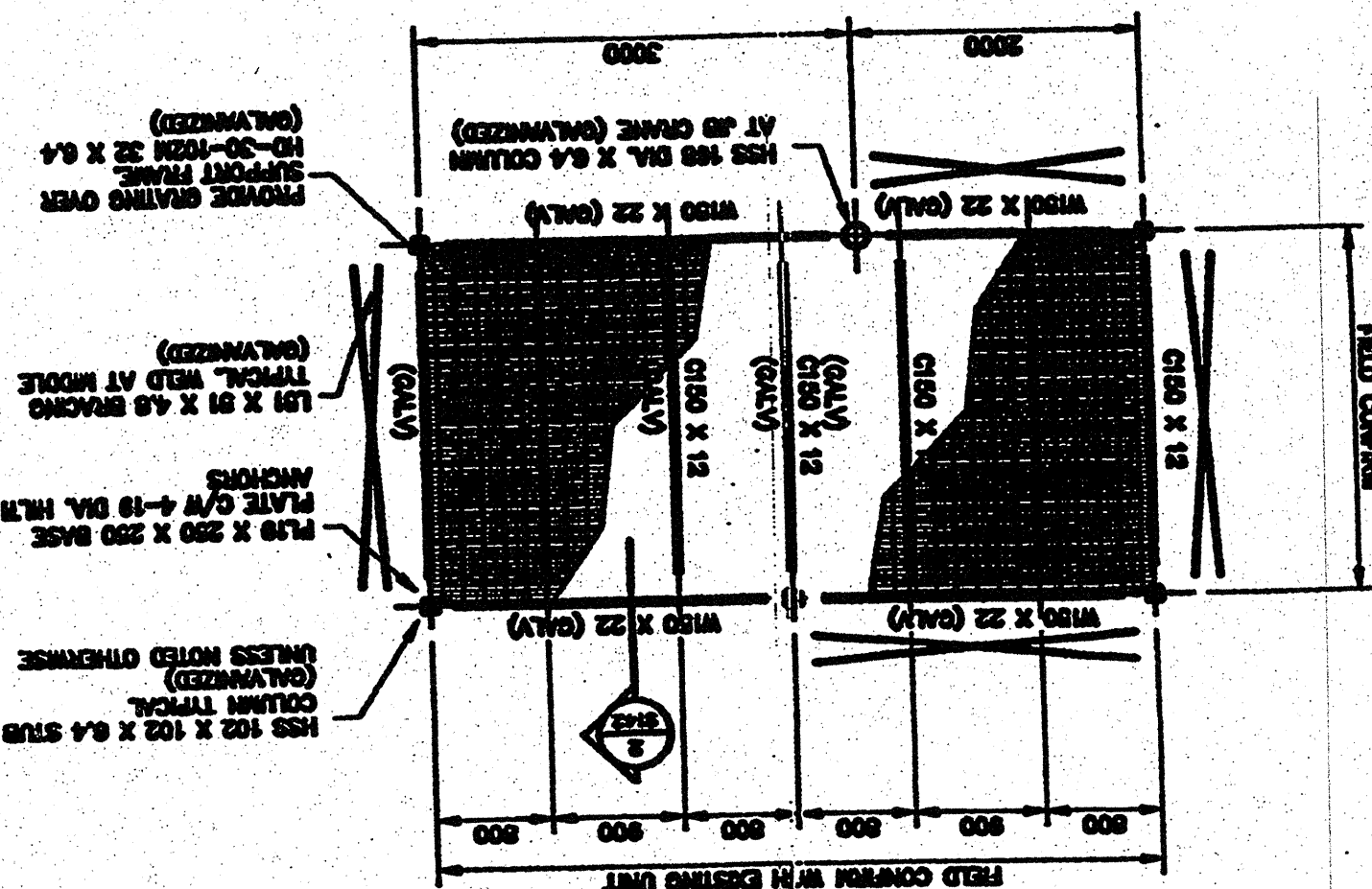
REVISE & RESUBMIT

☐ REJECTED

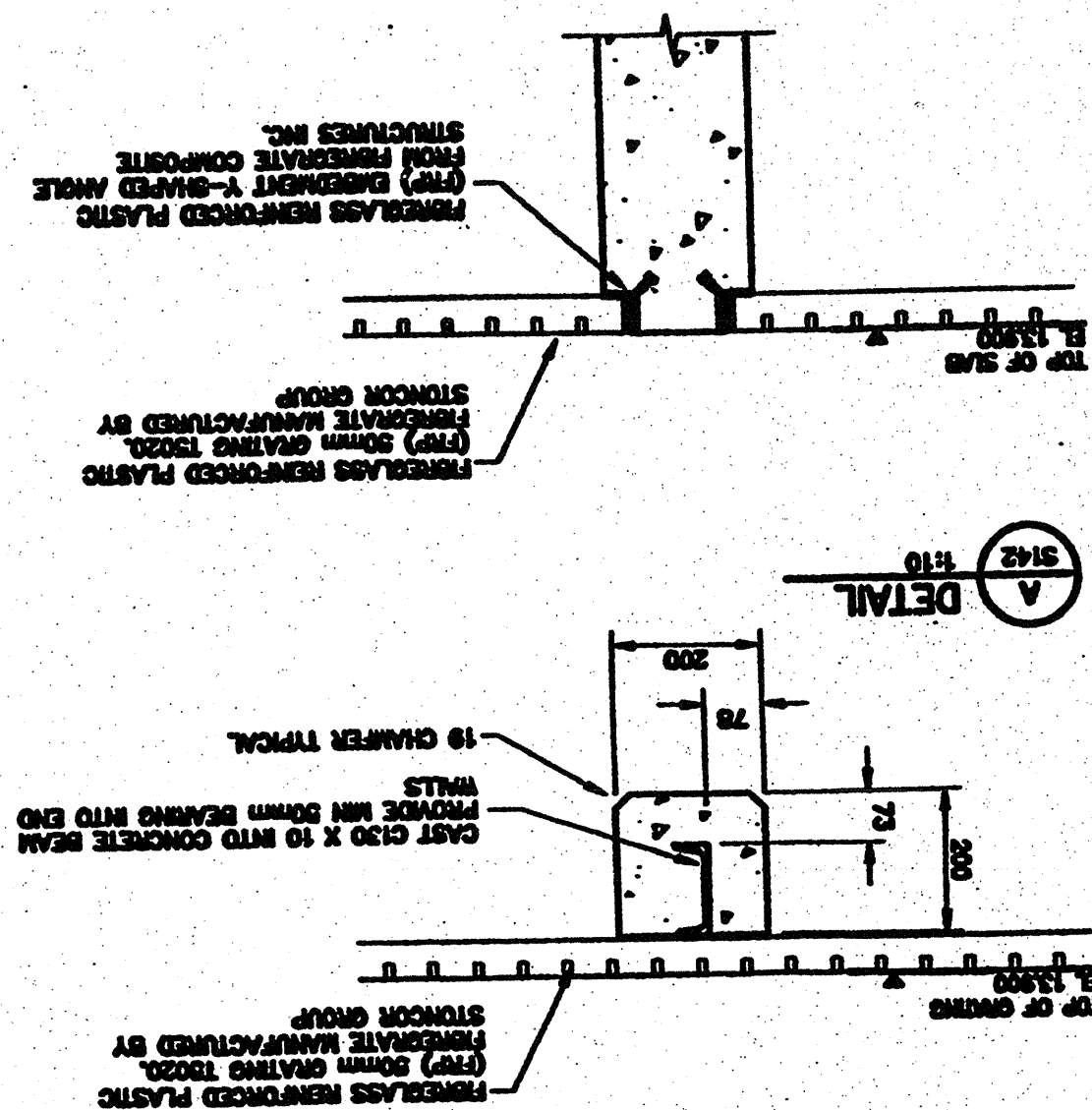
DATE **JUN 27 2005** BY *NV*
 EARTH TECH (CANADA) INC.

KUDLIK CONSTRUCTION LTD
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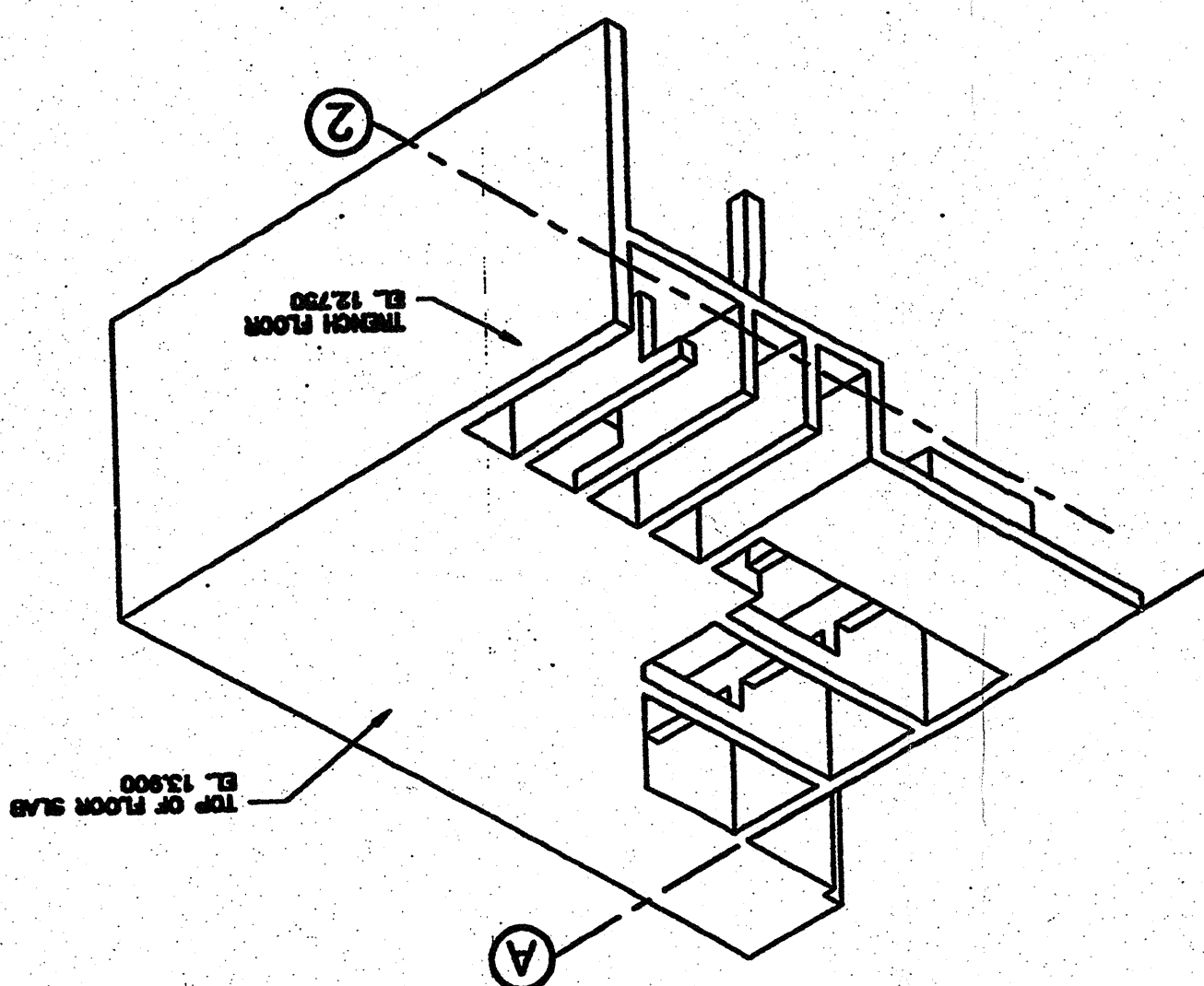
ACIER ECAN
 (Division de Acier AGF Inc.)
 595, avenue Newton
 Québec (Québec)
 G1P 4C4
 TÉL.: (418) 877-7715
 FAX: (418) 877-9596



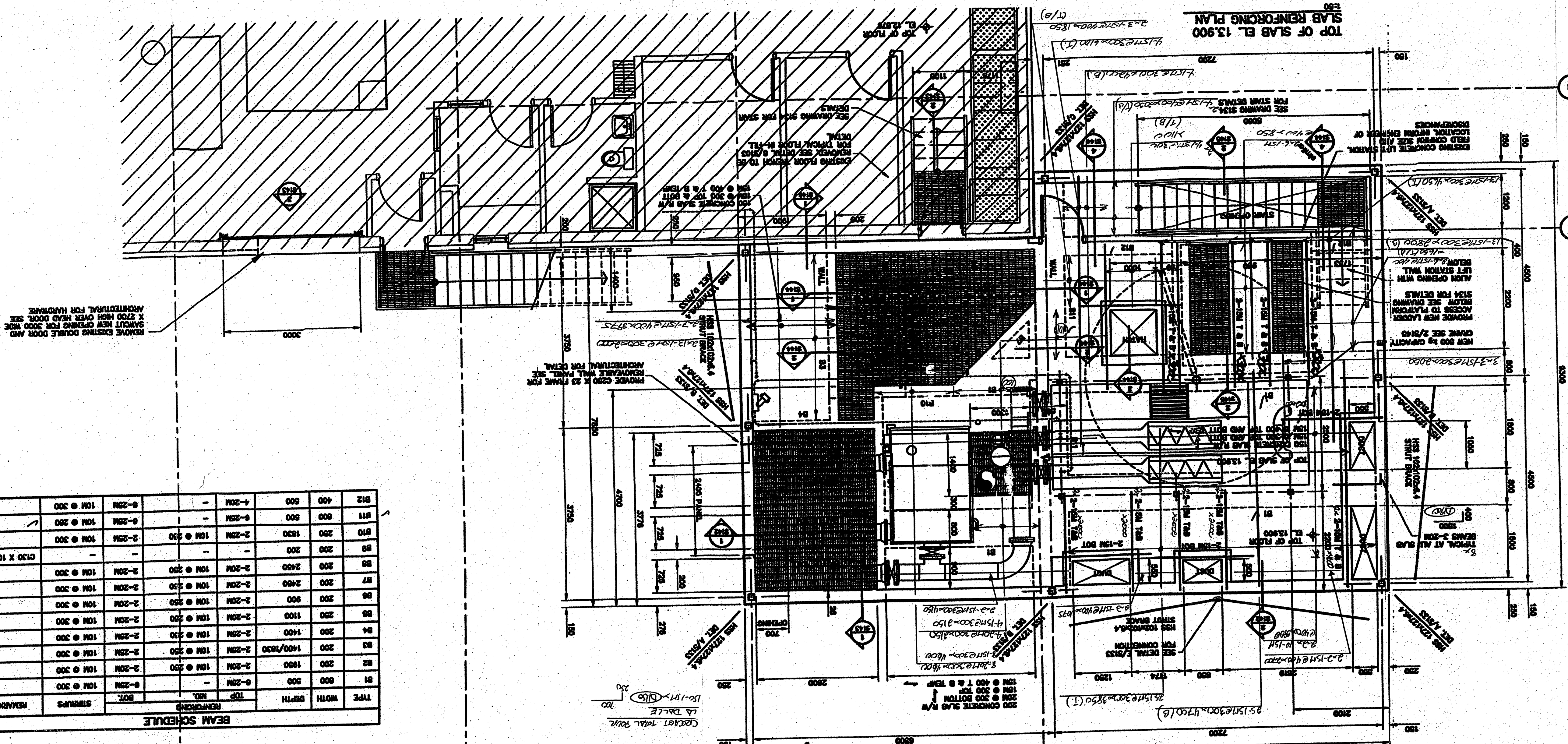
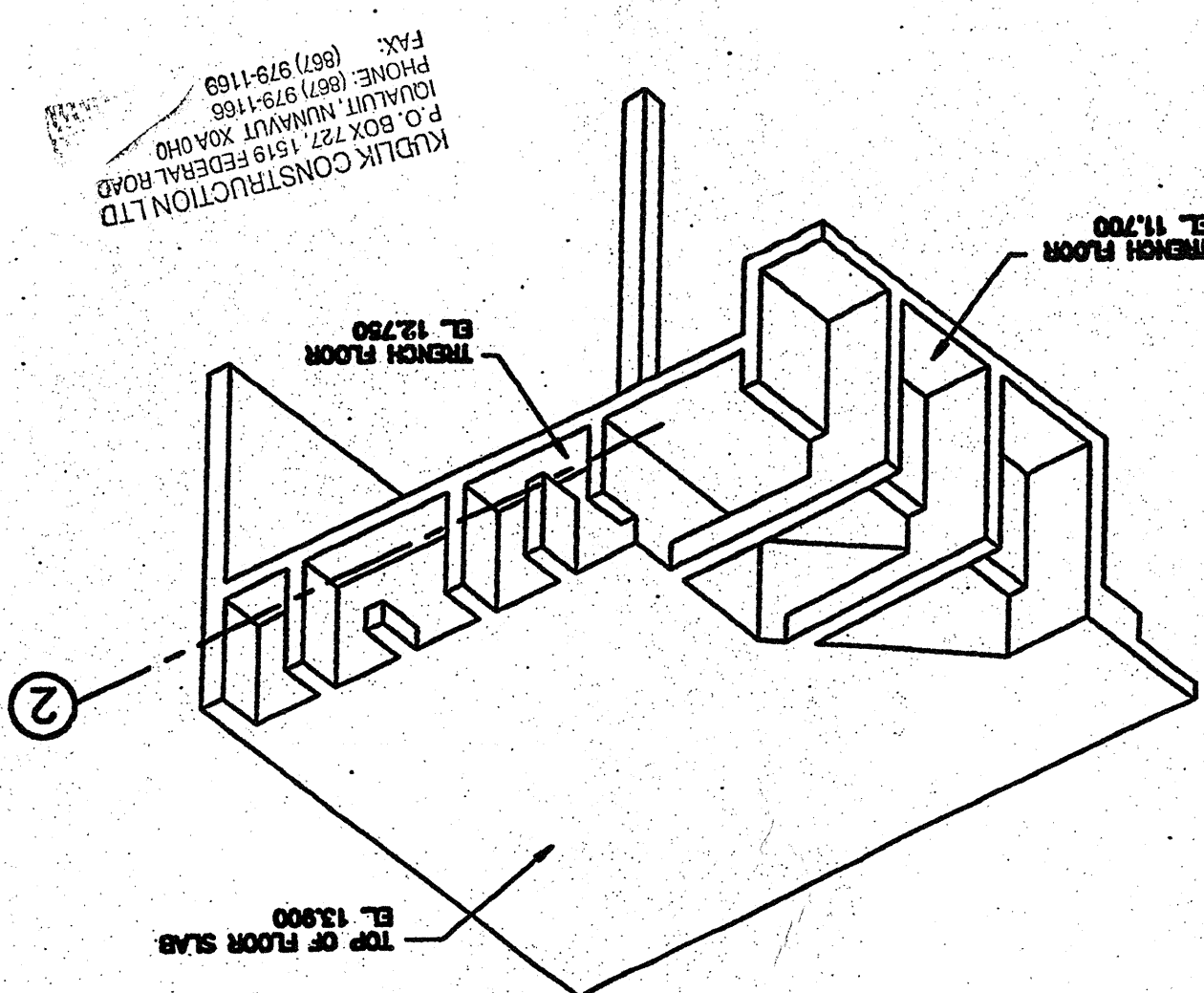
TOP OF SLAB EL. 13.900
SLAB REINFORCING PLAN
1:50



HEADWORKS TRENCH-A



HEADWORKS TRENCH-B ^{NIS}



BEAM SCHEDULE									
TYPE	WIDTH	DEPTH	TOP REINFORCING	BOT. REINFORCING	BOT.	STIRRUPS			
						10M X 300	10M X 300	10M X 300	10M X 300
B1	600	600	0-25M	-	0-25M	10M X 300	10M X 300	10M X 300	10M X 300
B2	300	1850	2-20M	10M X 250	2-20M	10M X 300	10M X 300	10M X 300	10M X 300
B3	300	1400/1830	2-25M	10M X 250	2-25M	10M X 300	10M X 300	10M X 300	10M X 300
B4	300	1400	2-25M	10M X 250	2-25M	10M X 300	10M X 300	10M X 300	10M X 300
B5	250	1100	2-20M	10M X 250	2-20M	10M X 300	10M X 300	10M X 300	10M X 300
B6	300	900	2-20M	10M X 250	2-20M	10M X 300	10M X 300	10M X 300	10M X 300
B7	200	2450	2-20M	10M X 250	2-20M	10M X 300	10M X 300	10M X 300	10M X 300
B8	300	2450	2-20M	10M X 250	2-20M	10M X 300	10M X 300	10M X 300	10M X 300
B9	200	200	2-25M	10M X 250	2-25M	10M X 300	10M X 300	10M X 300	10M X 300
B10	230	1830	2-25M	10M X 250	2-25M	10M X 300	10M X 300	10M X 300	10M X 300
B11	600	500	0-25M	-	0-25M	10M X 280	10M X 280	10M X 280	10M X 280
B12	400	500	4-20M	-	0-25M	10M X 300	10M X 300	10M X 300	10M X 300

(10) 4-11-15M @ 4000 = 46400
 (11) 4-11-15M @ 3900 = 45660
 (12) 4-20-18300 = 73200
 (13) 4-20-18300 = 73200

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595, avenue Newton
Québec (Québec)
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TEL: (418) 877-7715
FAX: (418) 877-9596

duoq

REVISIONS		
No.	Date	Description
0	05/04 2000	ISSUED FOR TENDER

STRUCTURAL MAIN FLOOR PLAN

CITY OF IOWA
WASTEWATER
TREATMENT PLANT
PHASE 1

Checked

UMDJO

City of Iqaluit

REVISIONS

No.	Date	Description
0	2008 03/04	ISSUED FOR TENDER

[illegible][illegible]

Québec (Québec)
GIP 4C4
TEL: (418) 877-7715

ACIER ECAN
(Division de Acier AGF Inc.)

— 200 —

the 1990s, the number of people in the world who are under 15 years of age is expected to increase from 1.1 billion to 1.5 billion. The number of people aged 65 and over is expected to increase from 200 million to 400 million. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion.

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the 1990s, the number of people in the United States who are 65 years of age or older has increased by 50 percent, and the number of people 75 years of age or older has increased by 100 percent. The number of people 85 years of age or older has increased by 200 percent. The number of people 95 years of age or older has increased by 400 percent. The number of people 100 years of age or older has increased by 1,000 percent. The number of people 105 years of age or older has increased by 2,000 percent. The number of people 110 years of age or older has increased by 4,000 percent. The number of people 115 years of age or older has increased by 8,000 percent. The number of people 120 years of age or older has increased by 16,000 percent. The number of people 125 years of age or older has increased by 32,000 percent. The number of people 130 years of age or older has increased by 64,000 percent. The number of people 135 years of age or older has increased by 128,000 percent. The number of people 140 years of age or older has increased by 256,000 percent. The number of people 145 years of age or older has increased by 512,000 percent. The number of people 150 years of age or older has increased by 1,024,000 percent. The number of people 155 years of age or older has increased by 2,048,000 percent. The number of people 160 years of age or older has increased by 4,096,000 percent. The number of people 165 years of age or older has increased by 8,192,000 percent. The number of people 170 years of age or older has increased by 16,384,000 percent. The number of people 175 years of age or older has increased by 32,768,000 percent. The number of people 180 years of age or older has increased by 65,536,000 percent. The number of people 185 years of age or older has increased by 131,072,000 percent. The number of people 190 years of age or older has increased by 262,144,000 percent. The number of people 195 years of age or older has increased by 524,288,000 percent. The number of people 200 years of age or older has increased by 1,048,576,000 percent. The number of people 205 years of age or older has increased by 2,097,152,000 percent. The number of people 210 years of age or older has increased by 4,194,304,000 percent. The number of people 215 years of age or older has increased by 8,388,608,000 percent. The number of people 220 years of age or older has increased by 16,777,216,000 percent. The number of people 225 years of age or older has increased by 33,554,432,000 percent. The number of people 230 years of age or older has increased by 67,108,864,000 percent. The number of people 235 years of age or older has increased by 134,217,728,000 percent. The number of people 240 years of age or older has increased by 268,435,456,000 percent. The number of people 245 years of age or older has increased by 536,870,912,000 percent. The number of people 250 years of age or older has increased by 1,073,741,824,000 percent. The number of people 255 years of age or older has increased by 2,147,483,648,000 percent. The number of people 260 years of age or older has increased by 4,294,967,296,000 percent. The number of people 265 years of age or older has increased by 8,589,934,592,000 percent. The number of people 270 years of age or older has increased by 17,179,869,184,000 percent. The number of people 275 years of age or older has increased by 34,359,738,368,000 percent. The number of people 280 years of age or older has increased by 68,719,476,736,000 percent. The number of people 285 years of age or older has increased by 137,438,953,472,000 percent. The number of people 290 years of age or older has increased by 274,877,906,944,000 percent. The number of people 295 years of age or older has increased by 549,755,813,888,000 percent. The number of people 300 years of age or older has increased by 1,099,511,627,776,000 percent. The number of people 305 years of age or older has increased by 2,199,023,255,552,000 percent. The number of people 310 years of age or older has increased by 4,398,046,511,104,000 percent. The number of people 315 years of age or older has increased by 8,796,093,022,208,000 percent. The number of people 320 years of age or older has increased by 17,592,186,044,416,000 percent. The number of people 325 years of age or older has increased by 35,184,372,088,832,000 percent. The number of people 330 years of age or older has increased by 70,368,744,177,664,000 percent. The number of people 335 years of age or older has increased by 140,737,488,355,328,000 percent. The number of people 340 years of age or older has increased by 281,474,976,710,656,000 percent. The number of people 345 years of age or older has increased by 562,949,953,421,312,000 percent. The number of people 350 years of age or older has increased by 1,125,899,906,842,624,000 percent. The number of people 355 years of age or older has increased by 2,251,799,813,685,248,000 percent. The number of people 360 years of age or older has increased by 4,503,599,627,370,496,000 percent. The number of people 365 years of age or older has increased by 9,007,199,254,740,992,000 percent. The number of people 370 years of age or older has increased by 18,014,398,509,481,984,000 percent. The number of people 375 years of age or older has increased by 36,028,797,018,963,968,000 percent. The number of people 380 years of age or older has increased by 72,057,594,037,927,936,000 percent. The number of people 385 years of age or older has increased by 144,115,188,075,855,872,000 percent. The number of people 390 years of age or older has increased by 288,230,376,151,711,744,000 percent. The number of people 395 years of age or older has increased by 576,460,752,303,423,488,000 percent. The number of people 400 years of age or older has increased by 1,152,921,504,606,846,976,000 percent. The number of people 405 years of age or older has increased by 2,305,843,009,213,693,952,000 percent. The number of people 410 years of age or older has increased by 4,611,686,018,427,387,904,000 percent. The number of people 415 years of age or older has increased by 9,223,372,036,854,775,808,000 percent. The number of people 420 years of age or older has increased by 18,446,744,073,709,551,616,000 percent. The number of people 425 years of age or older has increased by 36,893,488,147,419,103,232,000 percent. The number of people 430 years of age or older has increased by 73,786,976,294,838,206,464,000 percent. The number of people 435 years of age or older has increased by 147,573,952,589,676,412,928,000 percent. The number of people 440 years of age or older has increased by 295,147,905,179,352,825,856,000 percent. The number of people 445 years of age or older has increased by 590,295,810,358,705,651,712,000 percent. The number of people 450 years of age or older has increased by 1,180,591,620,717,411,303,424,000 percent. The number of people 455 years of age or older has increased by 2,361,183,241,434,822,606,848,000 percent. The number of people 460 years of age or older has increased by 4,722,366,482,869,645,213,696,000 percent. The number of people 465 years of age or older has increased by 9,444,732,965,739,290,427,392,000 percent. The number of people 470 years of age or older has increased by 18,889,465,931,478,580,854,784,000 percent. The number of people 475 years of age or older has increased by 37,778,931,862,957,161,709,568,000 percent. The number of people 480 years of age or older has increased by 75,557,863,725,914,323,419,136,000 percent. The number of people 485 years of age or older has increased by 151,115,727,451,828,646,838,272,000 percent. The number of people 490 years of age or older has increased by 302,231,454,903,657,293,676,544,000 percent. The number of people 495 years of age or older has increased by 604,462,909,807,314,587,353,088,000 percent. The number of people 500 years of age or older has increased by 1,208,925,819,614,629,174,706,176,000 percent. The number of people 505 years of age or older has increased by 2,417,851,639,229,258,349,412,352,000 percent. The number of people 510 years of age or older has increased by 4,835,703,278,458,516,698,824,704,000 percent. The number of people 515 years of age or older has increased by 9,671,406,556,917,033,397,649,408,000 percent. The number of people 520 years of age or older has increased by 19,342,813,113,834,066,795,298,816,000 percent. The number of people 525 years of age or older has increased by 38,685,626,227,668,133,590,597,632,000 percent. The number of people 530 years of age or older has increased by 77,371,252,455,336,267,181,195,264,000 percent. The number of people 535 years of age or older has increased by 154,742,504,910,672,534,362,390,528,000 percent. The number of people 540 years of age or older has increased by 309,485,009,821,345,068,724,781,056,000 percent. The number of people 545 years of age or older has increased by 618,970,019,642,690,137,449,562,112,000 percent. The number of people 550 years of age or older has increased by 1,237,940,039,285,380,274,899,124,224,000 percent. The number of people 555 years of age or older has increased by 2,475,880,078,570,760,549,798,248,448,000 percent. The number of people 560 years of age or older has increased by 4,951,760,157,141,521,099,596,496,896,000 percent. The number of people 565 years of age or older has increased by 9,903,520,314,283,042,199,193,993,792,000 percent. The number of people 570 years of age or older has increased by 19,807,040,628,566,084,398,387,987,584,000 percent. The number of people 575 years of age or older has

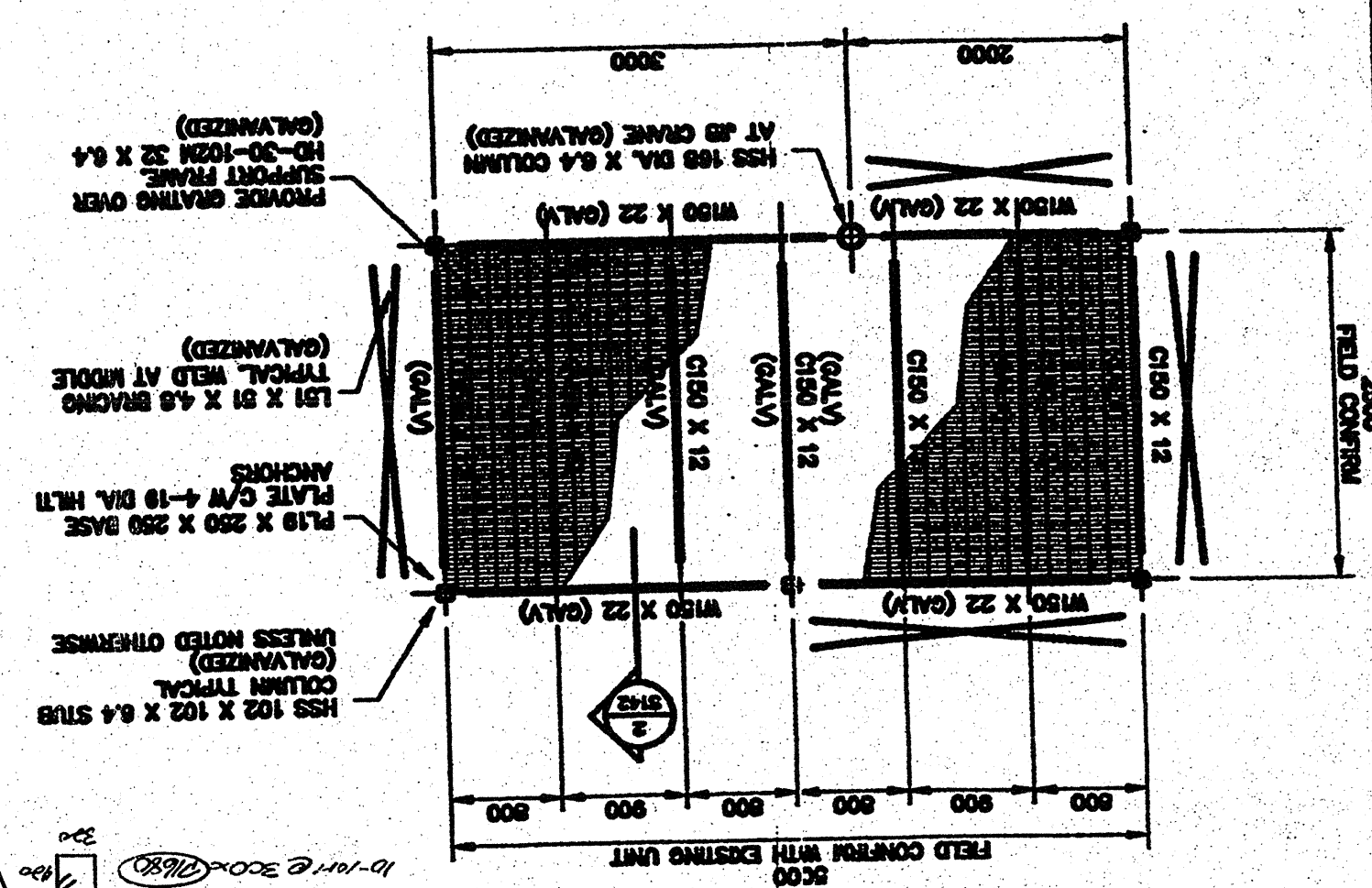
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the 1990s, the number of people in the world who are illiterate has increased from 1.2 billion to 1.5 billion. The number of illiterate people in the world is expected to reach 1.7 billion by the year 2015. The number of illiterate people in the world is expected to reach 1.7 billion by the year 2015.

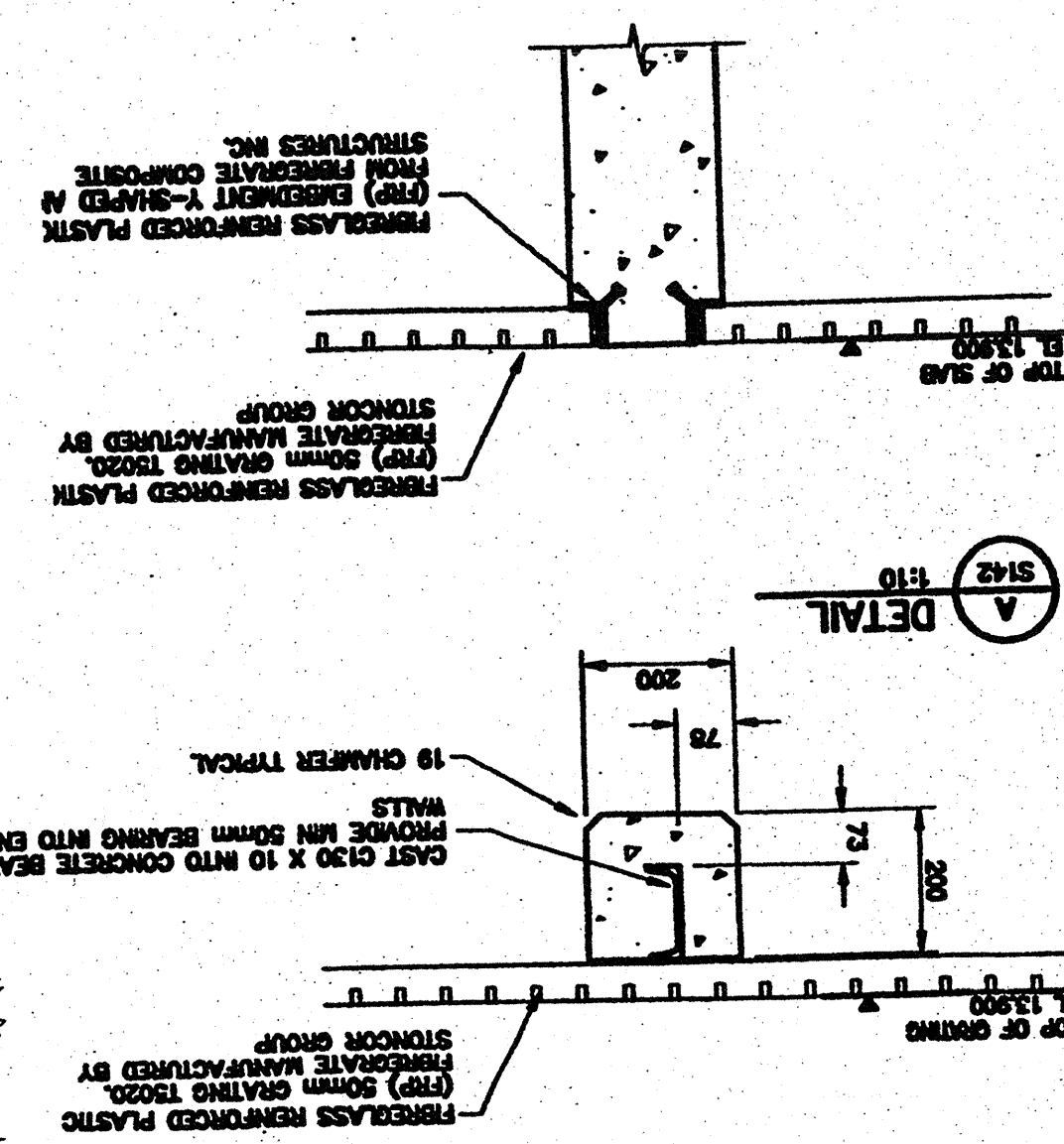
1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971) using a Shimadzu 1010 spectrophotometer. The concentration of chlorophylls was expressed as $\mu\text{g mL}^{-1}$ of the sample.

[illegible]

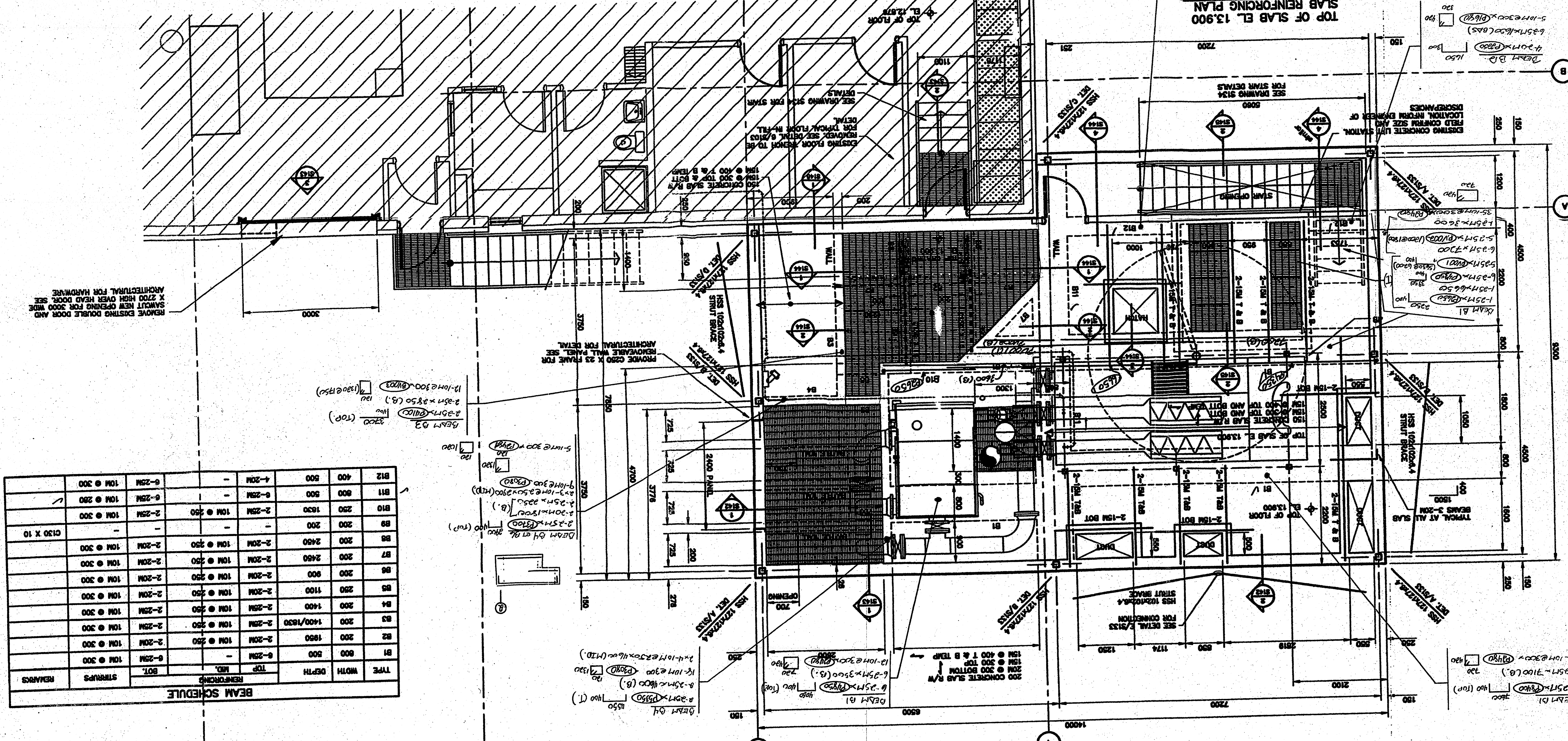
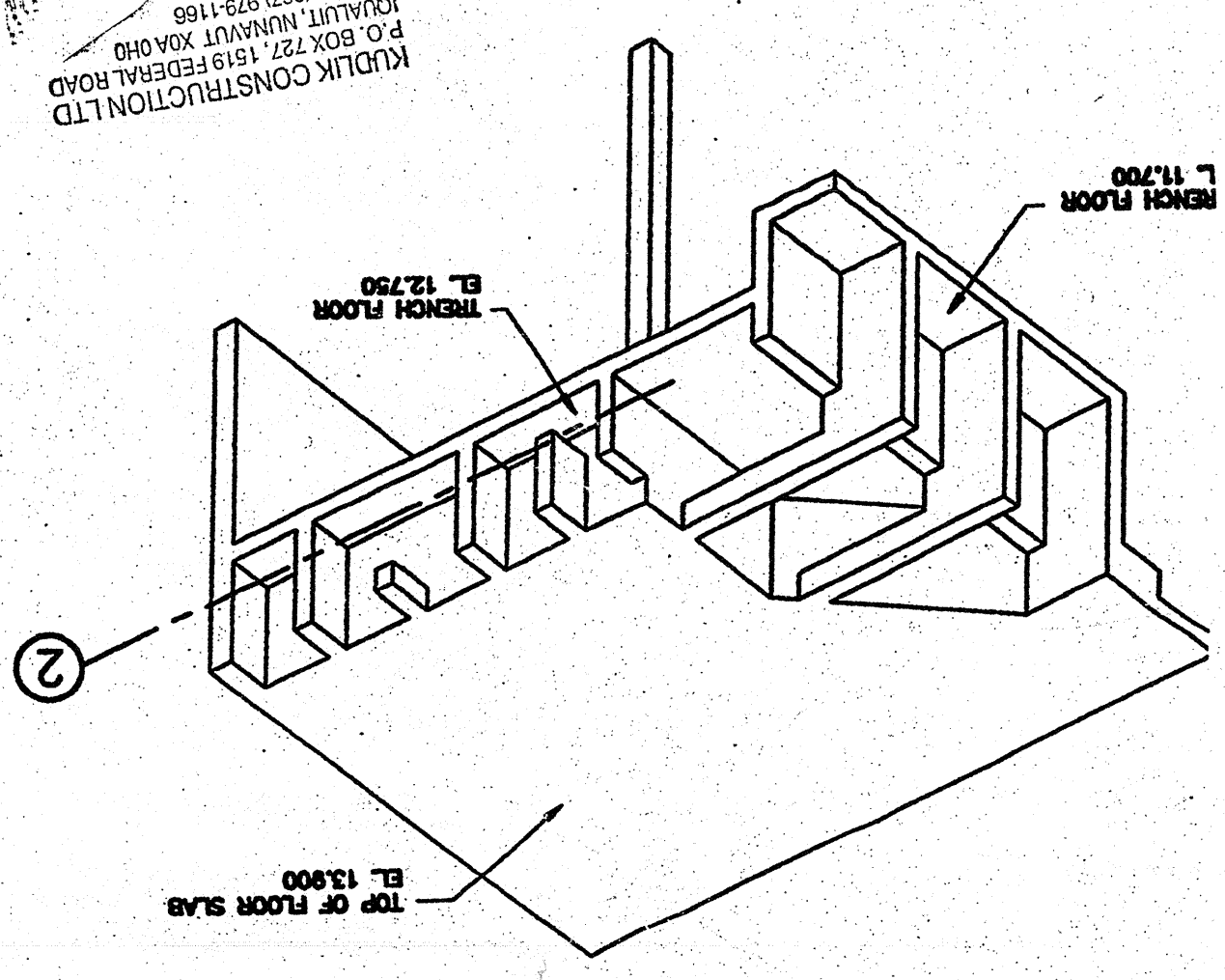
AUGER SUPPT
FRAME PLAN



TOP OF SLAB EL. 13.900
SLAB REINFORCING PLAN
1:50
BEAM 312



HEADWORKS TRENCH-B **NTS**



BEAM SCHEDULE									
REINFORCING									
TYPE	WIDTH	DEPTH	TOP MO.	BOT.	STIRRUPS				
					10M @ 300	10M @ 250	10M @ 200	10M @ 150	10M @ 100
B1	800	500	6-25M	-	10M @ 300	10M @ 250	10M @ 200	10M @ 150	10M @ 100
B2	800	400	2-25M	10M @ 250	10M @ 300	10M @ 250	10M @ 200	10M @ 150	10M @ 100
B3	300	1400/1830	2-25M	10M @ 250	10M @ 300	10M @ 250	10M @ 200	10M @ 150	10M @ 100
B4	300	1400	2-25M	10M @ 250	10M @ 300	10M @ 250	10M @ 200	10M @ 150	10M @ 100
B5	250	1100	2-20M	10M @ 250	10M @ 300	10M @ 250	10M @ 200	10M @ 150	10M @ 100
B6	300	900	2-20M	10M @ 250	10M @ 300	10M @ 250	10M @ 200	10M @ 150	10M @ 100
B7	300	2450	2-20M	10M @ 250	10M @ 300	10M @ 250	10M @ 200	10M @ 150	10M @ 100
B8	300	2450	2-20M	10M @ 250	10M @ 300	10M @ 250	10M @ 200	10M @ 150	10M @ 100
B9	200	200	-	-	10M @ 300	10M @ 250	10M @ 200	10M @ 150	10M @ 100
B10	250	1830	2-25M	10M @ 250	10M @ 300	10M @ 250	10M @ 200	10M @ 150	10M @ 100
B11	800	500	6-25M	-	10M @ 300	10M @ 250	10M @ 200	10M @ 150	10M @ 100
B12	400	500	4-20M	-	10M @ 300	10M @ 250	10M @ 200	10M @ 150	10M @ 100

 CITY of IQALUIT Nunavut		Drawing Title STRUCTURAL MAIN FLOOR PLAN	
Scale AS NOTED		Project No. 73360	
Drawing No. 0		Revision 08.03.05	
Date 08.03.05			
Project Title CITY OF IQALUIT WASTEWATER TREATMENT PLANT PHASE 1			
Checked			
Approved			
Design			
Drawn			
Design			
Revisions			
No.	Date	Description	
0	03/04	ISSUED FOR TENDER	
Stamp			
ACIER ECAN (Division de Acier AGF Inc.) 895, avenue Newton Québec (Québec) G1P 4C4 TEL: (418) 877-7745 FAX: (418) 877-9590			