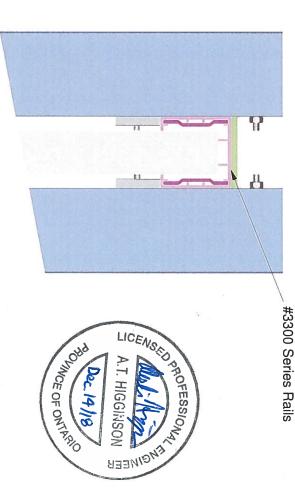
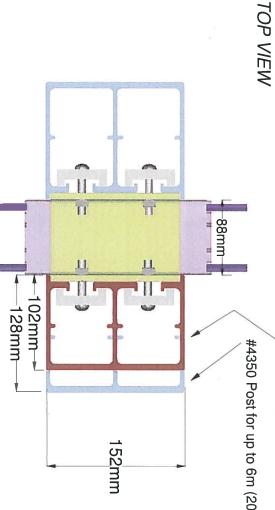


END VIEW



#4350 Post for up to 6m (20') high $_{/}$ #3350 Post for up to 5m (16.4') high



Rail Options

noise reduction requirements. project, depending on your infill selection and your Various rail sizes are available to accomodate your

Infill Options

alloy panels depending on your STC requirements. composite panels, to high strength extruded 6005 aluminum Noise Barrier Infill can range in scope from wood, to

performance. designed aluminum rails, insures that the material is without presenting any gaps. This, along with our carefully alternative. To be effective, the wood must be stable and our sound barrier fences. It offers a very reasonably priced delivering 20-30 years of excellent noise reduction protected on the top and dries out quickly in other areas, large tongue and groove specification, allows wood to move dried to a moisture content of between 12 and 16%. To date, wood has been the most common material used in

continuous sound seal for 40+ years provide an even longer lasting, highly durable alternative. Our high strength extruded 6005-T5 aluminum alloy panels These self-locking panels will provide a secure and

standard colours in Black and an earthy Bronze, but custom colours are also available. noise reduction requirements. Alcuf offers a couple of Speak to your dealer about options to meet your particular

Alcuf DP3 Noise Barrier

DATE: 2018-12-06

REV: 1.1

SCALE: none

812061-B DRAWING NUMBER:

designs@alcuf.com DRAWN BY:

www.alcuf.com Ottawa, Ontario, Canada Alcuf International Inc.

DP3 Connections and Assembly Details

This drawing set consists of parts A to E.





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YELLOWTRICHCHROMATE coating ASTM B-117. All nuts and bolts are 3/8" Grade 5 with a

DP3 Post Spacing

region. The regions of Ottawa, Montreal, and Toronto use a 10' post spacing for 100% solid screen infill applications in DP3. Post spacing will be calculated for your region based on fence height, location, infill, exposure, and the average wind pressures in your

Depending on the type of infill, and the height of the Noise Barrier, you may need to put in a center rail to support the infill and distribute the infill loading on the framework.

- for building design in Canada, using the hourly wind pressure 1/50. Hourly average wind pressure, in kPa are listed in the supplement to the National Building Code of Canada (2015) Climatic Information
- Fence cover material has been assumed to be 2 1/8" wood panel 100% solid infill.
- a force coefficient of 1.3, and an importance factor of 0.8. 1.4, a gust effect factor of 2.5, an open terrain exposure factor of 0.9 3. The design wind pressures are calculated using a load factor of
- 6005, with a minimum yield strength of 240 MPa. 4. Post and rail sections are extruded Aluminum shapes using alloy
- (reaffirmed 2015), Strength design in Aluminum. checked for strength in accordance with S157-05/S157.1-05 5. Post (DP3 3350/4450 series) and Rail (DP3 3300 series) sections
- 6. Structural Engineering for the Alcuf Double Post Fence System Ontario, Canada (blp.ca). (DP3) was performed by Buchan, Lawton, Parent Ltd, Ottawa,

Alcuf DP3 Noise Barrier

DATE: 2018-12-06

T

SCALE: none

REV: 1.1

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Sleeve location and Rail Expansion

drainage point. fastened (riveted) to only one rail, and not both. The sleeve connection also provides an additional the adjoining rail allows for the expansion and contraction that will occur. This is why the sleeve is Rail sleeves must be no more than 12 inches from a post. The slip-fit between one half of the sleeve and

required depending on the temperature at the time of installation. contraction of the framework at different times of the year. The Expansion Gap Table provides the Gap It is important to leave an expansion gap at each sleeve connection, to allow for expansion and

Expansion Gap Table

35 100	30 90	25 80	20 70	15 60	10 50	5 40	30	-5 20	-10 10	-15 0	-20 -5	Celsius Fahrenheit			Installation Temperature
1/8	1/8	3/16	3/16	3/16	1/4	1/4	1/4	5/16	5/16	3/8	3/8	(for 20' rails)	inches	Gap in	

Alcuf DP3 Noise Barrier

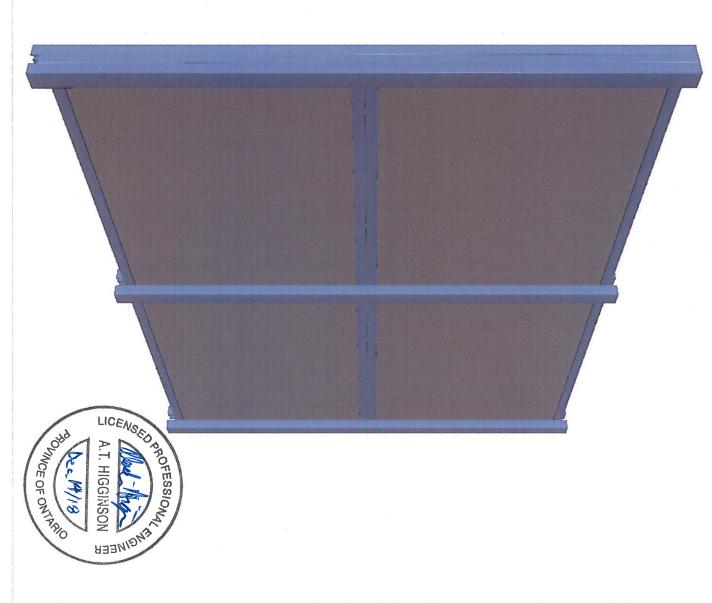
	REV: 3.0
Alcuf International Inc.	SCALE: none

DATE: 2018-12-06

812061-D

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Ottawa, Ontario, Canada www.alcuf.com



Notes

Mounting on concrete surfaces:

of new construction, casting a cavity large enough to grout posts in where prestressed concrete may be used, it is possible to use does not allow for cavities of an appropriate size, ie on bridges, or place with a non expanding grout, is the best solution. If the surface mounting brackets. When attaching to solid concrete surfaces, core drilling, or in the case

structural engineers to insure a solid footing. application. This requires data on the surface being attached to Mounting brackets are typically designed to accommodate each poured, prestressed, dimensions, etc. Each case is designed by our including the concrete specification, the construction technique ie

Noise reduction performance:

infill will be determined. types of infill. Depending on your project requirements, a suitable Alcuf is a proven framework that can accommodate many different

renewable resource that is our most common infill working itself loose, or presenting gaps. Wood is warm and a dry and is free to expand and contract (with the weather) without 20 - 30 years. The advantage of our framework is the wood remains We have infills in wood that historically can deliver noise reduction for

will in fact last as long as our framework. We have 40 year old extruded panels that are now 30+ years old and as good as new from systems with framework as good as new. We have systems with 50 years based on actual performance. perspective. There is no reason not to interpolate a life span of over both a noise reduction performance and structural performance We have infills in extruded aluminum, that are the longest lasting, and

Alcuf DP3 Noise Barrier

DATE: 2018-12-06

REV: 1.0

SCALE: none

812061-E

DRAWING NUMBER:

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designs@alcuf.com

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