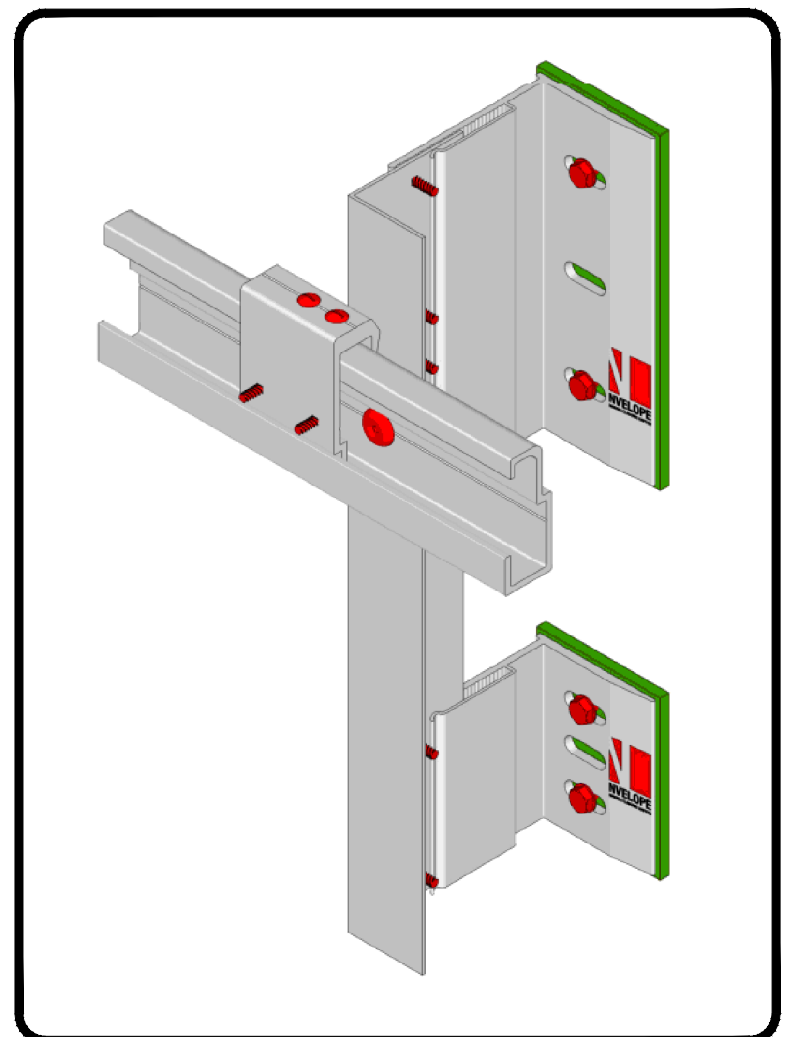
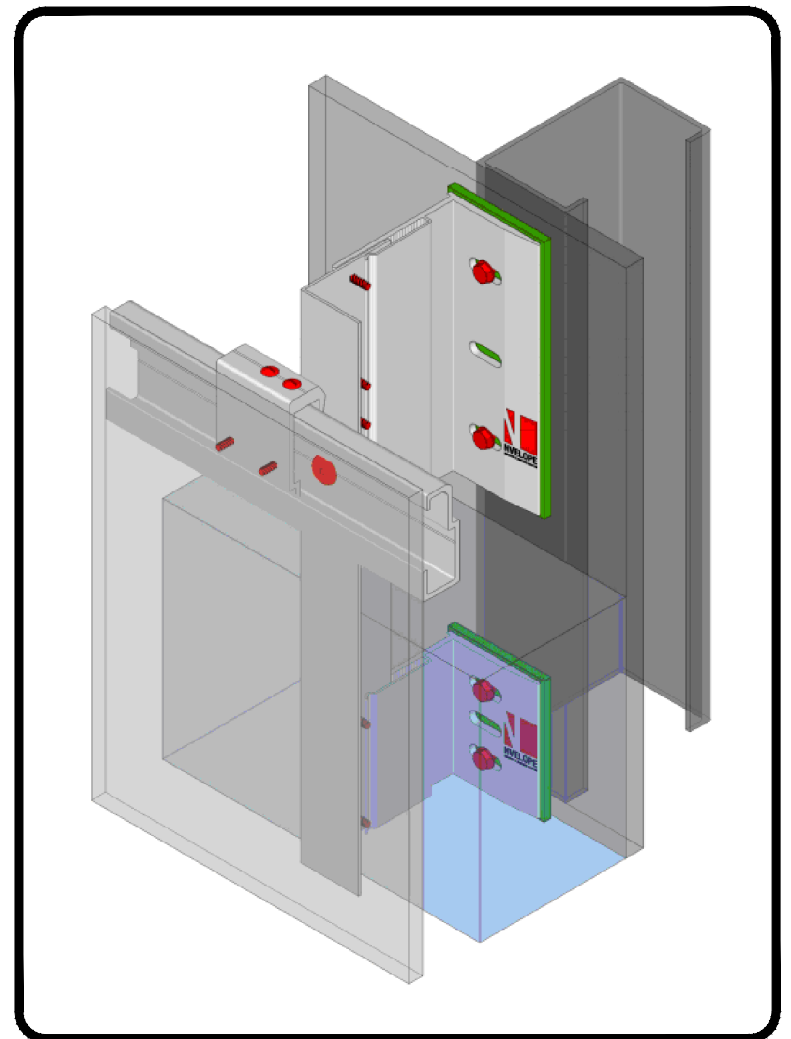


aluminium support system for  
rain screen cladding panels

## NVELOPE SYSTEM NV3



### CONTENTS:

- NV3-00 NVELOPE system detail sheet
- NV3-01 Tolerances for bracket adjustment
- NV3-02 Rail and adaptor overview
- NV3-03 System fastener overview
- NV3-04 System hanger overview
- NV3-05 Cladding view locations
- NV3-06 Enlarged Elevation – System layout
- NV3-07 Section – Base of Cladding
- NV3-08 Section – Horz. panel joint
- NV3-09 Section – Center panel
- NV3-10 Section – Rail termination with slip connection
- NV3-11 Section – Top of cladding
- NV3-12 Section – Window sill
- NV3-13 Section – Window head
- NV3-14 Plan – Window jamb
- NV3-15 Plan – Internal corner
- NV3-16 Plan – Vertical panel joint
- NV3-17 Plan – External corner
- NV3-18 Plan – External corner with corner rail
- NV3-19 Section – Bracket install guide

SFS Group USA, Inc.  
Division Construction  
1045 Spring Street  
US-Wyomissing, PA 19610  
T 844-Nvelope (683 5673)  
us.nvelope@sfs.com  
us.sfs.com

SFS - Canada  
40 Innovation Drive  
Dundas, ON L9H 7P3  
T +1 905 689 5401  
ca.info@sfs.com  
ca.sfs.com

The following detail set was drawn  
and scaled using millimeter units

SHEET

# NV3-01

SHEET TITLE

## Tolerances for Bracket Adjustment

# NV3 DETAIL SET



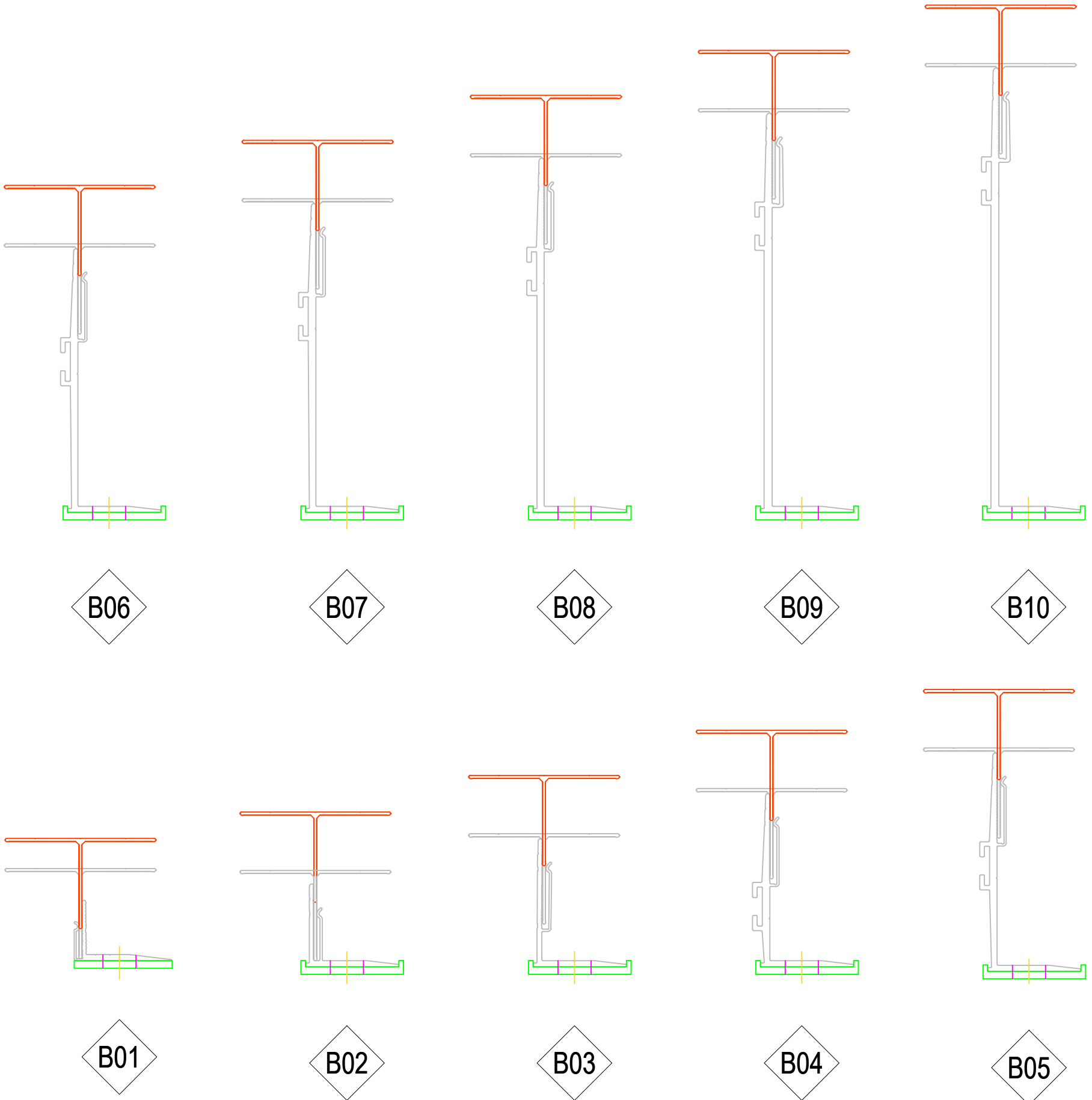
REVISION  
IR

DATE  
03.23.2022

SCALE  
1:2

NO:	BRACKET HEIGHT	MIN CAVITY	MAX CAVITY
B01	1.57" (40mm)	1.85" (47mm)	2.64" (67mm)
B02	2.36" (60mm)	2.44" (62mm)	4.01" (102mm)
B03	3.54" (90mm)	3.62" (92mm)	5.19" (132mm)
B04	4.72" (120mm)	4.80" (122mm)	6.37" (162mm)
B05	5.91" (150mm)	5.98" (152mm)	7.56" (192mm)
B06	7.09" (180mm)	7.16" (182mm)	8.74" (222mm)
B07	8.27" (210mm)	8.35" (212mm)	9.92" (252mm)
B08	9.45" (240mm)	9.52" (242mm)	11.10" (282mm)
B09	10.63" (270mm)	10.70" (272mm)	12.26" (312mm)
B10	11.81" (300mm)	11.89" (302mm)	13.46" (342mm)

Brackets come in single or double widths and are made for specific substrates. See installation instructions for more details.



SHEET

# NV3-02

SHEET TITLE

## Rail and Adaptor Overview



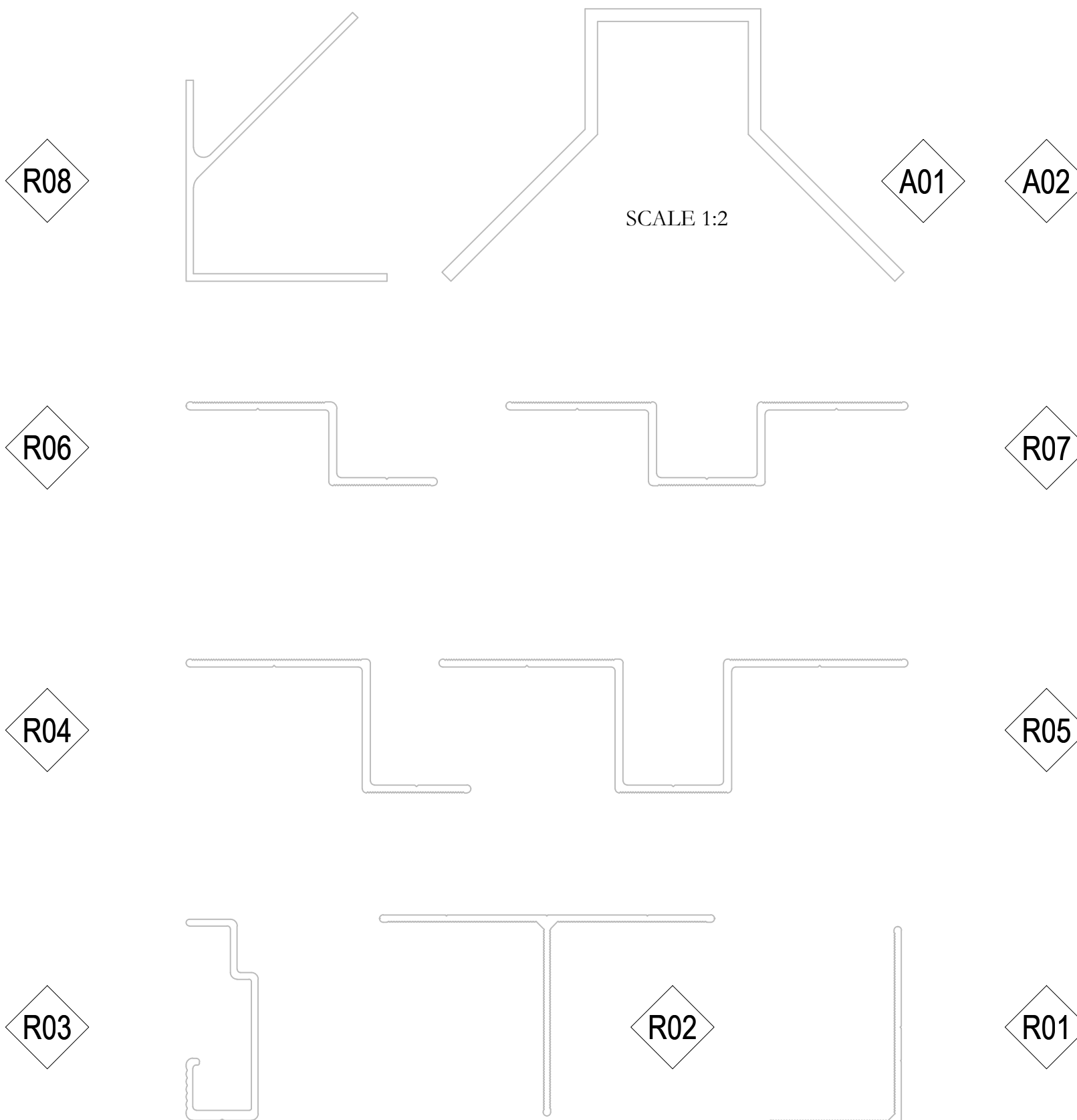
# NV3 DETAIL SET

REVISION  
IR

DATE  
03.23.2022

SCALE  
1:1

NO:	DESCRIPTION	HEIGHT	FACE WIDTH (S)	THICKNESS	LENGTH
R01	L Rail	2 3/8" (60mm)	1 1/2" (40mm)	0.087" (2.2mm)	9' 10 1/8" (3m)
R02	T Rail	2 3/8" (60mm)	3 7/8" (100mm)	0.087" (2.2mm)	9' 10 1/8" (3m)
R03	NV3 Rail	2 3/8" (60mm)	27/32" (21.5mm)	0.079" (2mm)	9' 10 1/8" (3m)
R04	1 1/2" Zed Rail	1 1/2" (40mm)	2 1/8" & 1 1/8" (55mm / 30mm)	0.094" (2.4mm)	9' 10 1/8" (3m)
R05	1 1/2" Omega Rail	1 1/2" (40mm)	2 1/8" & 1 1/8" (55mm / 30mm)	0.094" (2.4mm)	9' 10 1/8" (3m)
R06	1" Zed Rail	1" (25mm)	1 3/4" & 1 1/8" (45mm / 30mm)	0.094" (2.4mm)	9' 10 1/8" (3m)
R07	1" Omega Rail	1" (25mm)	1 3/4" & 1 1/8" (45mm / 30mm)	0.094" (2.4mm)	9' 10 1/8" (3m)
R08	Corner Rail	2 13/16" (71mm)	2 3/8" & 2 3/8" (60mm / 60mm)	0.087" (2.2mm)	9' 10 1/8" (3m)
A01	Single Corner Bracket	4 1/4" (108mm)	2 3/4" (70mm)	0.197" (5mm)	2 15/16" (75mm)
A02	Double Corner Bracket				5 29/32" (150mm)



SHEET

NV3-03

SHEET TITLE

System Fastener Overview

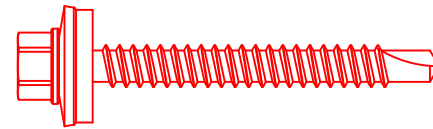


NV3 DETAIL SET

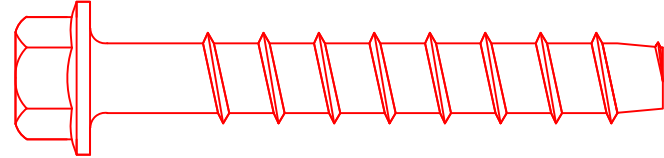
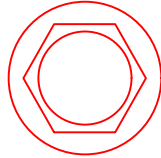
REVISION  
IRDATE  
03.23.2022SCALE  
1:1

NO:	TYPICAL USE & APPLICATION	LENGTH	DIAMETER	HEAD/DRIVE	POINT STYLE
F01	Nvelope Bracket to Steel Stud Framing	2" (50mm)	#14 (6.5mm)	5/16" (8mm) HWH	SD2 Self Drill
F02	Nvelope Bracket to CMU Substrate	3" (75mm)	3/8" (10mm)	9/16" (14mm) HWH	Type B
F03	Nvelope Bracket to Concrete Wall	3 1/8" (80mm)	3/8" (10mm)	33/64" (13mm) HWH	Type B
F04	Nvelope Bracket to Wood Stud Framing	2 1/16" (52mm)	#14" (6.5mm)	5/16" (8mm) HWH	SD2 Self Drill
F05	Bracket to Rail & Rail to Rail Connections	7/8" (22mm)	#12 (5.5mm)	5/16" (8mm) HWH	SD3 Self Drill
F06	NV3 Hanger Securing Screw	1 5/8" (41mm)	#12 (5.4mm)	5/16" (8mm) HWH	SD3 Self Drill
F07	NV3 Hanger Adjusting Screw	3/4" (20mm)	1/4" (6mm)	3/8" (10mm) HH	Type B
F08	NV3 Hanger to Facade Panel	7/16" (11mm)	1/4" (6mm)	5/16" (8mm) HWH	Rivet

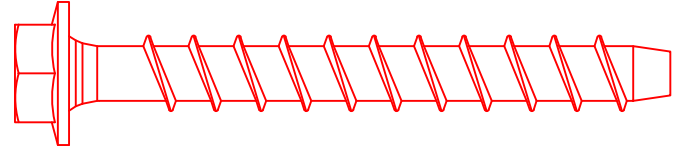
F01



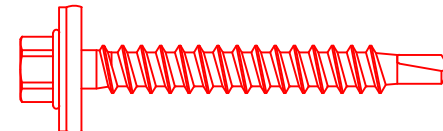
F02



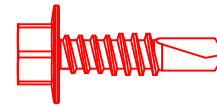
F03



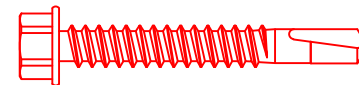
F04



F05



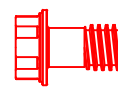
F06



F07



F08



SHEET

# NV3-04

SHEET TITLE

## System Hanger Overview

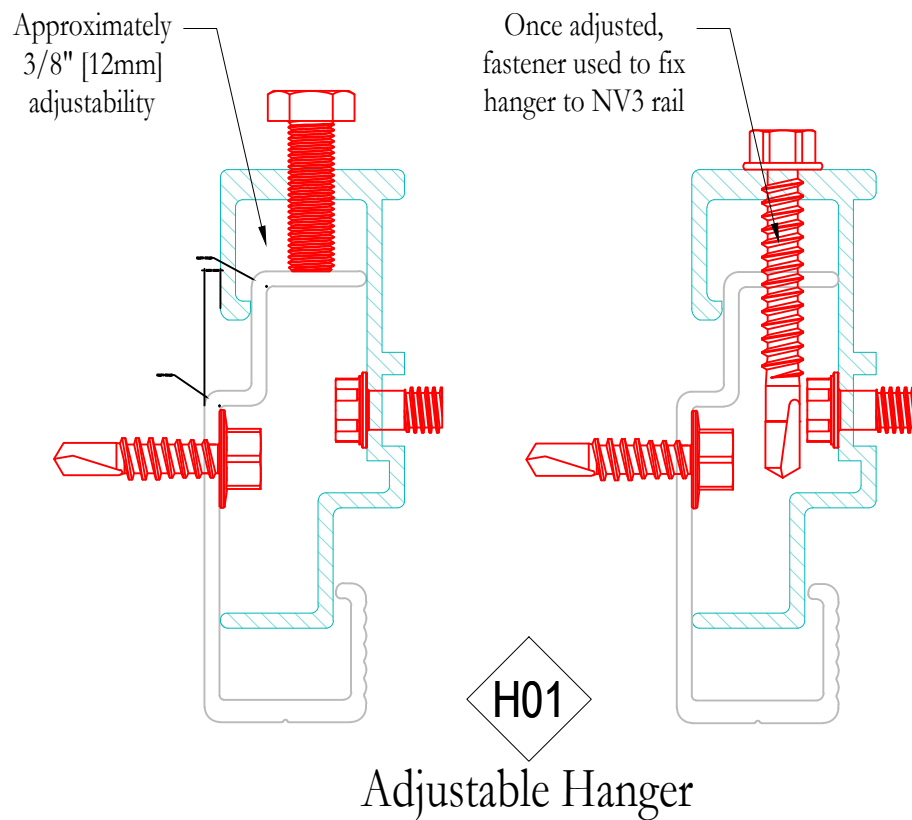
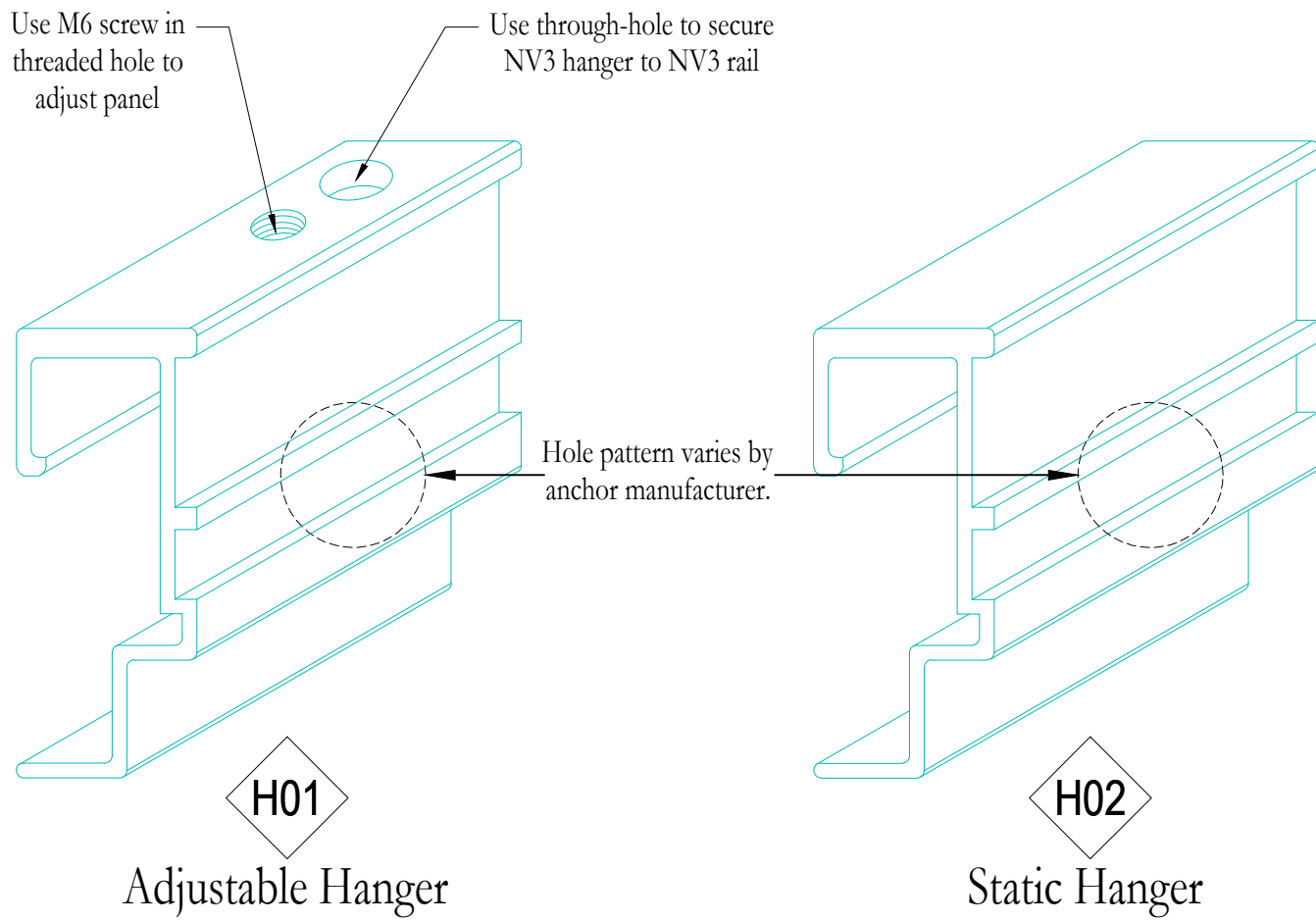
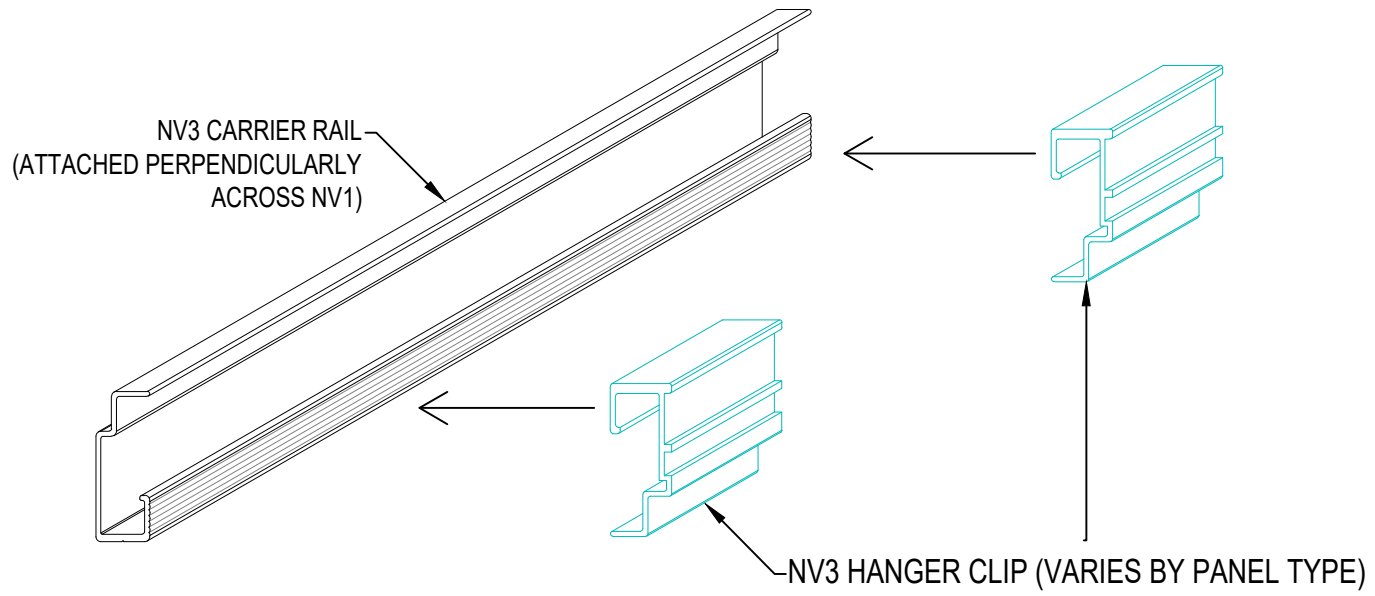


# NV3 DETAIL SET

REVISION  
IR

DATE  
03.23.2022

SCALE  
NTS



SHEET

# NV3-05

SHEET TITLE

## Cladding View Locations

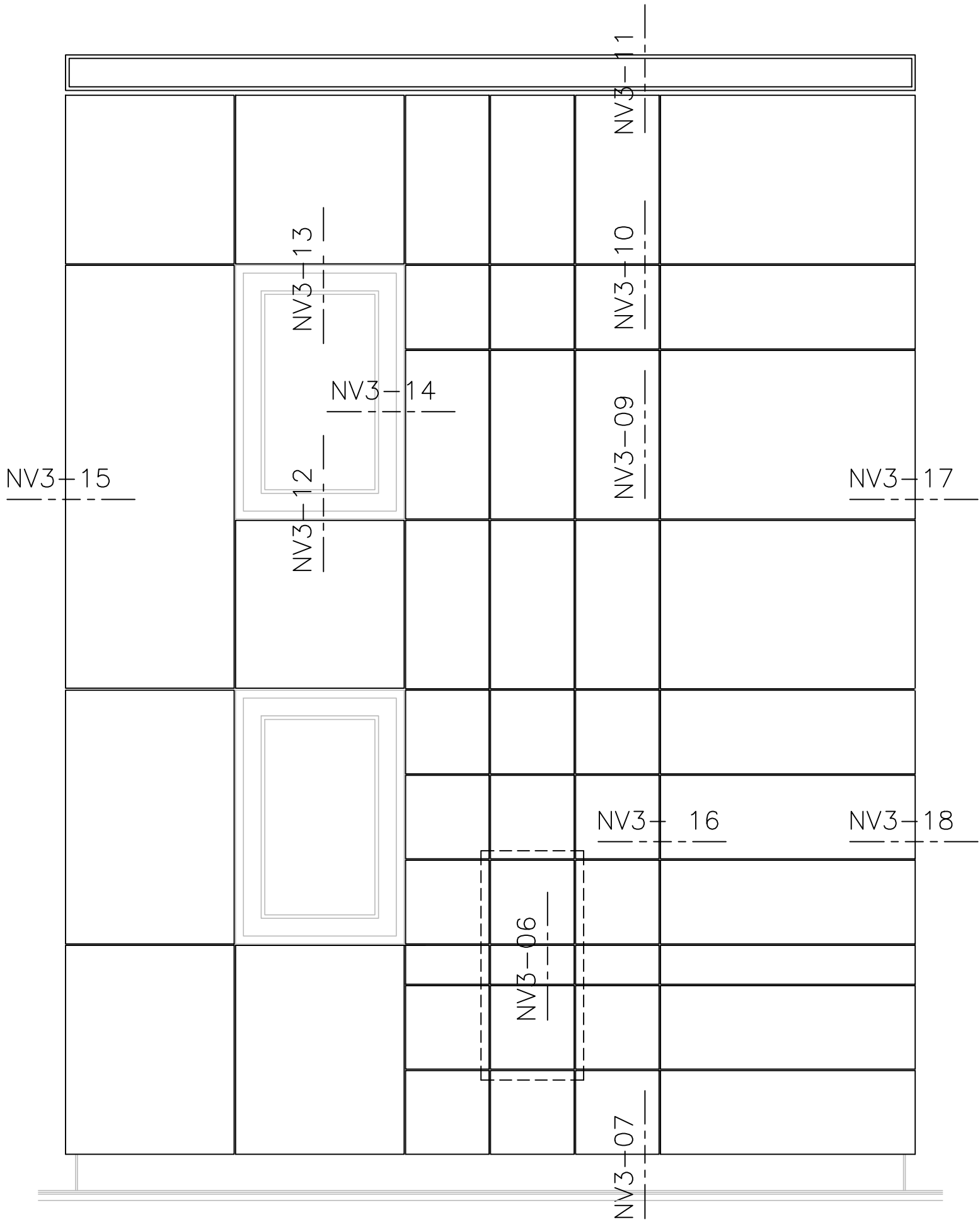


# NV3 DETAIL SET

REVISION  
IR

DATE  
03.23.2022

SCALE  
1:34



SHEET

# NV3-06

SHEET TITLE

## Enlarged Elevation - System Layout

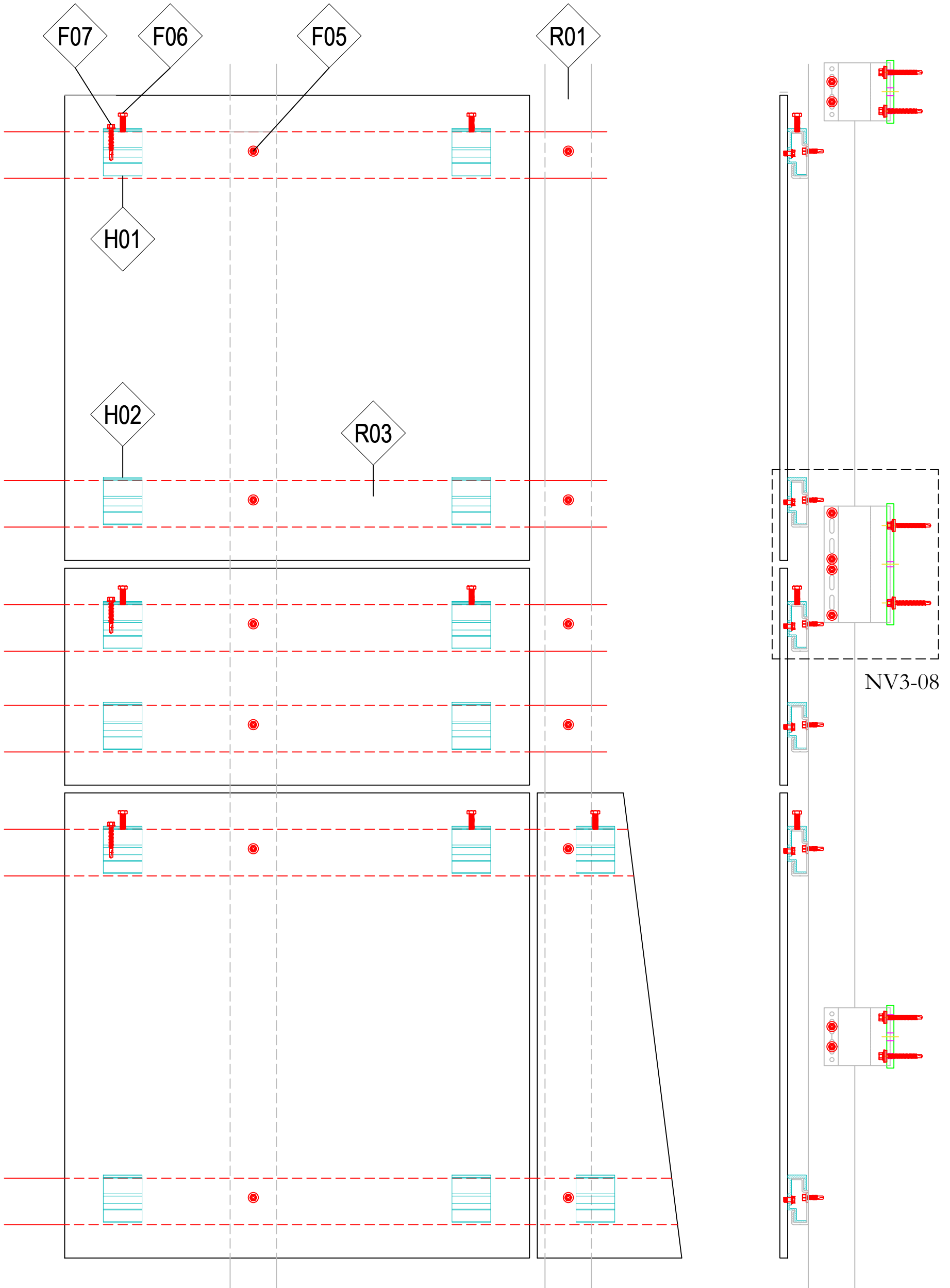


# NV3 DETAIL SET

REVISION  
IR

DATE  
03.23.2022

SCALE  
1:5



SHEET

# NV3-07

SHEET TITLE

## Section - Base of Cladding

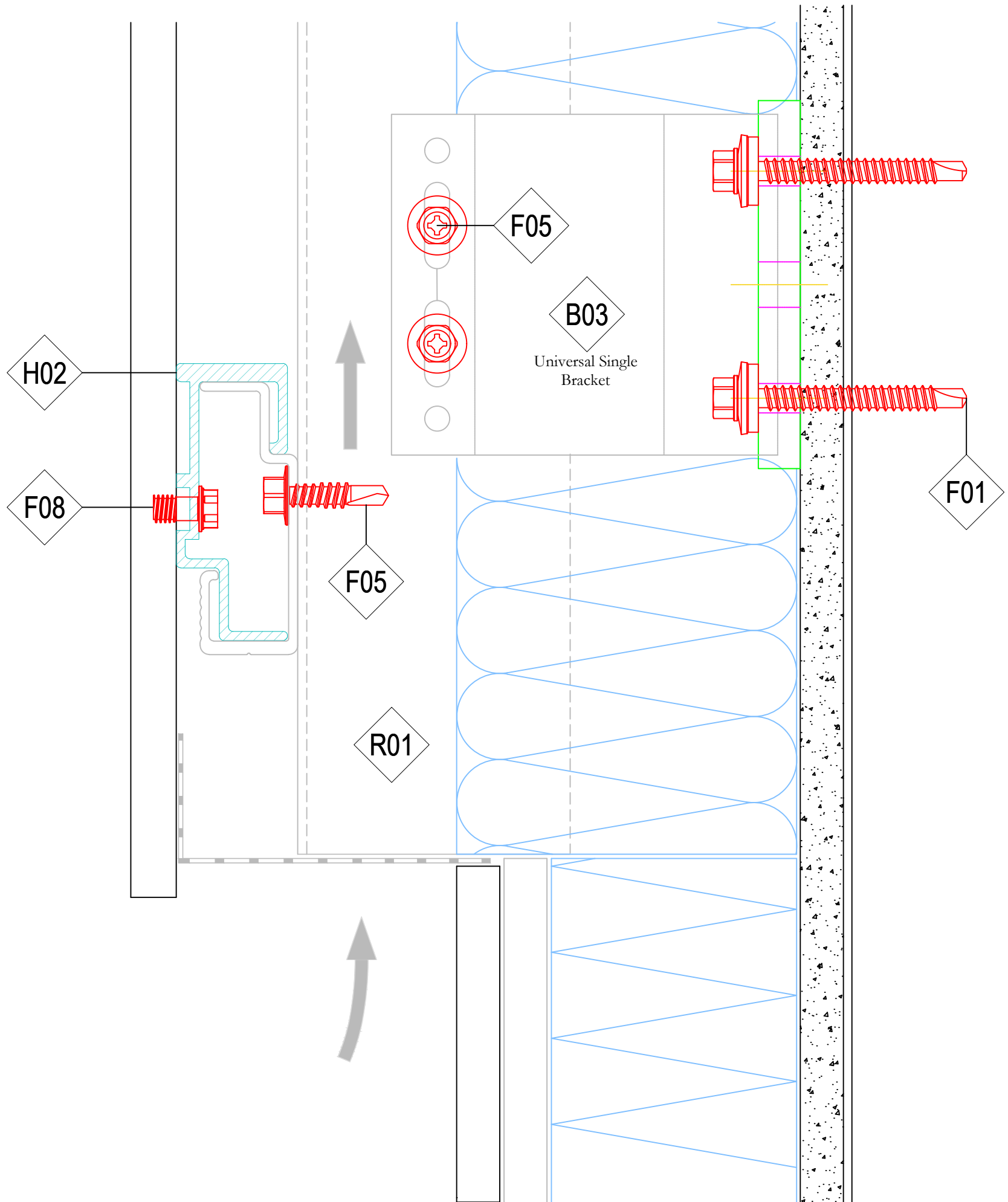


# NV3 DETAIL SET

REVISION  
IR

DATE  
03.23.2022

SCALE  
1:1





SHEET

# NV3-08

SHEET TITLE

## Section - Horizontal Panel Joint

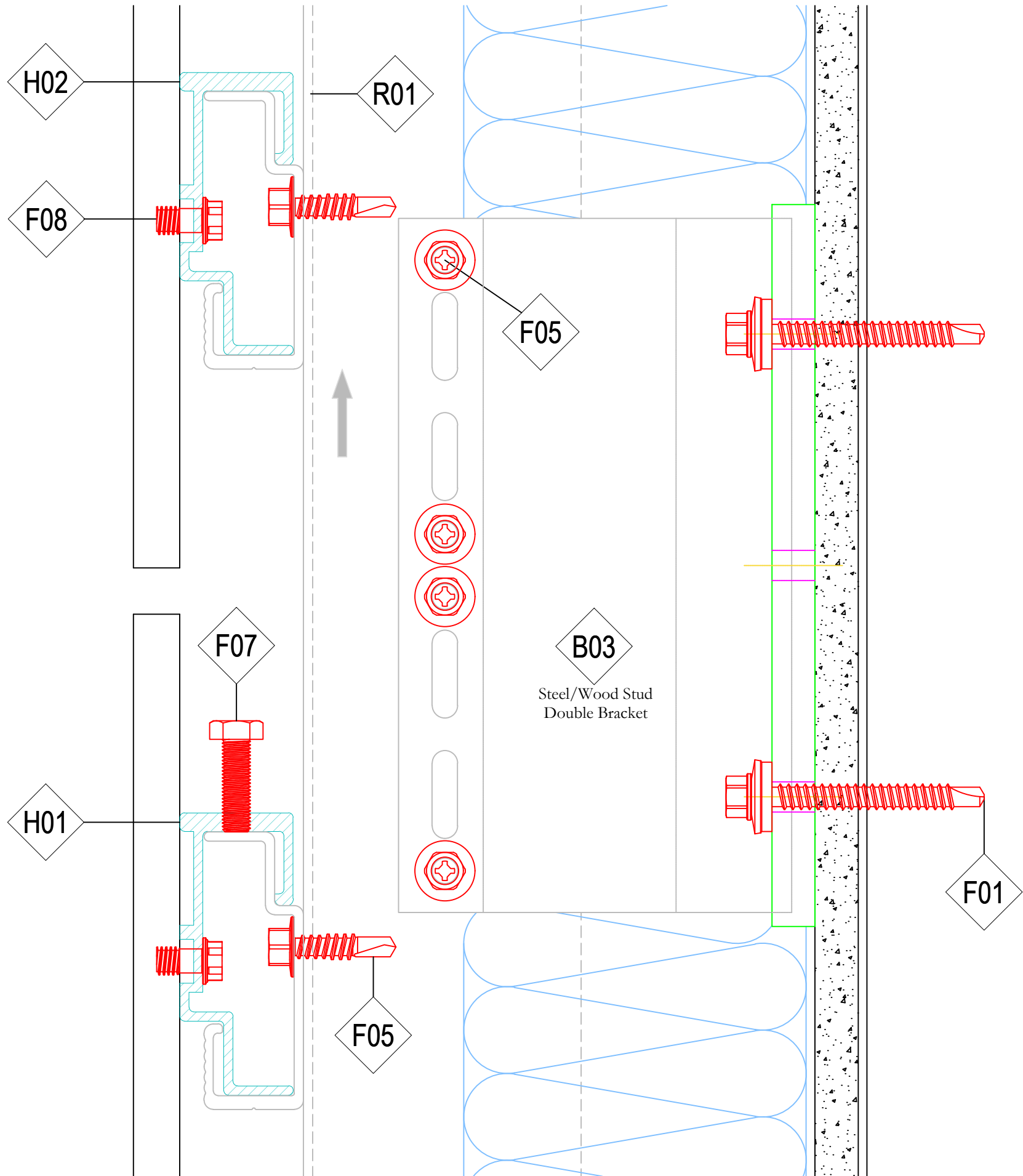


### NV3 DETAIL SET

REVISION  
IR

DATE  
03.23.2022

SCALE  
1:1



SHEET

# NV3-09

SHEET TITLE

Section - Center of Panel

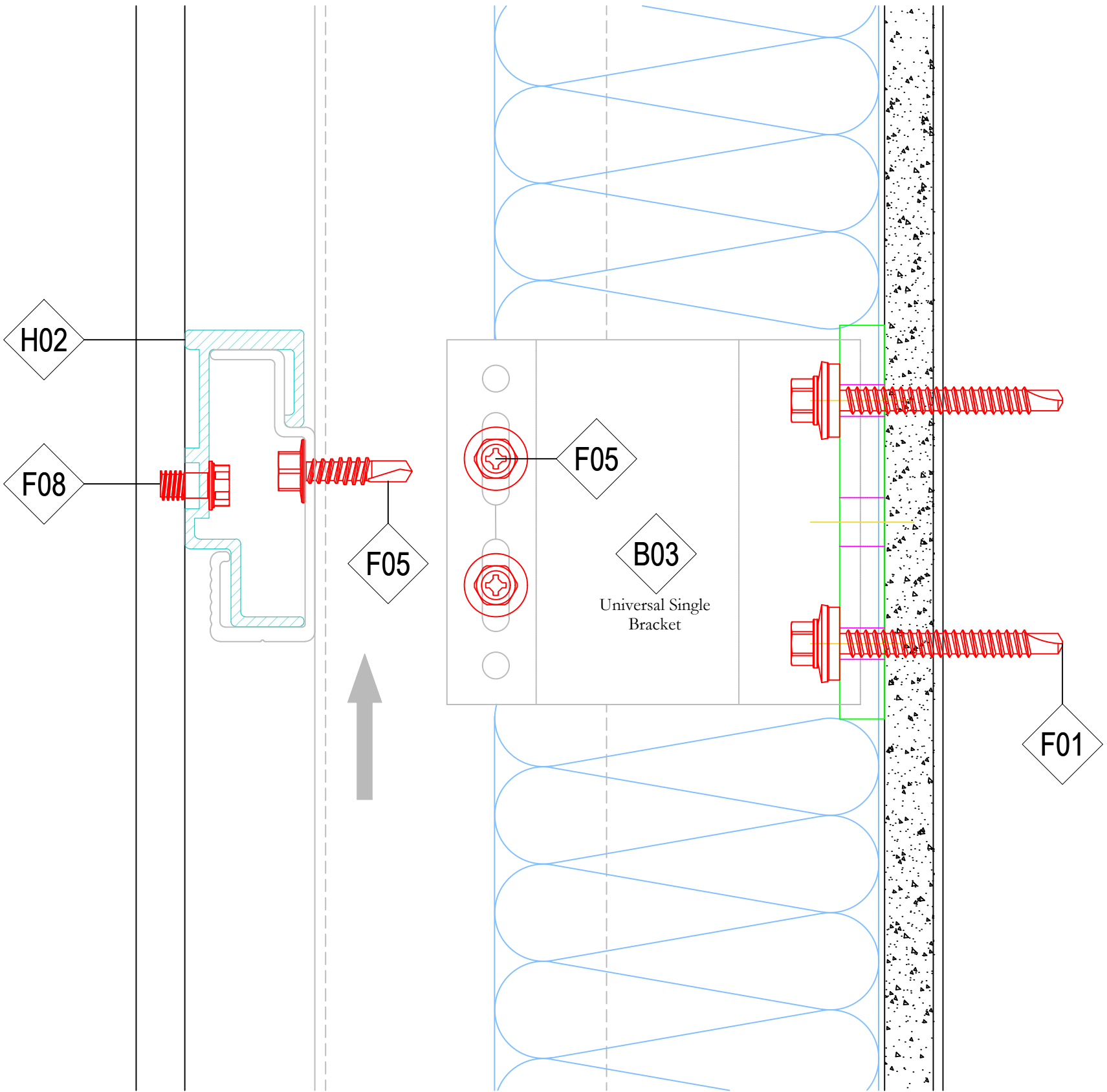


## NV3 DETAIL SET

REVISION  
IR

DATE  
03.23.2022

SCALE  
1:1



SHEET

# NV3-10

SHEET TITLE

Section - Rail Termination with Slip Connect

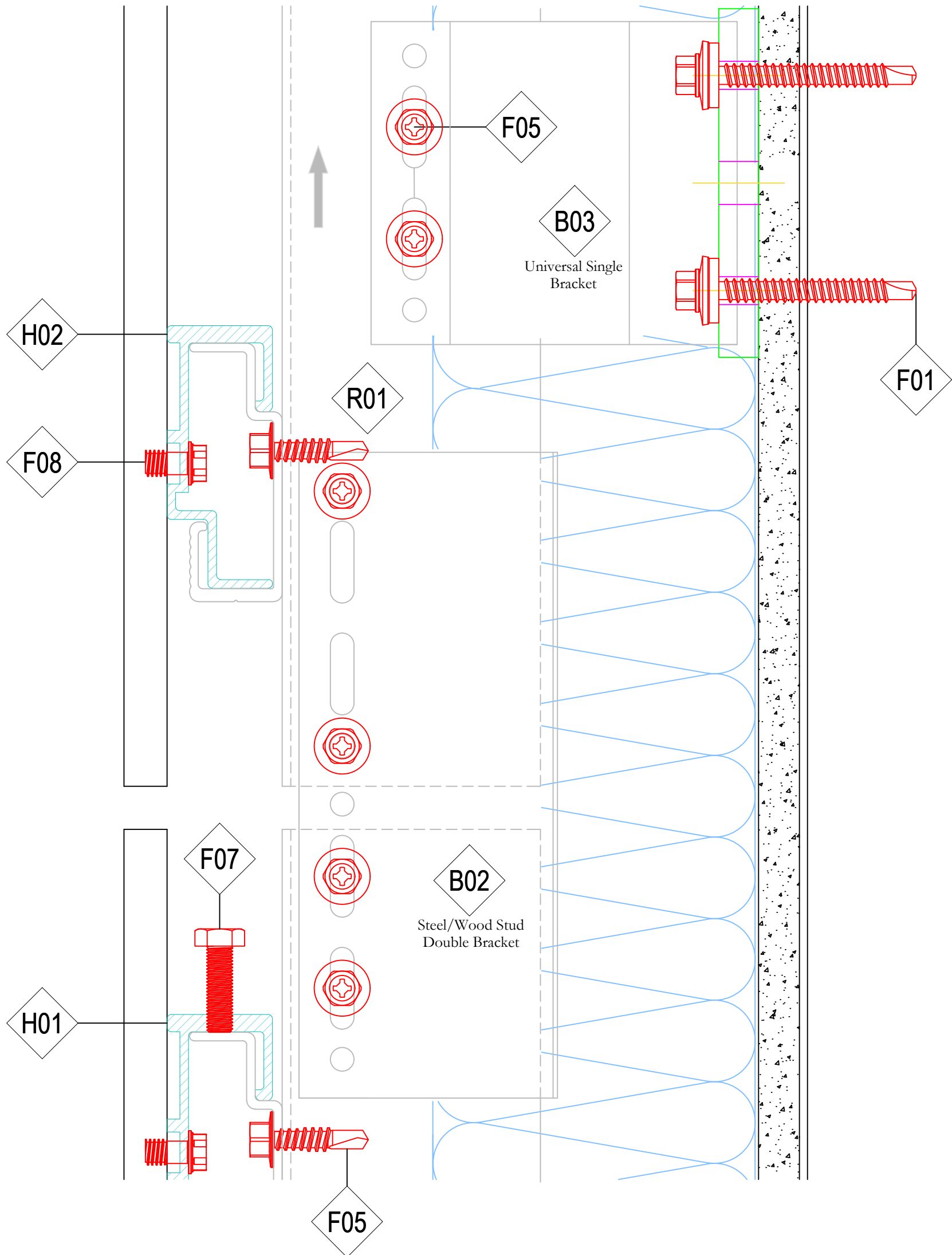


## NV3 DETAIL SET

REVISION  
IR

DATE  
03.23.2022

SCALE  
1:1



SHEET

# NV3-11

SHEET TITLE

## Section - Top of Cladding

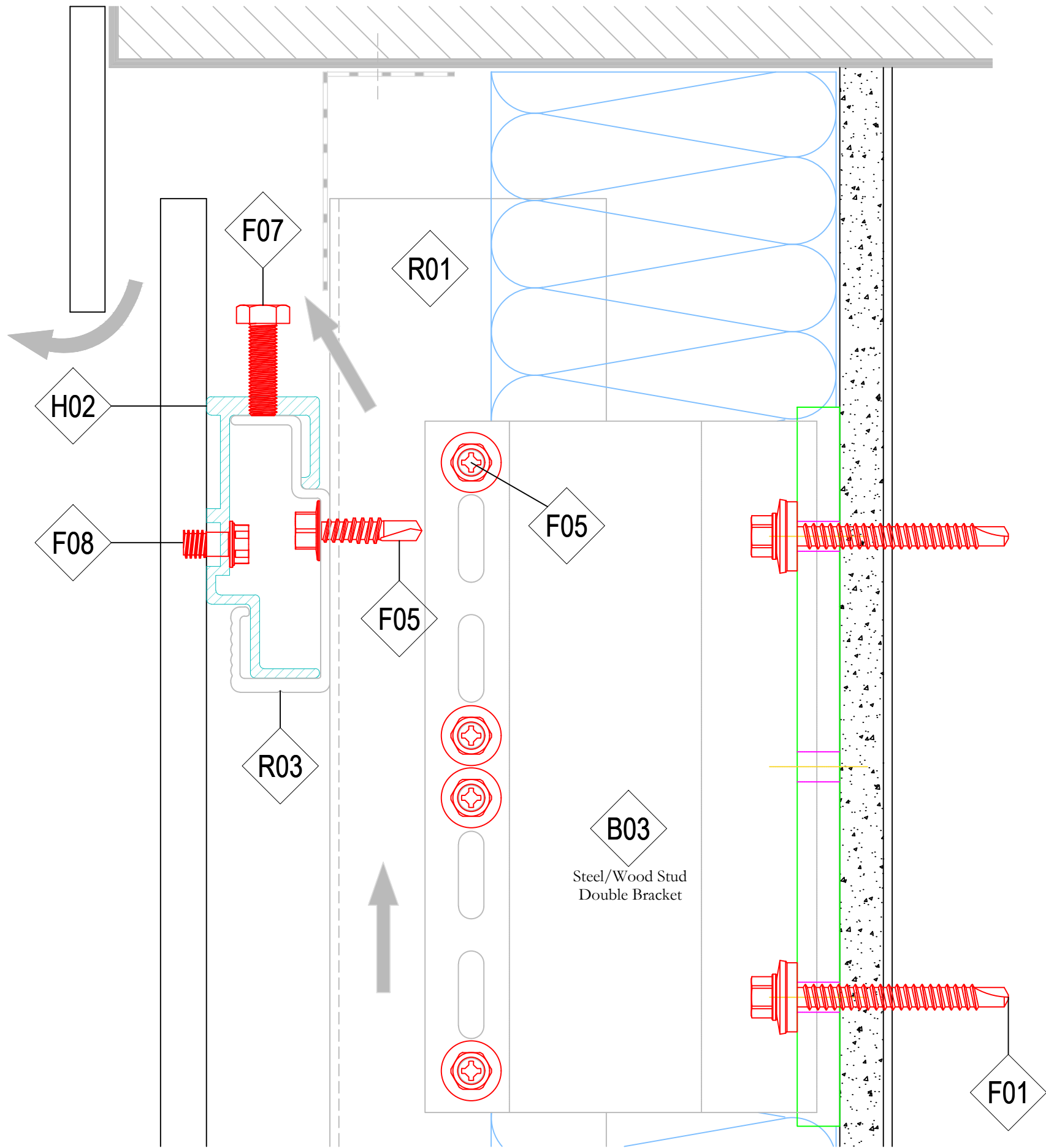


# NV3 DETAIL SET

REVISION  
IR

DATE  
03.23.2022

SCALE  
1:1



SHEET

# NV3-12

SHEET TITLE

## Section - Window Sill

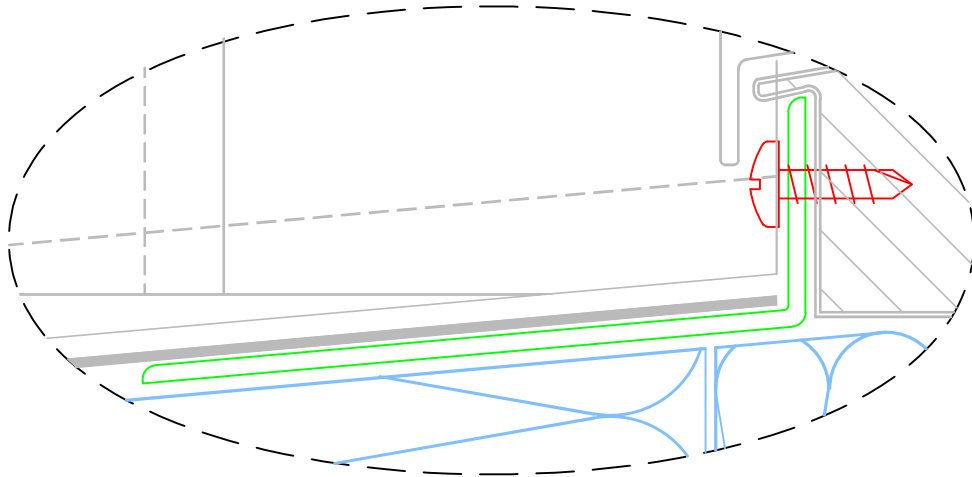


# NV3 DETAIL SET

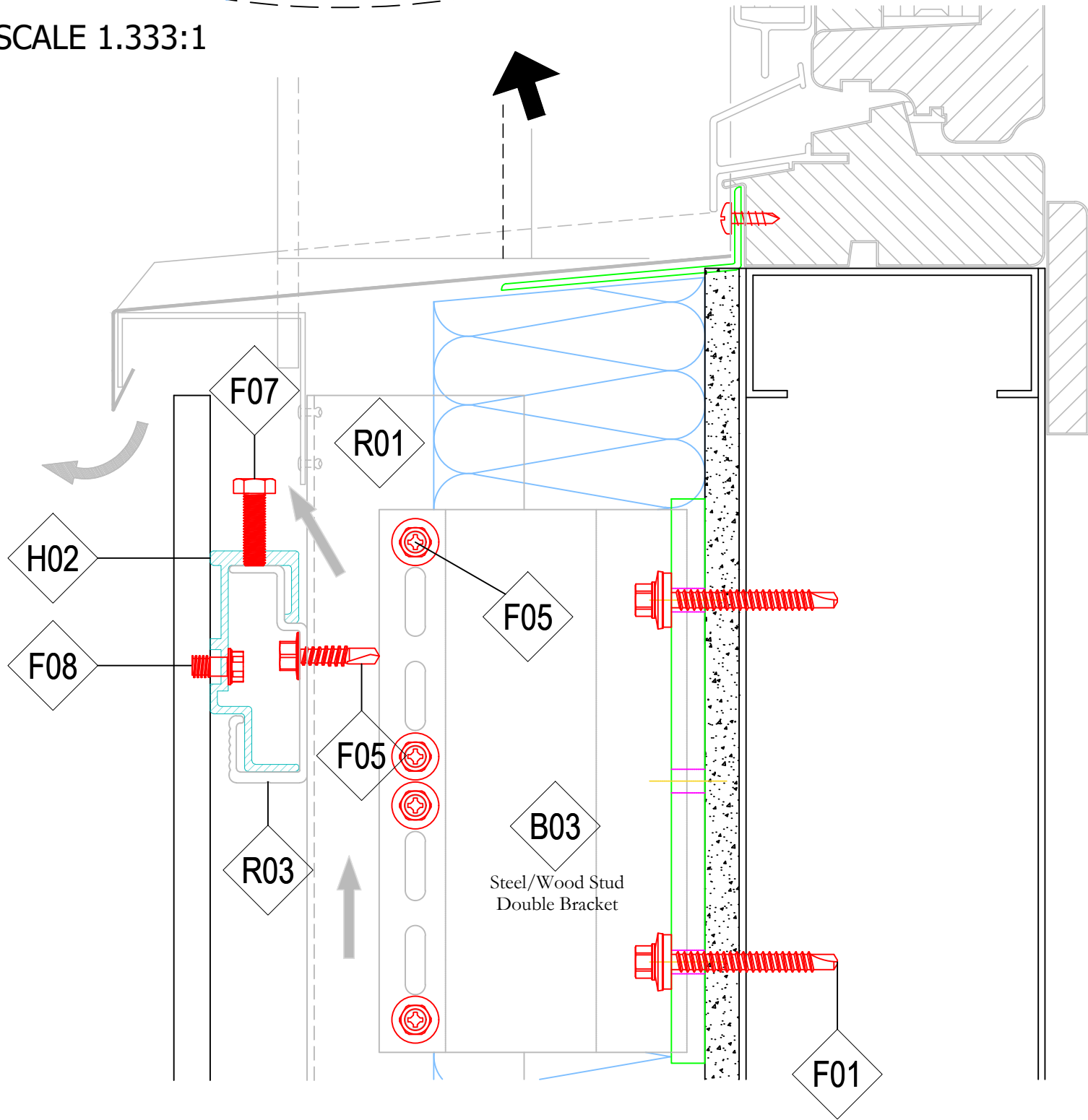
REVISION  
IR

DATE  
03.23.2022

SCALE  
1:1.5



SCALE 1.333:1



SHEET

# NV3-13

SHEET TITLE

## Section - Window Head

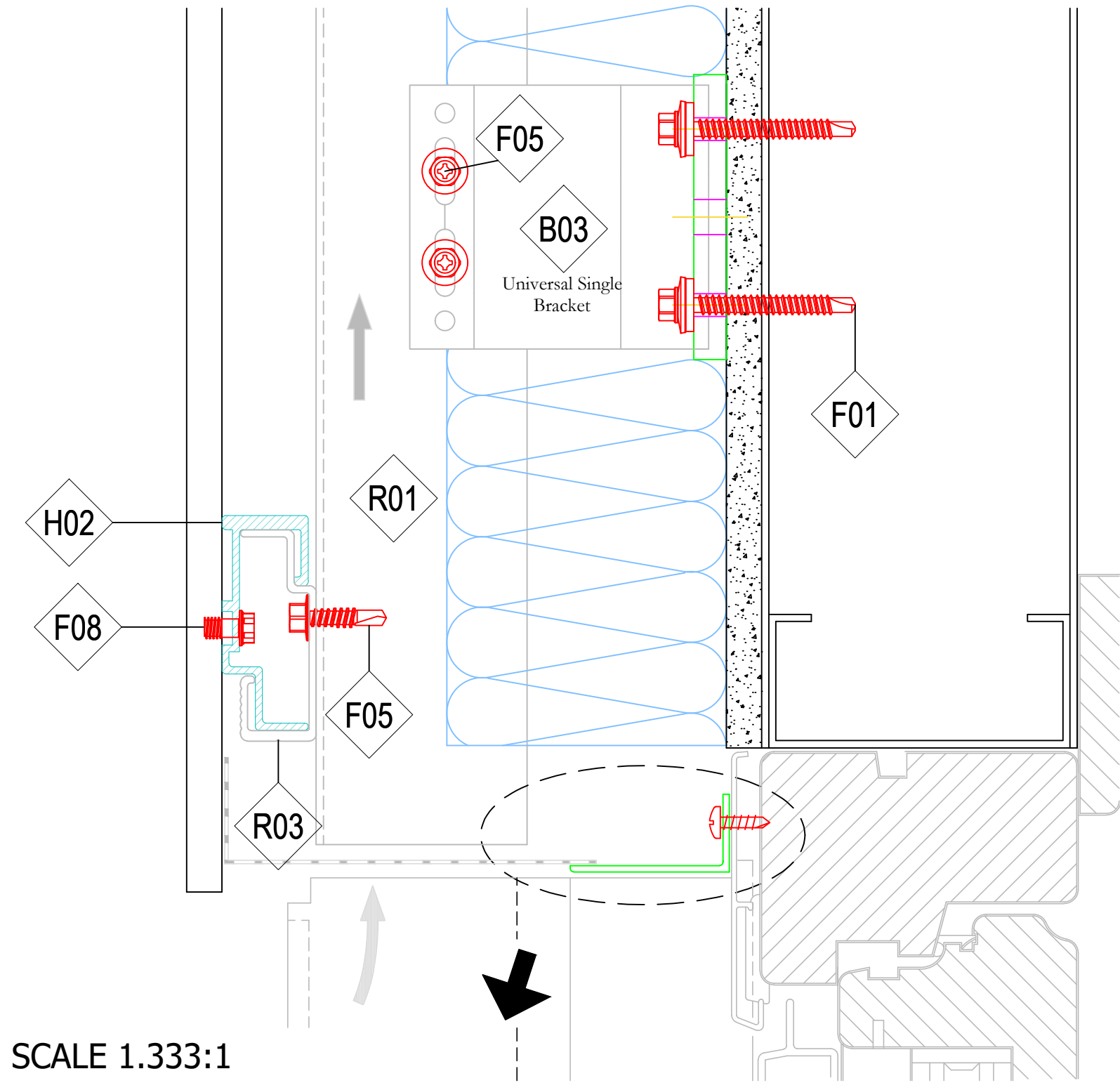


# NV3 DETAIL SET

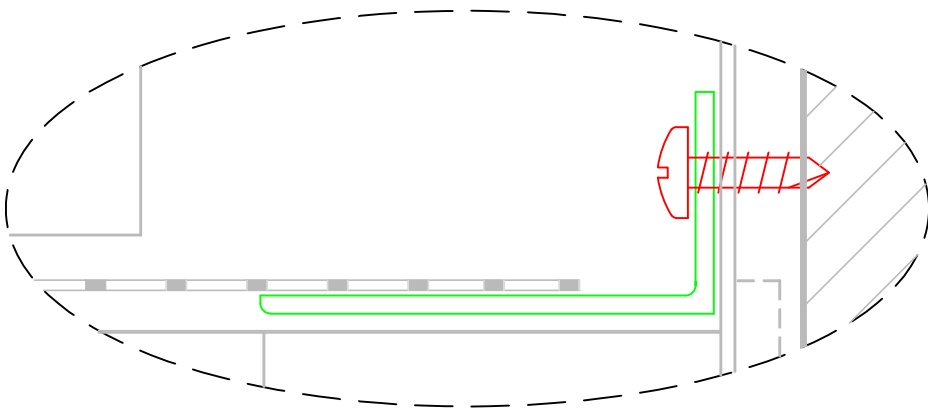
REVISION  
IR

DATE  
03.23.2022

SCALE  
1:1.5



SCALE 1.333:1



SHEET

# NV3-14

SHEET TITLE

## Section - Window Jamb

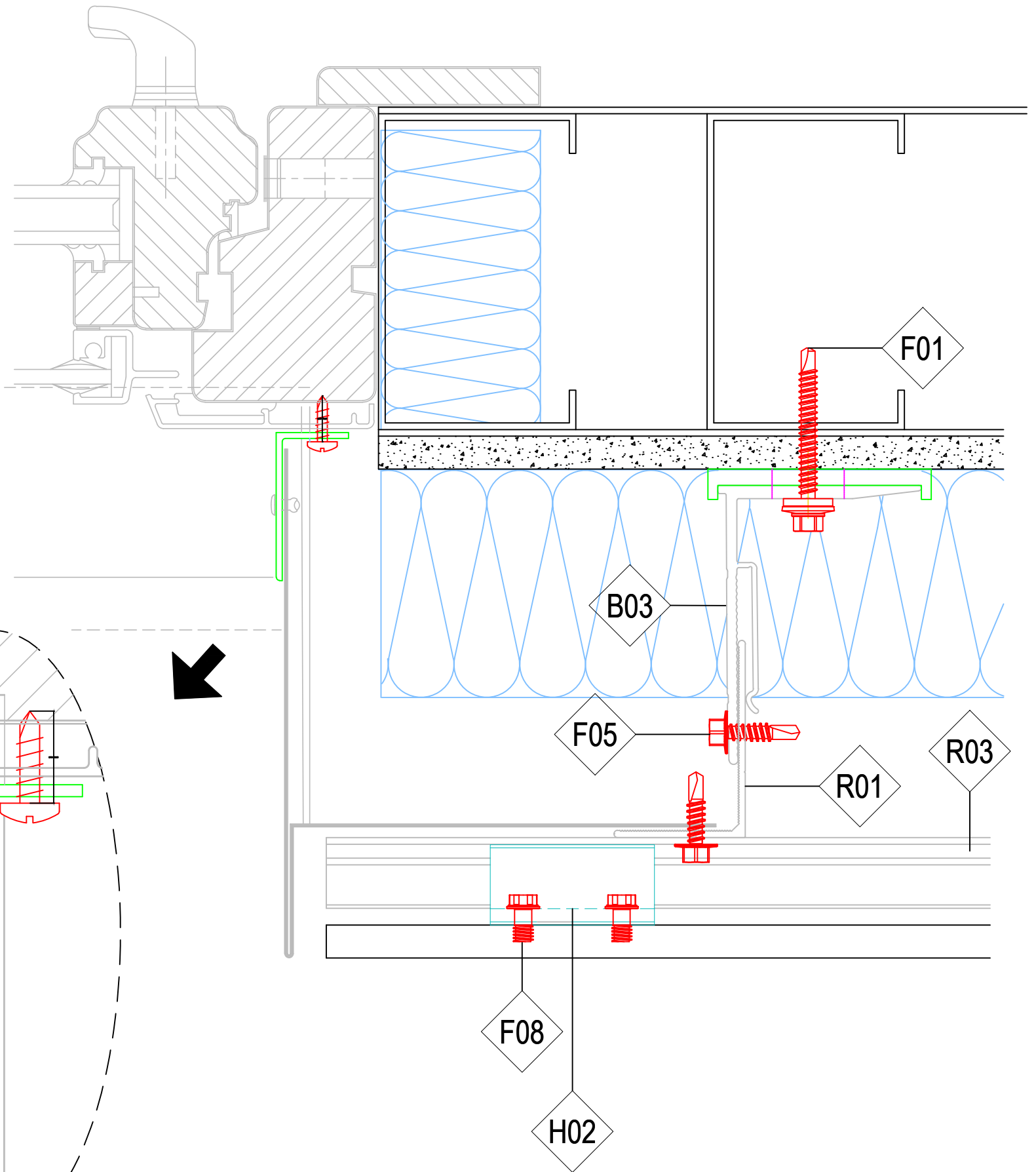


# NV3 DETAIL SET

REVISION  
IR

DATE  
03.23.2022

SCALE  
1:1.5



SCALE 1.333:1

SHEET

# NV3-15

SHEET TITLE

## Plan - Internal Corner

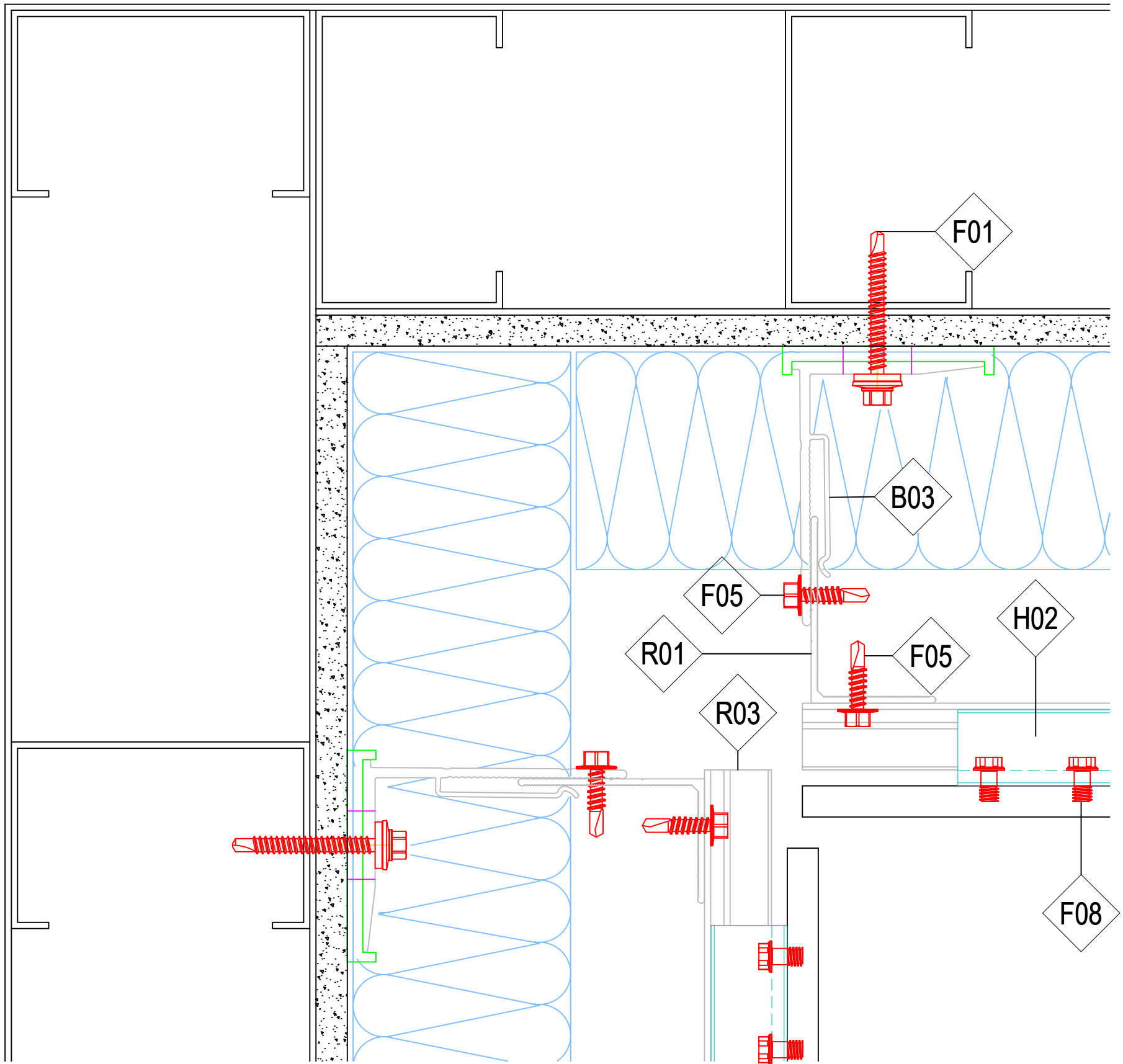


# NV3 DETAIL SET

REVISION  
IR

DATE  
03.23.2022

SCALE  
1:1.5





SHEET

# NV3-16

SHEET TITLE

## Plan - Vertical Panel Joint

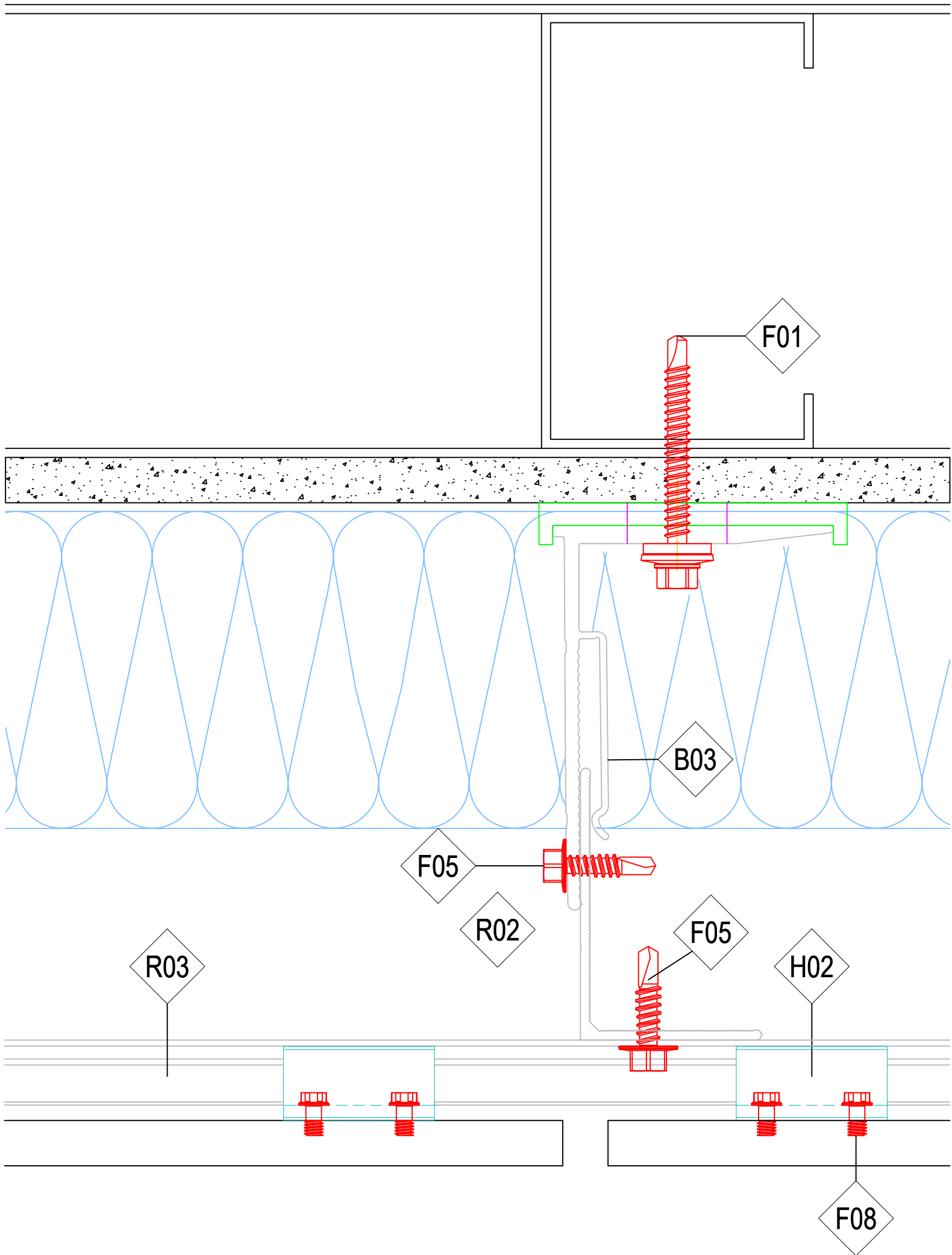


# NV3 DETAIL SET

REVISION  
IR

DATE  
03.23.2022

SCALE  
1:1



SHEET

# NV3-17

SHEET TITLE

## Plan - External Corner

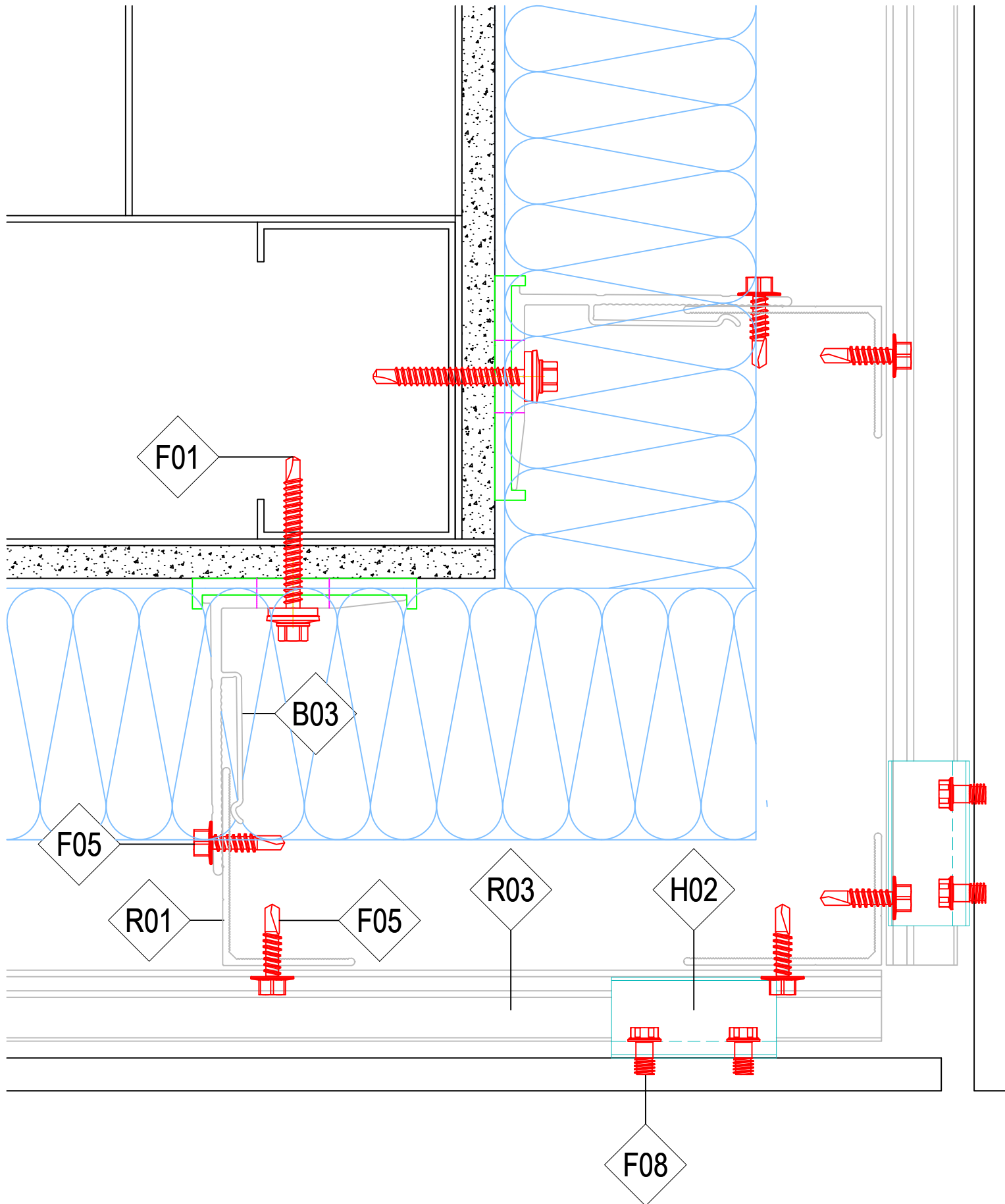


# NV3 DETAIL SET

REVISION  
IR

DATE  
03.23.2022

SCALE  
1:1.5



SHEET

# NV3-18

SHEET TITLE

Plan - External Corner with Corner Rail

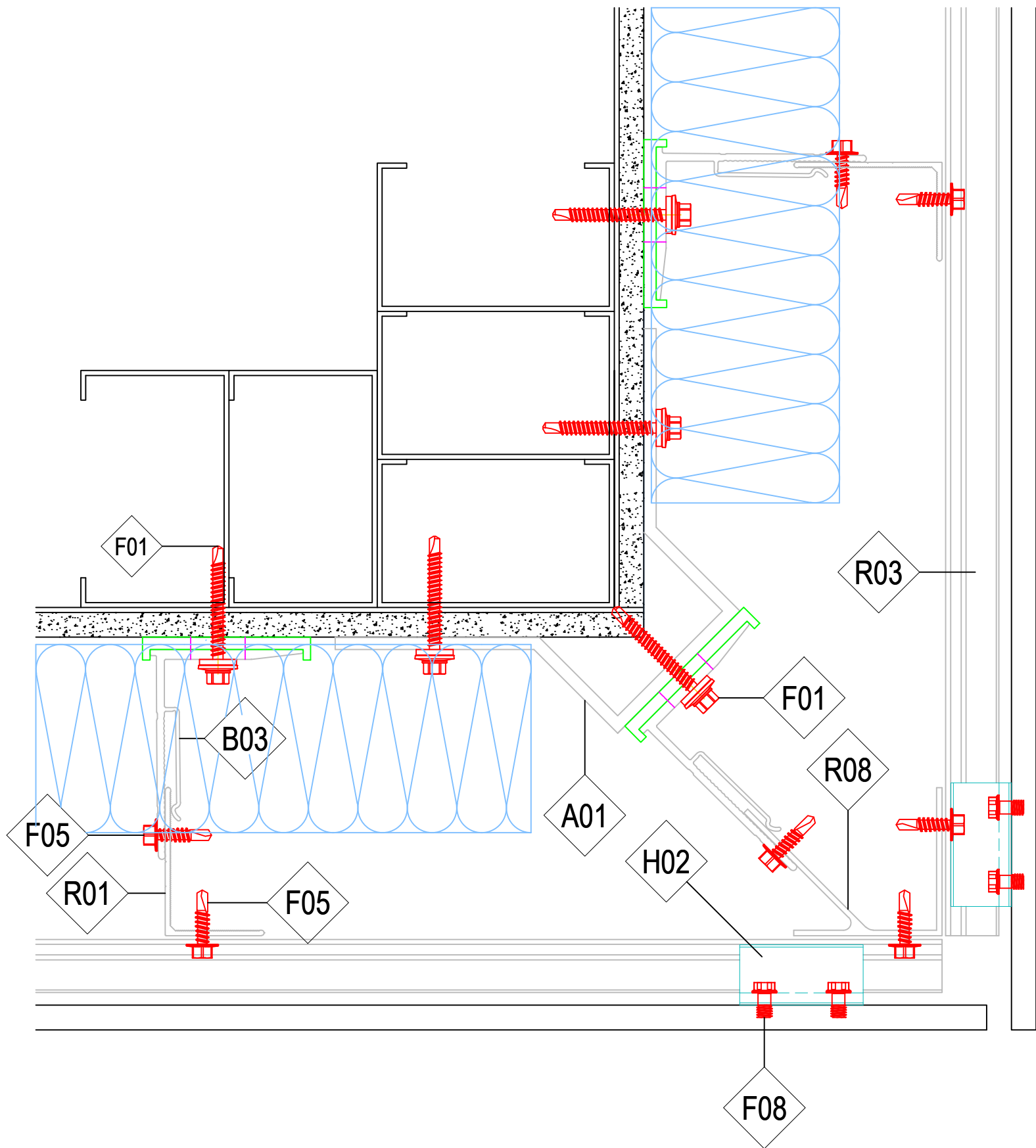


## NV3 DETAIL SET

REVISION  
IR

DATE  
03.23.2022

SCALE  
1:2



SHEET

# NV3-19

SHEET TITLE

## Section - Bracket Install Guide

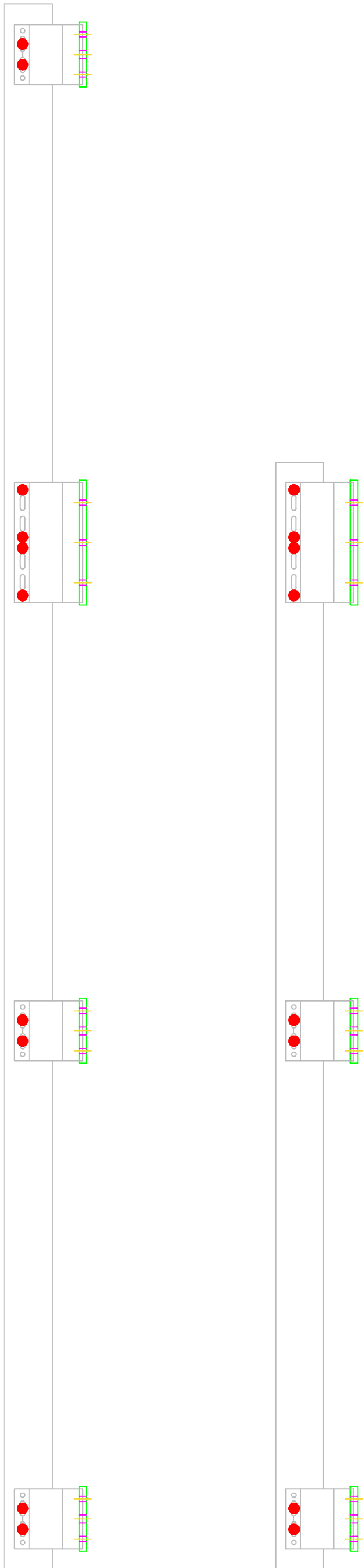


# NV3 DETAIL SET


REVISION  
IR

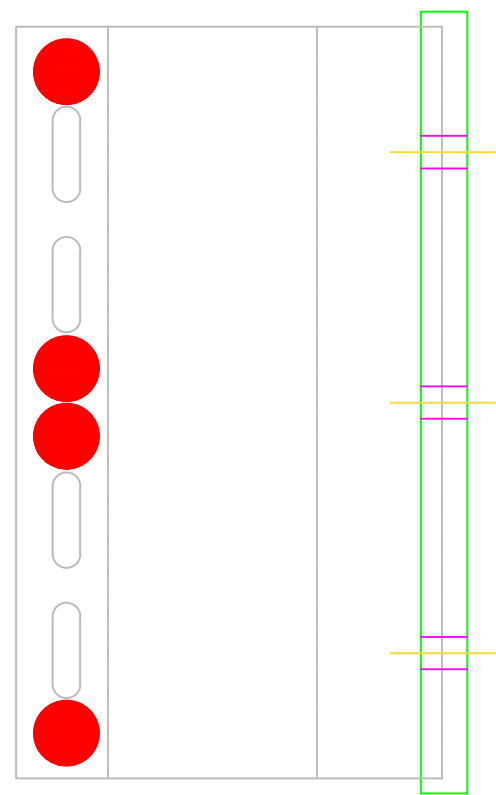
DATE  
03.23.2022

SCALE  
NTS

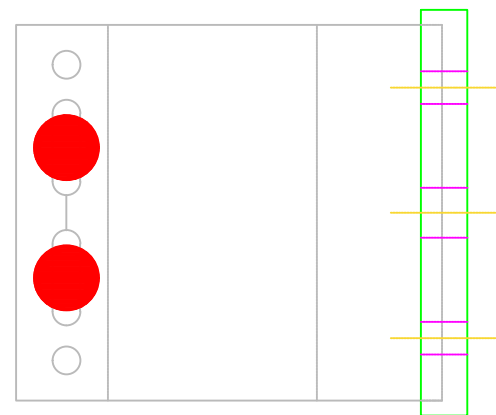


Typical Rail Configurations

 SDA5-5.5-22 Rail Fastener



Fixed Point



Sliding Point

The following are a representation of installation best practices and are not replacements for project specific engineering. Shop drawings take precedence.