## NORDIC

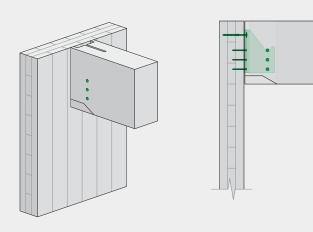


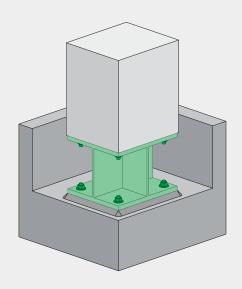
Mass Timber Construction

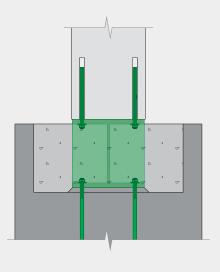
### STRUCTURAL **DETAILS**













### **ABOUT NORDIC**

### NORDIC STRUCTURES

Nordic Structures is the leading innovator in mass timber construction. Its resource comes from responsibly managed lands within the regional boreal forest. Vertical integration, from forest to structure, bolstered by Nordic's experienced design and development team, ensures consistent quality and unparalleled level of service.

### 514-871-8526

1 866 817-3418

### **HEAD OFFICE**

### **Nordic Structures**

100-1100 Canadiens-de-Montréal Avenue Montréal, Québec H3B 2S2

### www.nordic.ca

### **GENERAL INFORMATION**

info@nordic.ca

### TECHNICAL SUPPORT

arch@nordic.ca

# TABLE OF CONTENTS ii General Notes iii List of Details v Nordic X-Lam (CLT) vi Nordic Lam+ (glulam) STRUCTURE MECHANICAL, ELECTRICAL, AND PLUMBING



### GENERAL NOTES

### 1.0 General

- 1.1 This document supersedes all previous versions. For the latest version, consult nordic.ca or contact Nordic Structures.
- 1.2 The information contained in this document is provided for information purposes only. This information should not be used for any application without examination and verification of its accuracy, suitability and applicability by a licensed engineer, architect or other professional. Nordic Structures does not guarantee that the information is suitable for any general or particular use, and assumes no responsibility for the use, application of and/or reference to the information.
- 1.3 All dimensions are in millimetres (mm), unless otherwise noted.
- 1.4 For more information, consult nordic.ca or contact Nordic Structures.

### 2.0 Design of connections

- 2.1 The design of connections, including fire resistance if required, shall be in accordance with CSA 086-14, Engineering design in wood.
- 2.2 The design of connections should include considerations for structural and service performance, such as resistance, minimum distances, dimensional changes, durability, erection and fire safety, among others, as well as taking into account architectural requirements.
- 2.3 The connections shown in this document are provided for information purposes only, and conceptually. Note that many possibilities and variants are possible.





### LIST OF DETAILS

### Structure

Category	Title	Drawing	Date	Page
Structure, GL-CLT	Continuous Floor Slab on Beam	NS-DS2001	2022-02-01	1.1
Structure, GL-CLT	Single Floor Slab on Beam	NS-DS2002	2022-02-01	1.2
Structure, GL-CLT	Face-mount Hanger	NS-DS2003	2022-02-01	1.3
Structure, GL-CLT	Face-mount Hanger with Concealed Flanges	NS-DS2067	2022-02-01	1.4
Structure, GL-CLT	Knife Plate	NS-DS2004	2022-02-01	1.5
Structure, GL-CLT	Knife Plate with Cap	NS-DS2005	2022-02-01	1.6
Structure, GL-CLT	Screwed Beam to Column	NS-DS2006	2022-02-01	1.7
Structure, GL-CLT	Beam to Column with Knife Plate	NS-DS2007	2022-02-01	1.8
Structure, GL-CLT	Pocket for Beam	NS-DS2008	2022-02-01	1.9
Structure, GL-CLT	Through Pocket for Beam	NS-DS2009	2022-02-01	1.10
Structure, Wall-Foundation	Wall to Sill Plate, Screws	NS-DS2010	2022-02-01	1.11
Structure, Wall-Foundation	Wall to Sill Plate, Nailed Steel Plate	NS-DS2011	2022-02-01	1.12
Structure, Wall-Foundation	Wall to Sill Plate, Holdown	NS-DS2012	2022-02-01	1.13
Structure, Wall-Foundation	Wall to Sill Plate, Steel Angle	NS-DS2013	2022-02-01	1.14
Structure, Wall-Foundation	Wall to Foundation, Holdown	NS-DS2014	2022-02-01	1.15
Structure, Wall-Foundation	Wall to Foundation, Nailed Steel Angle	NS-DS2015	2022-02-01	1.16
Structure, Wall-Foundation	Wall to Foundation, Screwed Steel Angle	NS-DS2016	2022-02-01	1.17
Structure, Wall-Foundation	Wall to Foundation, Nailed Steel Angle and Steel C Shape	NS-DS2068	2022-02-01	1.18
Structure, Wall-Foundation	Wall to Foundation, Nailed C Shape	NS-DS2017	2022-02-01	1.19
Structure, Floor/Roof-Wall	Ledger	NS-DS2018	2022-02-01	1.20
Structure, Floor/Roof-Wall	Steel Angle	NS-DS2019	2022-02-01	1.21
Structure, Floor/Roof-Wall	Screwed Floor/Roof Slab to Wall	NS-DS2020	2022-02-01	1.22
Structure, Floor/Roof-Wall	Screwed Wall to Continuous Floor Slab to Wall	NS-DS2021	2022-02-01	1.23
Structure, Floor/Roof-Wall	Screwed Wall to Single Floor Slab to Wall	NS-DS2022	2022-02-01	1.24
Structure, Floor/Roof-Wall	Wall to Floor Slab with Steel Square to Wall	NS-DS2023	2022-02-01	1.25
Structure, Floor/Roof-Wall	Wall to Floor Slab with Steel Square to Notched Wall	NS-DS2024	2022-02-01	1.26
Structure, Floor/Roof-Wall	Sloped Roof Slab to Wall	NS-DS2025	2022-02-01	1.27
Structure, Lintel	CLT Lintel	NS-DS2026	2022-02-01	1.28
Structure, Lintel	Glulam Lintel	NS-DS2027	2022-02-01	1.29
Structure, Panel-Panel	Butt Joint, One Row of Nails	NS-DS2029	2022-04-21	1.30
Structure, Panel-Panel	Butt Joint, Two Rows of Nails	NS-DS2030	2022-04-21	1.31
Structure, Panel-Panel	Butt Joint, 45° Screws	NS-DS2069	2022-02-01	1.32
Structure, Panel-Panel	Half-lap Joint	NS-DS2031	2022-02-01	1.33
Structure, Wall-Wall	Corner Joint with 90° Screws	NS-DS2032	2022-02-01	1.34
Structure, Wall-Wall	Notched Corner Joint with 90° Screws	NS-DS2033	2022-02-01	1.35
Structure, Wall-Wall	Corner Joint with 45° Screws	NS-DS2034	2022-02-01	1.36
Structure, Wall-Wall	T-joint with 90° Screws	NS-DS2035	2022-02-01	1.37
Structure, Wall-Wall	T-joint with 45° Screws	NS-DS2036	2022-02-01	1.38
Structure, Base Plate	Base Plate with Steel Square	NS-DS2037	2022-02-01	1.39
Structure, Base Plate	Base Plate with Knife Plate and Four Mechanical Anchors	NS-DS2038	2022-02-01	1.40





### LIST OF DETAILS (CONTINUED)

### Structure (continued)

Category	Title	Drawing	Date	Page
Structure, Base Plate	Base Plate with Knife Plate and Four Hidden Mechanical Anchors	NS-DS2039	2022-02-01	1.41
Structure, Base Plate	Two-storey Base Plate with Knife Plate	NS-DS2040	2022-02-01	1.42
Structure, Base Plate	Two-storey Base Plate with Glued-in Rod	NS-DS2041	2022-02-01	1.43
Structure, Base Plate	Two-storey Base Plate with Glued-in Rod and Pocket	NS-DS2042	2022-02-01	1.44
Structure, Base Plate	Two-storey Base Plate with Glued-in Rod and Half-height Pocket	NS-DS2070	2022-02-01	1.45
Structure, Beam-Column	Double Member Beam with Spacing	NS-DS2043	2022-02-01	1.46
Structure, Beam-Column	Double Member Beam Without Spacing	NS-DS2044	2022-02-01	1.47
Structure, Beam-Column	Knife Plate with Shear Key	NS-DS2045	2022-02-01	1.48
Structure, Beam-Column	Knife Plate with Shear Key and Bearing Plate	NS-DS2046	2022-02-01	1.49
Structure, Beam-Column	Single Beam, Bridle Joint	NS-DS2047	2022-02-01	1.50
Structure, Beam-Column	Continuous Beam, Bridle Joint	NS-DS2048	2022-02-01	1.51
Structure, Beam-Column	Half-lap Joint	NS-DS2049	2022-02-01	1.52
Structure, Beam-Column	Face-mount Hanger	NS-DS2050	2022-02-01	1.53
Structure, Beam-Column	Face-mount Hanger with Concealed Flanges	NS-DS2051	2022-02-01	1.54
Structure, Beam-Column	Beam on Cleat	NS-DS2053	2022-02-01	1.55
Structure, Girt-Column	Knife Plate	NS-DS2055	2022-02-01	1.56
Structure, Girt-Column	Steel Plates	NS-DS2056	2022-02-01	1.57
Structure, Girt-Column	45° Screws	NS-DS2057	2022-02-01	1.58
Structure, Joist-Beam	Nailed Face-mount Hanger	NS-DS2058	2022-02-01	1.59
Structure, Joist-Beam	Nailed Face-mount Hanger with Concealed Flanges	NS-DS2059	2022-02-01	1.60
Structure, Joist-Beam	Bolted Face-mount Hanger	NS-DS2060	2022-02-01	1.61
Structure, Joist-Beam	Knife Plate with Saddle	NS-DS2061	2022-02-01	1.62
Structure, Joist-Beam	Knife Plate	NS-DS2062	2022-02-01	1.63
Structure, Joist-Beam	45° Screws – Option 1	NS-DS2063	2022-02-01	1.64
Structure, Joist-Beam	45° Screws – Option 2	NS-DS2064	2022-02-01	1.65
Structure, Joist-Beam	Joist on Beam with 45° Screws and Glued-in Rod	NS-DS2065	2022-02-01	1.66
Structure, Hybrid	Decking to Steel Beam	NS-DS2066	2022-02-01	1.67

### Mechanical, electrical, and plumbing

Category	Title	Drawing	Date	Page
Mechanical, Electrical, and Plumbing	Vertical, Double-member Beam	NS-DS2501	2022-02-01	2.1
Mechanical, Electrical, and Plumbing	Horizontal, Pre-machined Opening	NS-DS2502	2022-02-01	2.2
Mechanical, Electrical, and Plumbing	Horizontal, Electrical Box with 38 mm x 64 mm Wood Studs	NS-DS2503	2022-02-01	2.3
Mechanical, Electrical, and Plumbing	Horizontal, Raised Floor	NS-DS2504	2022-02-01	2.4
Mechanical, Electrical, and Plumbing	Horizontal, Suspended Ceiling	NS-DS2505	2022-02-01	2.5
Mechanical, Electrical, and Plumbing	Horizontal, Joist on Beam	NS-DS2506	2022-02-01	2.6
Mechanical, Electrical, and Plumbing	Horizontal, Bevelled Beam	NS-DS2507	2022-02-01	2.7
Mechanical, Electrical, and Plumbing	Multi-residential Unit Diagram – Option 1	NS-DS2508	2022-02-01	2.8
Mechanical, Electrical, and Plumbing	Multi-residential Unit Diagram – Option 2	NS-DS2509	2022-02-01	2.9



nordic.ca



### CLT



### NORDIC X-LAM CROSS-LAMINATED TIMBER

Nordic X-Lam cross-laminated timber is made of at least three orthogonal layers of graded sawn lumber that are laminated by gluing with structural adhesives.

### **SLABS AND PANELS**

### Layup combinations

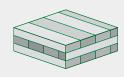
89-3s, 105-3s, 143-5s, 175-5s, 197-7s, 213-7l, 245-7s, 245-7l and 267-9l

### Maximum sizes

2.70 × 19.5 m (106-1/4 in. × 64 ft)

### Stress grade

E1 (L 1950Fb and T No. 3/Stud)



# 3 LAYERS 7 LAYERS 9 LAYERS 9 LAYERS 197-7s 267-91 213-71 245-7s 5 LAYERS 175-5s 175-5s





### GLULAM



### NORDIC LAM+ GLUED-LAMINATED TIMBER

Nordic Lam+ glued-laminated timber of architectural appearance grade consists of small wood laminations bonded together in parallel using structural adhesives.

### **BEAMS AND COLUMNS**

### Widths\*

38, 86, 137, 184, 215, 241, 292, 346, 395, 448, 502, 552 and 603 mm (1-1/2, 3-3/8, 5-3/8, 7-1/4, 8-1/2, 9-1/2, 11-1/2, 13-5/8, 15-1/2, 17-5/8, 19-3/4, 21-3/4 and 23-3/4 in.)

### Depths\*

From 67 to 2435 mm (2-5/8 to 95-7/8 in.)

### Lengths\*

Up to 24.4 m (80 ft)

### Stress grade

24F-ES/NPG



### DECKING

### Thicknesses\*

38, 44, 54 and 89 mm (1-1/2, 1-3/4, 2-1/8 and 3-1/2 in.)

### Widths

203, 305 and 406 mm (8, 12 and 16 in.)

### Lengths

Up to 18.9 m (62 ft)

### Stress grades

ES11, except 89 mm thickness in 20F-ES/CPG





<sup>\*</sup> Larger sizes available upon request

<sup>\*</sup> Larger sizes available upon request

## NORDIC

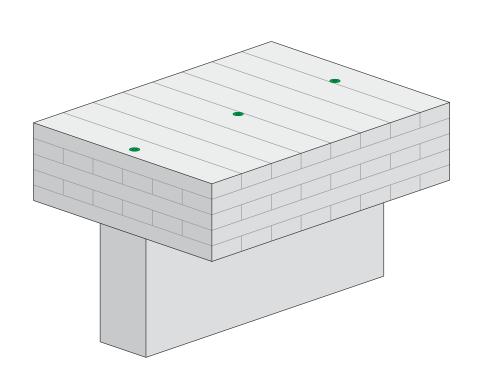


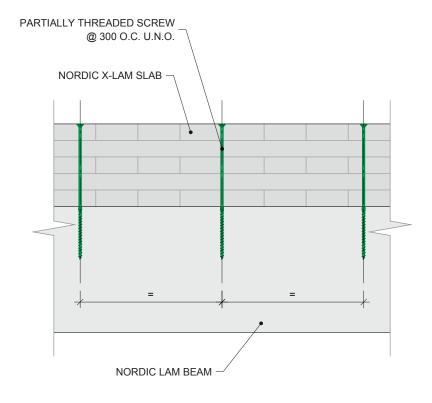
2022-02-01

**STRUCTURE** 





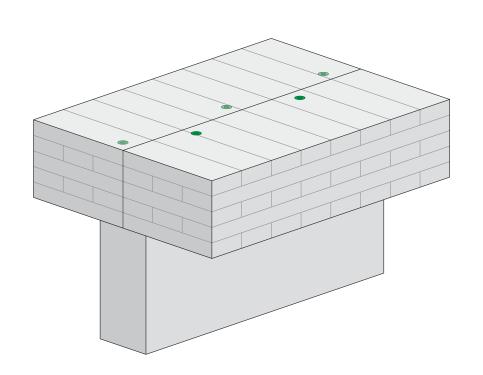


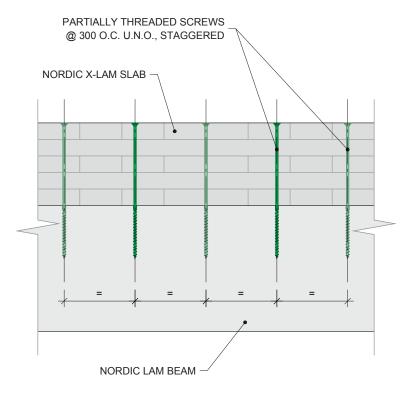


NORDIC STRUCTURES	
nordic.ca	



Continuous Floor Slab on Beam		DRAWING NS-DS2001-0	CA-en	
CATEGORY	SCALE	DATE	PAGE	
Structure, GL-CLT	-	2022-02-01	1.1	









IIILE	
Single Floor Slab on	Beam

CATEGORY

Structure, GL-CLT

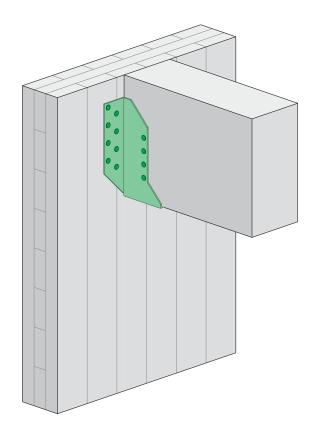
DRAWING NS-DS2002-CA-en

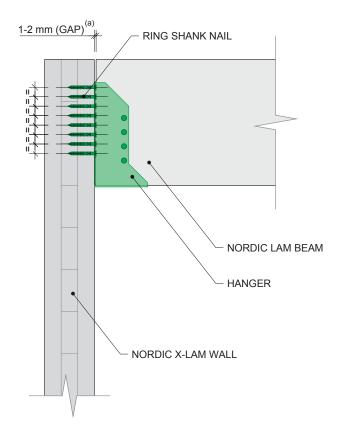
DATE PAGE

1.2

2022-02-01

SCALE



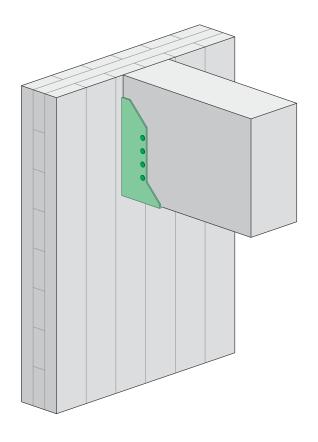


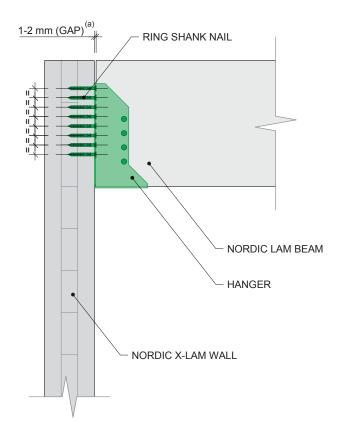
a) The 1-2 mm gap may not be required depending on the detail on the other side of the beam.





TITLE Face-mount Hanger		DRAWING NS-DS2003-CA-e		
CATEGORY	SCALE	DATE	PAGE	
Structure, GL-CLT	-	2022-02-0	1 1.3	



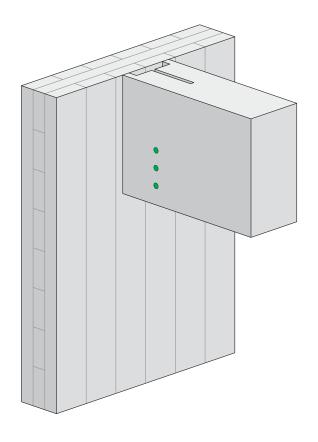


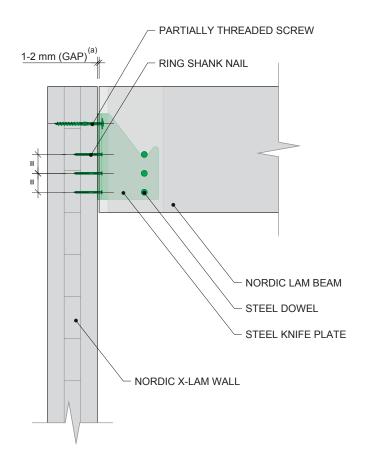
a) The 1-2 mm gap may not be required depending on the detail on the other side of the beam.





τιτιε Face-mount Hanger with Concealed Flanges		DRAWING NS-DS2067	-CA-en	
CATEGORY Structure, GL-CLT	SCALE	DATE 2022-02-01	PAGE 1.4	



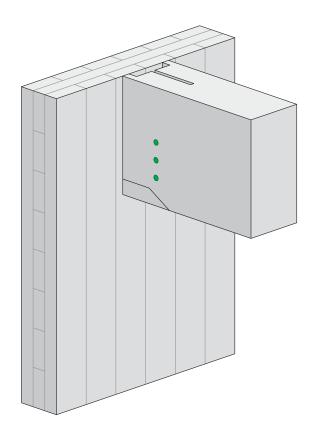


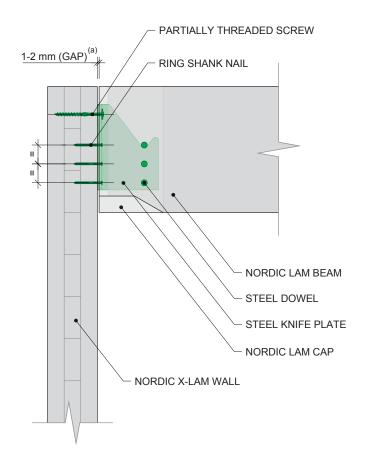
a) The 1-2 mm gap may not be required depending on the detail on the other side of the beam.





Knife Plate		NS-DS2004-CA-en		
CATEGORY	SCALE	DATE	PAGE	
Structure, GL-CLT	-	2022-02-01	1.5	



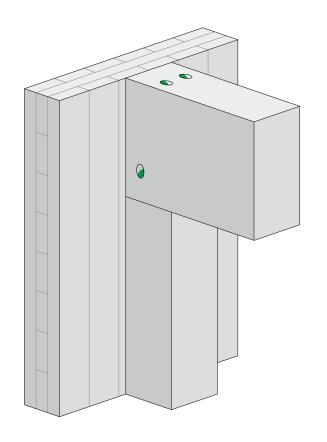


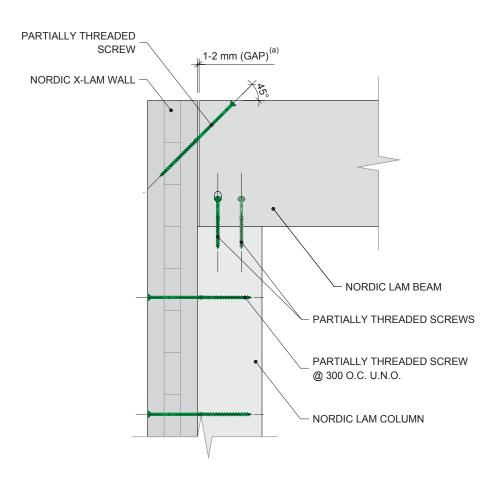
a) The 1-2 mm gap may not be required depending on the detail on the other side of the beam.





Knife Plate with Cap		NS-DS2005-CA-en		า	
CATEGORY	SCALE	DATE	PAGE		
Structure, GL-CLT	-	2022-02-01	1.6		



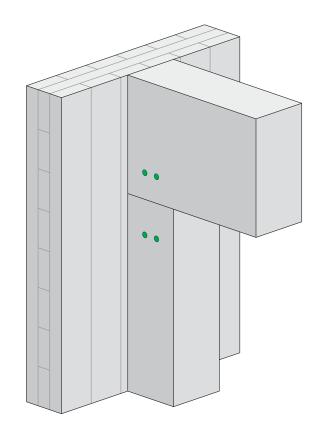


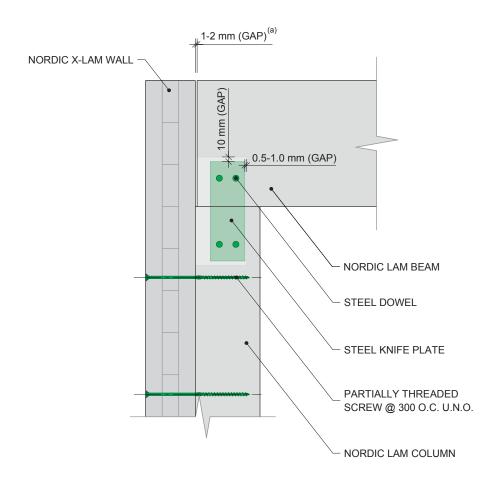
a) The 1-2 mm gap may not be required depending on the detail on the other side of the beam.





Screwed Beam to Column		DRAWING NS-DS2006-0	CA-en
CATEGORY	SCALE	DATE	PAGE
Structure, GL-CLT	-	2022-02-01	1.7



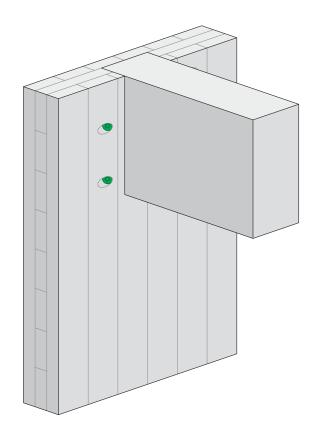


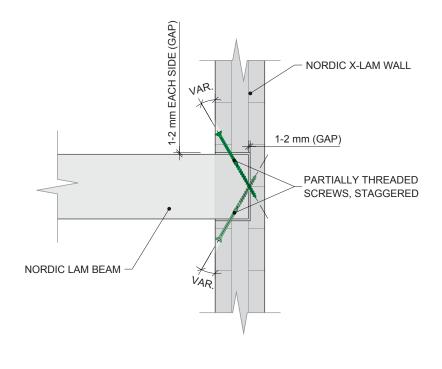
 a) The 1-2 mm gap may not be required depending on the detail on the other side of the beam.





TITLE Beam to Column with Knife Plate		DRAWING NS-DS200	7-CA-en	
CATEGORY	SCALE	DATE	PAGE	
Structure, GL-CLT	-	2022-02-01	1.8	

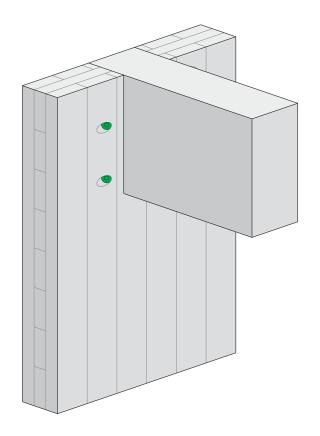


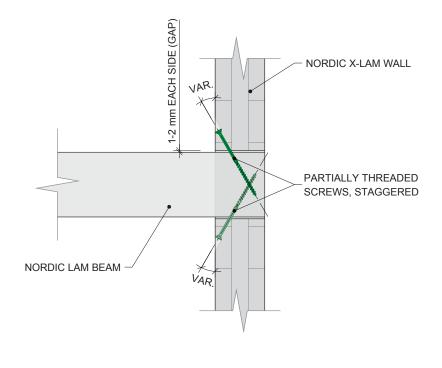


NORDIC STRUCTURES
nordic.ca



Pocket for Beam		DRAWING NS-DS2008	3-CA-en	
CATEGORY	SCALE	DATE	PAGE	
Structure, GL-CLT	-	2022-02-01	1.9	





SCALE





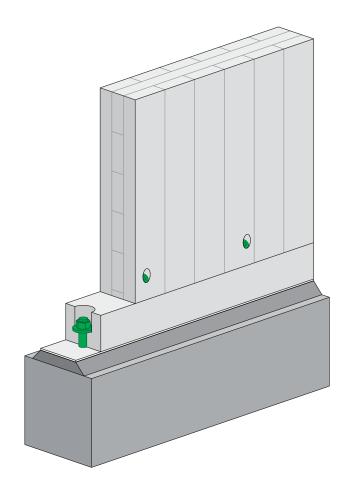
IIILE	
Through Pocket for Beam	1

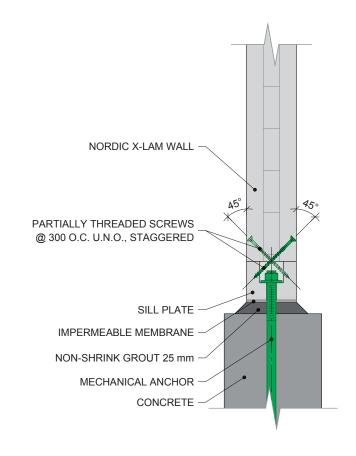
CATEGORY

DRAWING NS-DS2009-CA-en

Structure, GL-CLT

DATE PAGE 2022-02-01 1.10

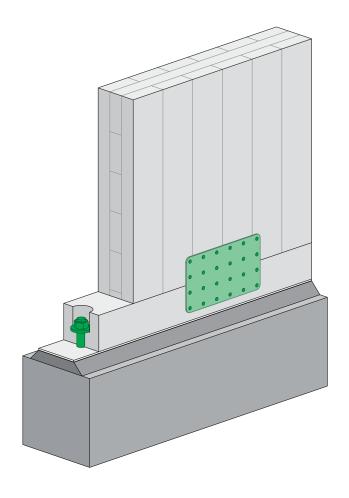


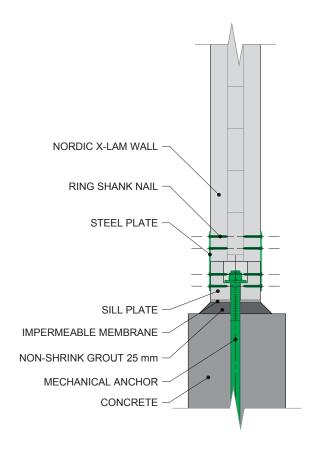






Wall to Sill Plate, Screws		DRAWING NS-DS2010-	CA-en	
CATEGORY	SCALE	DATE	PAGE	
Structure, Wall-Foundation	-	2022-02-01	1.11	









IIILE
Wall to Sill Plate, Nailed Steel Plate

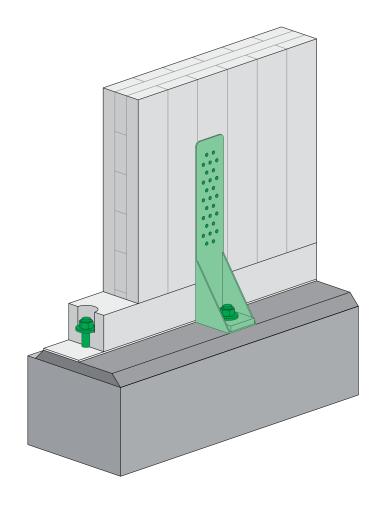
NS-DS2011-CA-en

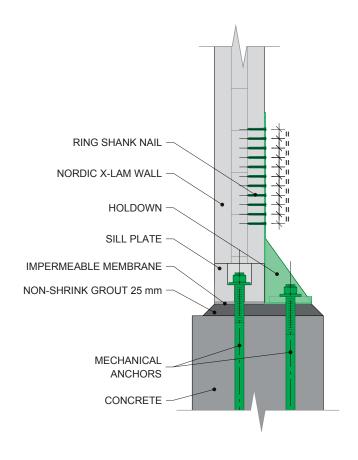
DRAWING

CATEGORY Structure, Wall-Foundation

DATE SCALE

PAGE 2022-02-01 1.12

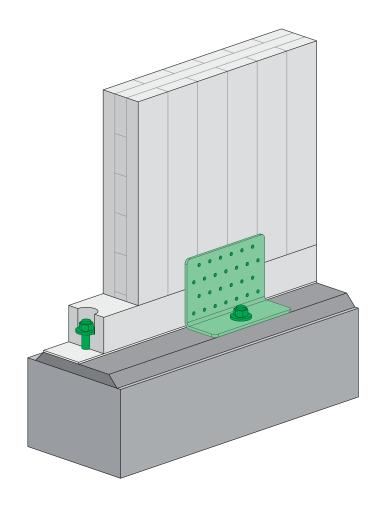


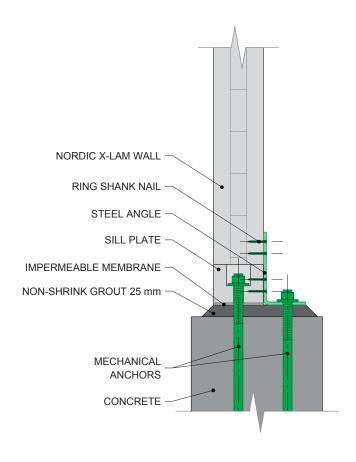


NORDIC STRUCTURES	
nordic.ca	



Wall to Sill Plate, Holdown		DRAWING NS-DS2012-0	CA-en	
CATEGORY	SCALE	DATE	PAGE	
Structure, Wall-Foundation	-	2022-02-01	1.13	









TITLE	
Wall to Sill Plate, Steel Angle	
CATEGORY	SCALE
Structure, Wall-Foundation	-

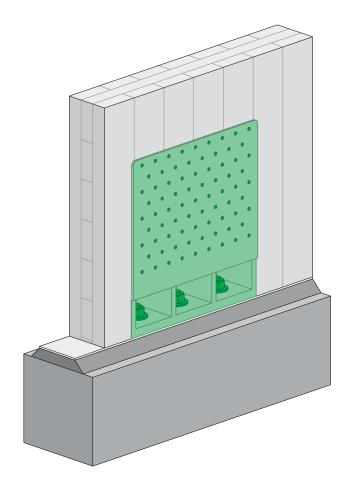
NS-DS2013-CA-en

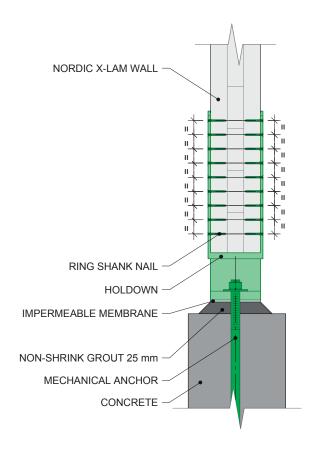
PAGE

1.14

DATE

2022-02-01

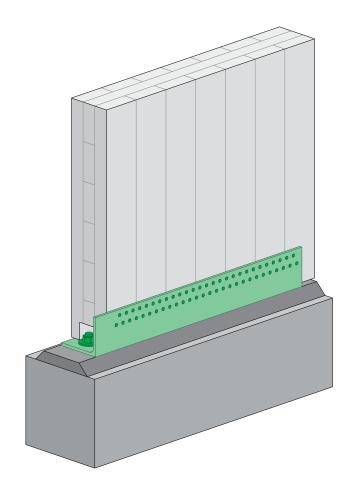


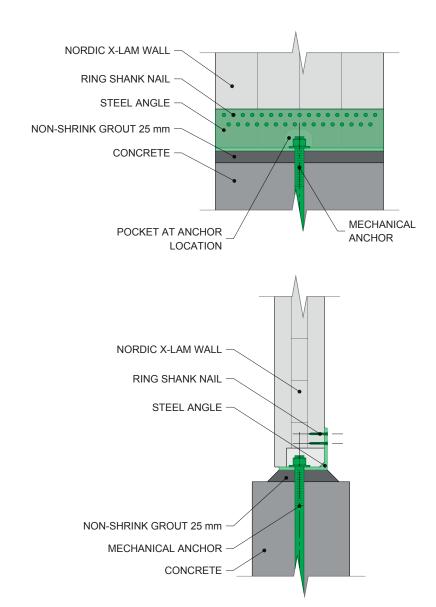






ਸਸ਼E Wall to Foundation, Holdown		DRAWING NS-DS2014-0	CA-en	
CATEGORY	SCALE	DATE	PAGE	
Structure, Wall-Foundation	-	2022-02-01	1.15	







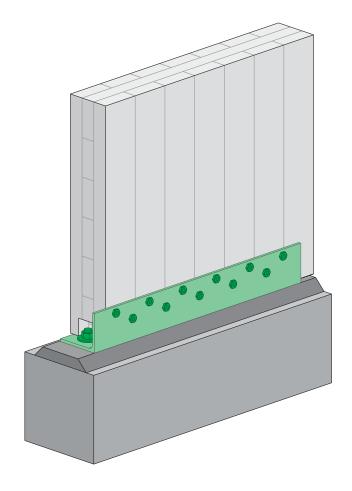


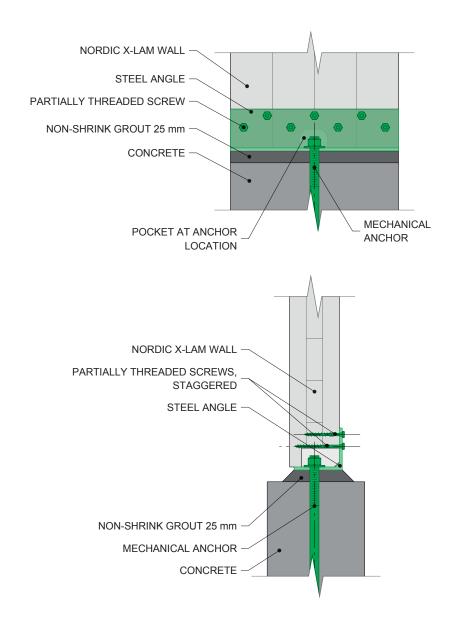
IIILE
Wall to Foundation, Nailed Steel Angle
CATEGORY

NS-DS2015-CA-en

CATEGORI	
Structure,	Wall-Foundation

DRAWING





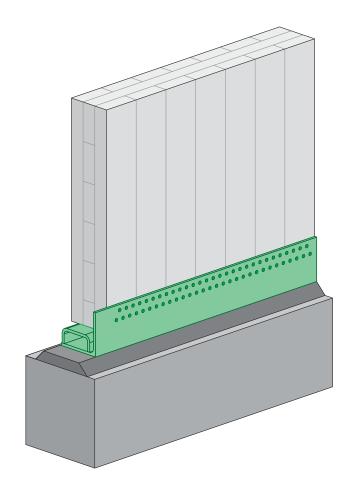
### Note:

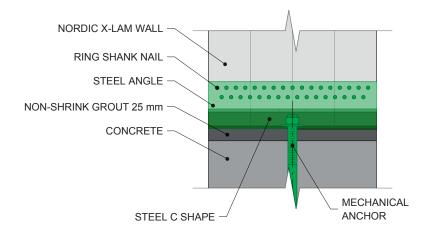
1. This assembly detail offers a resistance to forces acting perpendicularlry to the foundation wall.

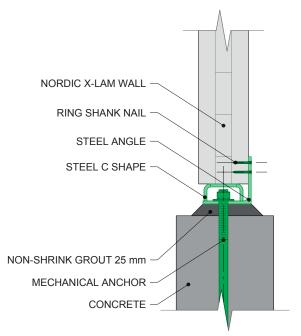
NORDIC STRUCTURES
nordic.ca



Wall to Foundation, Screwed Steel Angle		DRAWING NS-DS2016-CA-en		
CATEGORY	SCALE	DATE	PAGE	_
Structure, Wall-Foundation	-	2022-02-01	1.17	











CATEGORY

TITLE
Wall to Foundation, Nailed Steel Angle and Steel C Shape

SCALE

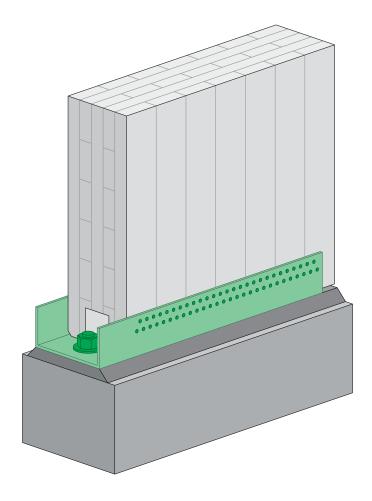
NS-DS2068-CA-en

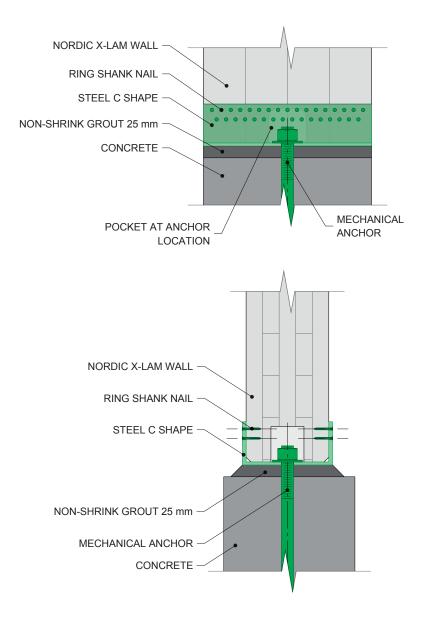
Structure, Wall-Foundation

DATE 2022-02-01

DRAWING

PAGE 1.18





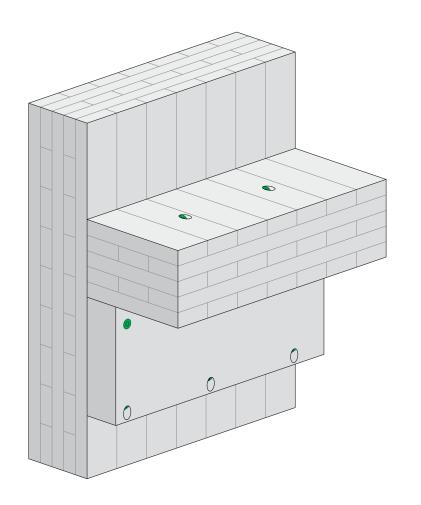
### Note:

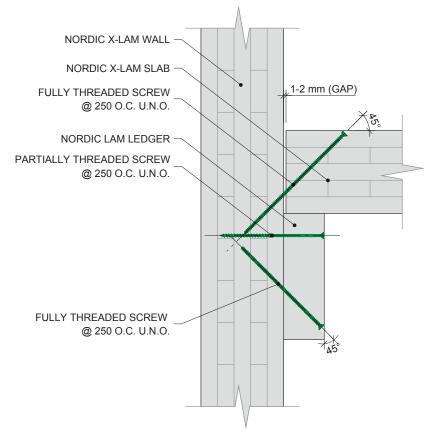
1. For an exterior wall on foundation, careful consideration should be given to waterproofing and drainage at the junction between wall and steel C shape.

NORDI STRUCTURES	C
nordic.ca	



Wall to Foundation, Nailed C Shape		DRAWING NS-DS2017-0	CA-en	
CATEGORY	SCALE	DATE	PAGE	_
Structure, Wall-Foundation	-	2022-02-01	1.19	





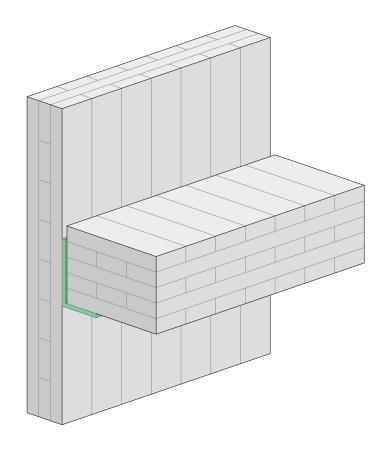
NORDIC STRUCTURES
nordic.ca

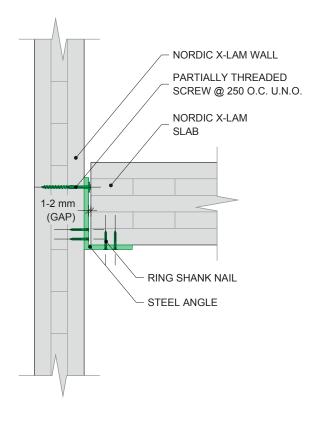


Ledger	
CATEGORY	SCALE
Structure, Floor/Roof-Wall	-

1.20

2022-02-01





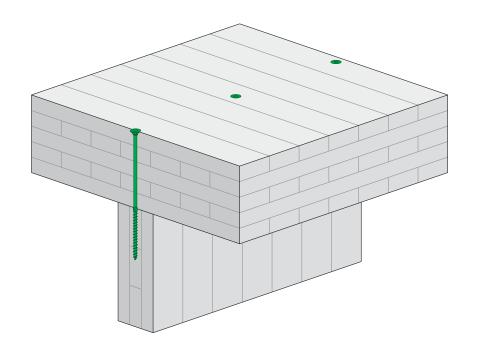
NORDIC STRUCTURES
nordic.ca

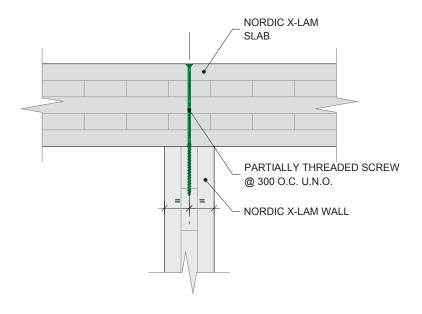


TITLE	
Steel Angle	
CATEGORY	
Structure, Floor/Roof-Wall	

DRAWING		
NS-DS2019-0	CA-en	
DATE	PAGE	
2022-02-01	1.21	

SCALE

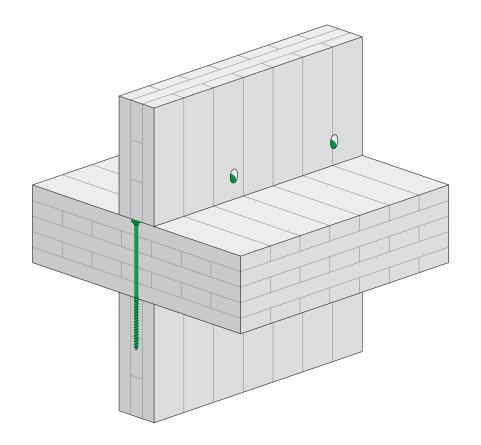


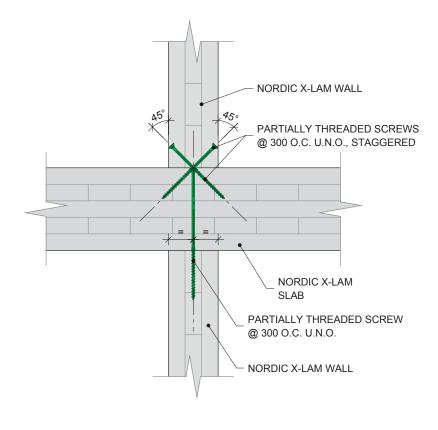






Screwed Floor/Roof Slab to Wall		DRAWING NS-DS2020-CA-en		
CATEGORY	SCALE	DATE	PAGE	
Structure, Floor/Roof-Wall	-	2022-02-01	1.22	

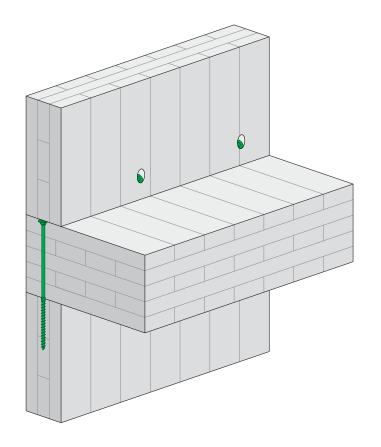


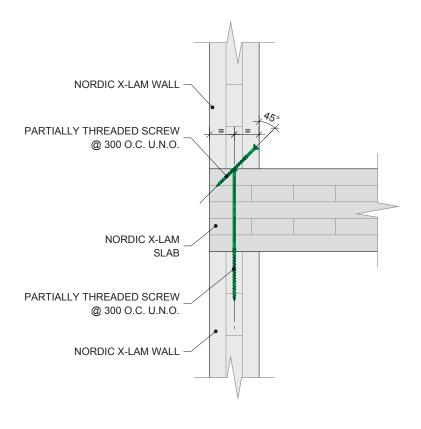






Screwed Wall to Continuous Floor Slab to Wall		DRAWING NS-DS2021	-CA-en	
CATEGORY	SCALE	DATE	PAGE	
Structure, Floor/Roof-Wall	-	2022-02-01	1.23	









TITLE	
Screwed Wall to Single Floor Slab to Wa	Ш

CATEGORY

NS-DS2022-CA-en

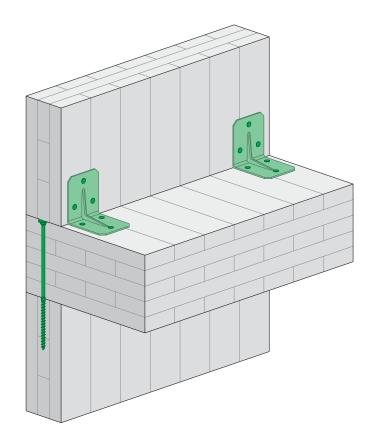
Structure, Floor/Roof-Wall

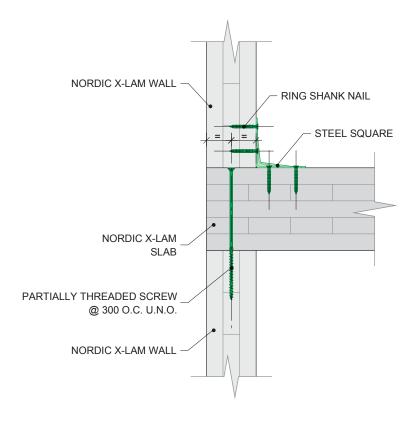
DATE SCALE

DRAWING

2022-02-01

PAGE 1.24









IIILE	
Wall to Floor Slab with Steel Square to Wa	Ш

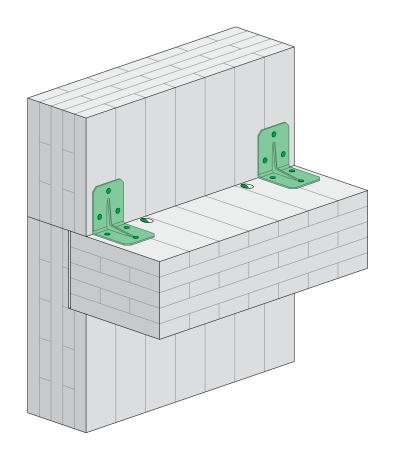
DRAWING NS-DS2023-CA-en

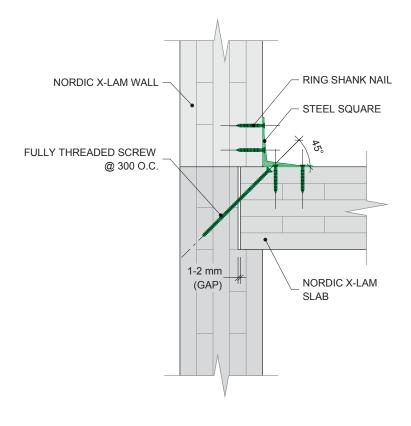
CATEGORY Structure, Floor/Roof-Wall

DATE SCALE

PAGE 2022-02-01

1.25









TITLE	
Wall to Floor Slab with Steel Square to Notched V	∕all

SCALE

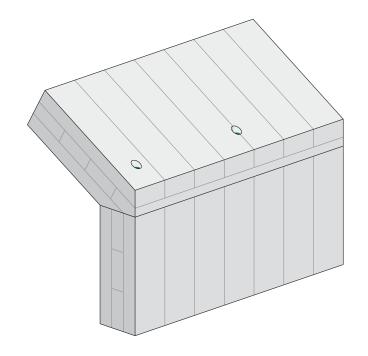
NS-DS2024-CA-en PAGE

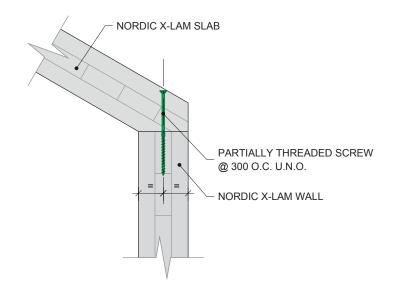
CATEGORY Structure, Floor/Roof-Wall DATE

2022-02-01

DRAWING

1.26





DRAWING

2022-02-01

DATE

NS-DS2025-CA-en

PAGE

1.27

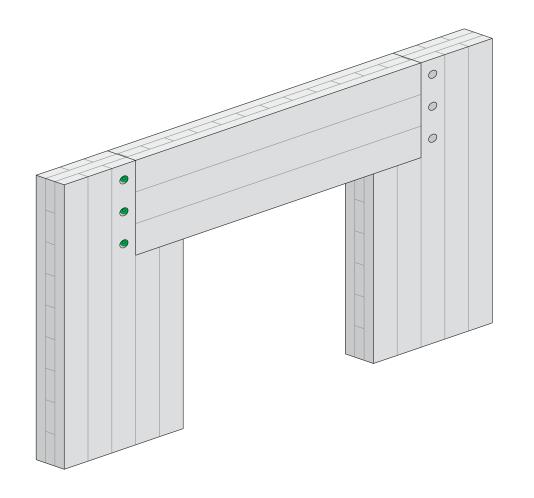


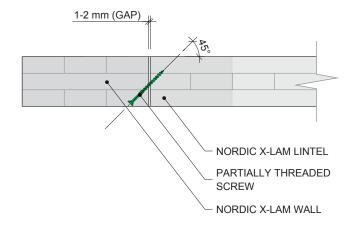


TITLE	
Sloped	Roof Slab to Wall

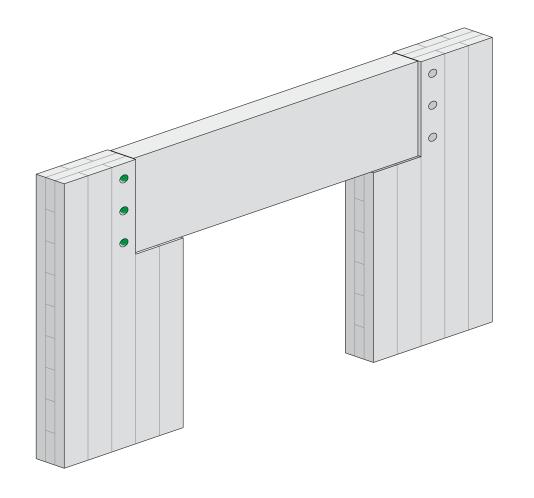
Structure, Floor/Roof-Wall

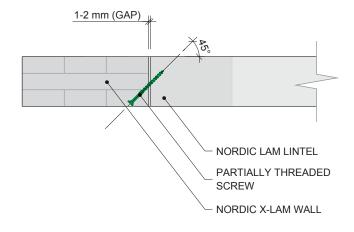
CATEGORY SCALE



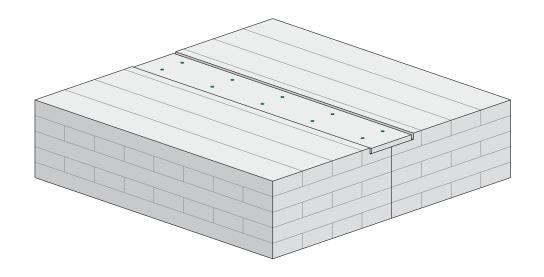


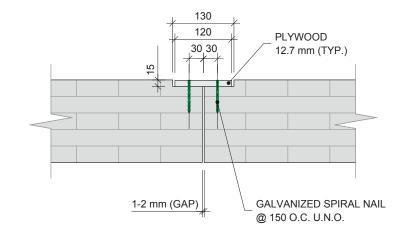
		TITLE		DRAWING	
NORDIC		CLT Lintel		NS-DS2026-0	CA-en
	NS-DS2 ▮♣▮				
STRUCTURES	DETAILS	CATEGORY	SCALE	DATE	PAGE
nordic.ca	NORDIC LAM+ NORDIC X-LAM	Structure, Lintel	-	2022-02-01	1.28





NORDIC		TITLE Glulam Lintel		NS-DS2027-0	CA-en
STRUCTURES	NS-DS2 ##	CATEGORY	SCALE	DATE	PAGE
nordic.ca	NORDIC LAM+ NORDIC X-LAM	Structure, Lintel	-	2022-02-01	1.29

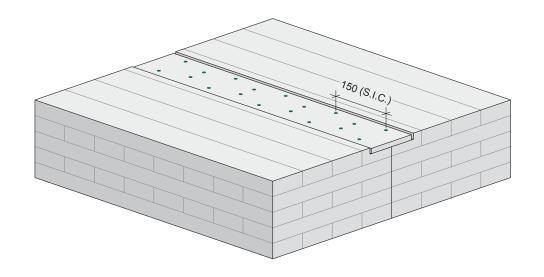


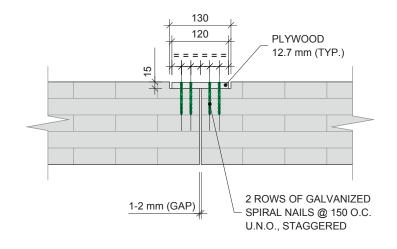






Butt Joint, One Row of Nails		DRAWING NS-DS2029-CA-en		
CATEGORY	SCALE	DATE	PAGE	
Structure, Panel-Panel	-	2022-04-21	1.30	

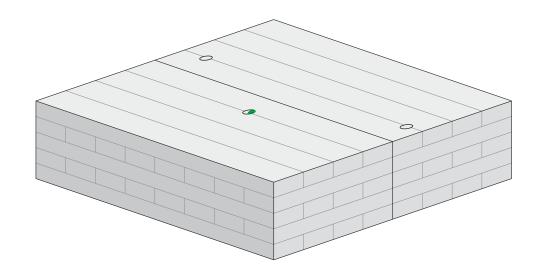


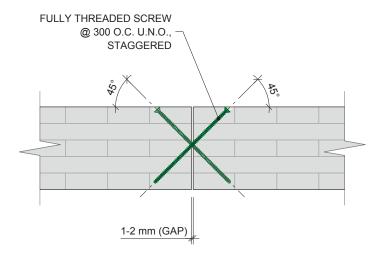


NORDIC STRUCTURES	
nordic.ca	



Butt Joint, Two Rows of Nails		NS-DS2030-	CA-en		
CATEGORY	SCALE	DATE	PAGE		
Structure, Panel-Panel	-	2022-04-21	1.31		





NORDIC STRUCTURES	
nordic.ca	



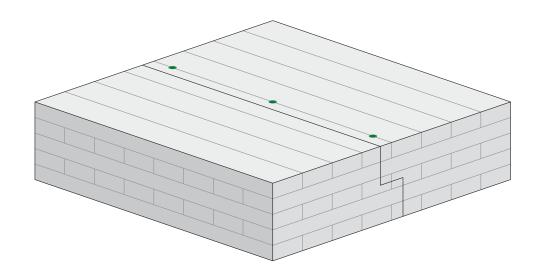
TITLE Butt Joint, 45° Screws

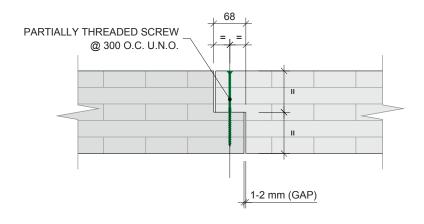
CATEGORY Structure, Panel-Panel DRAWING

NS-DS2069-CA-en

DATE SCALE PAGE

2022-02-01





SCALE

NORDIC STRUCTURES
nordic.ca



тітье Half-lap Joint	
CATEGORY	
Structure, Panel-Panel	

DRAWING
NS-DS2031-CA-en

DATE

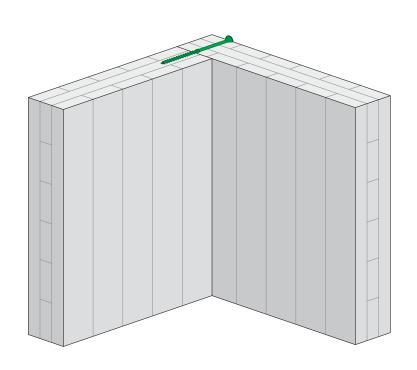
DATE

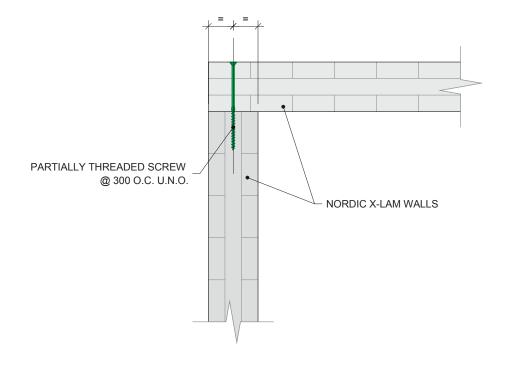
DATE

DATE

DATE

1.33

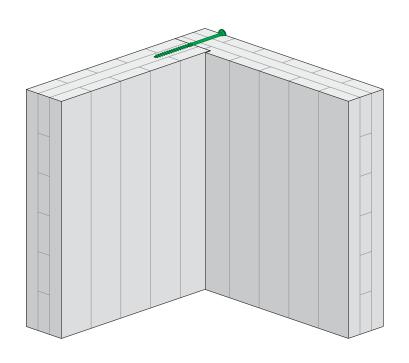


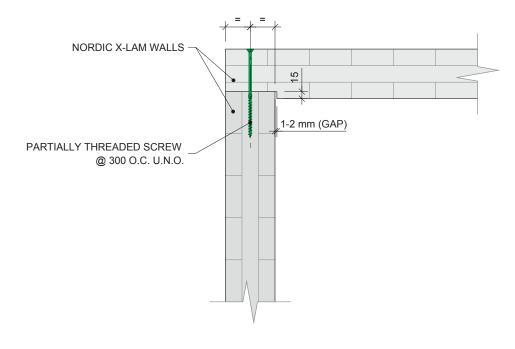


NORDIC STRUCTURES	
nordic.ca	



Corner Joint with 90° Screws		DRAWING NS-DS2032-	CA-en	
CATEGORY	SCALE	DATE	PAGE	
Structure, Wall-Wall	-	2022-02-01	1.34	

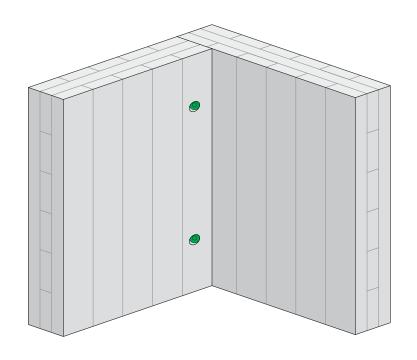


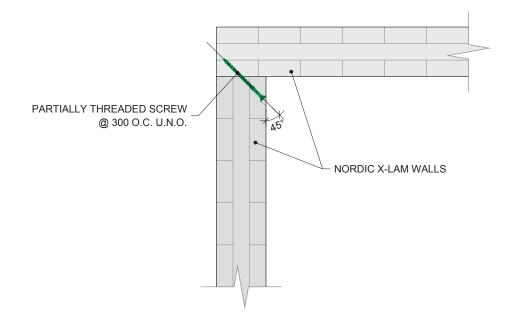






Notched Corner Joint with 90° Screws		DRAWING NS-DS2033-0	DRAWING NS-DS2033-CA-en	
	SCALE	DATE	PAGE	
Structure, Wall-Wall	-	2022-02-01	1.35	









TITLE Corner Joint with 45° Screws

CATEGORY

NS-DS2034-CA-en DATE PAGE

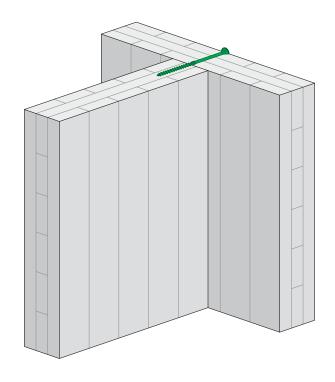
1.36

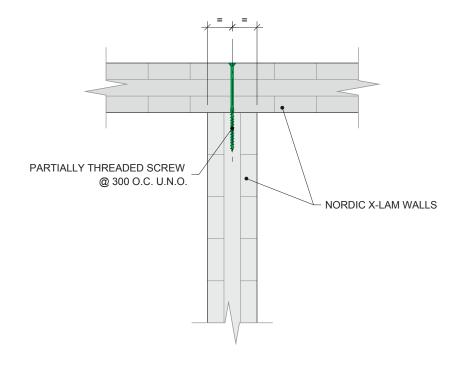
DRAWING

Structure, Wall-Wall

SCALE

2022-02-01





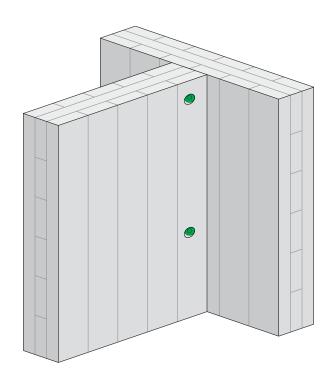
NORDIC STRUCTURES	
nordic.ca	

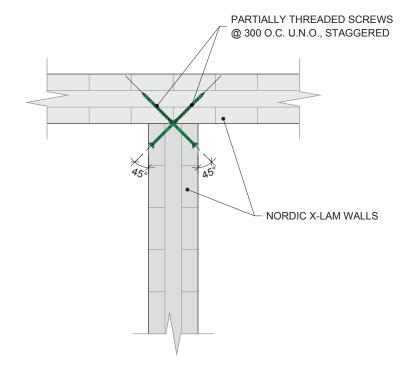


T-joint with 90° Screws

CATEGORY
Structure, Wall-Wall

DRAWING NS-DS2035-CA-en









CATEGORY

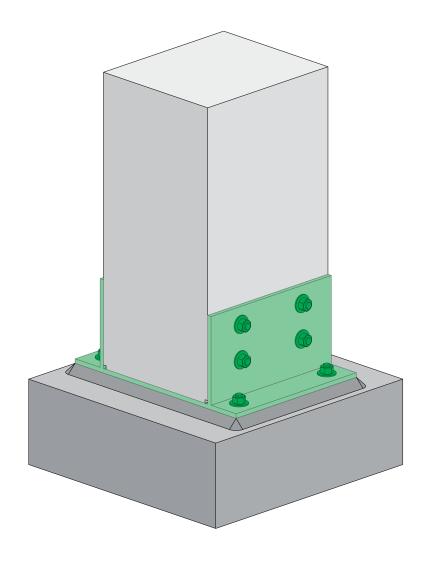
DRAWING NS-DS2036-CA-en

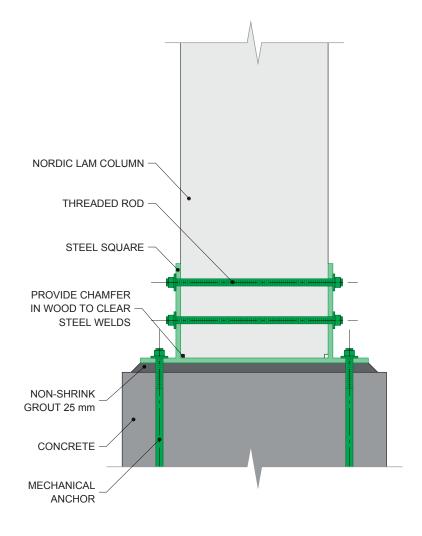
Structure, Wall-Wall

DATE SCALE

2022-02-01

PAGE 1.38

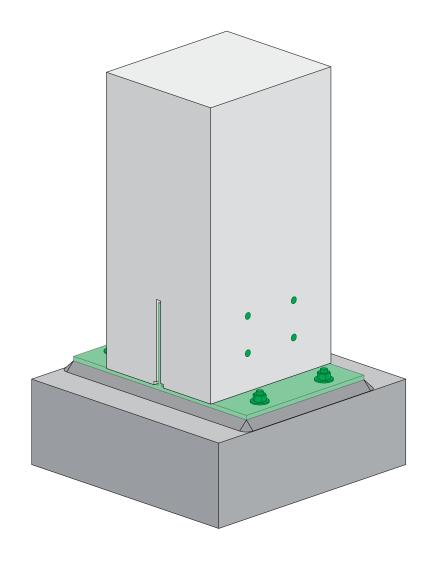


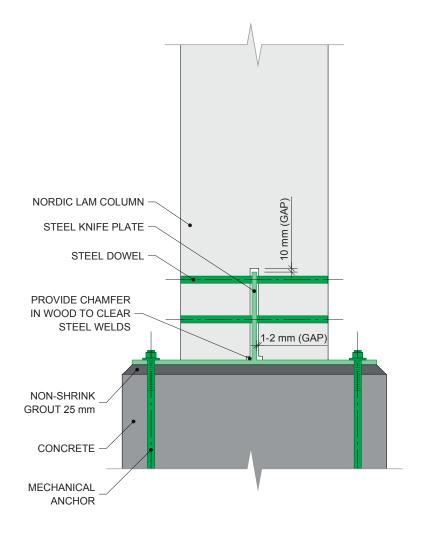






Base Plate with Steel Square		DRAWING NS-DS2037-CA-en		
CATEGORY	SCALE	DATE	PAGE	
Structure, Base Plate	-	2022-02-01	1.39	





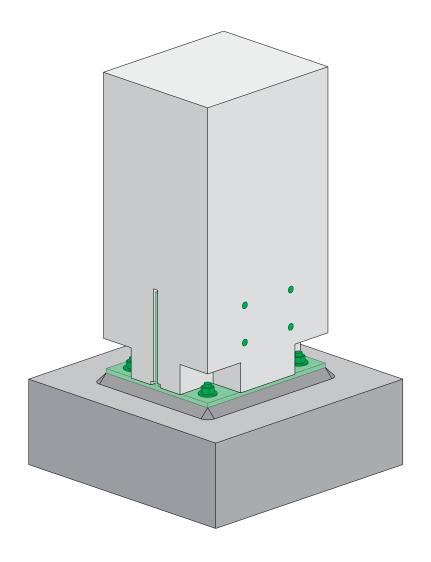


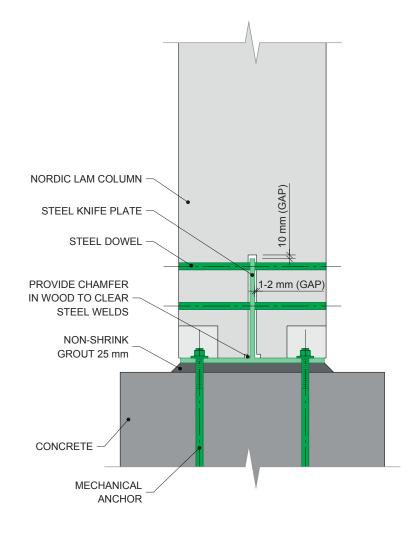


TITLE	
Base Plate with Knife Plate and Four Mechanical Anchors	

DRAWING	
NS-DS2038-CA-en	

CATEGORY
Structure, Base Plate





NORDIC STRUCTURES
nordic.ca



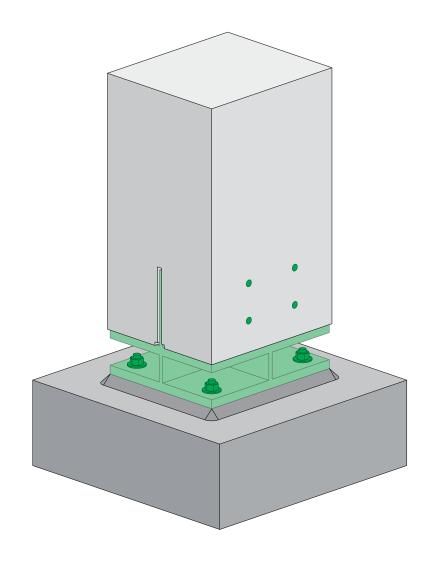
TITLE	
Base Plate with Knife Plate and Four Hidden Mechanica	I Anchors

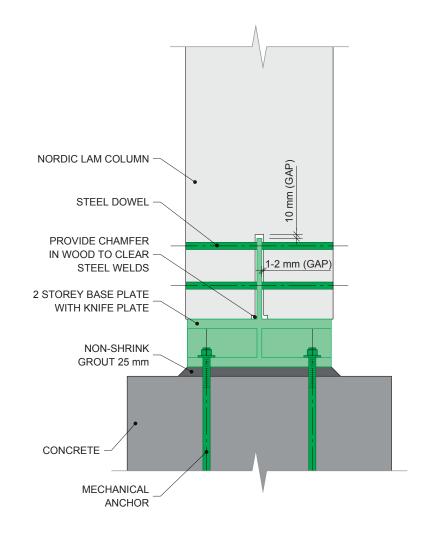
NS-DS2039-CA-en

DRAWING

CATEGORY SCALE
Structure, Base Plate -

DATE PAGE 2022-02-01 1.41

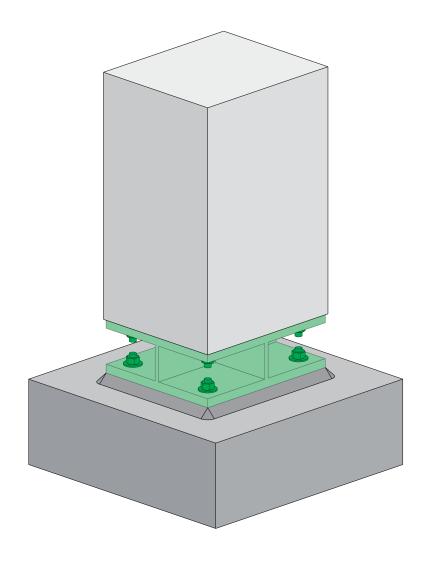


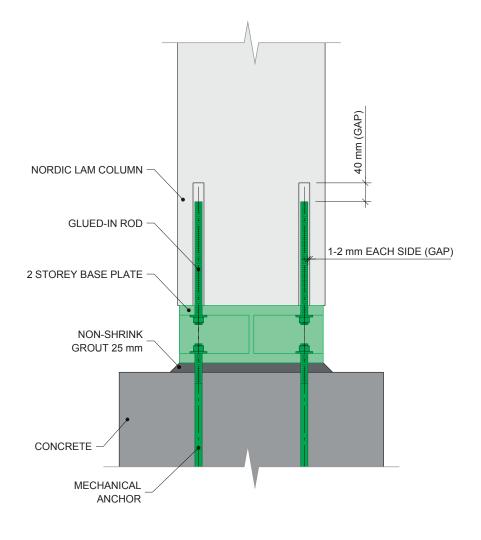






TITLE		DRAWING		
Two-storey Base Plate with Knife Plate		NS-DS2040-CA-en		
CATEGORY	SCALE	DATE	PAGE	
Structure Base Plate	_	2022-02-01	1 42	









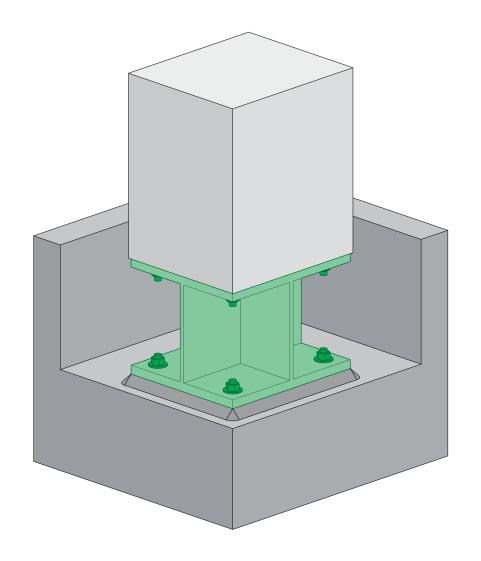
TITLE	
Two-storey Base Plate with Glued-in Rod	

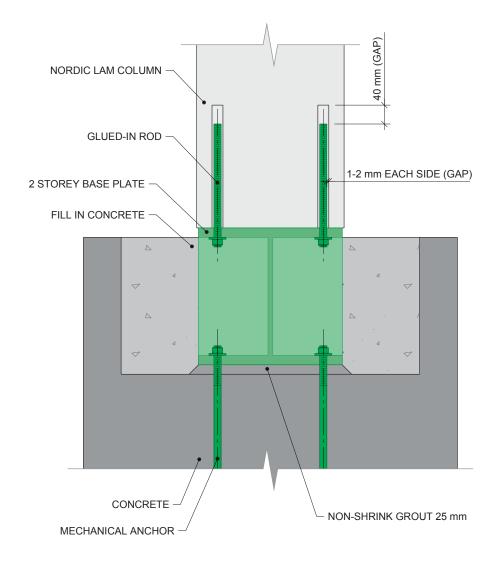
NS-DS2041-CA-en

CATEGORY Structure, Base Plate SCALE DATE

DRAWING

PAGE 1.43 2022-02-01





SCALE

NORDIC STRUCTURES
nordic.ca



TWO	o-storey Base Plate with Glued-in Rod and Pocket
CATE	GORY

NS-DS2042-CA-en

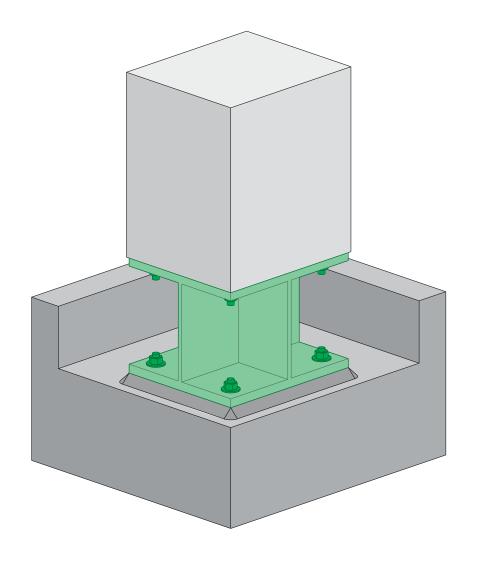
DATE PAGE

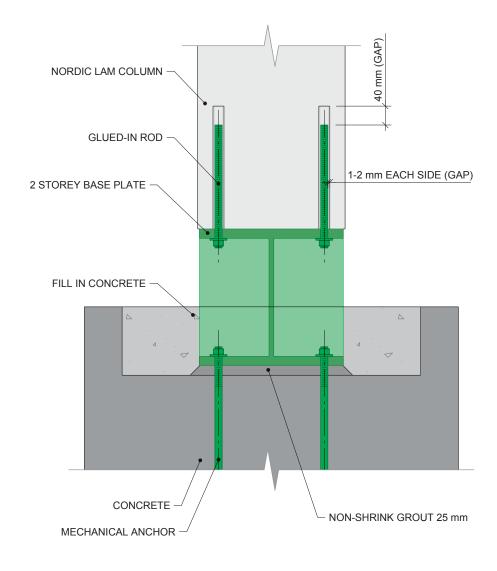
1.44

2022-02-01

DRAWING

Structure, Base Plate





NORDIC STRUCTURES	
nordic.ca	



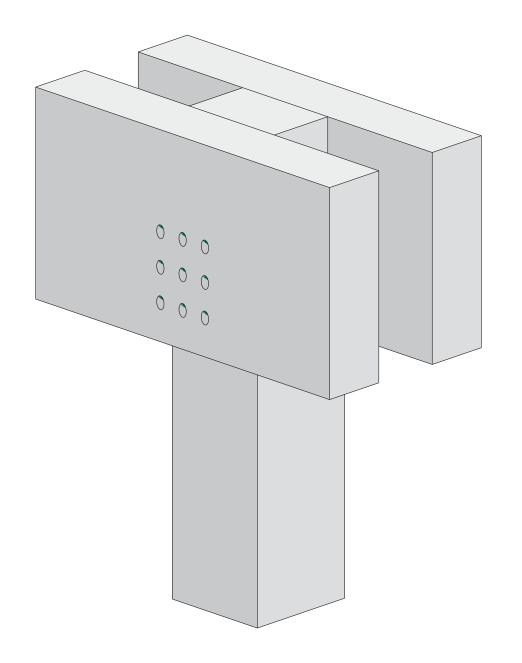
TITLE	
Two-storey Base Plate with Glued-in	n Rod and Half-height Pocket

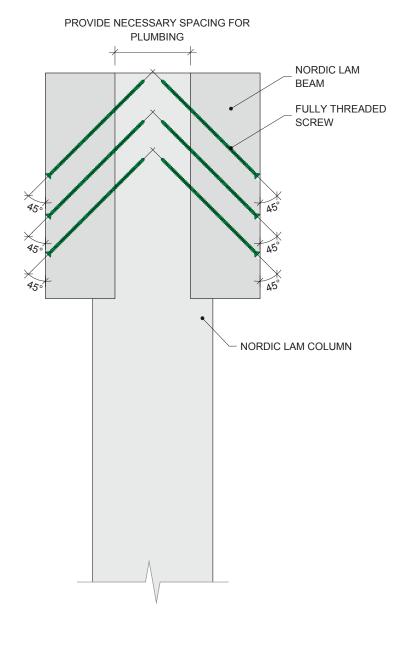
Structure, Base Plate

CATEGORY SCALE

NS-DS2070-CA-en	
DATE	PAGE
2022-02-01	1 45

DRAWING





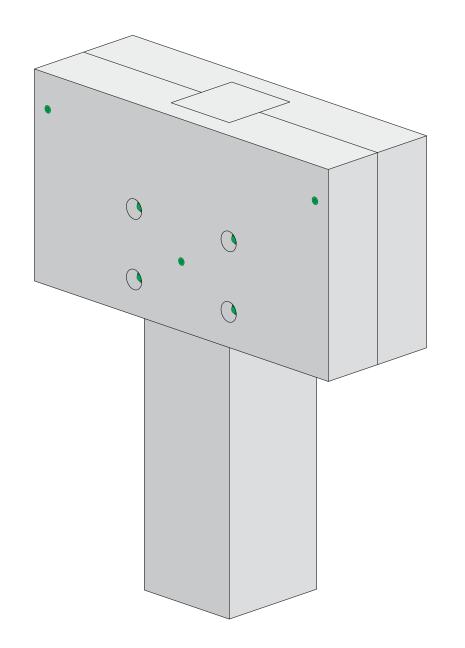
NORDIC STRUCTURES
nordic.ca

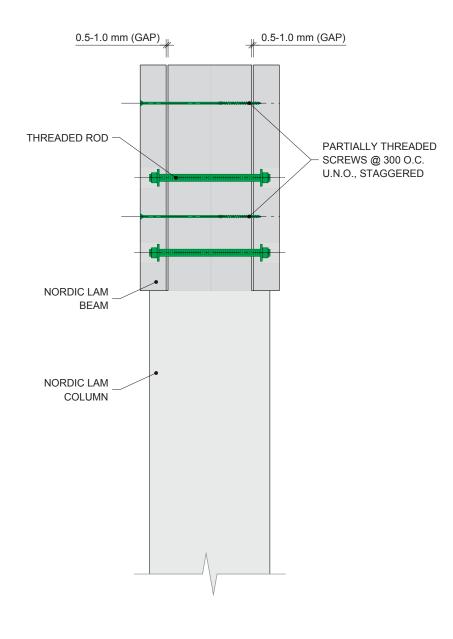


TITLE	
Double N	lember Beam with Spacing

CATEGORY Structure, Beam-Column DRAWING NS-DS2043-CA-en

DATE PAGE SCALE 2022-02-01







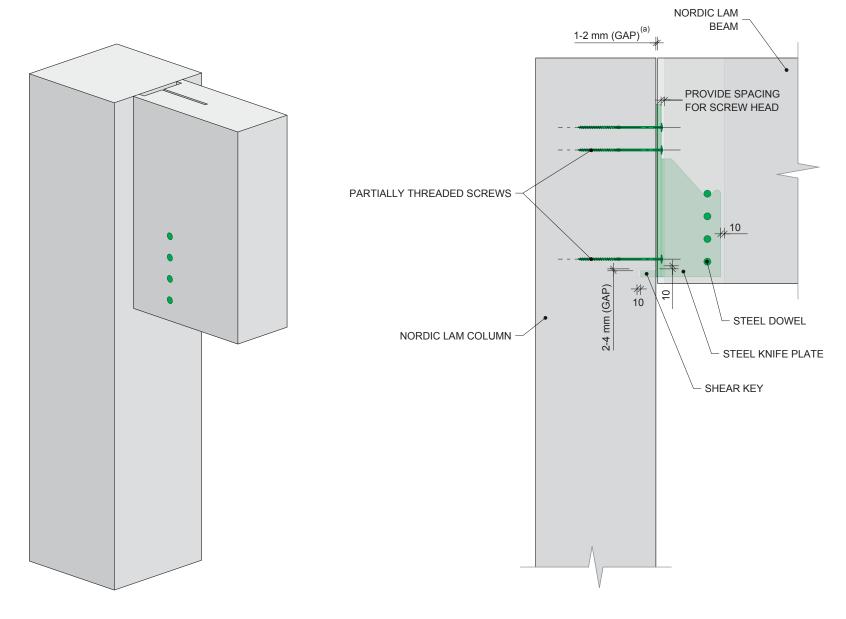


TITLE	
Double Meml	er Beam Without Spacing

Structure, Beam-Column

CATEGORY

DRAWING NS-DS2044-CA-en

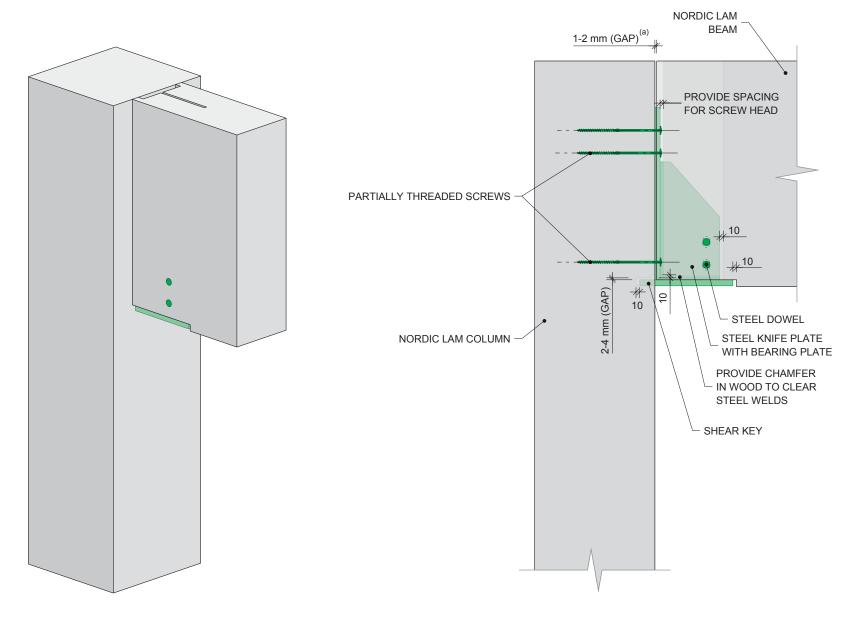


a) The 1-2 mm gap may not be required depending on the detail on the other side of the beam.





TITLE Knife Plate with Shear Key		DRAWING NS-DS2045-	CA-en
CATEGORY	SCALE	DATE	PAGE
Structure, Beam-Column	-	2022-02-01	1.48

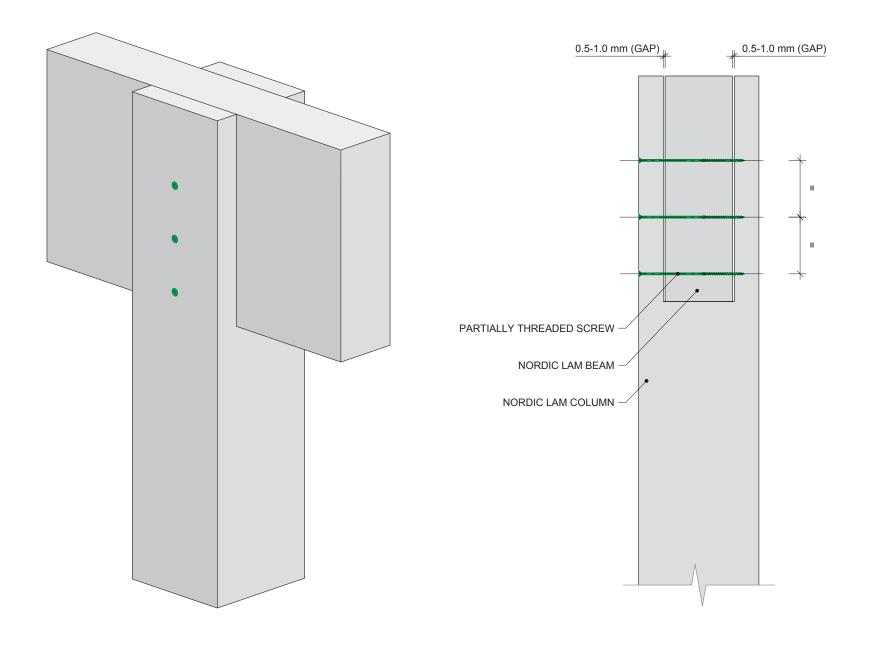


a) The 1-2 mm gap may not be required depending on the detail on the other side of the beam.





Knife Plate with Shear Key and Bearing Plate		DRAWING NS-DS2046-CA-en		
CATEGORY	SCALE	DATE	PAGE	
Structure, Beam-Column	-	2022-02-01	1.49	







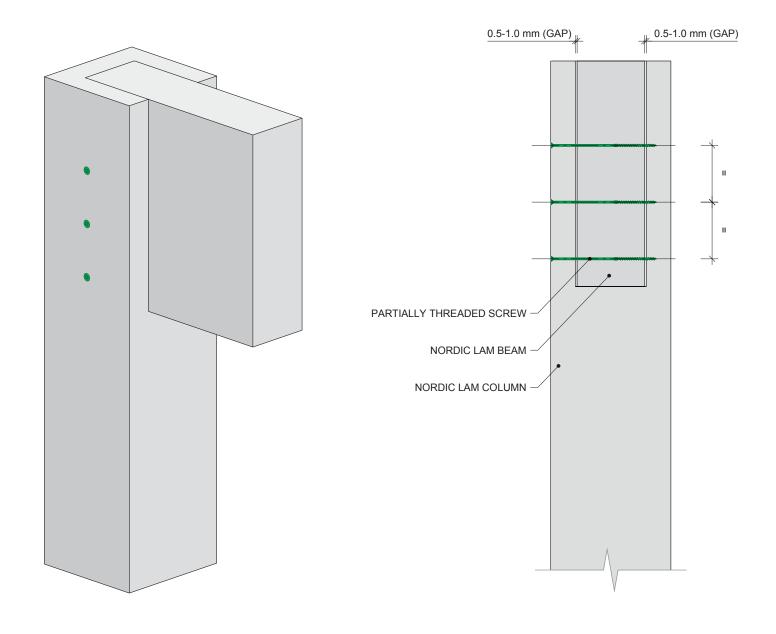
TITLE	
Single Beam,	Bridle Joint
_	

CATEGORY	
Structure.	Beam-Column

DRAWING NS-DS2047-CA-en

DATE PAGE SCALE 1.50

2022-02-01





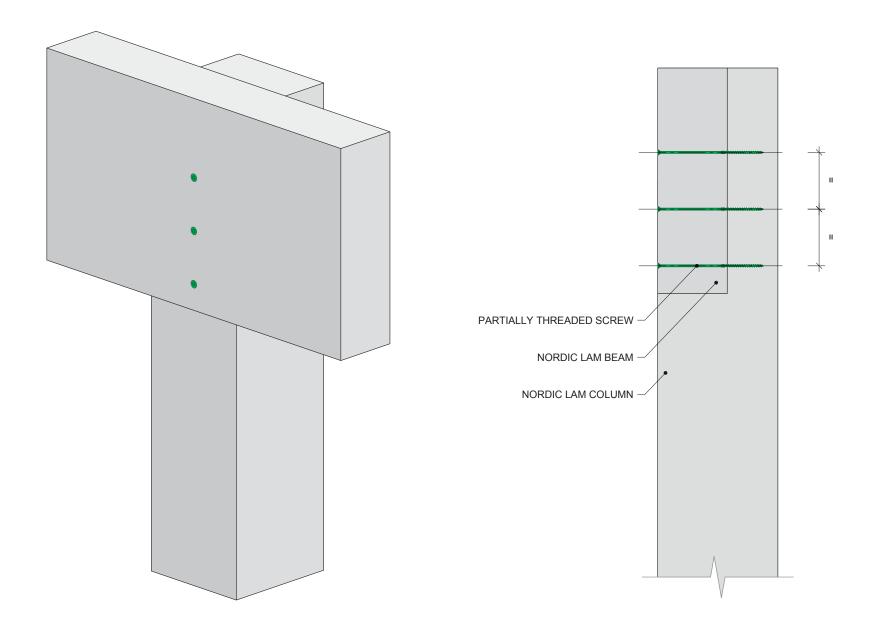


IIILE		
Continuous Be	am, Bridle	Joint

CATEGORY	
Structure, B	eam-Column

DRAWING	
NS-DS2048-CA-en	

SCALE	DATE	PAGE
-	2022-02-01	1.51



NORDIC STRUCTURES
nordic.ca



Half-lap Joint	
CATEGORY	
Structure, Beam-Column	

TITLE

DRAWING
NS-DS2049-CA-en

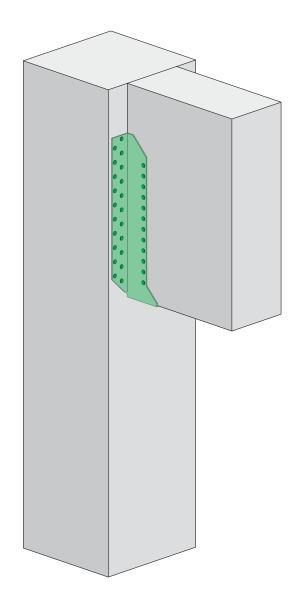
DATE

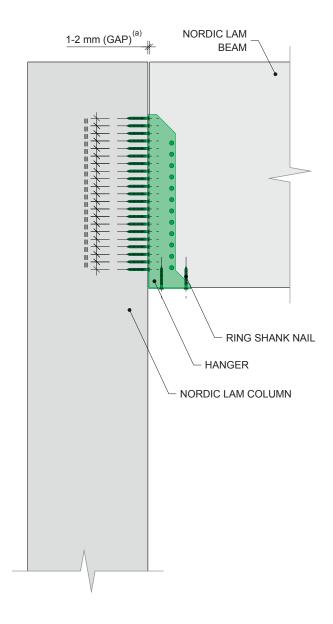
DATE

PAGE
2022-02-01

1.52

SCALE



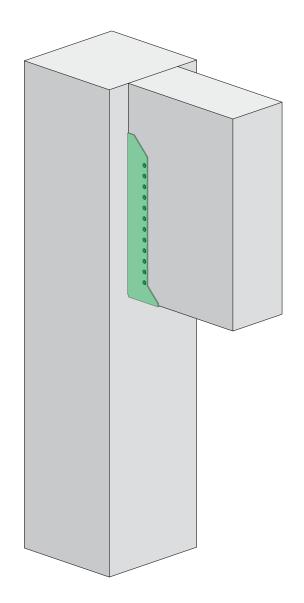


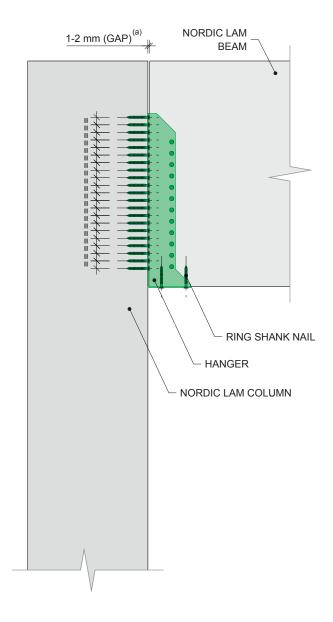
a) The 1-2 mm gap may not be required depending on the detail on the other side of the beam.





тітье Face-mount Hanger		DRAWING NS-DS2050-0	2A on
Face-mount Hanger		NS-DS2050-0	
CATEGORY	SCALE	DATE	PAGE
Structure, Beam-Column	-	2022-02-01	1.53



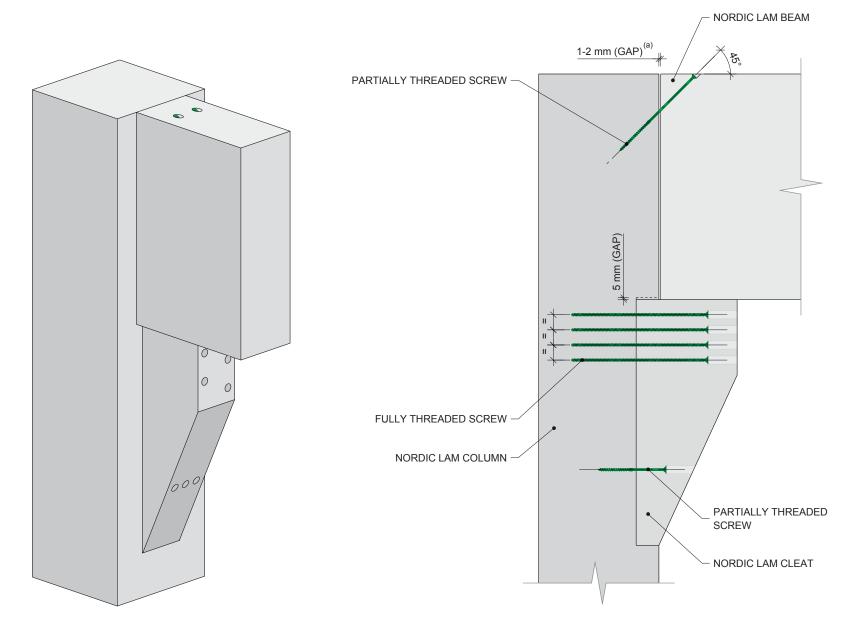


a) The 1-2 mm gap may not be required depending on the detail on the other side of the beam.





Face-mount Hanger with Concealed Flanges		NS-DS2051-CA-en		
CATEGORY Structure, Beam-Column	SCALE	DATE 2022-02-01	PAGE	

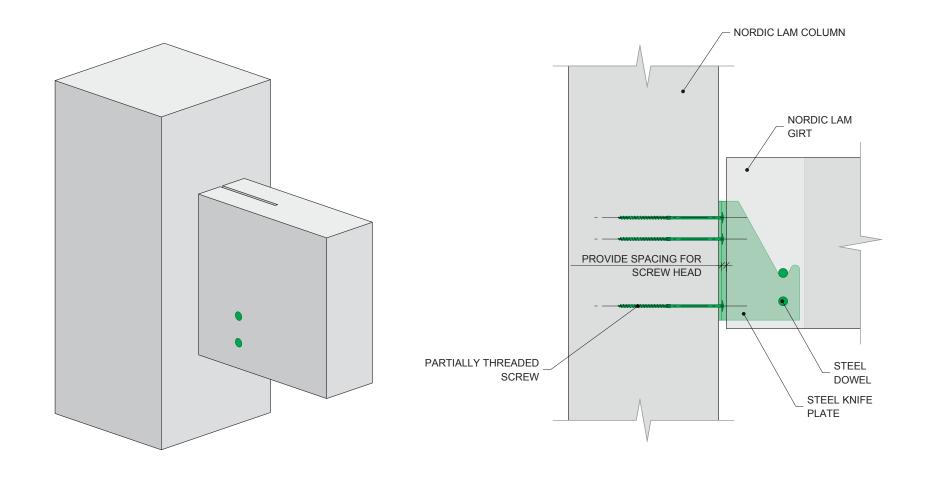


a) The 1-2 mm gap may not be required depending on the detail on the other side of the beam.





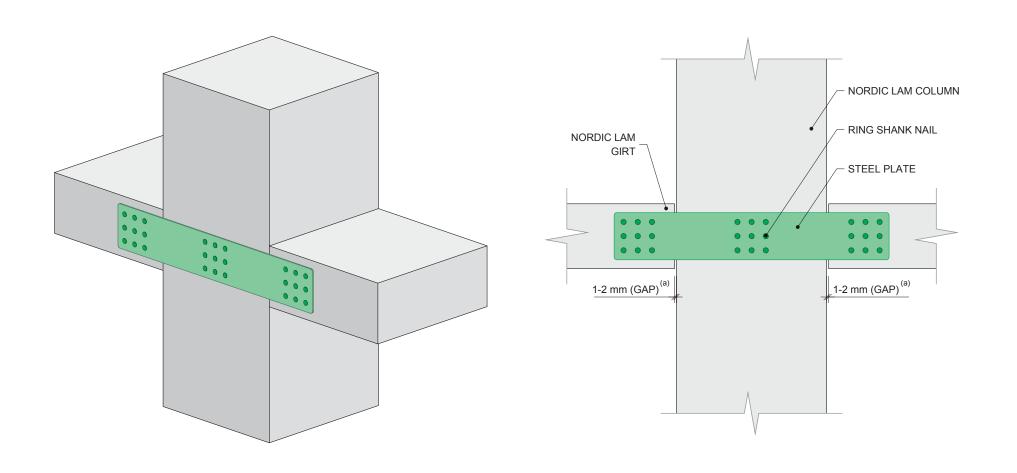
Beam on Cleat		DRAWING NS-DS2053-CA-en		
CATEGORY	SCALE	DATE	PAGE	
Structure, Beam-Column	-	2022-02-01	1.55	







Knife Plate		NS-DS2055-CA-en		
CATEGORY	SCALE	DATE	PAGE	
Structure, Girt-Column	<del>-</del>	2022-02-01	1.56	

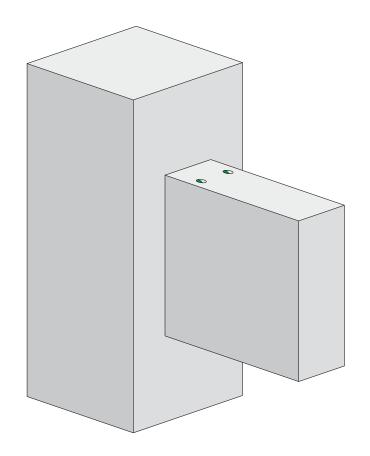


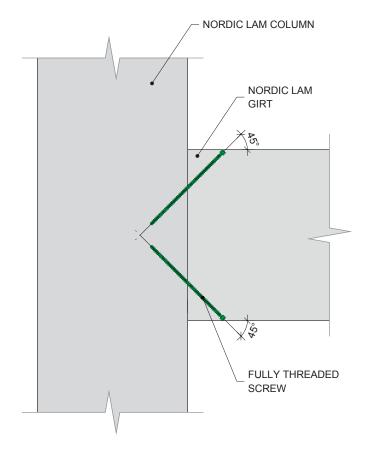
a) The 1-2 mm gap may not be required depending on the detail on the other side of the beam.





Steel Plates		DRAWING NS-DS2056-0	56-CA-en	
CATEGORY	SCALE	DATE	PAGE	
Structure, Girt-Column	-	2022-02-01	1.57	





SCALE

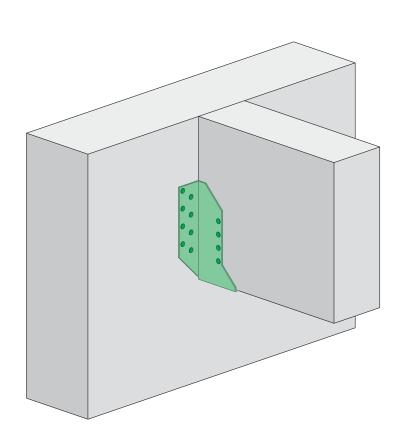
NORDIC STRUCTURES
nordic.ca

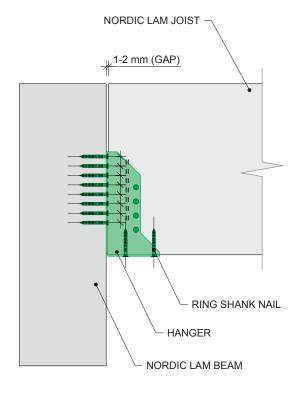


45° Screws	
CATEGORY	
Structure, Girt-Column	

TITLE

DRAWING NS-DS2057-0	CA-en	
DATE 2022-02-01	PAGE 1.58	

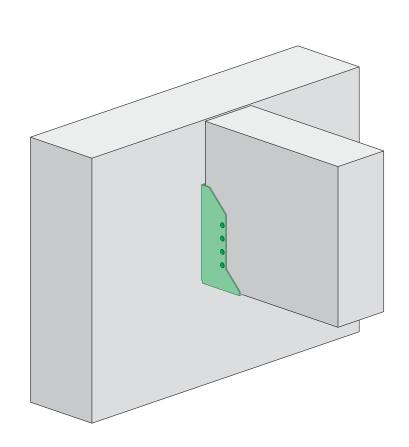


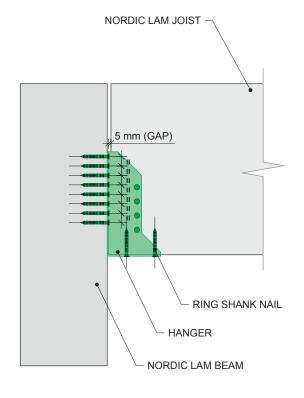


NORDIC STRUCTURES	
nordic.ca	



Nailed Face-mount Hanger		DRAWING NS-DS2058-	CA-en	
CATEGORY	SCALE	DATE	PAGE	
Structure, Joist-Beam	-	2022-02-01	1.59	

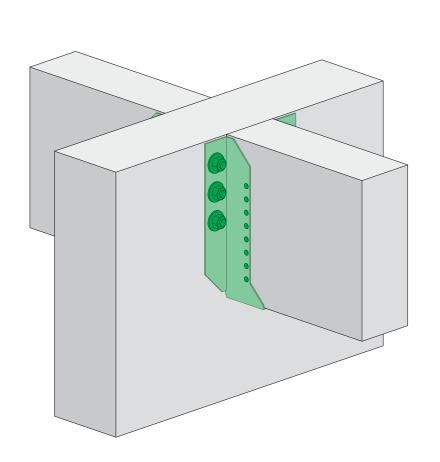


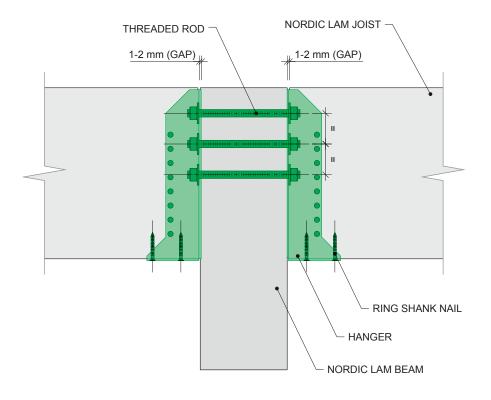


NORDIC STRUCTURES	
nordic.ca	



TITLE		DRAWING		
Nailed Face-mount Hanger with Concealed Flanges		NS-DS2059-CA-en		
CATEGORY	SCALE	DATE	PAGE	_
Structure Joist-Beam	_	2022-02-01	1.60	

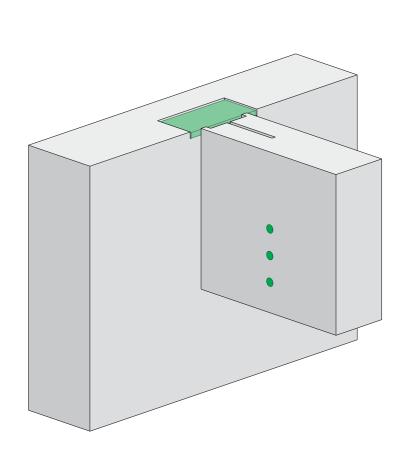


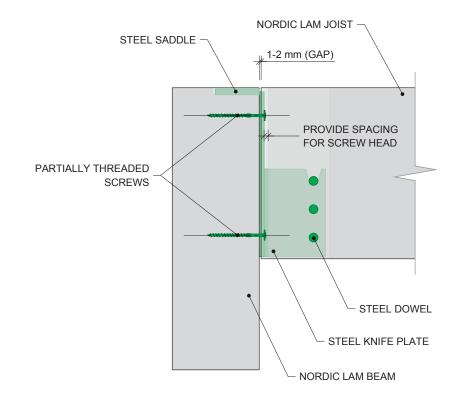


NORDIC STRUCTURES
nordic.ca



TITLE Bolted Face-mount Hanger		DRAWING NS-DS2060-	DRAWING NS-DS2060-CA-en		
CATEGORY	SCALE	DATE	PAGE		
Structure, Joist-Beam	-	2022-02-01	1.61		





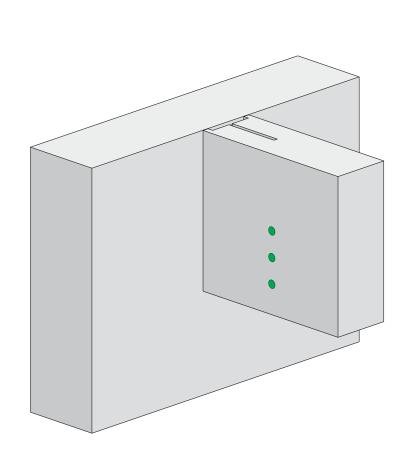
NORDIC STRUCTURES
nordic.ca

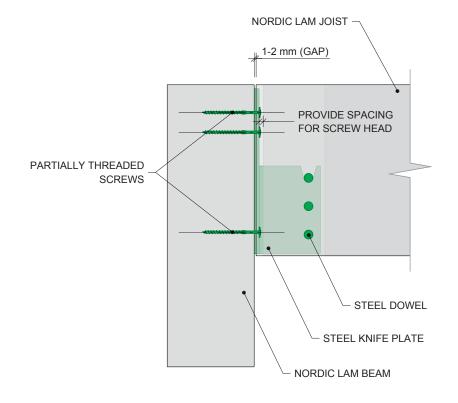


te with Saddle

category
Structure, Joist-Beam

NS-DS2061-CA-en

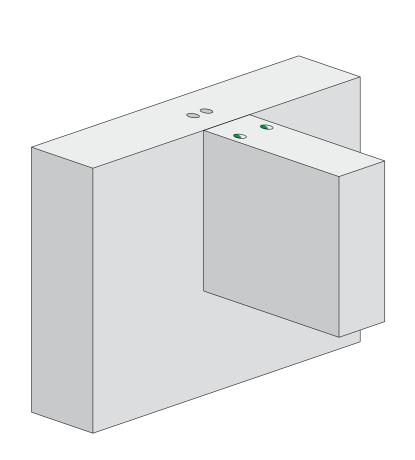


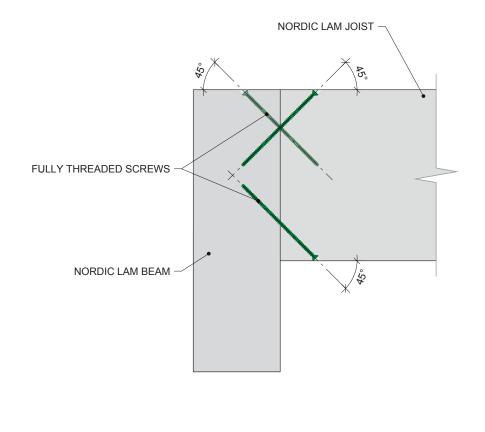


NORDIC STRUCTURES
nordic.ca



Knife Plate		DRAWING NS-DS2062-CA-en	
CATEGORY	SCALE	DATE	PAGE
Structure, Joist-Beam	-	2022-02-01	1.63





NORDIC STRUCTURES
nordic.ca



TITLE 45° Screws - Option 1

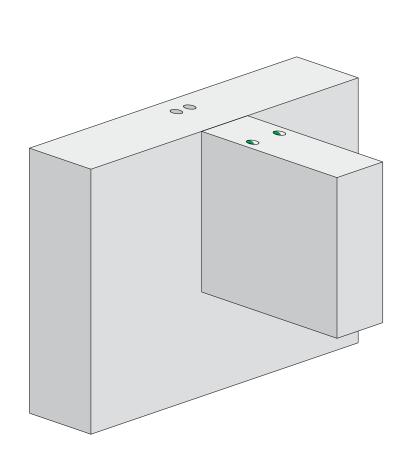
CATEGORY Structure, Joist-Beam DRAWING

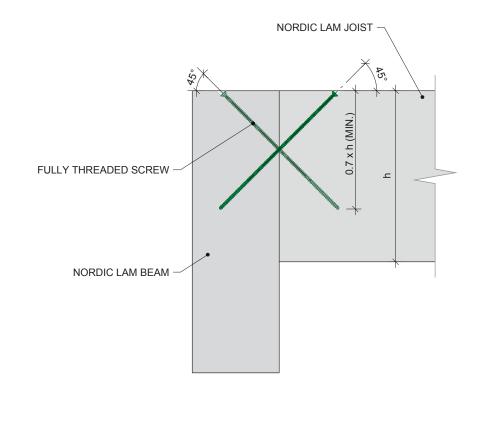
NS-DS2063-CA-en

DATE SCALE

PAGE 2022-02-01

1.64









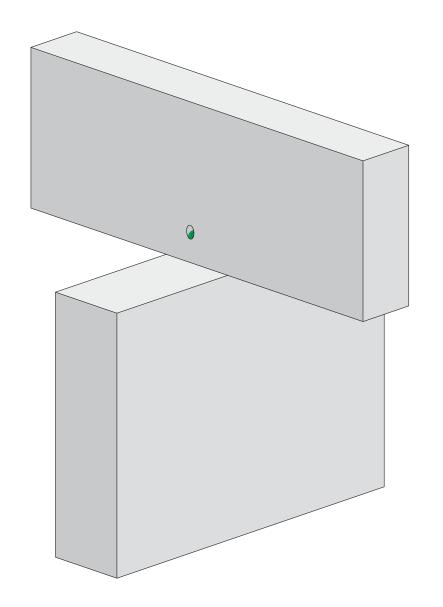
45° Screws – Option 2

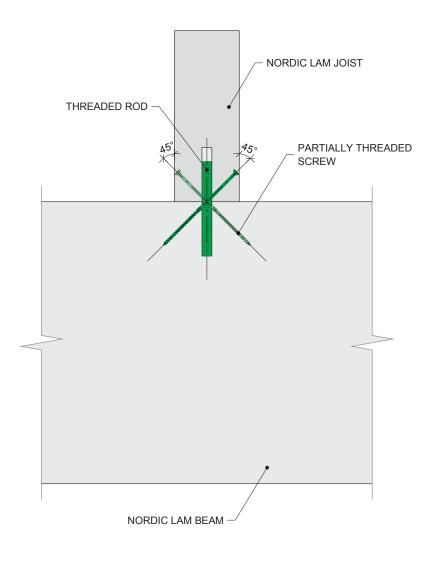
Structure, Joist-Beam

CATEGORY

DRAWING NS-DS2064-CA-en

SCALE DATE PAGE
- 2022-02-01 1.65





NORDIC STRUCTURES
nordic.ca



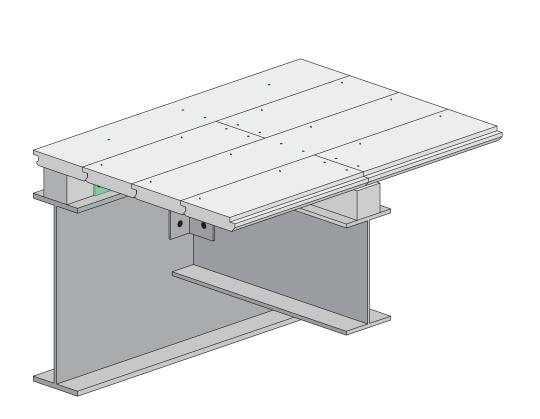
TITLE			
Joist on Beam with 45°	Screws and	Glued-in	Rod

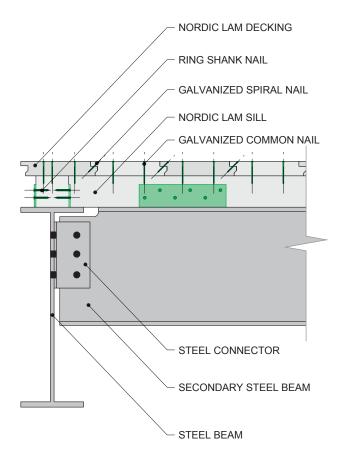
NS-DS2065-CA-en SCALE

CATEGORY Structure, Joist-Beam DATE PAGE 2022-02-01

DRAWING

1.66





## Note:

1. For assembly details refer to technical note D-R00.

NORDIC STRUCTURES



Decking to Steel Beam		DRAWING NS-DS2066-0	CA-en	
CATEGORY	SCALE	DATE	PAGE	
Structure, Hybrid	-	2022-02-01	1.67	

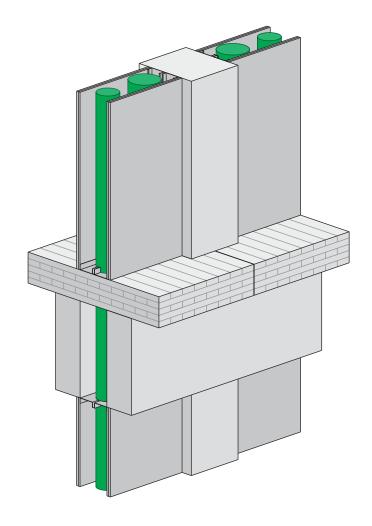


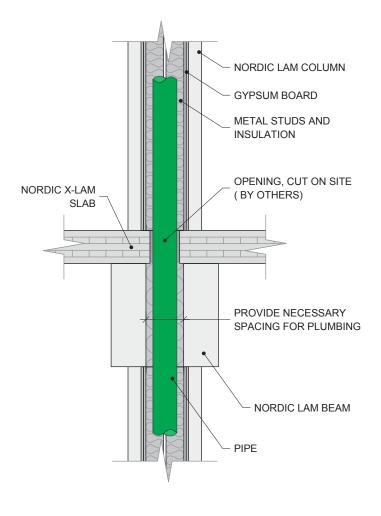


MECHANICAL, ELECTRICAL, AND PLUMBING

2









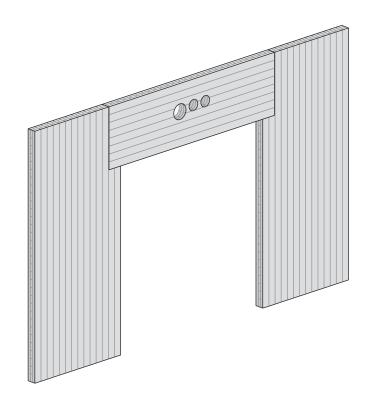


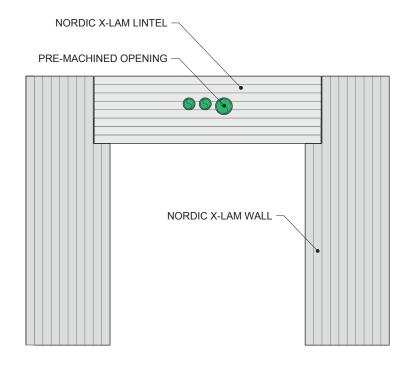
TITLE
Vertical, Double-member Beam

CATEGORY Mechanical, Electrical, and Plumbing DRAWING NS-DS2501-CA-en

SCALE

DATE PAGE 2022-02-01 2.1

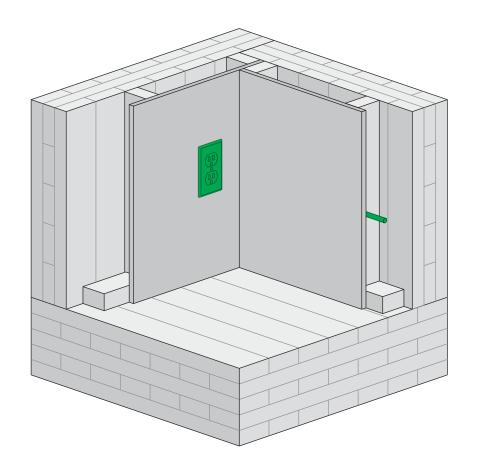


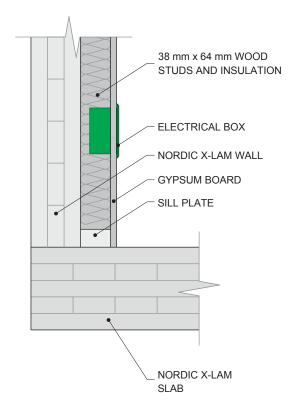






TITLE Horizontal, Pre-machined Opening		NS-DS2502-CA-en		
CATEGORY	SCALE	DATE	PAGE	
Mechanical, Electrical, and Plumbing	-	2022-02-01	2.2	

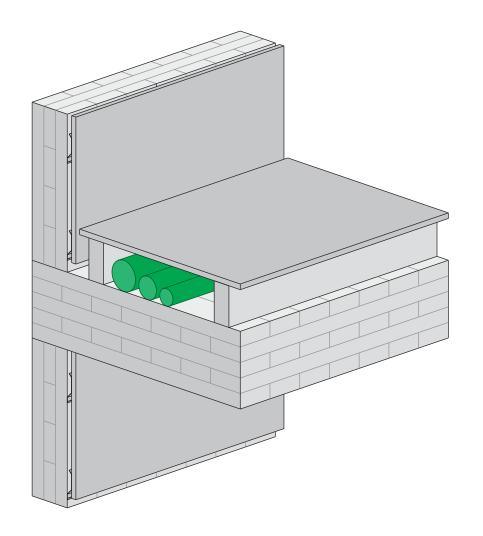


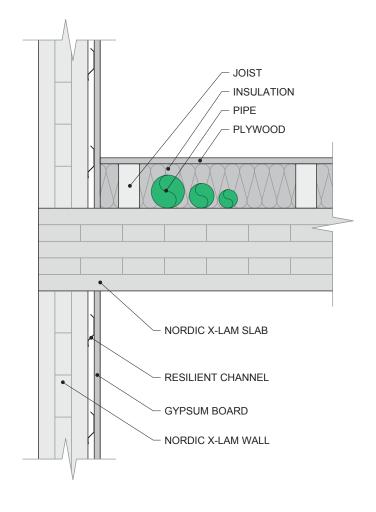






Horizontal, Electrical Box with 38 mm x 64 mm Wood Studs		NS-DS2503-CA-en		1
CATEGORY	SCALE	DATE	PAGE	
Mechanical, Electrical, and Plumbing	-	2022-02-01	2.3	





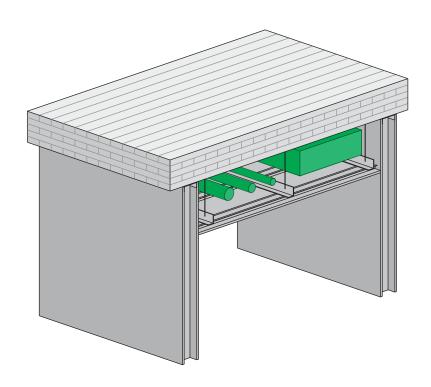
SCALE

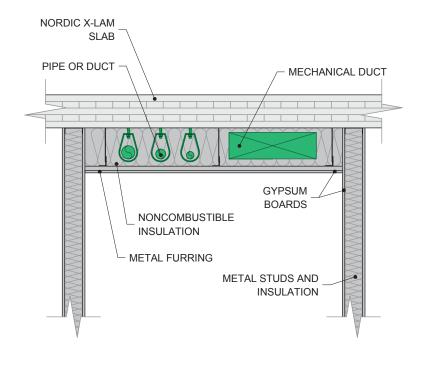
NORDIC STRUCTURES
nordic.ca



Horizontal, Raised Floor	
CATEGORY	
Mechanical, Electrical, and Plumbing	

NS-DS250	04-CA-en	
DATE	PAGE	
2022-02-0	1 2.4	

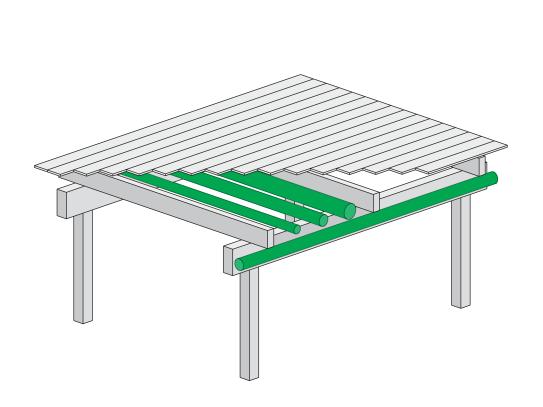


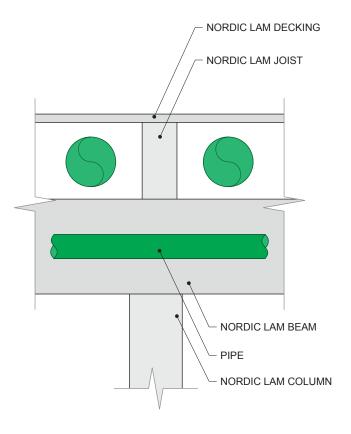






Horizontal, Suspended Ceiling		NS-DS2505-CA-en	
CATEGORY	SCALE	DATE	PAGE
Mechanical, Electrical, and Plumbing	-	2022-02-01	2.5









Horizontal, Joist on Beam
CATEGORY
Mechanical, Electrical, and Plumbing

TITLE

DRAWING
NS-DS2506-CA-en

DATE

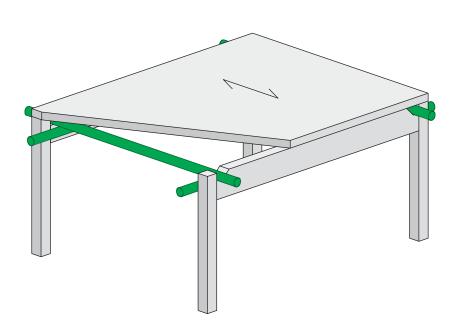
DATE

PAGE

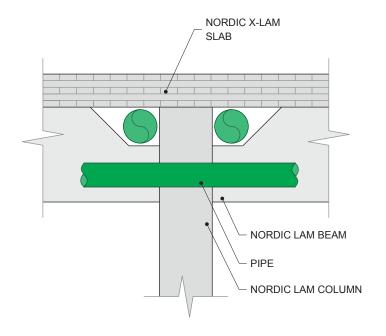
2022-02-01

2.6

SCALE



TITLE



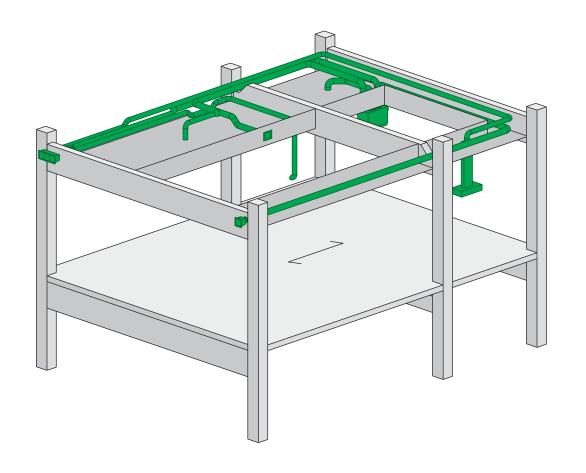
SCALE

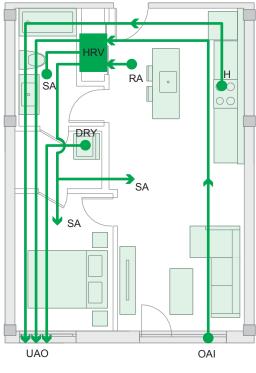




Horizontal, Bevelled Beam	
CATEGORY	
Mechanical, Electrical, and Plumbing	

DRAWING NS-DS2507-0	^A_en
DATE	PAGE
2022-02-01	2.7





## Legend

SA Supply Air Hood Н

OAI Outdoor Air Intake RA Return Air Used Air Outlet UAO

SEC Dryer

Heat Recovery Ventilator HRV

NORDIC STRUCTURES
nordic.ca



TITLE	
Multi-residential Unit Diag	ram – Option 1

CATEGORY

NS-DS2508-CA-en

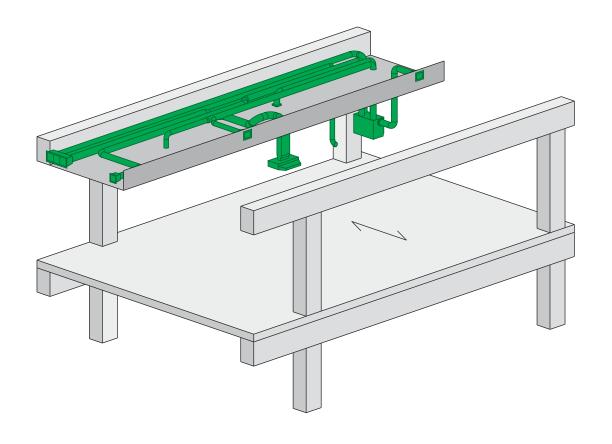
PAGE

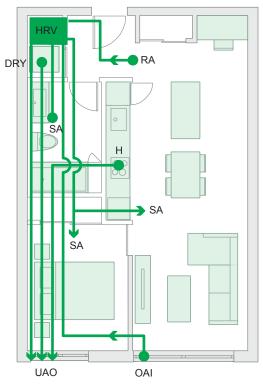
2.8

DRAWING

Mechanical, Electrical, and Plumbing

DATE SCALE 2022-02-01





## Legend

SA Supply Air Hood Н

Outdoor Air Intake OAI RA Return Air Used Air Outlet UAO

SEC

SCALE

Dryer Heat Recovery Ventilator HRV

NORDIC STRUCTURES
nordic.ca



Mu	: Iti-residential Unit Diagram – Option
CATE	GORY
Me	chanical, Electrical, and Plumbing

2

