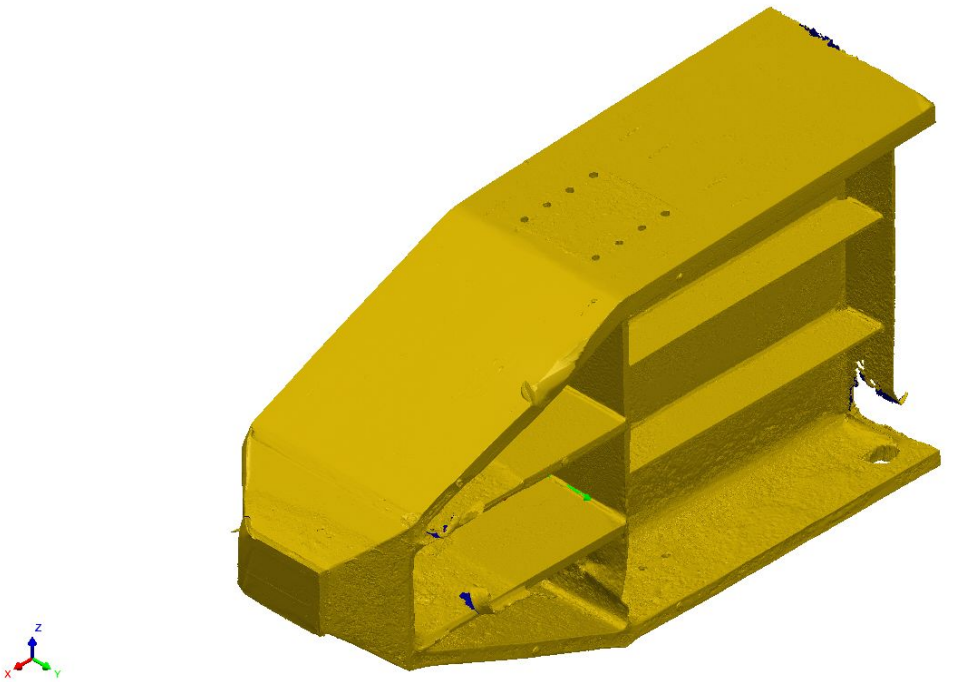
Creaform Inspection Reports
B1L
B1R
B2L
B2R

Pittsburgh, PA

HWY22MH003

(61 pages)

B1L Inspection Report



Company	Creaform
Customer	NTSB
Creaform Project Manager & email	Gabrielle Cobos [redacted]
Metrologist	Yang Lu
Item Number	B1L
Units	inch
Device	MetraSCAN Black
Inspection date	Thursday, September 8, 2022
Revision number	REV 0

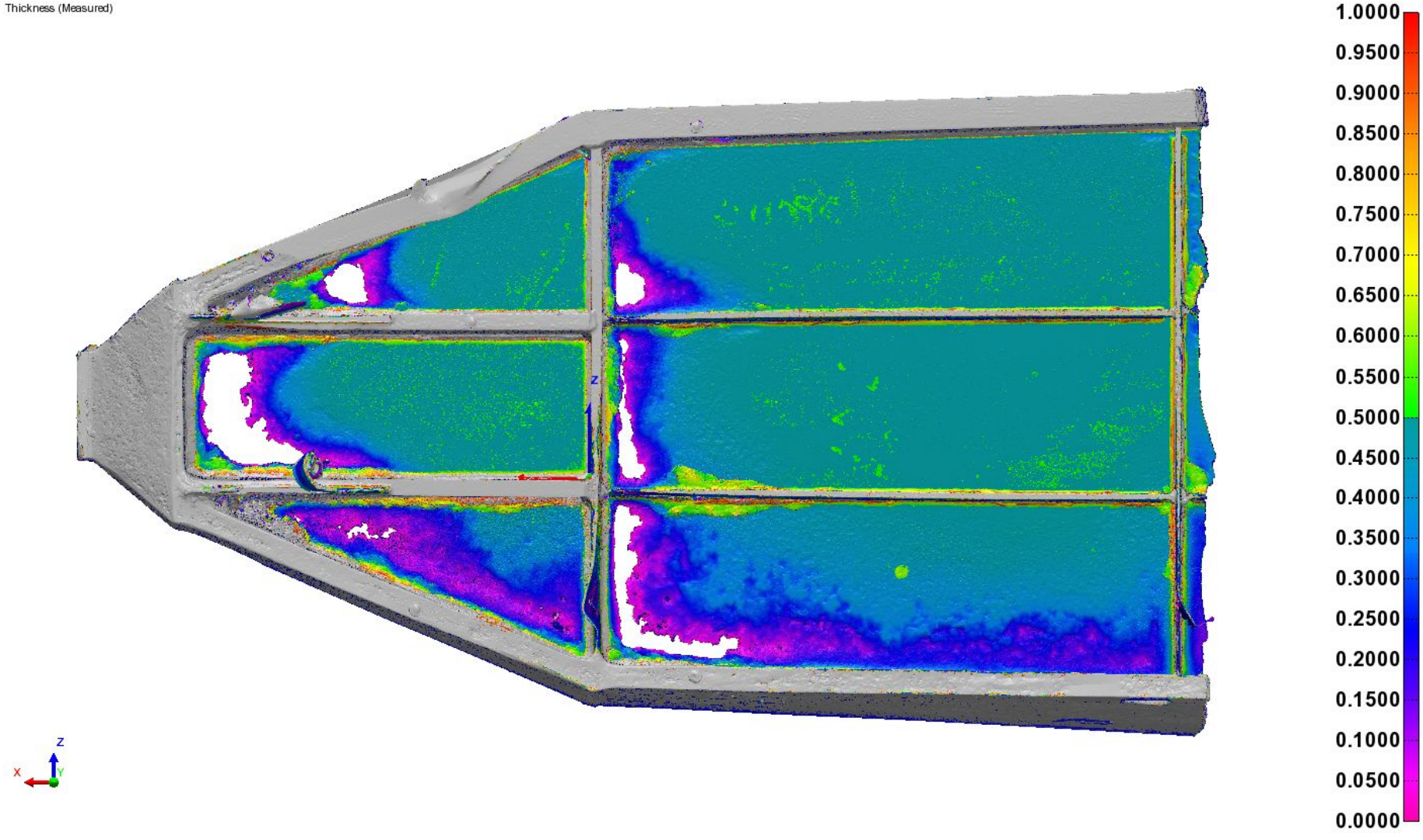
DEVICE USED

Scanning with MetraSCAN 3D

With the MetraSCAN 3D, the surface has been scanned and an optimize mesh was directly generated. The acquisition has been done in a dynamic mode thanks to reference targets positionned on the part and tracked in real time by the C-Track..

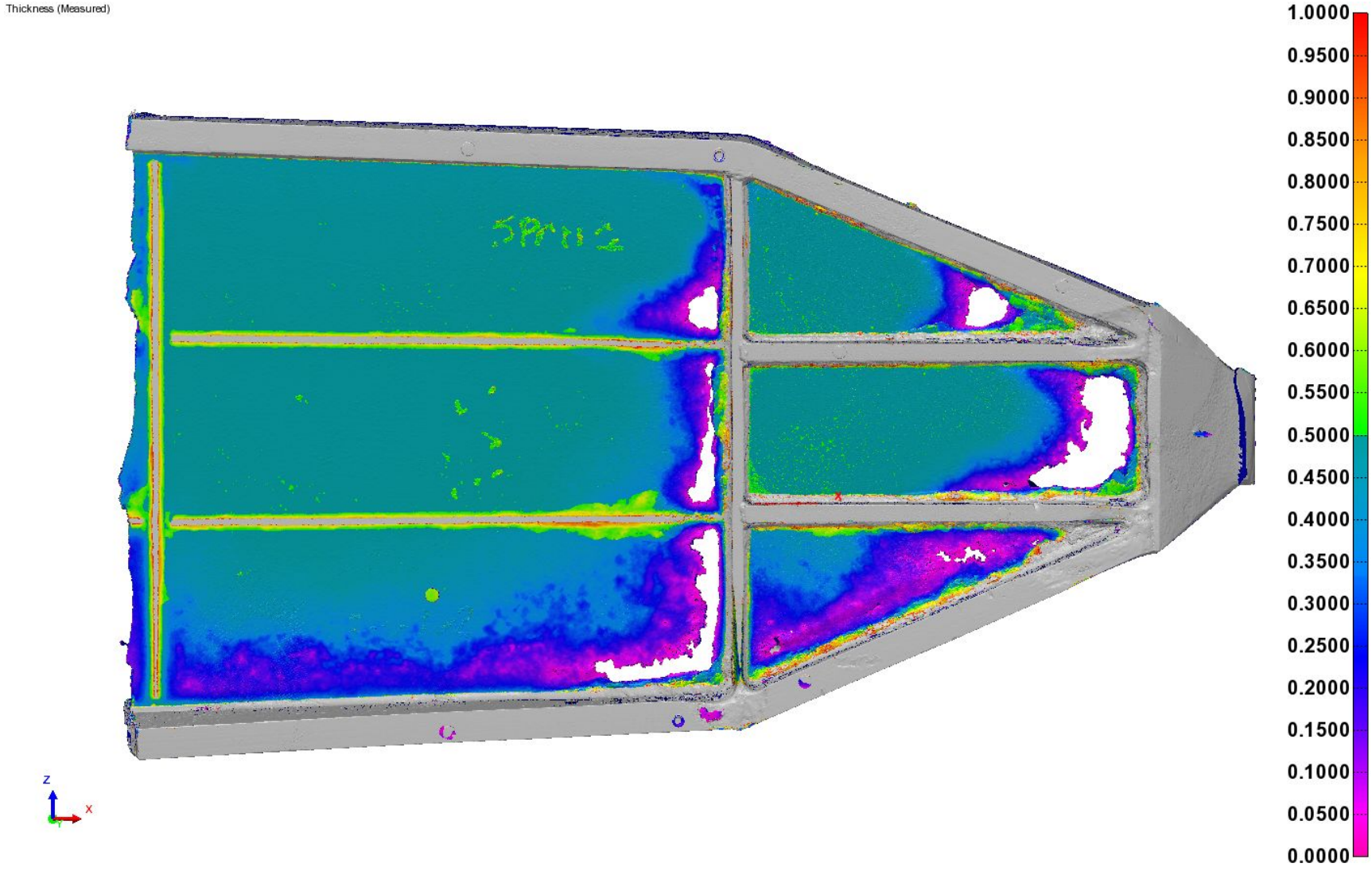
RESULTS

Elevation View - Front



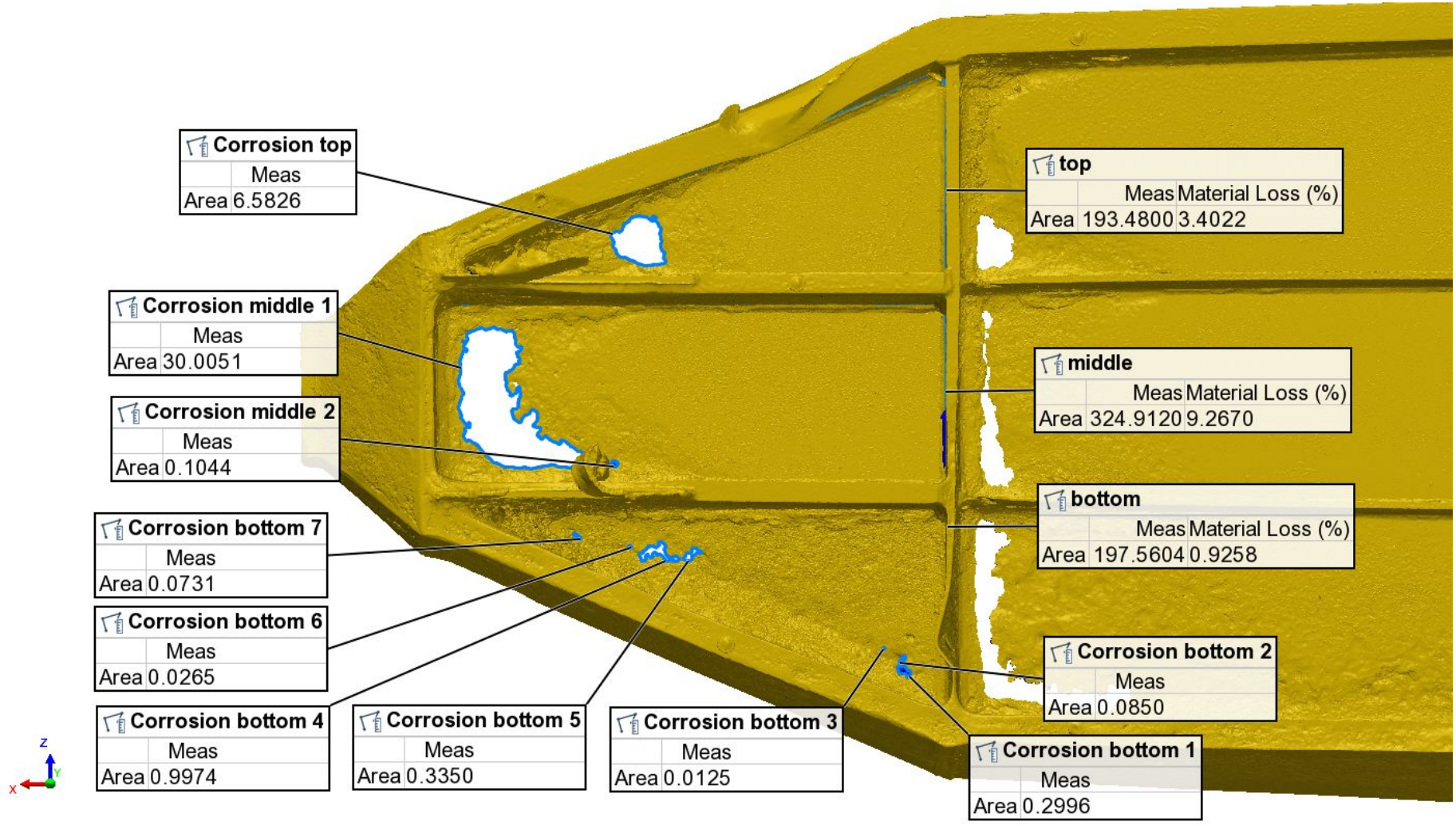
RESULTS

Elevation View - Back



RESULTS

Material Loss - Shoe



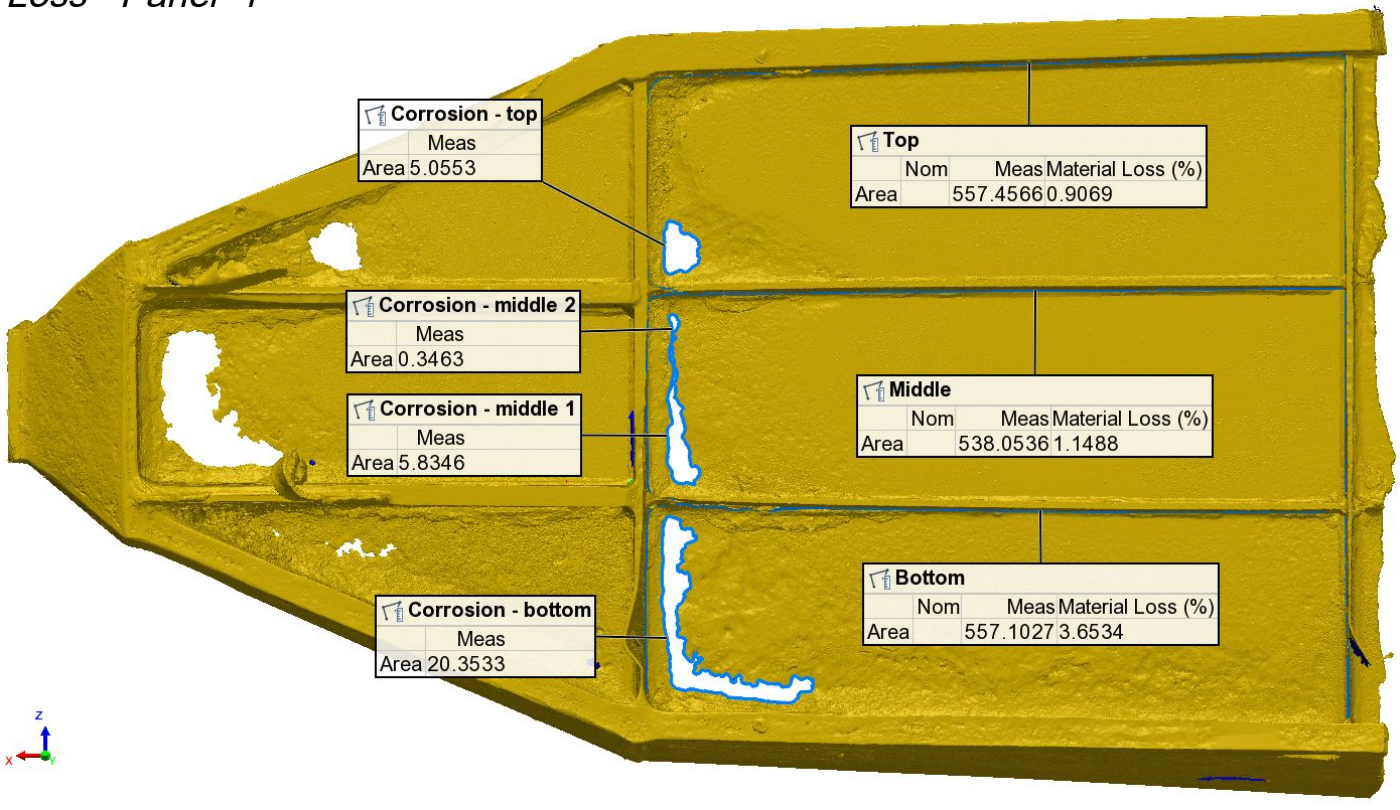
RESULTS

Material Loss - Shoe

Name	Control	Material Loss (%)	Meas
Corrosion top	Area		6.5826
top	Area	3.4022	193.4800
Corrosion middle 1	Area		30.0051
Corrosion middle 2	Area		0.1044
middle	Area	9.2670	324.9120
Corrosion bottom 1	Area		0.2996
Corrosion bottom 2	Area		0.0850
Corrosion bottom 3	Area		0.0125
Corrosion bottom 4	Area		0.9974
Corrosion bottom 5	Area		0.3350
Corrosion bottom 6	Area		0.0265
Corrosion bottom 7	Area		0.0731
bottom	Area	0.9258	197.5604

RESULTS

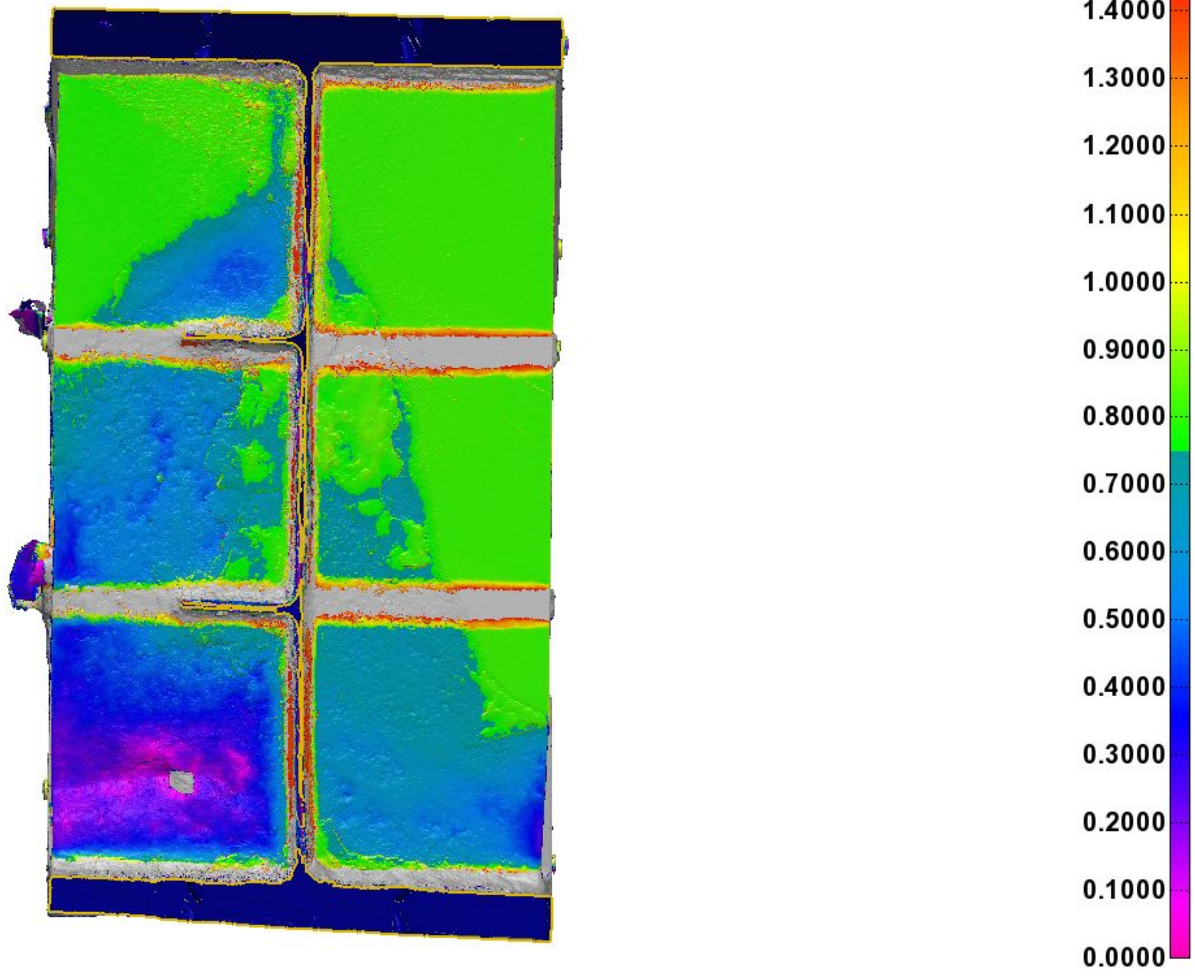
Material Loss - Panel 1



Name	Control	Material Loss (%)	Meas
Corrosion - top	Area		5.0553
Top	Area	0.9069	557.4566
Corrosion - middle 1	Area		5.8346
Corrosion - middle 2	Area		0.3463
Middle	Area	1.1488	538.0536
Corrosion - bottom	Area		20.3533
Bottom	Area	3.6534	557.1027

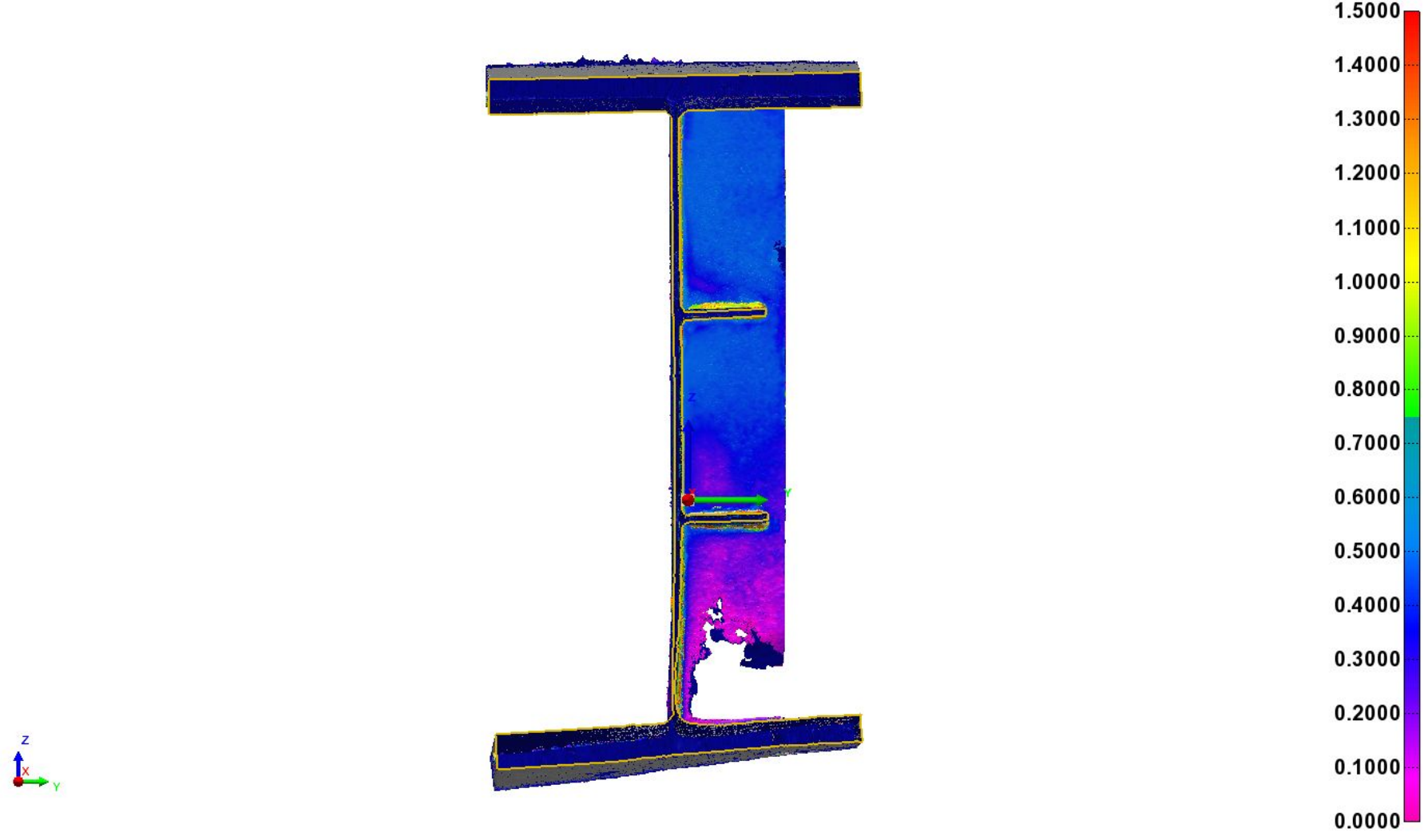
RESULTS

Tie Plate



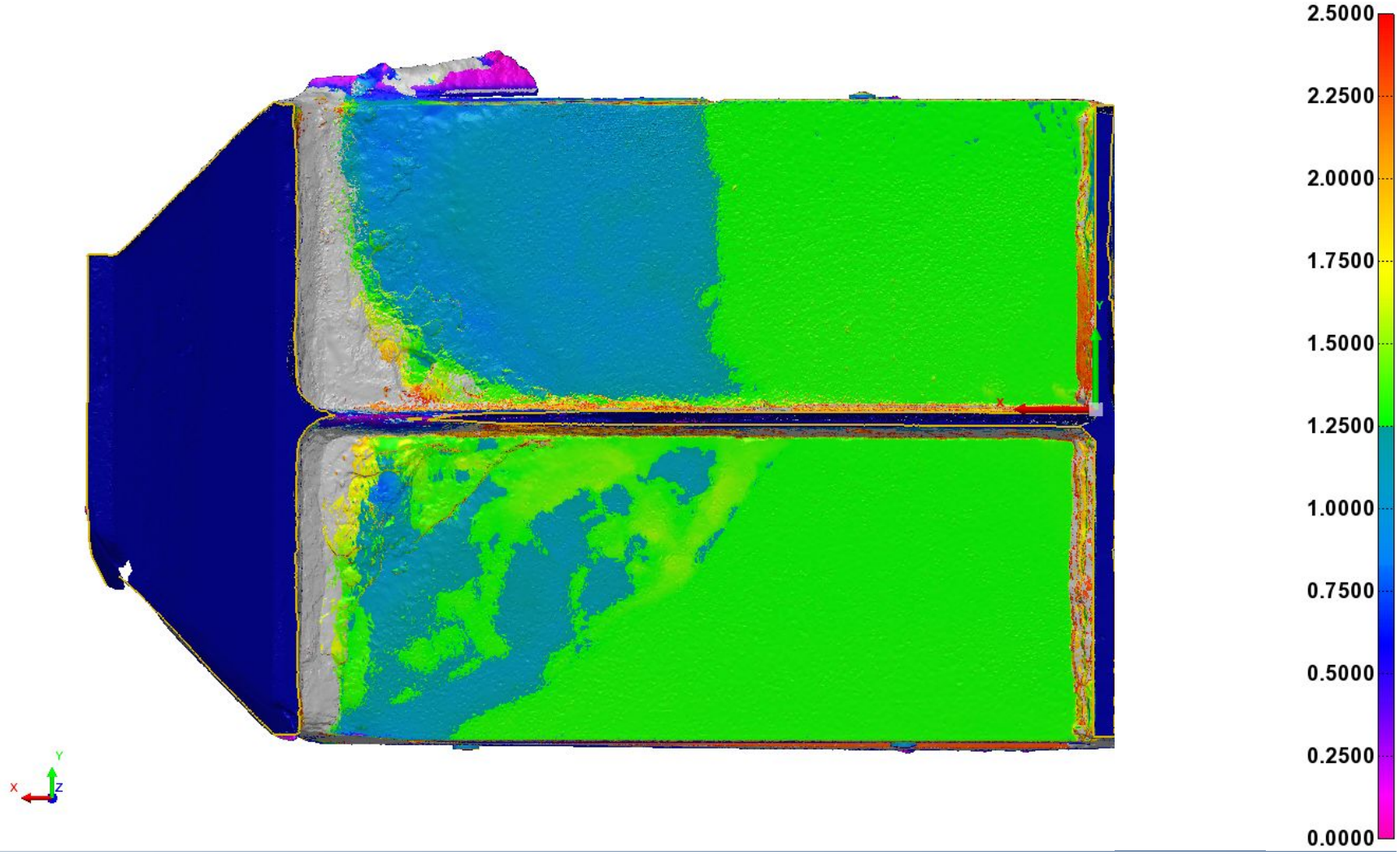
RESULTS

Transverse Stiffener



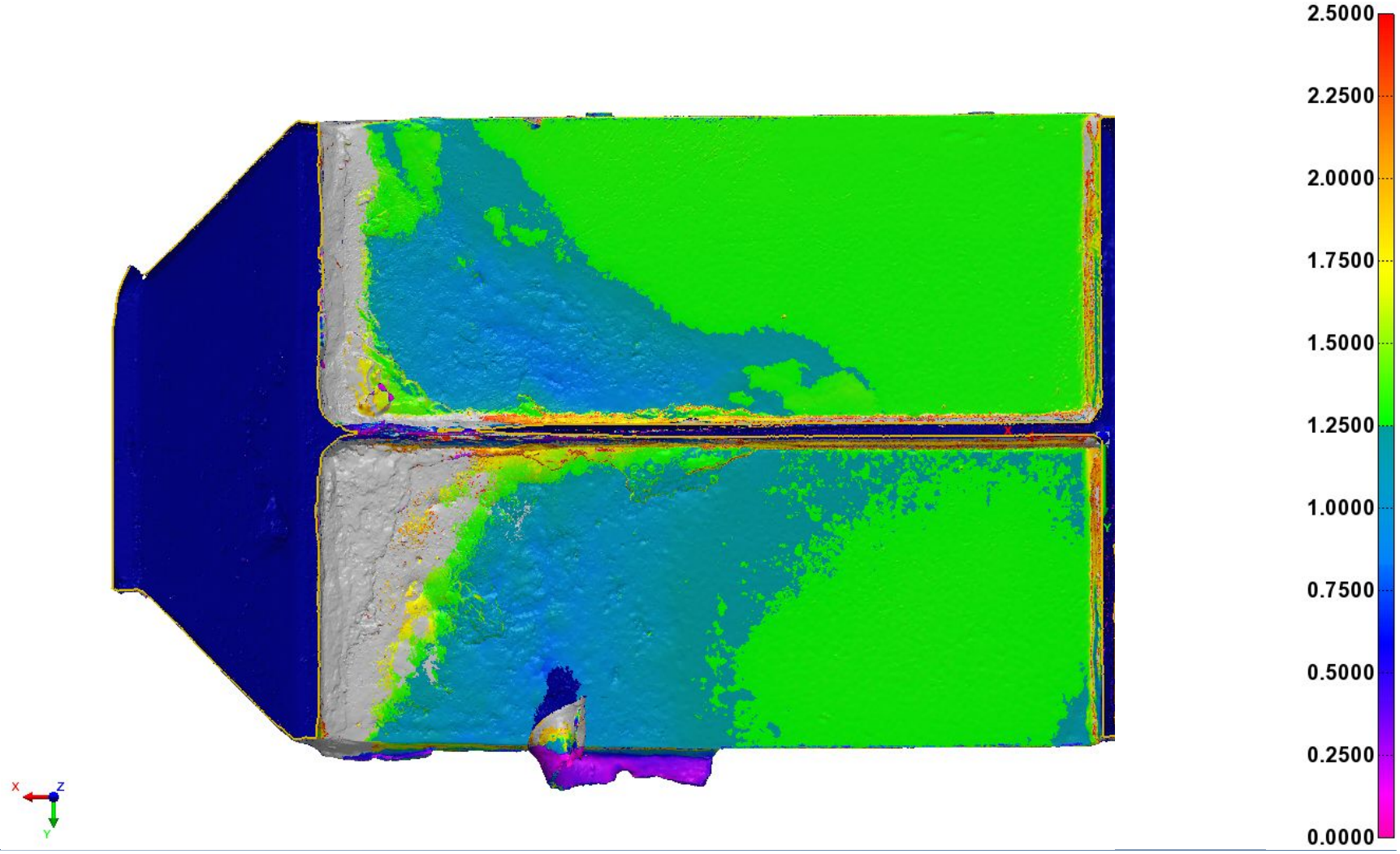
RESULTS

Longitudinal Stiffener - Shoe - Upper



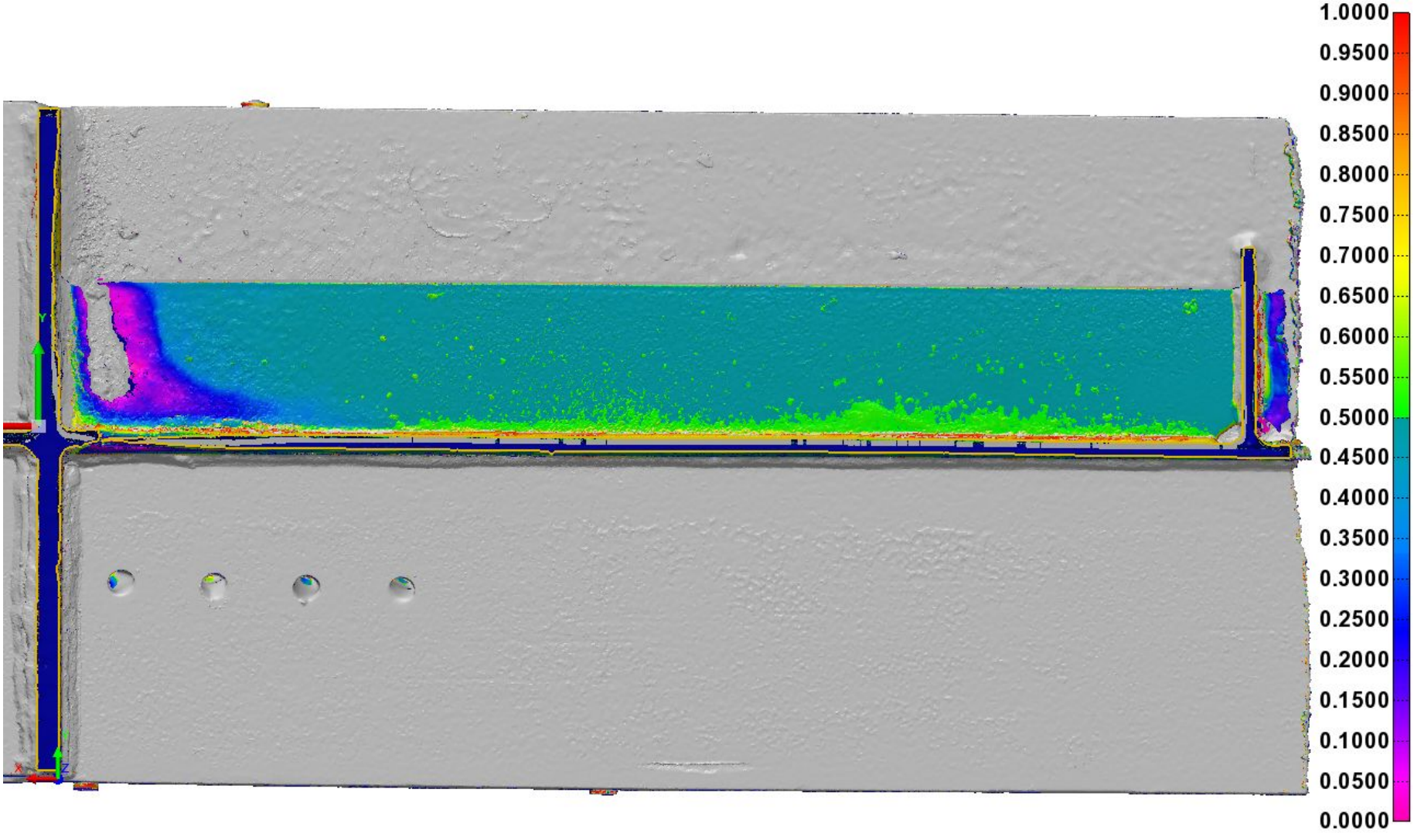
RESULTS

Longitudinal Stiffener - Shoe - Lower



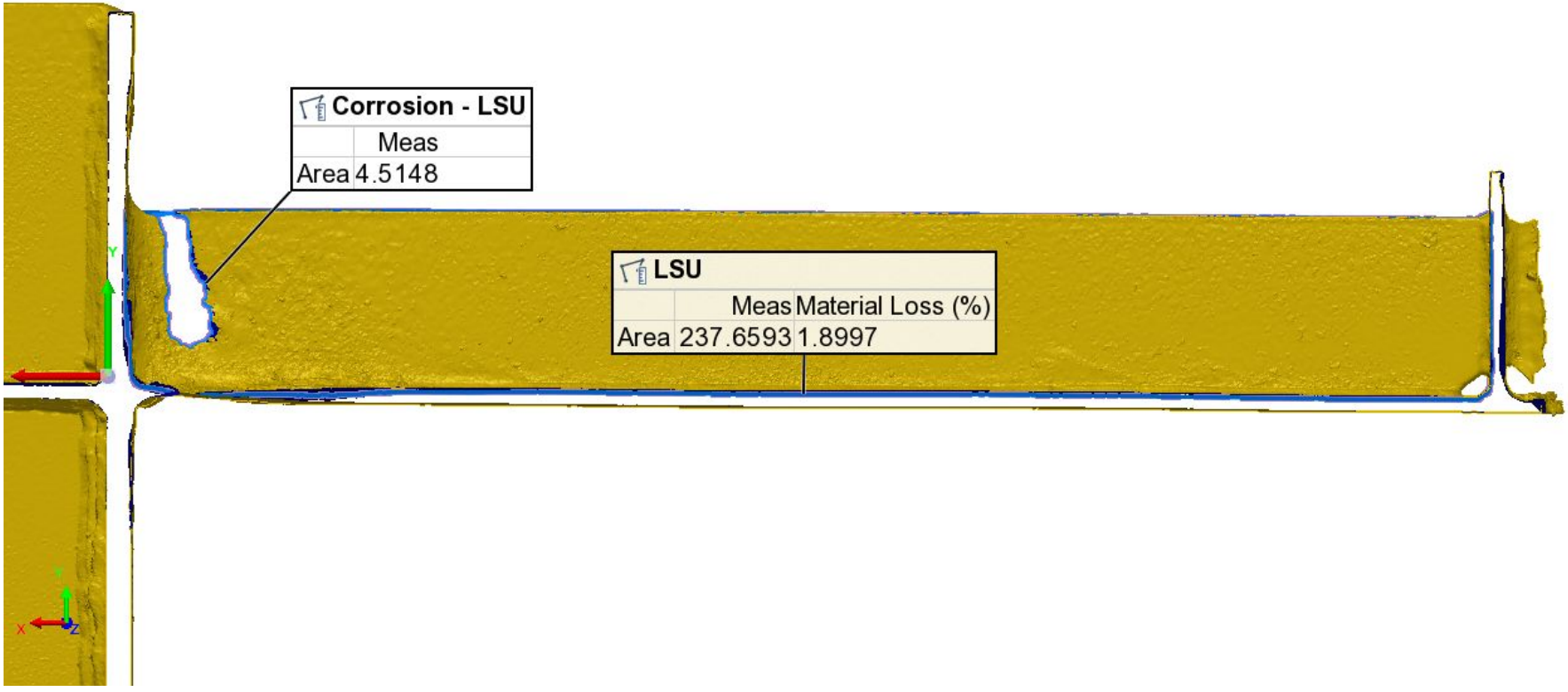
RESULTS

Longitudinal Stiffener - Panel 1 - Upper



RESULTS

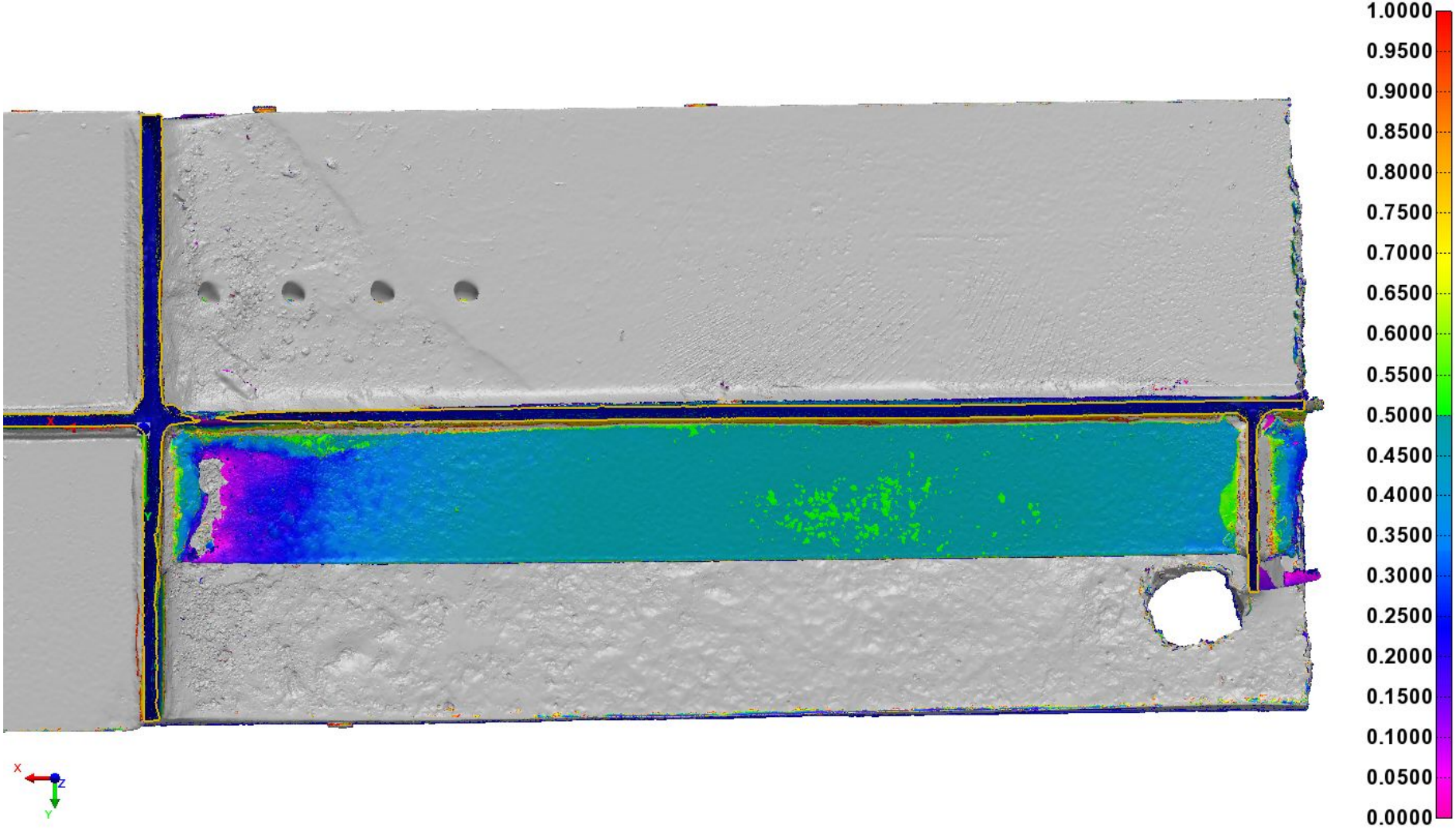
Material Loss - Longitudinal Stiffener - Panel 1 - Upper



Name	Control	Material Loss (%)	Meas
Corrosion - LSU	Area		4.5148
LSU	Area	1.8997	237.6593

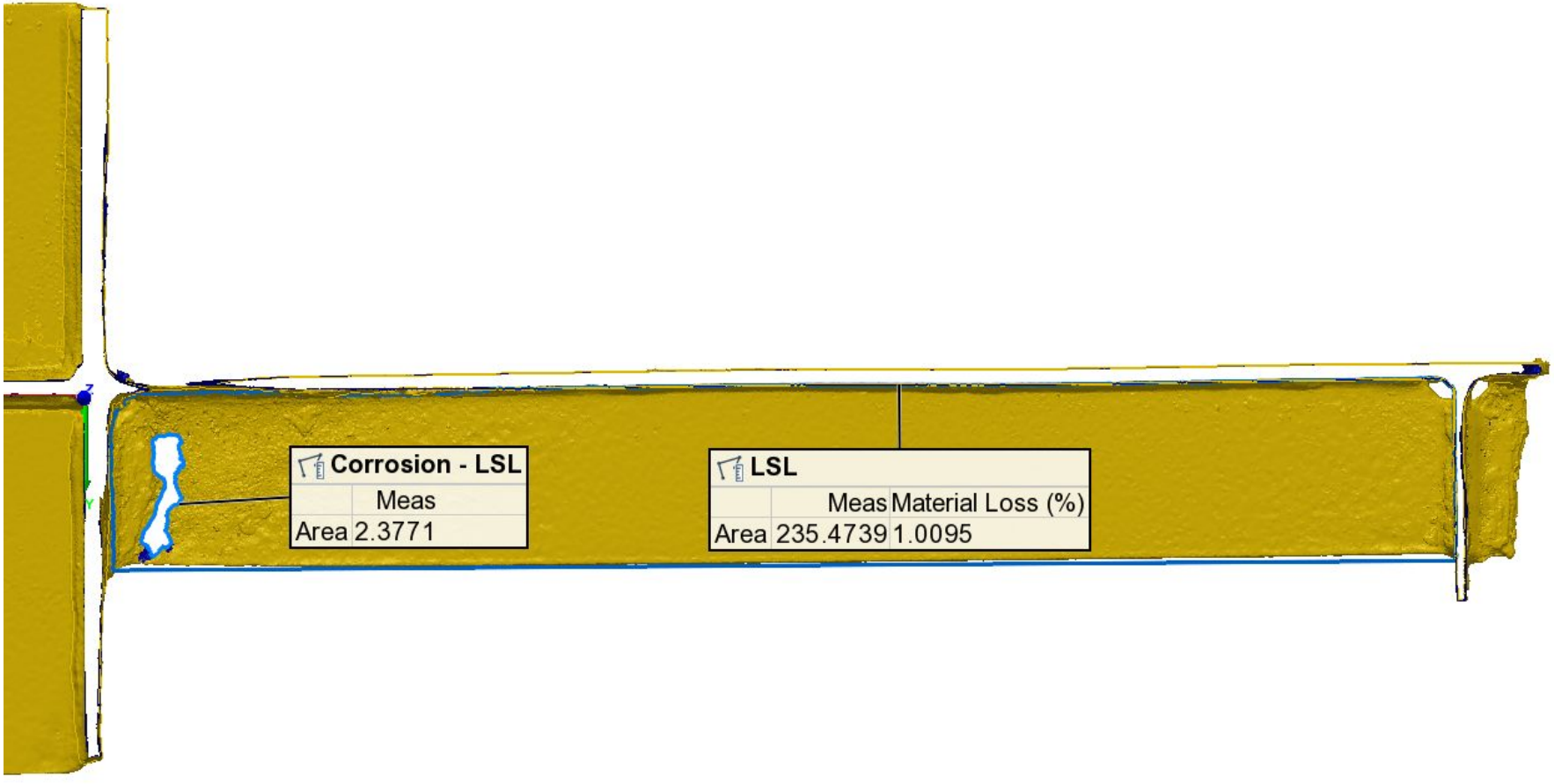
RESULTS

Longitudinal Stiffener - Panel 1 - Lower



RESULTS

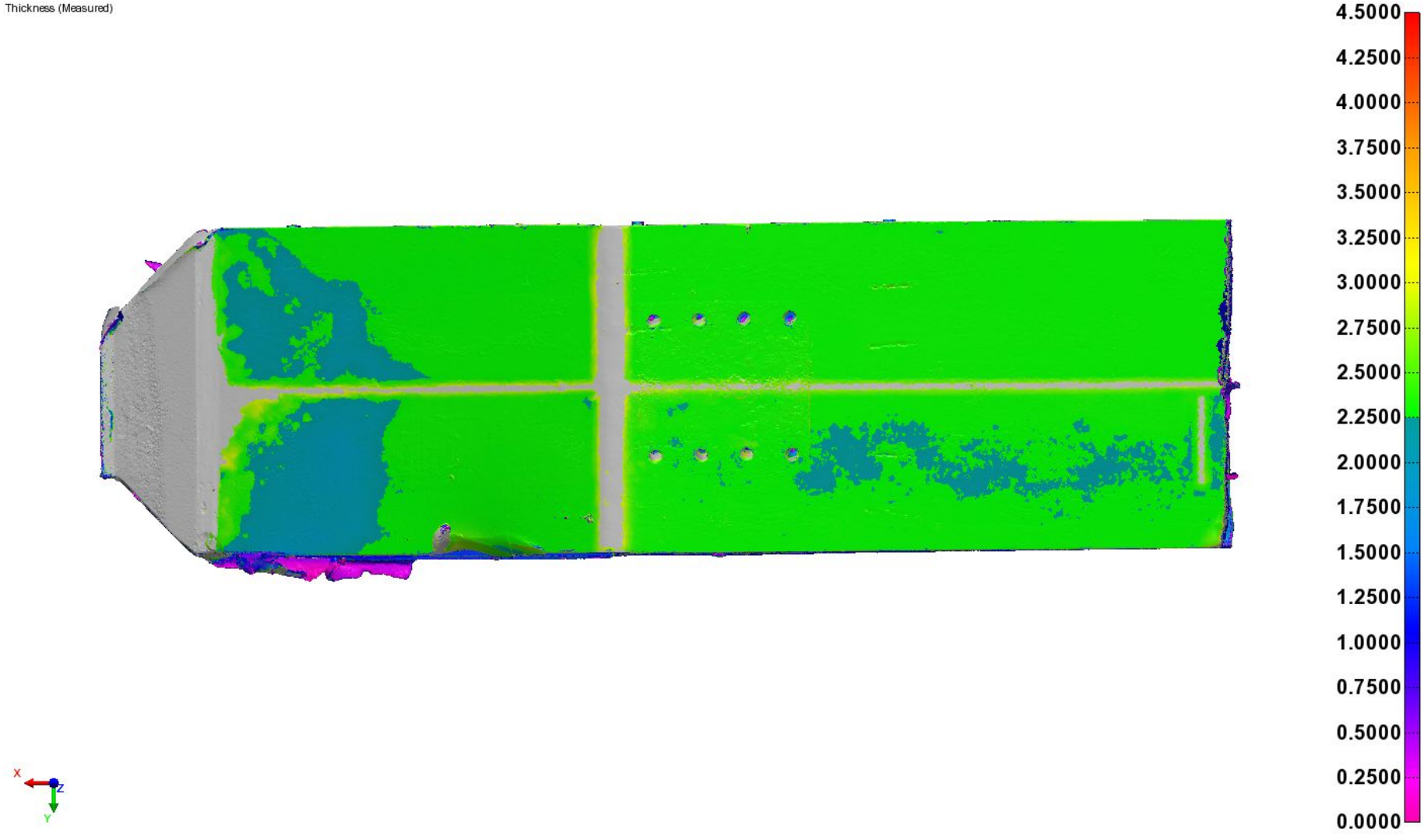
Material Loss - Longitudinal Stiffener - Panel 1 - Lower



Name	Control	Material Loss (%)	Meas
Corrosion - LSL	Area		2.3771
LSL	Area	1.0095	235.4739

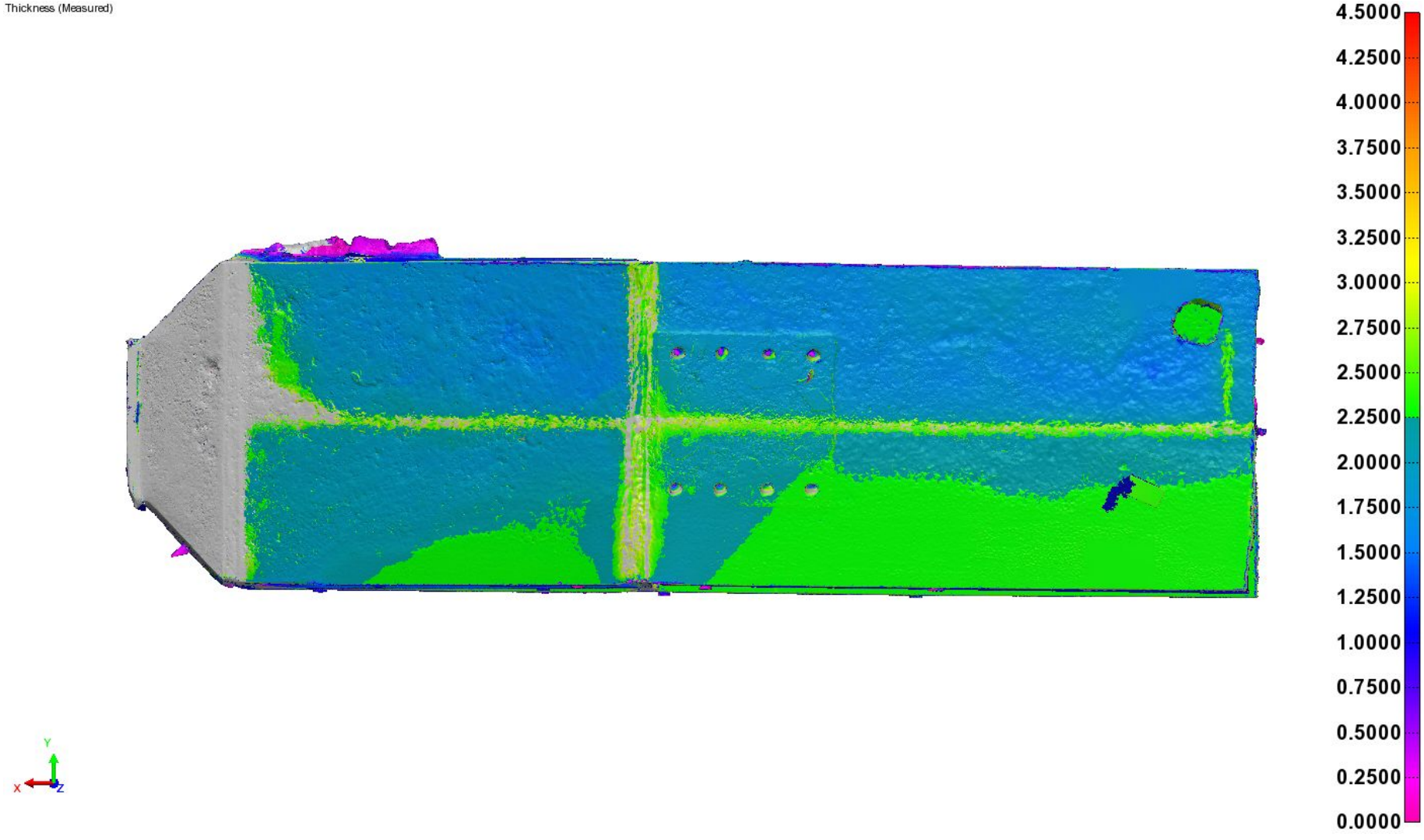
RESULTS

Flange Plate - Upper

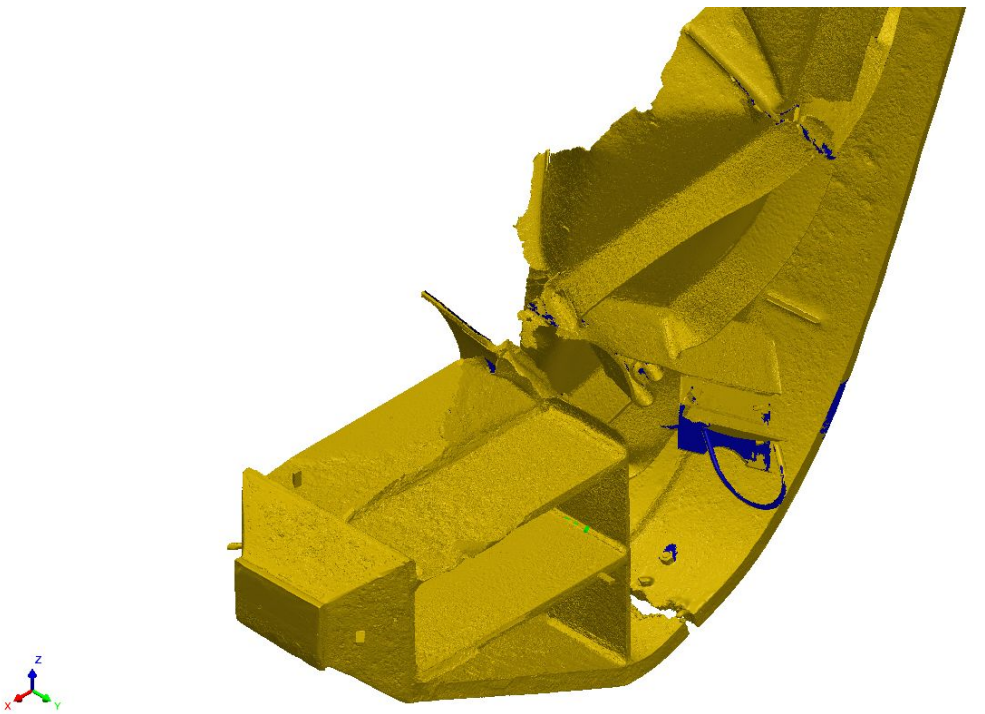


RESULTS

Flange Plate - Bottom



B1R Inspection Report



Company	Creaform
Customer	NTSB
Creaform Project Manager & email	Gabrielle Cobos [redacted]
Metrologist	Yang Lu
Item Number	B1R
Units	inch
Device	MetraSCAN Black & HandySCAN Black
Inspection date	Wednesday, September 14, 2022
Revision number	REV 0

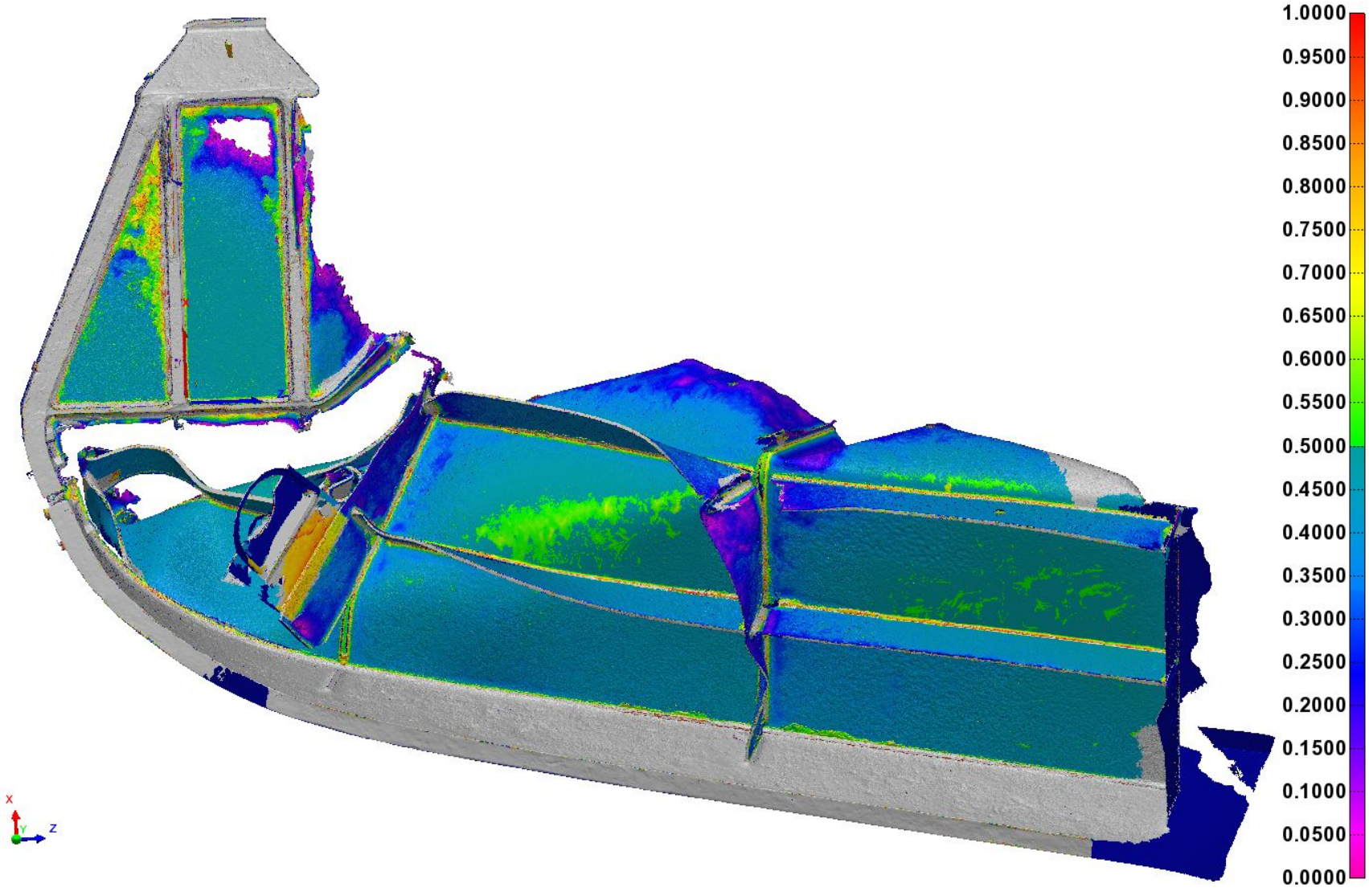
DEVICE USED

Scanning with MetraSCAN 3D

With the MetraSCAN 3D, the surface has been scanned and an optimize mesh was directly generated. The acquisition has been done in a dynamic mode thanks to reference targets positionned on the part and tracked in real time by the C-Track..

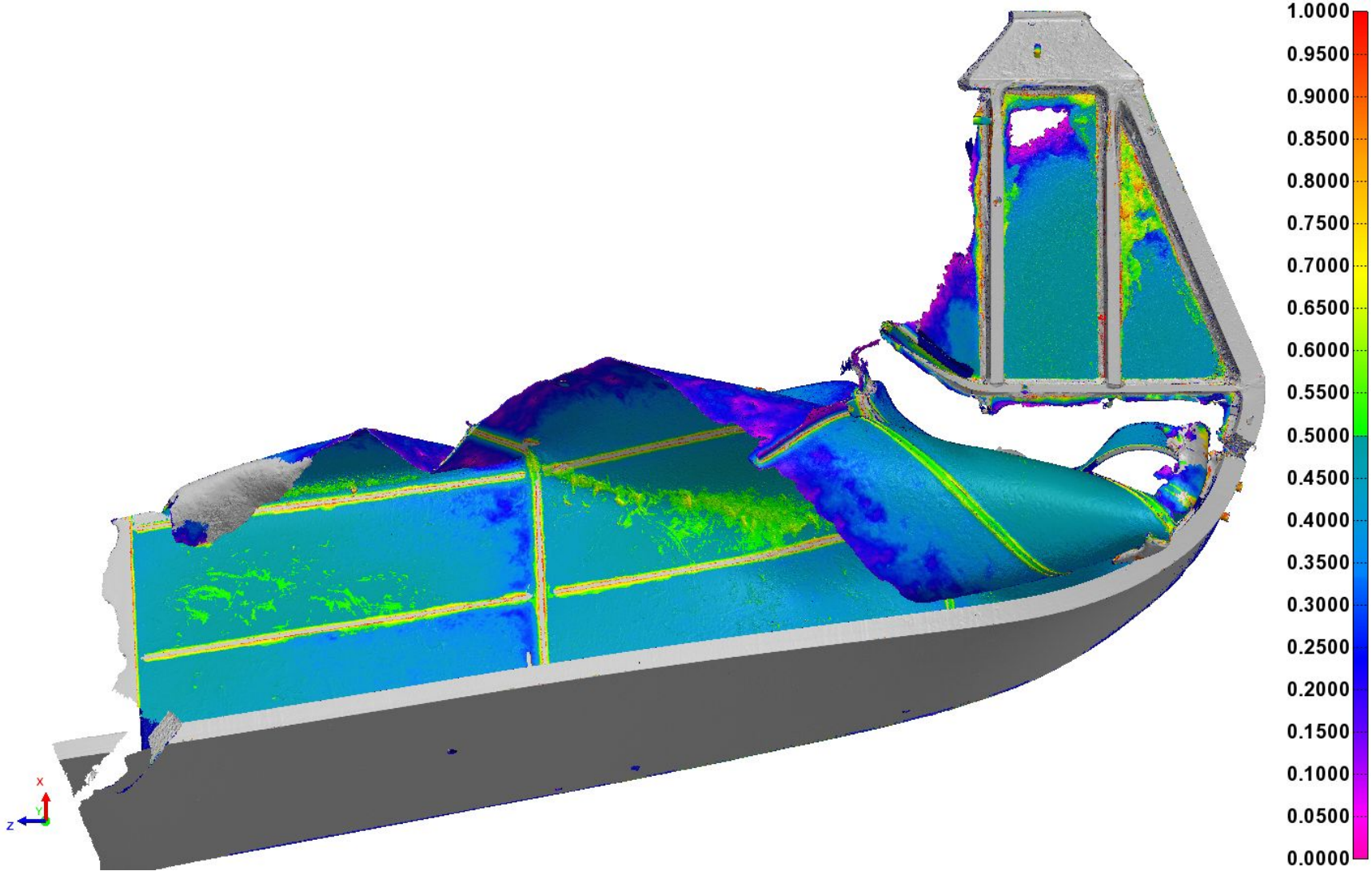
RESULTS

Elevation View - Front



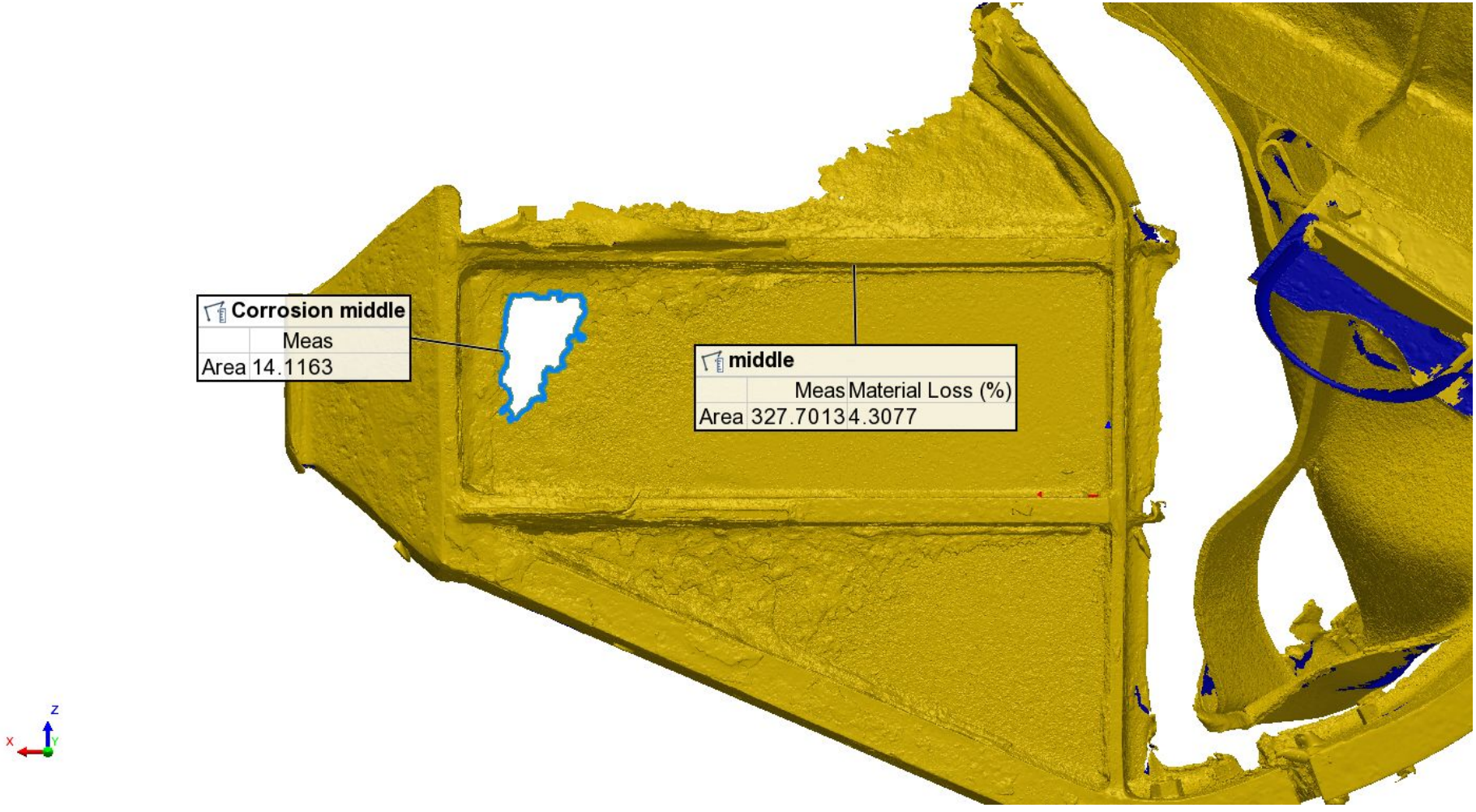
RESULTS

Elevation View - Back



RESULTS

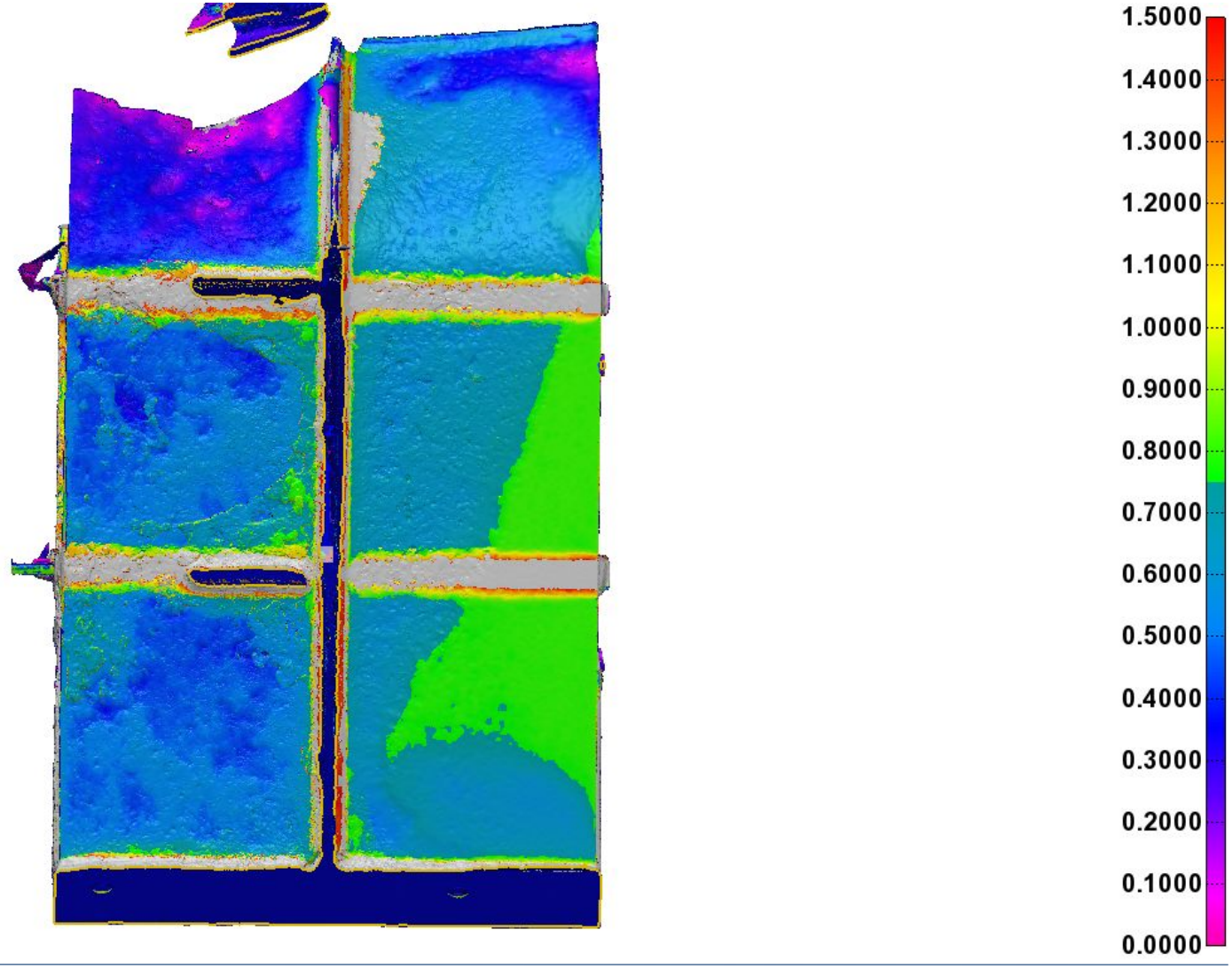
Material Loss - Shoe



Name	Control	Material Loss (%)	Meas
Corrosion middle	Area		14.1163
middle	Area	4.3077	327.7013

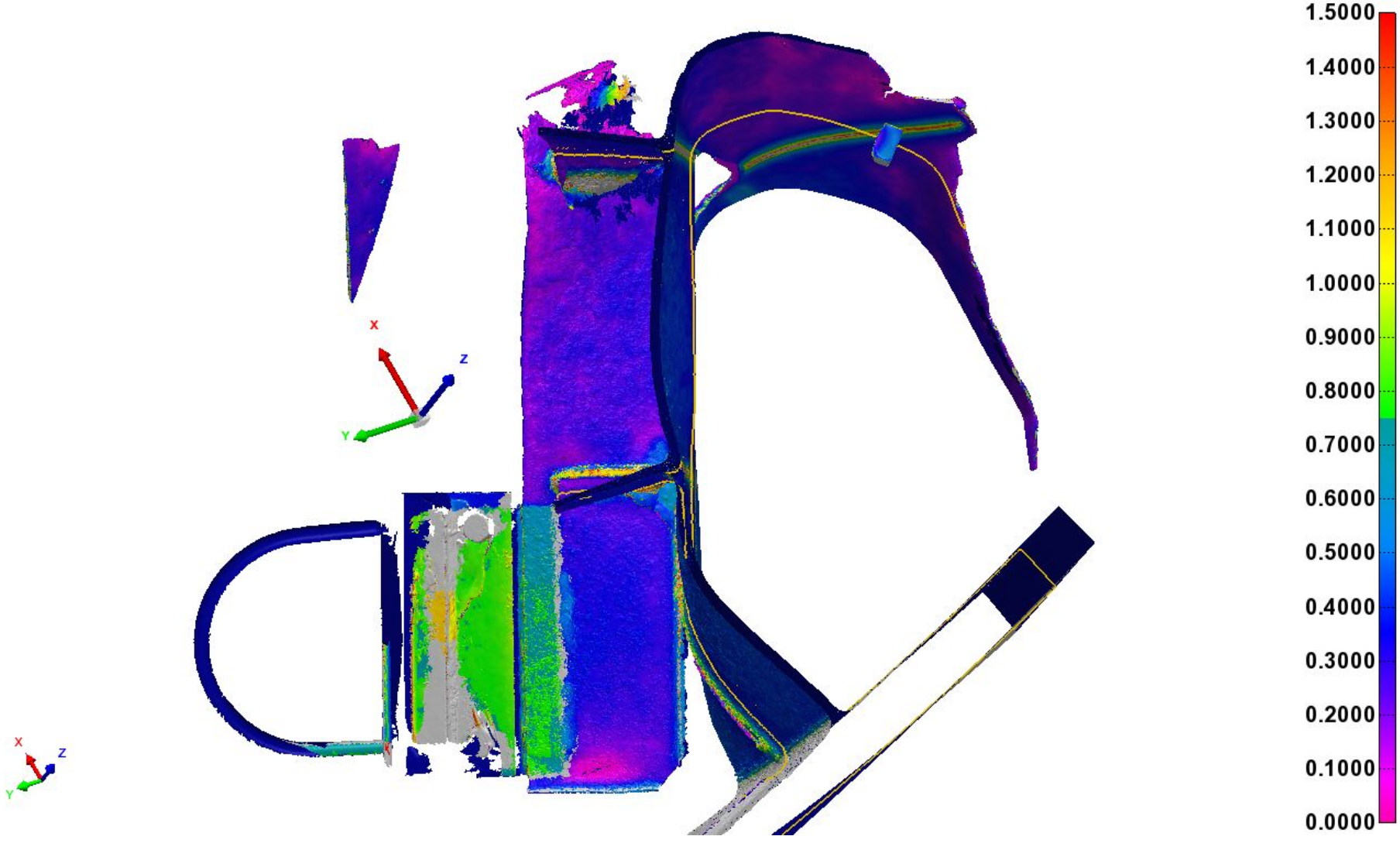
RESULTS

Tie Plate



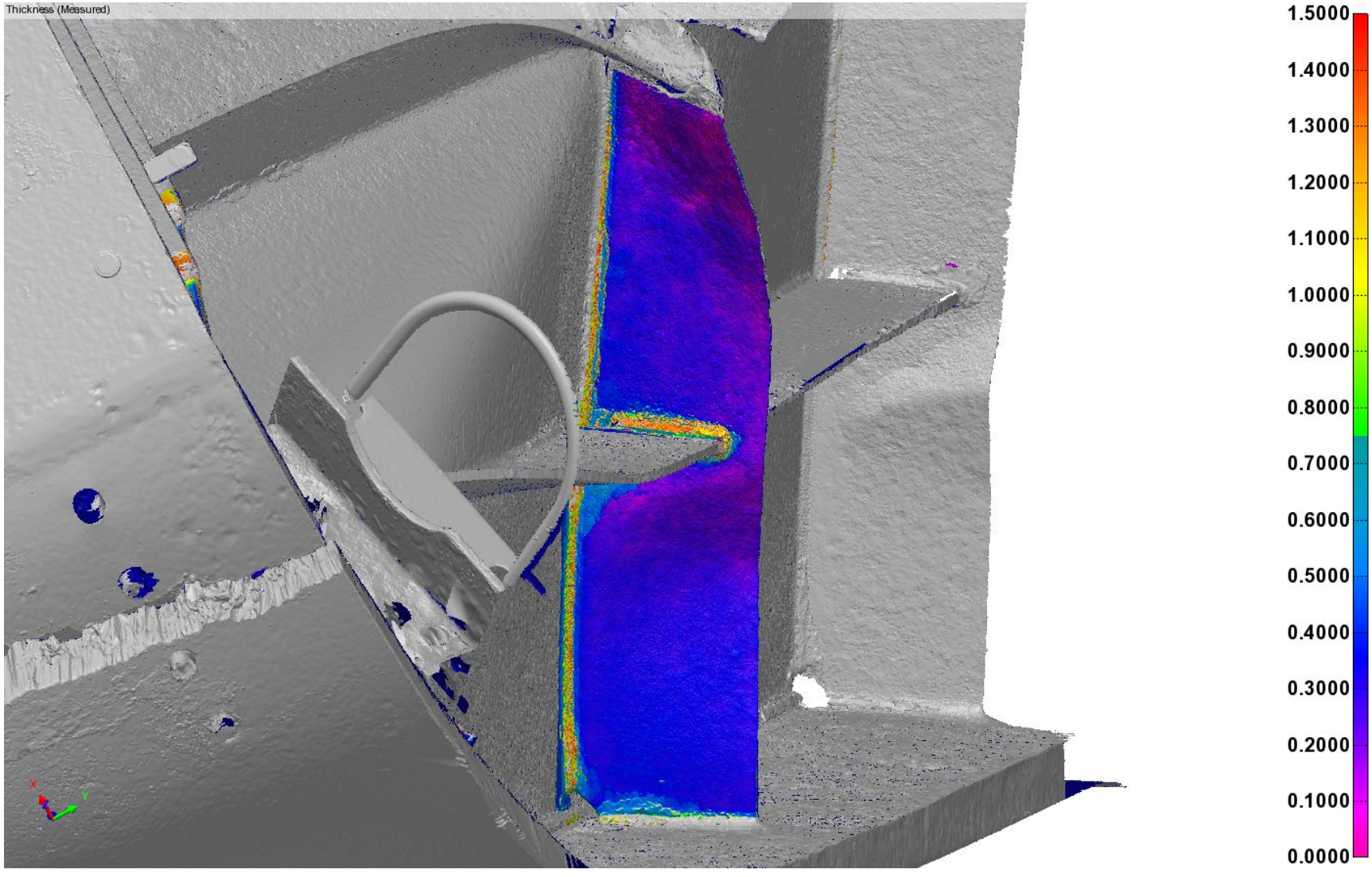
RESULTS

Transverse Stiffener 1



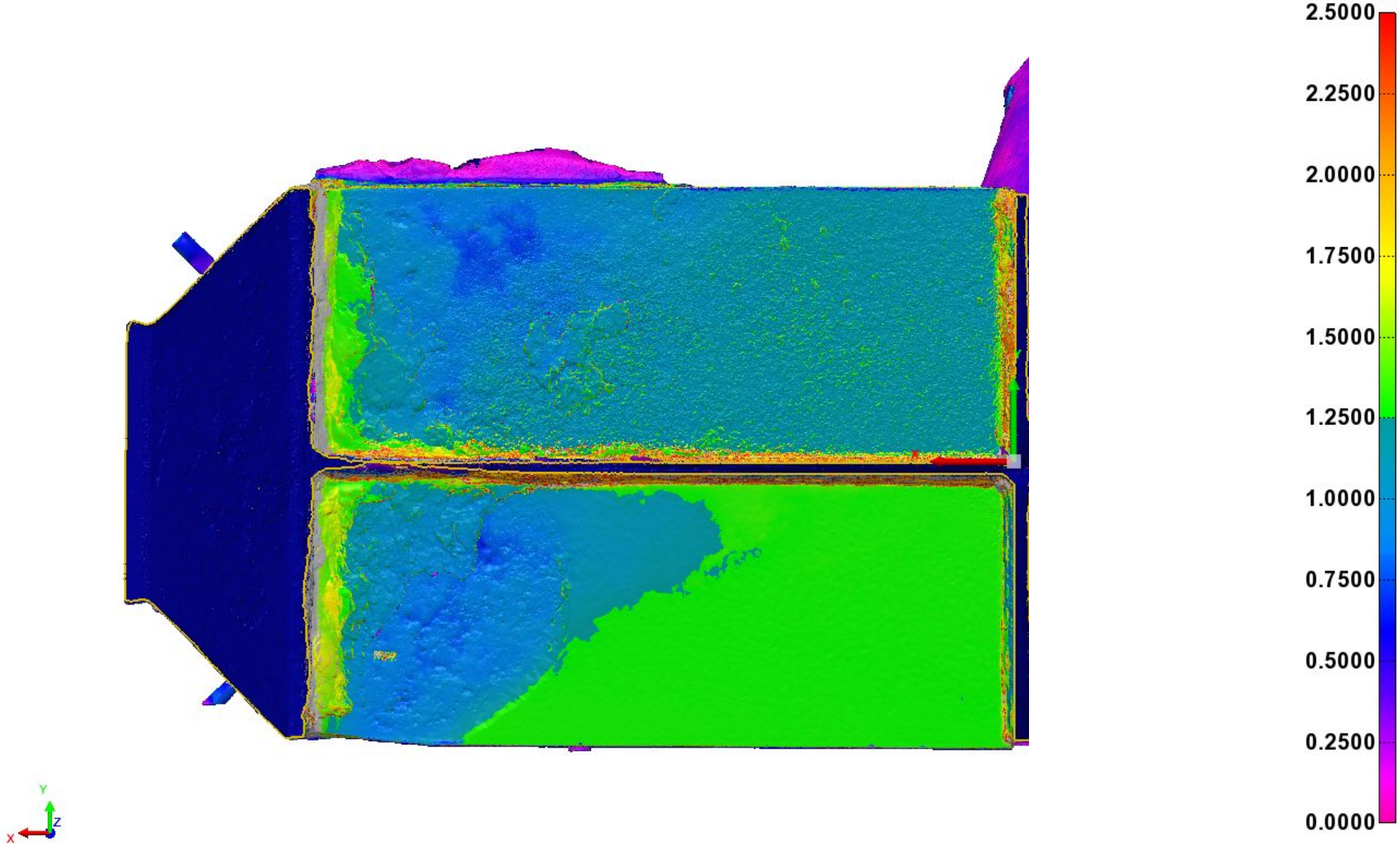
RESULTS

Transverse Stiffener 2



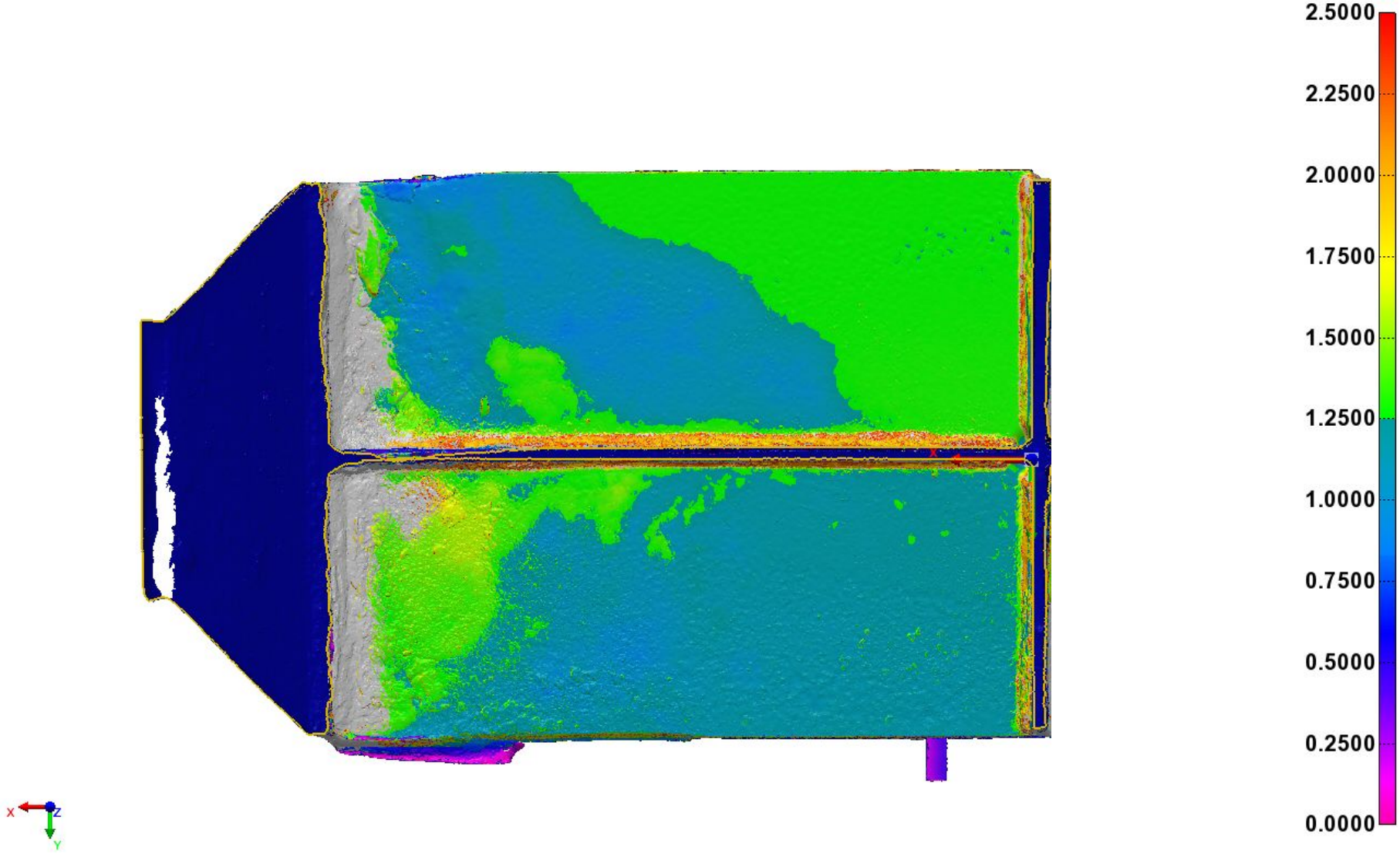
RESULTS

Longitudinal Stiffener - Shoe - Upper



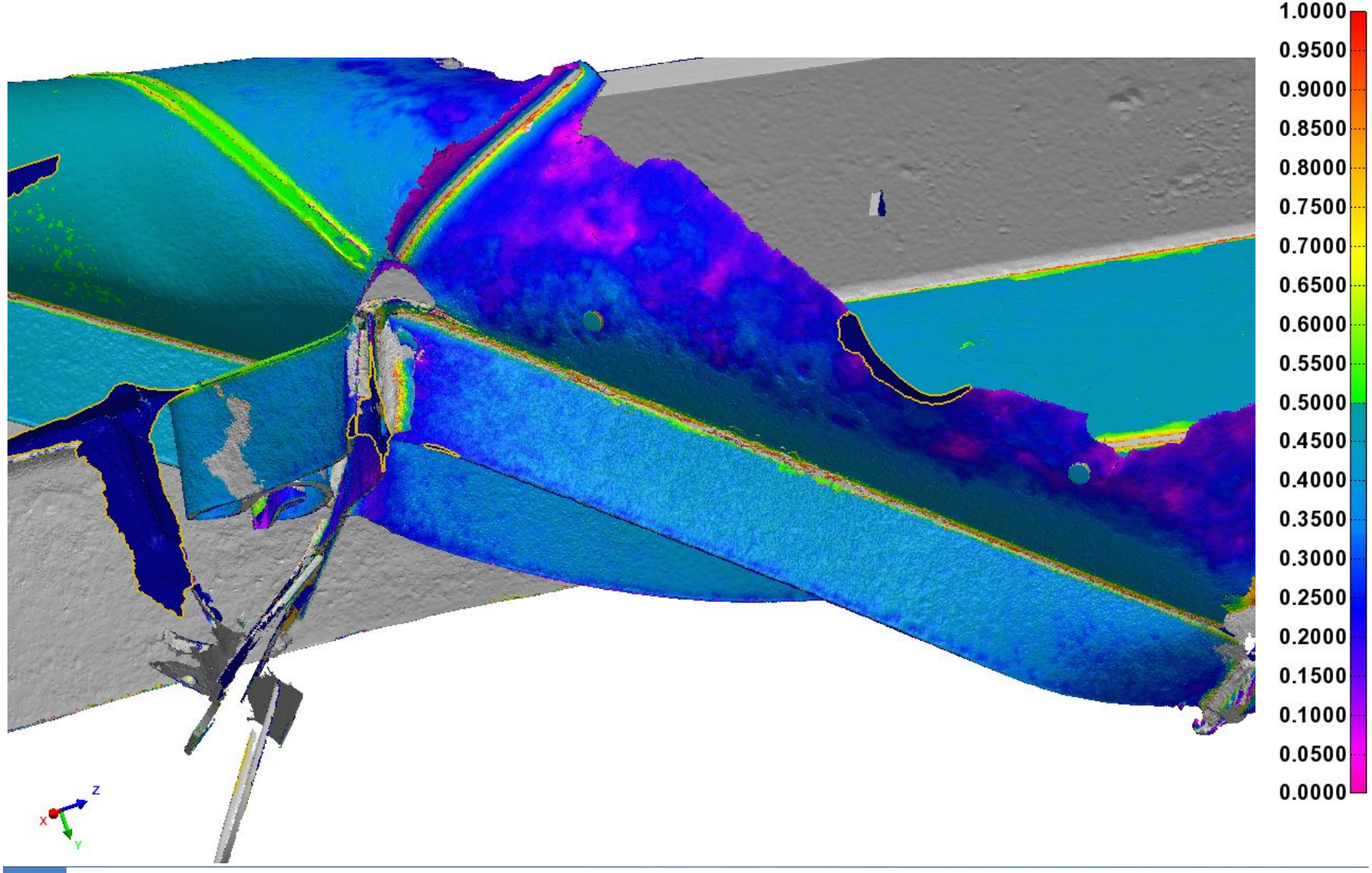
RESULTS

Longitudinal Stiffener - Shoe - Lower



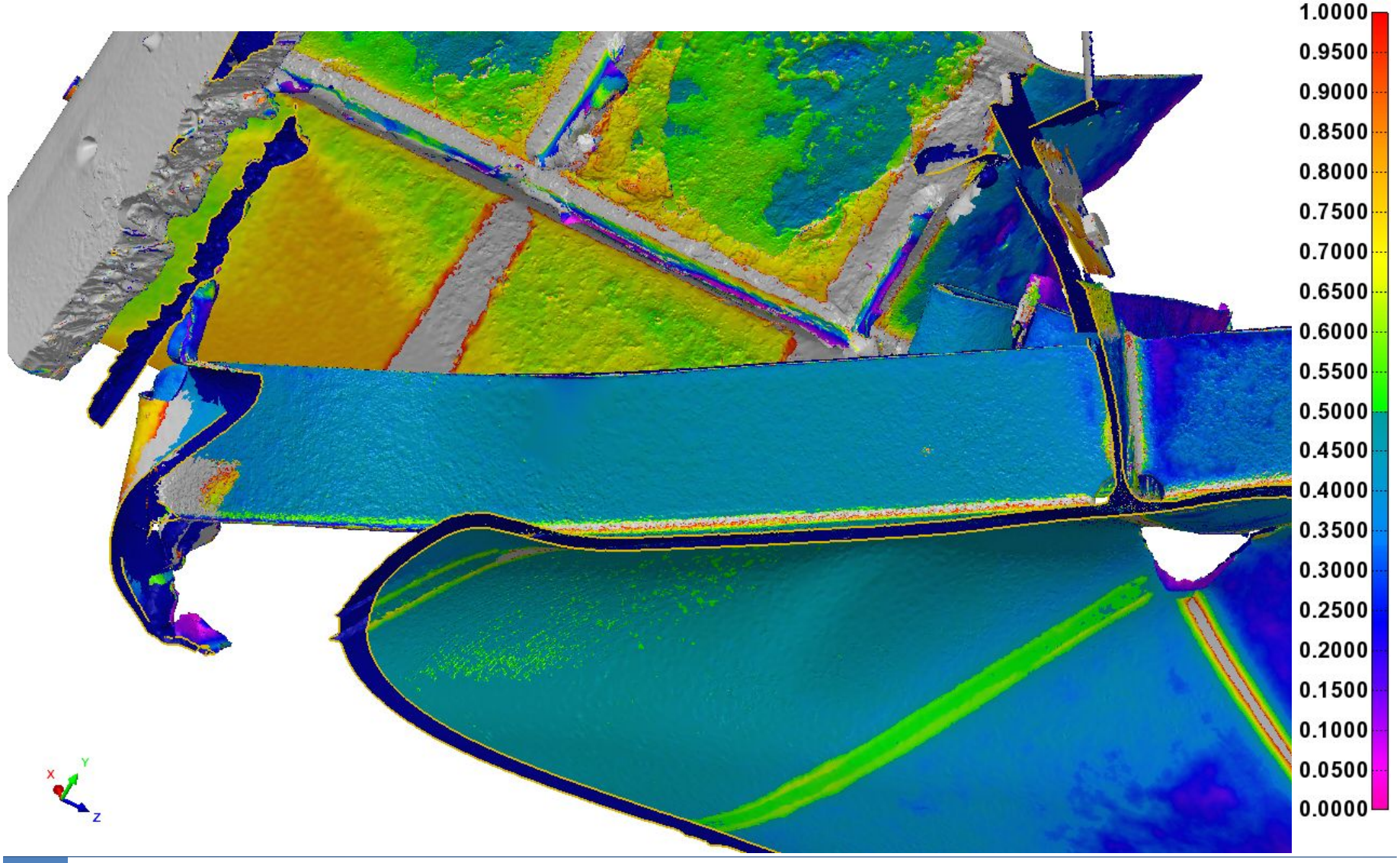
RESULTS

Longitudinal Stiffener - Panel 1 - Upper



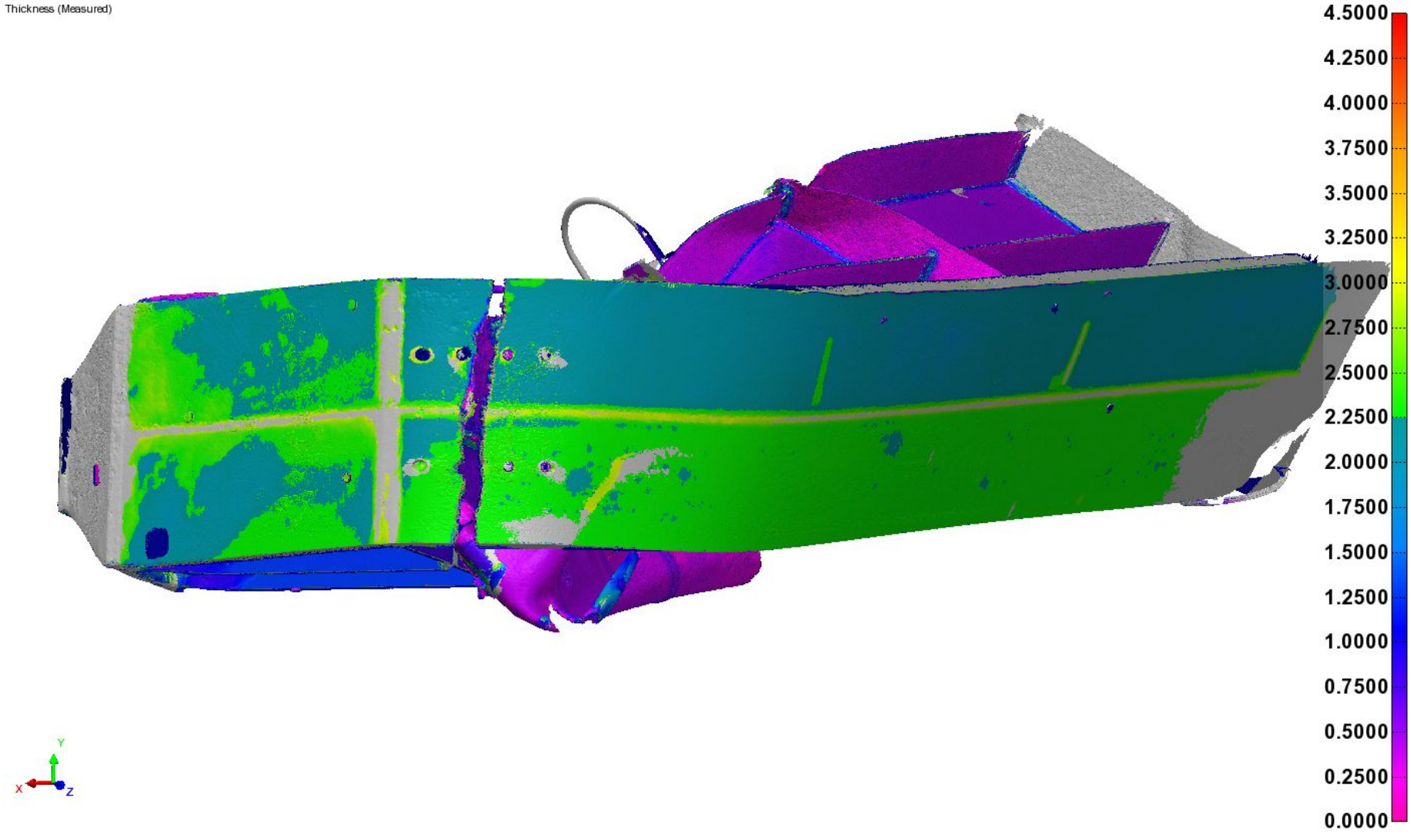
RESULTS

Longitudinal Stiffener - Panel 1 - Lower

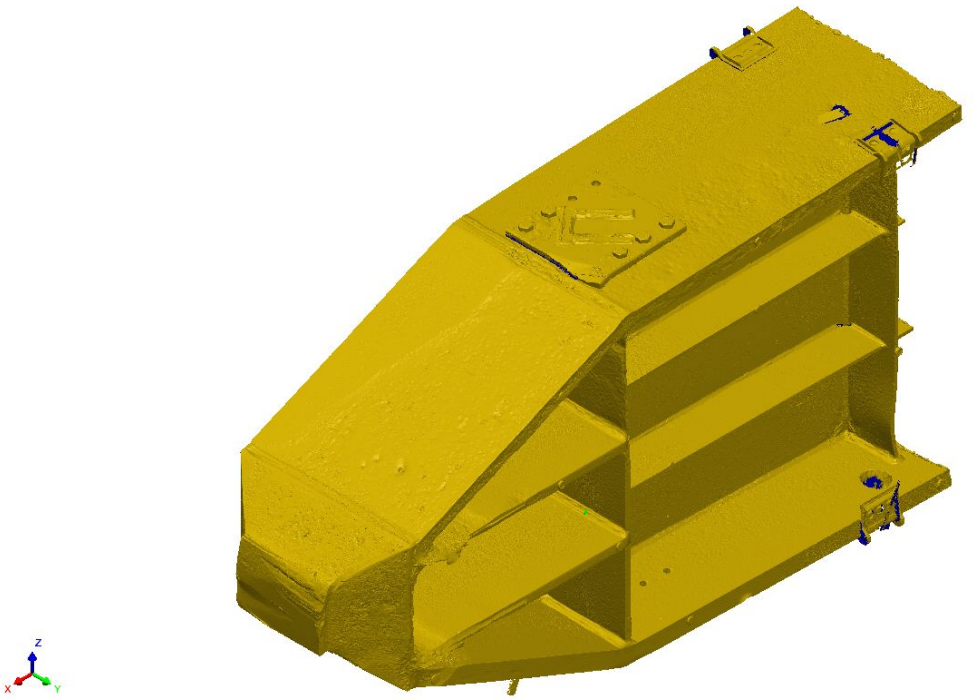


RESULTS

Flange Plate - Bottom (Upper flange is not available)



B2L Inspection Report



Company	Creaform
Customer	NTSB
Creaform Project Manager & email	Gabrielle Cobos [redacted]
Metrologist	Yang Lu
Item Number	B2L
Units	inch
Device	MetraSCAN Black
Inspection date	Tuesday, September 13, 2022
Revision number	REV 0

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AMETEK® ULTRA PRECISION TECHNOLOGIES

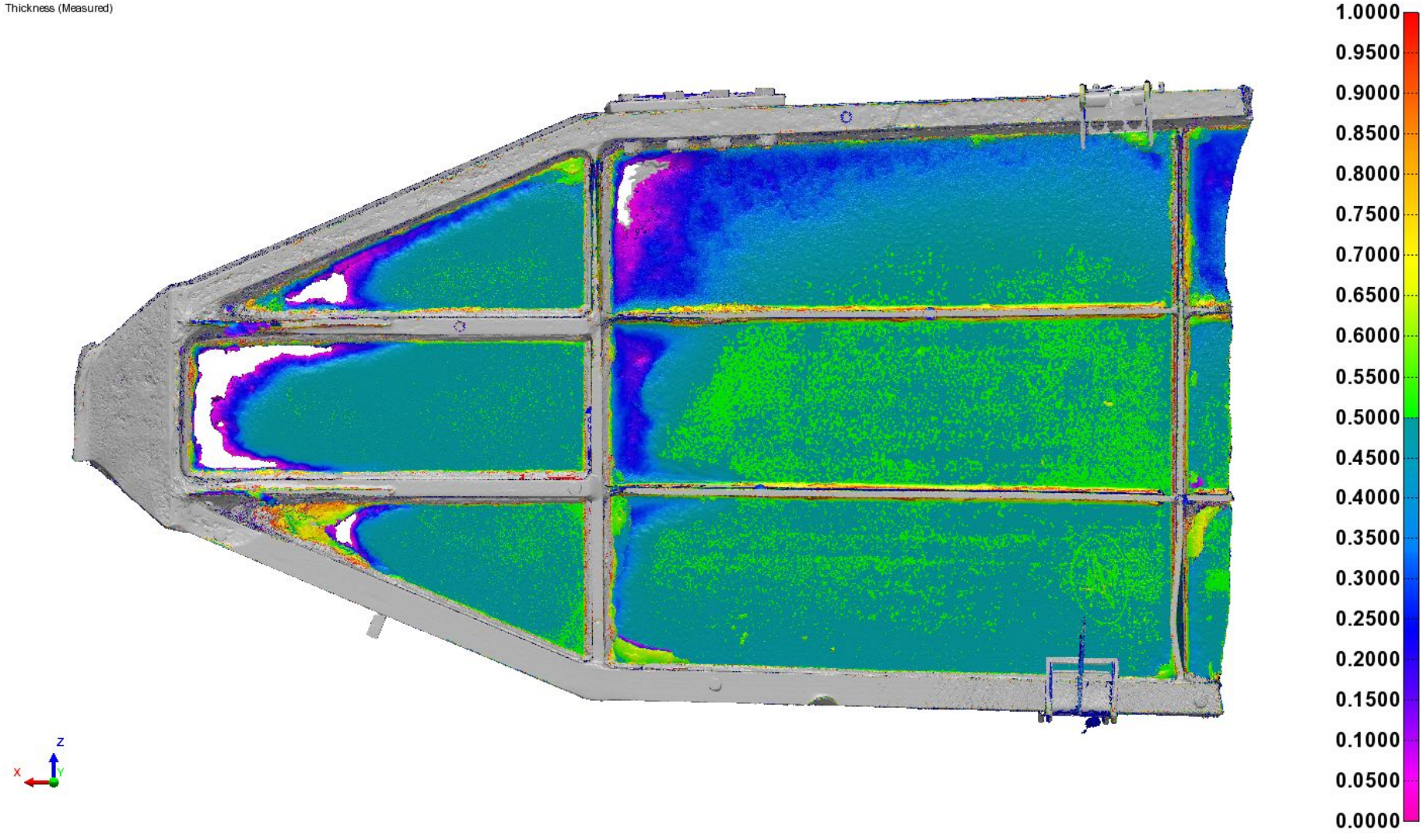
DEVICE USED

Scanning with MetraSCAN 3D

With the MetraSCAN 3D, the surface has been scanned and an optimize mesh was directly generated. The acquisition has been done in a dynamic mode thanks to reference targets positionned on the part and tracked in real time by the C-Track..

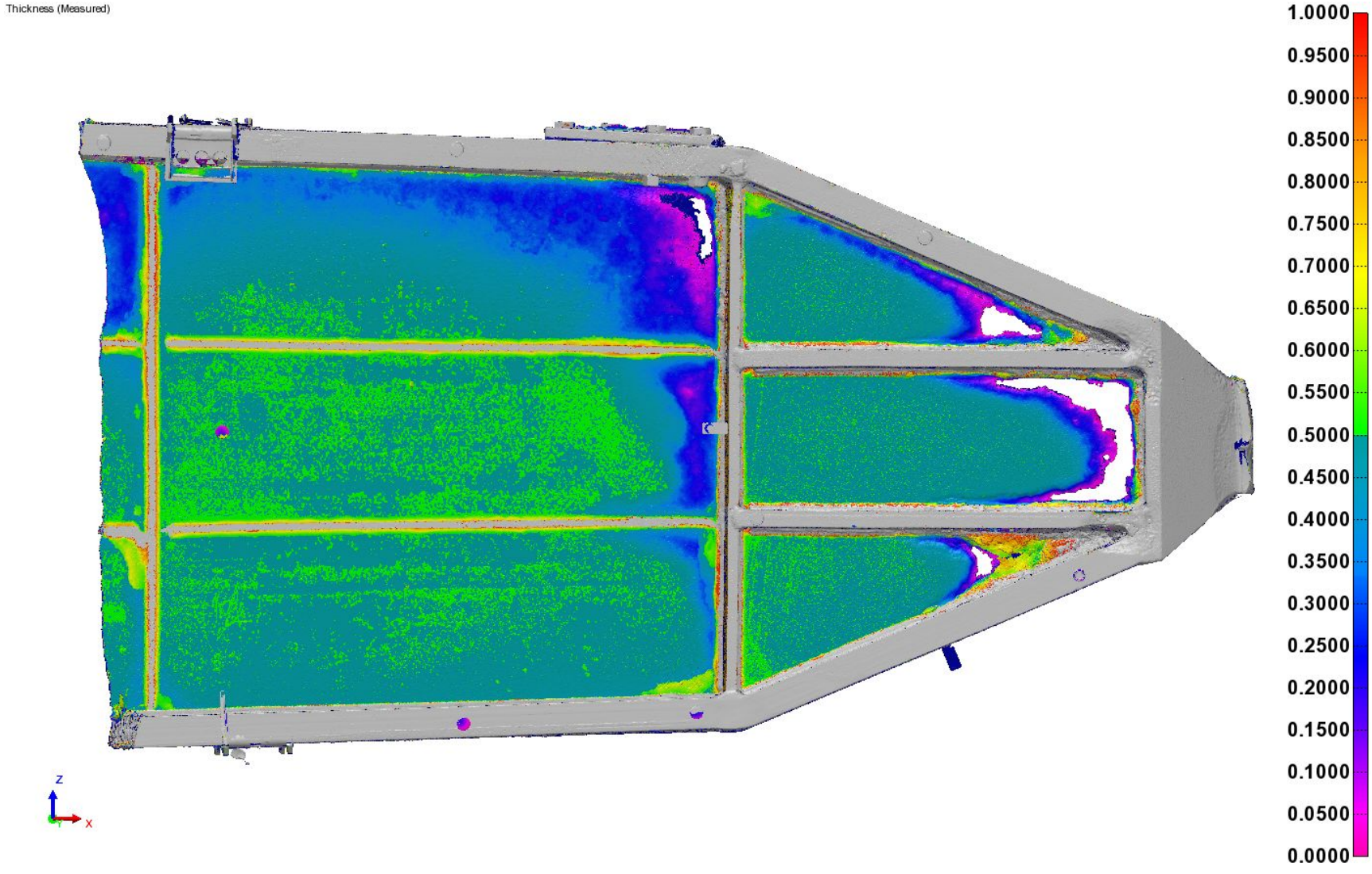
RESULTS

Elevation View - Front



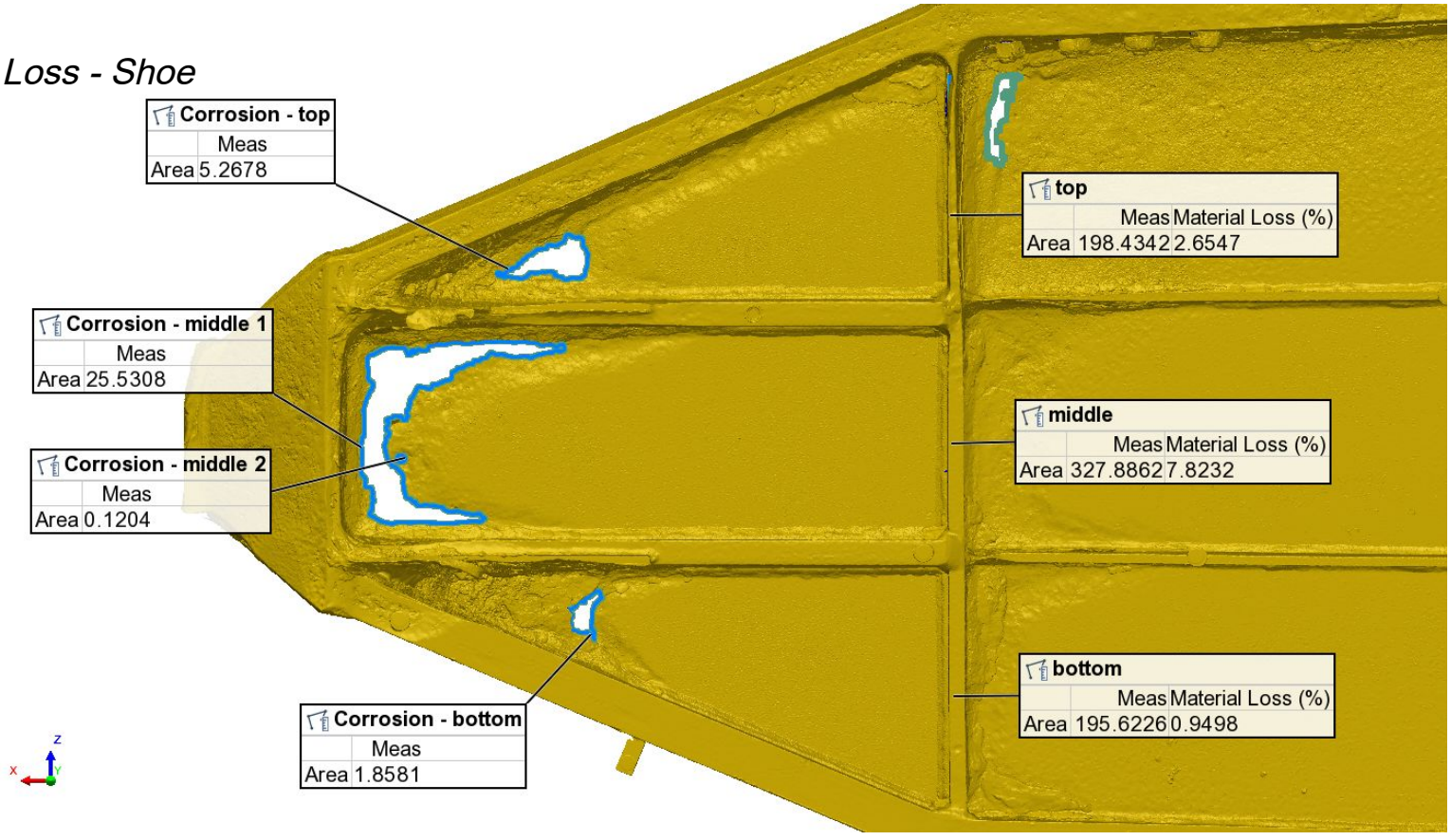
RESULTS

Elevation View - Back



RESULTS

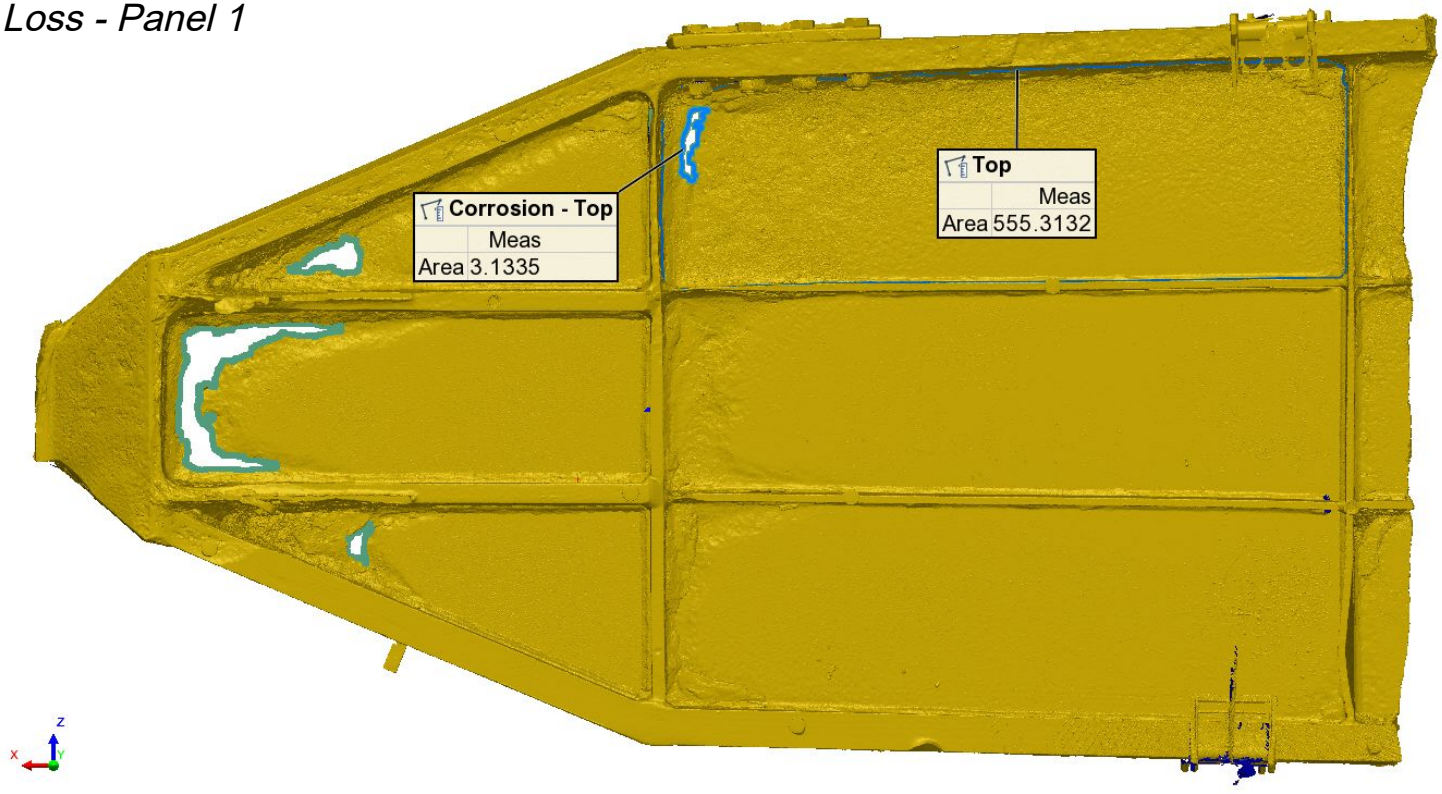
Material Loss - Shoe



Name	Control	Material Loss (%)	Meas
Corrosion - top	Area		5.2678
top	Area	2.6547	198.4342
Corrosion - middle 1	Area		25.5308
Corrosion - middle 2	Area		0.1204
middle	Area	7.8232	327.8862
Corrosion - bottom	Area		1.8581
bottom	Area	0.9498	195.6226

RESULTS

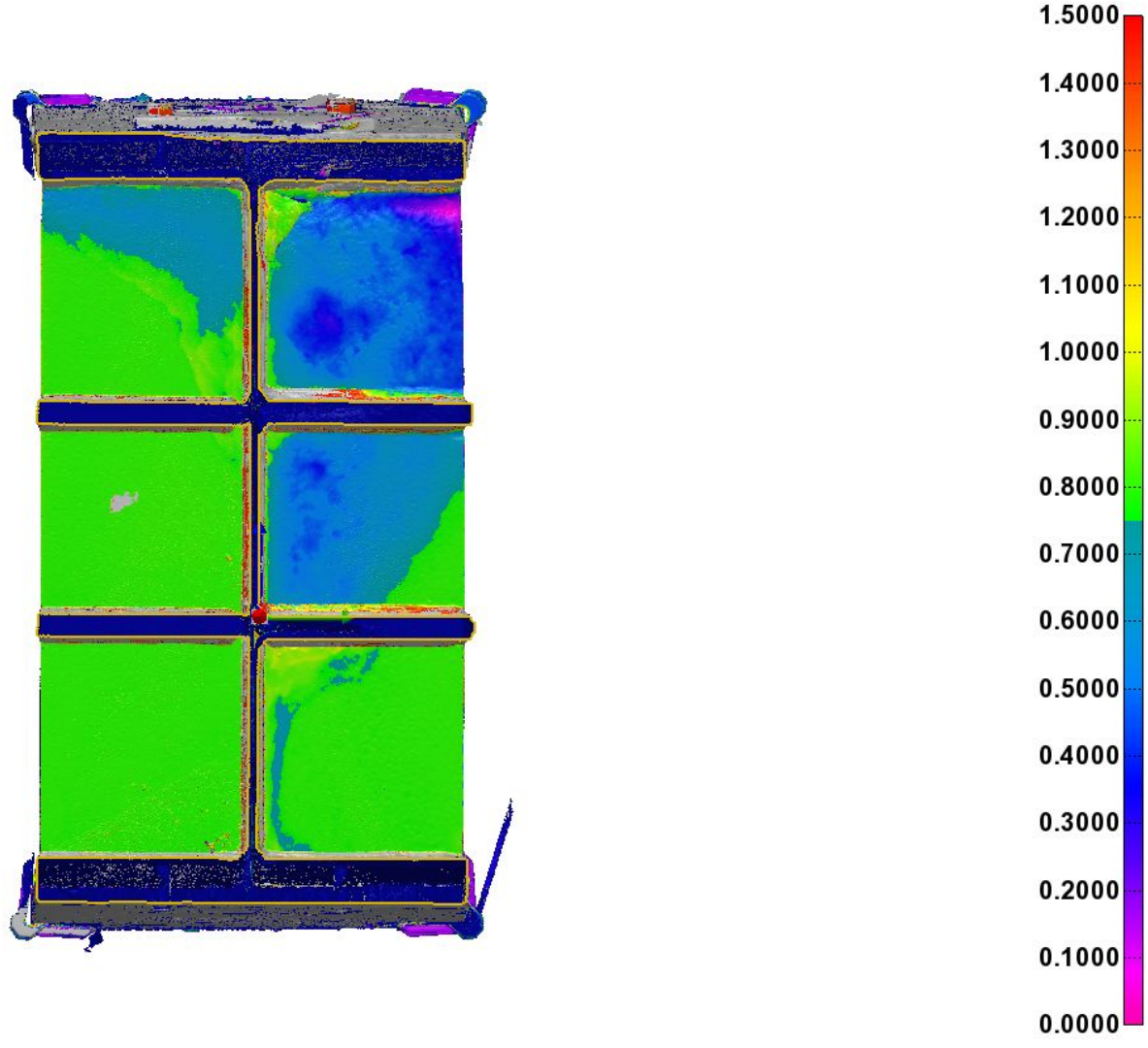
Material Loss - Panel 1



Name	Control	Material Loss (%)	Meas
Corrosion - Top	Area		3.1335
Top	Area	0.5643	555.3132

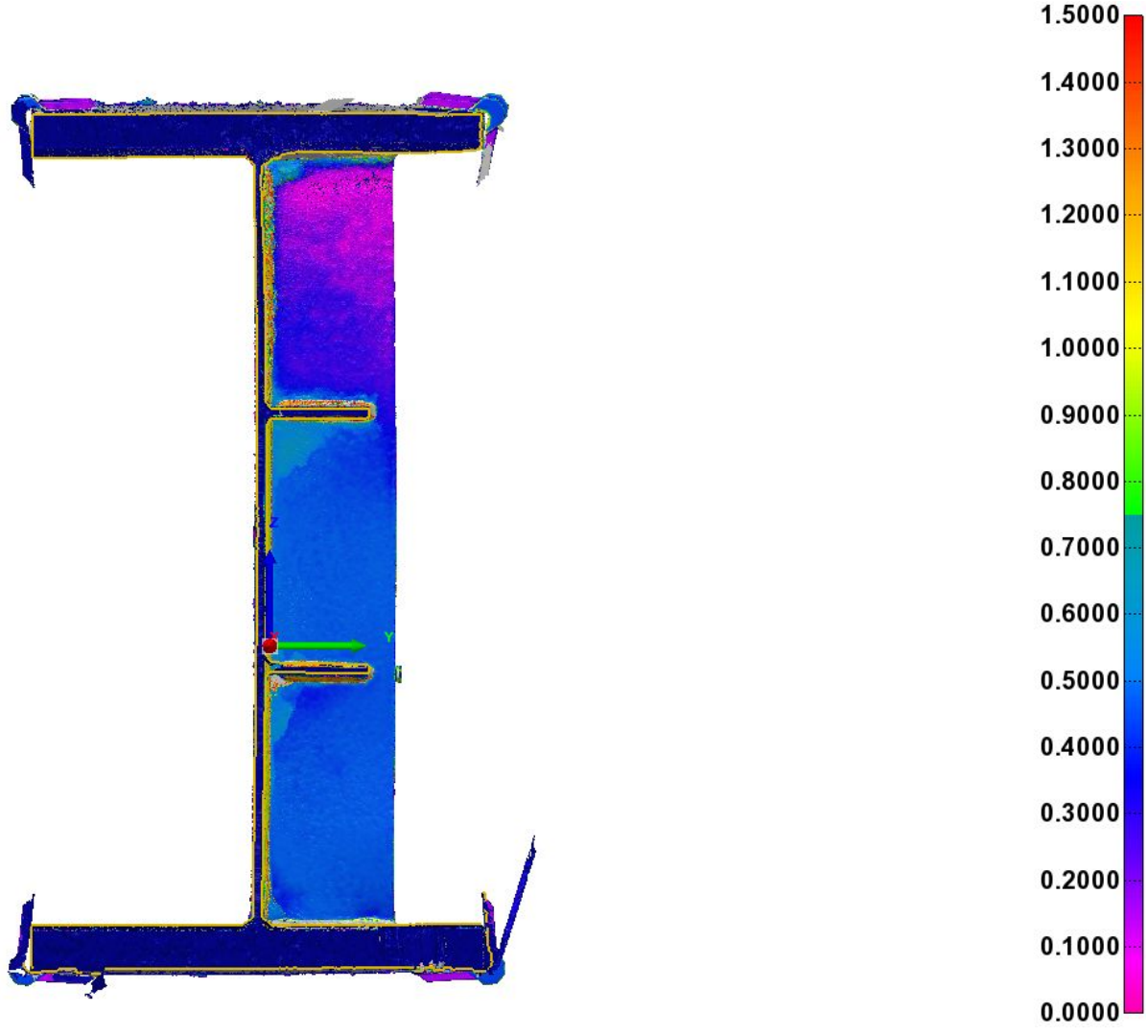
RESULTS

Tie Plate



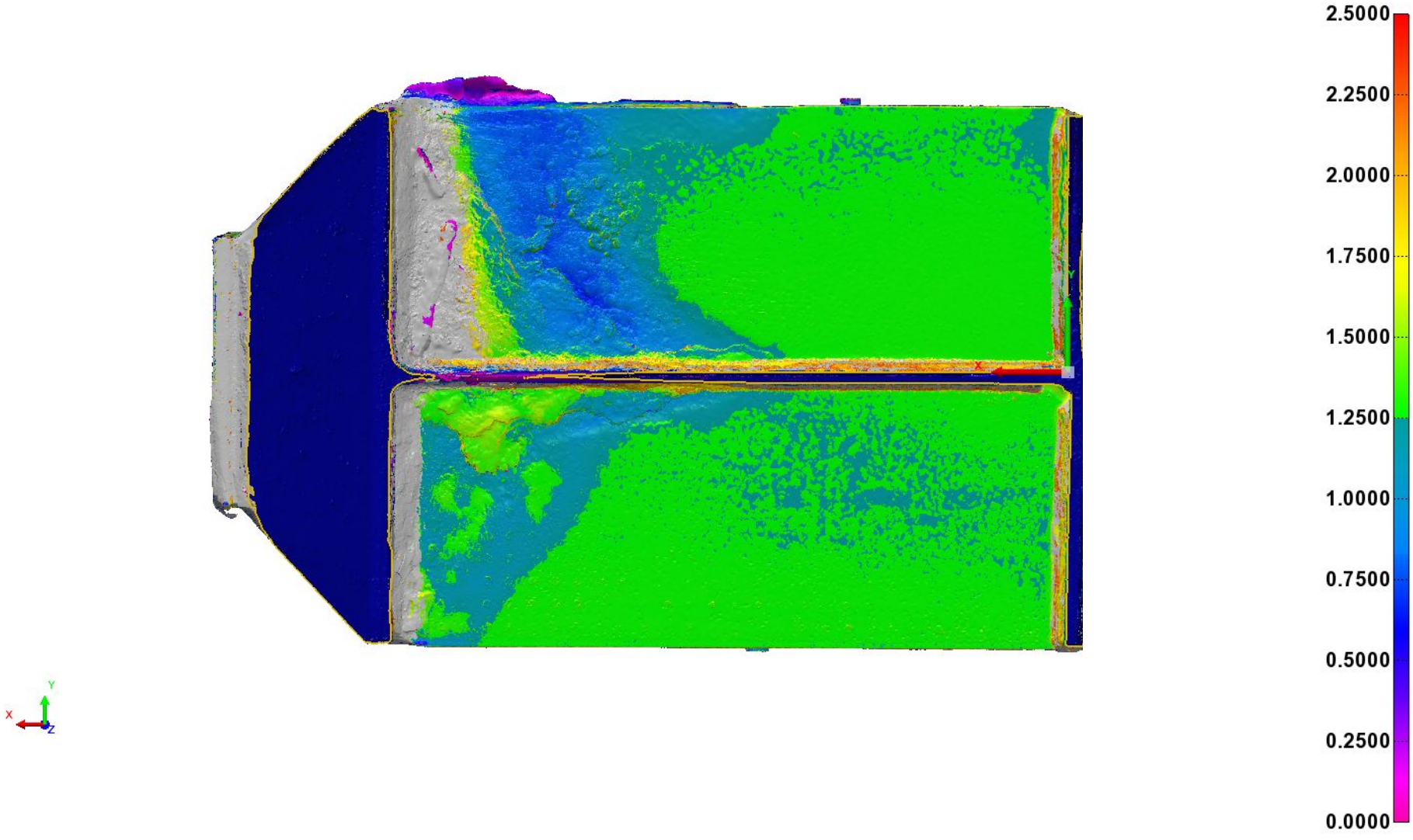
RESULTS

Transverse Stiffener



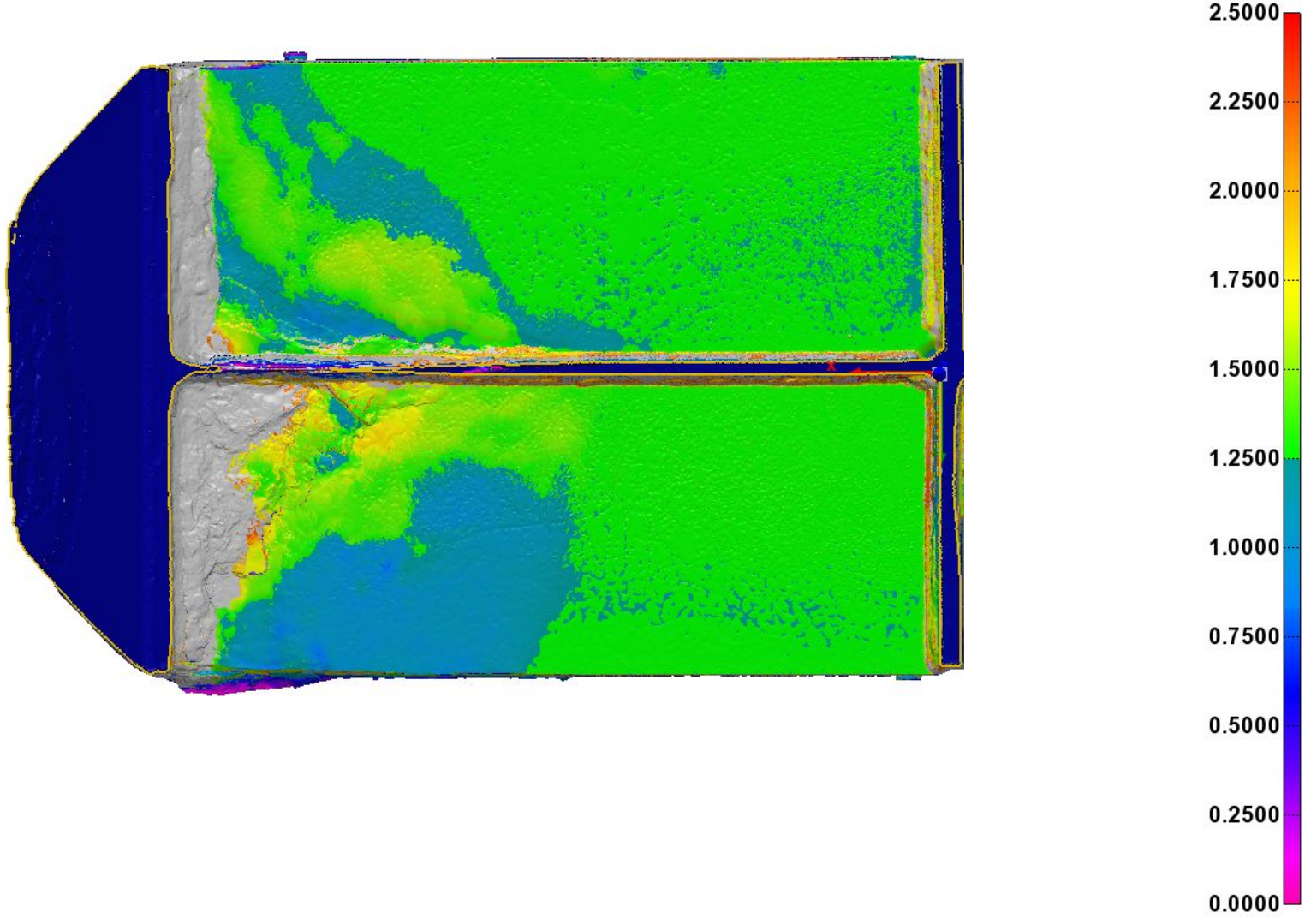
RESULTS

Longitudinal Stiffener - Shoe - Upper



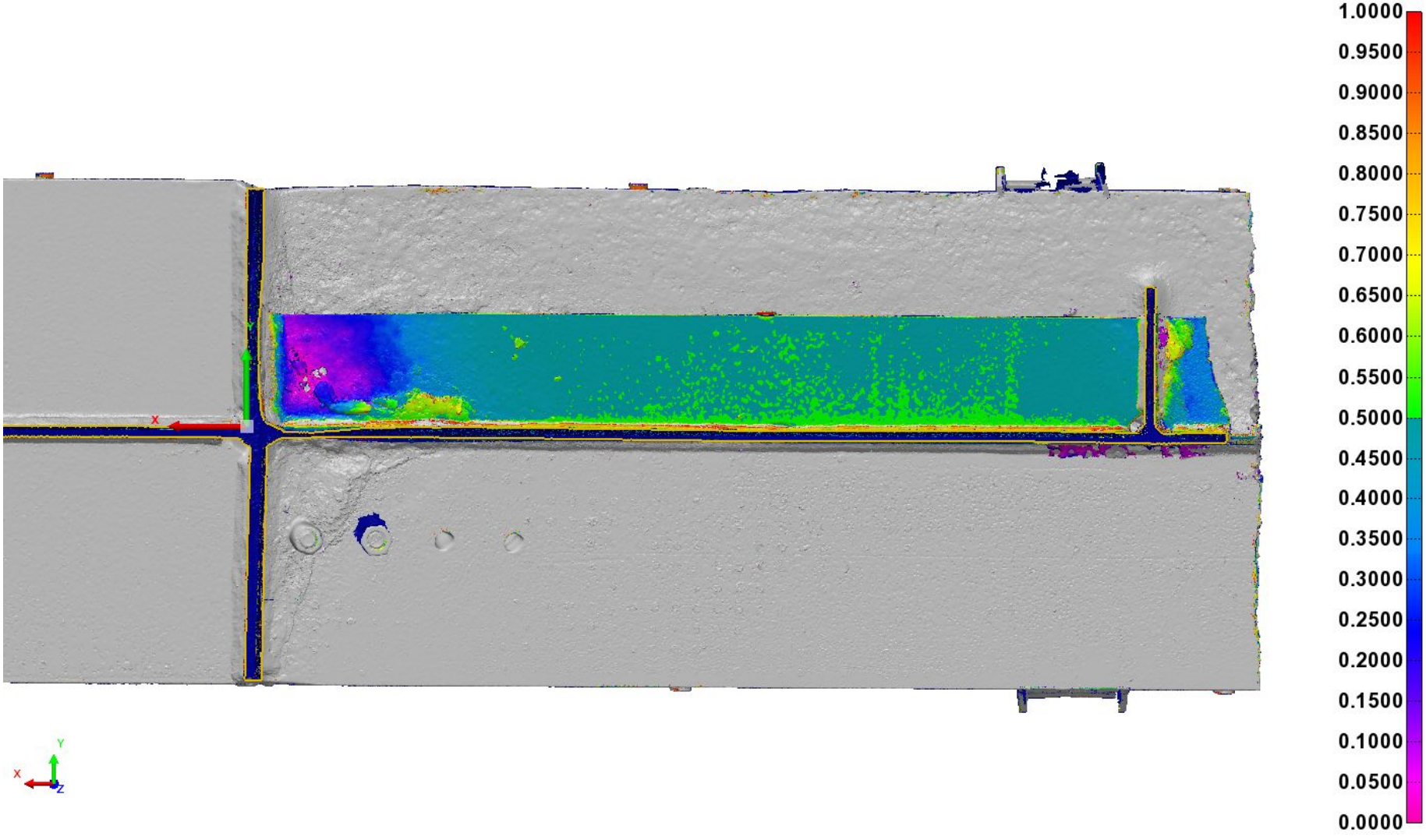
RESULTS

Longitudinal Stiffener - Shoe - Lower



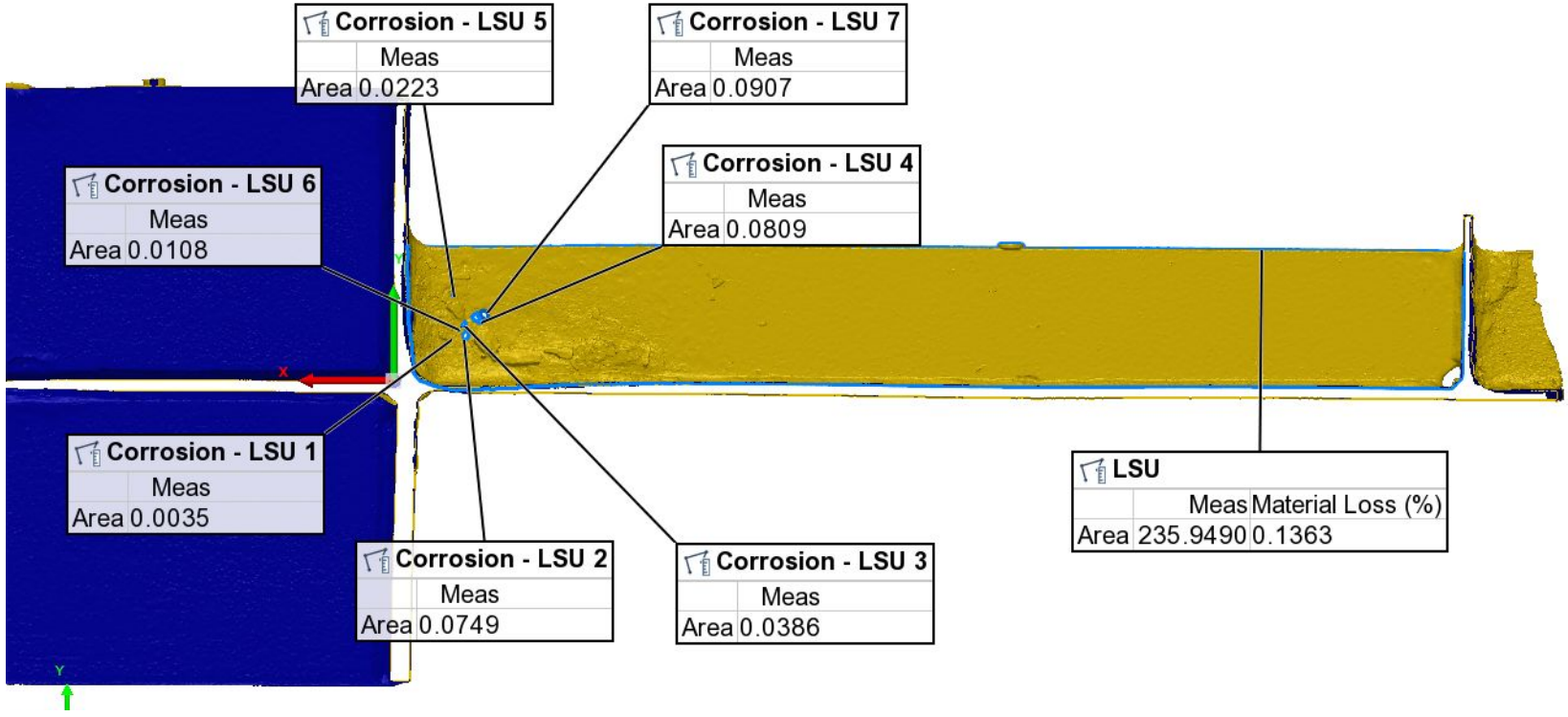
RESULTS

Longitudinal Stiffener - Panel 1 - Upper



RESULTS

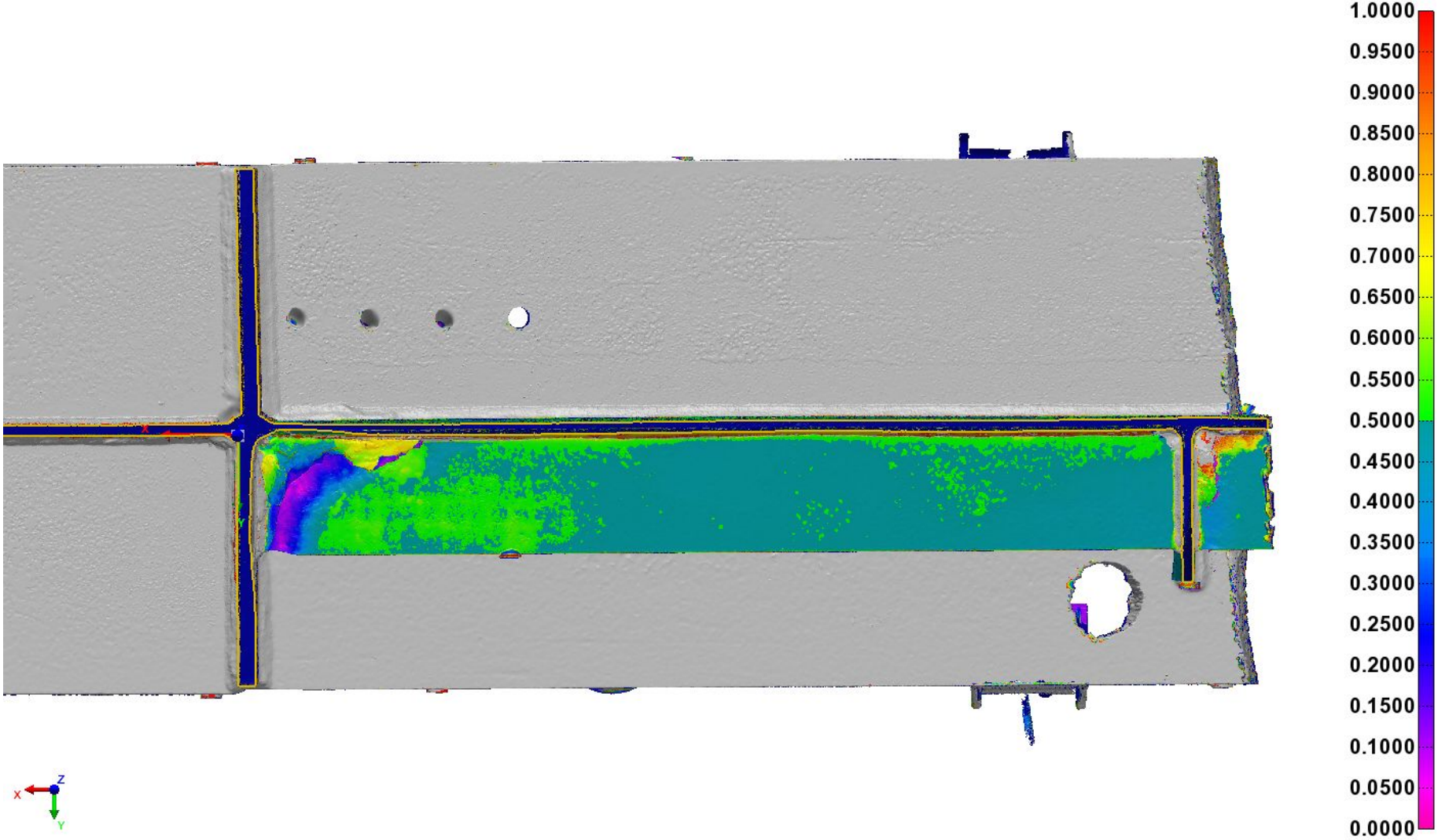
Matreial Loss - Longitudinal Stiffener - Panel 1 - Upper



Name	Control	Material Loss (%)	Meas
Corrosion - LSU 1	Area		0.0035
Corrosion - LSU 2	Area		0.0749
Corrosion - LSU 3	Area		0.0386
Corrosion - LSU 4	Area		0.0809
Corrosion - LSU 5	Area		0.0223
Corrosion - LSU 6	Area		0.0108
Corrosion - LSU 7	Area		0.0907
LSU	Area	0.1363	235.9490

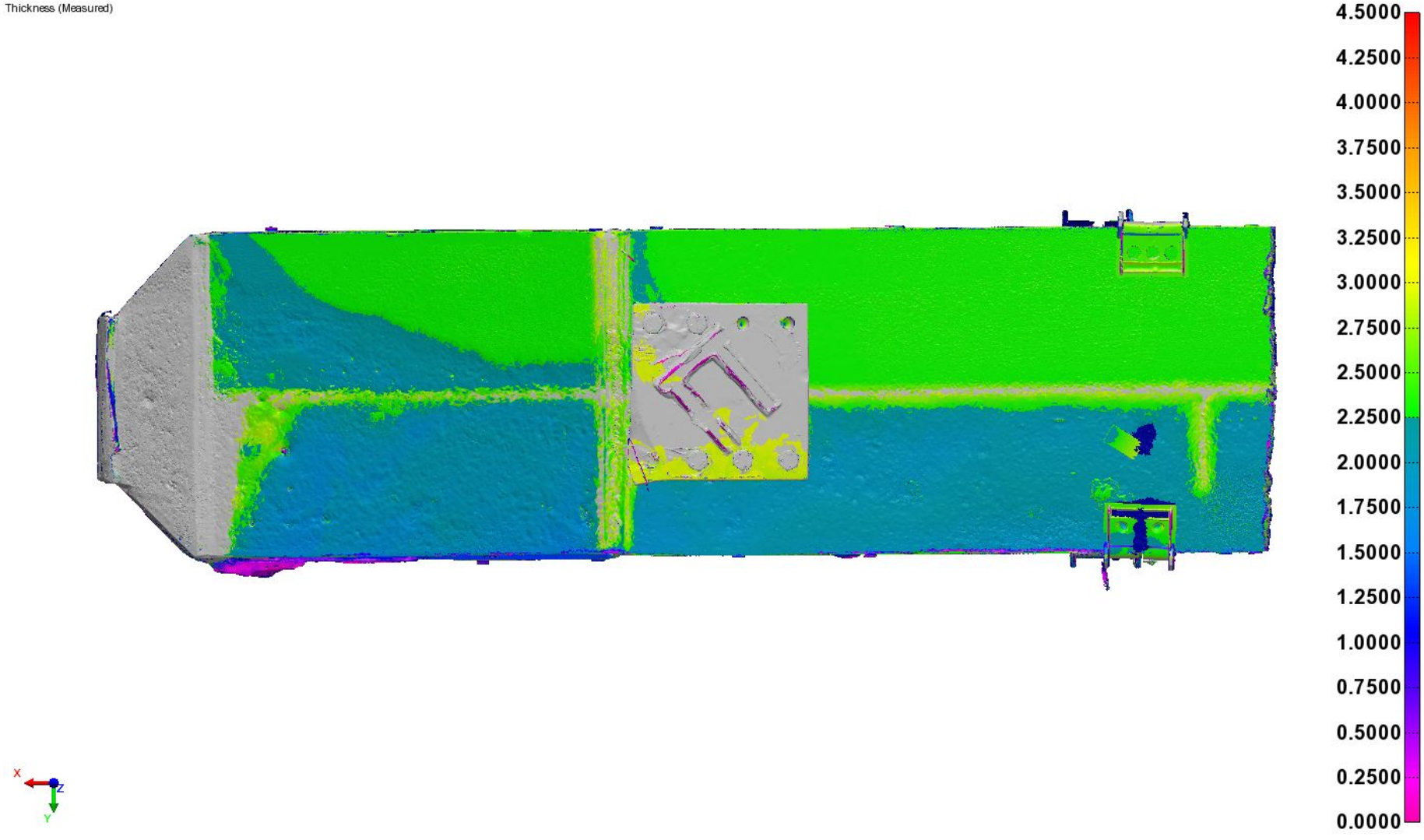
RESULTS

Longitudinal Stiffener - Panel 1 - Lower



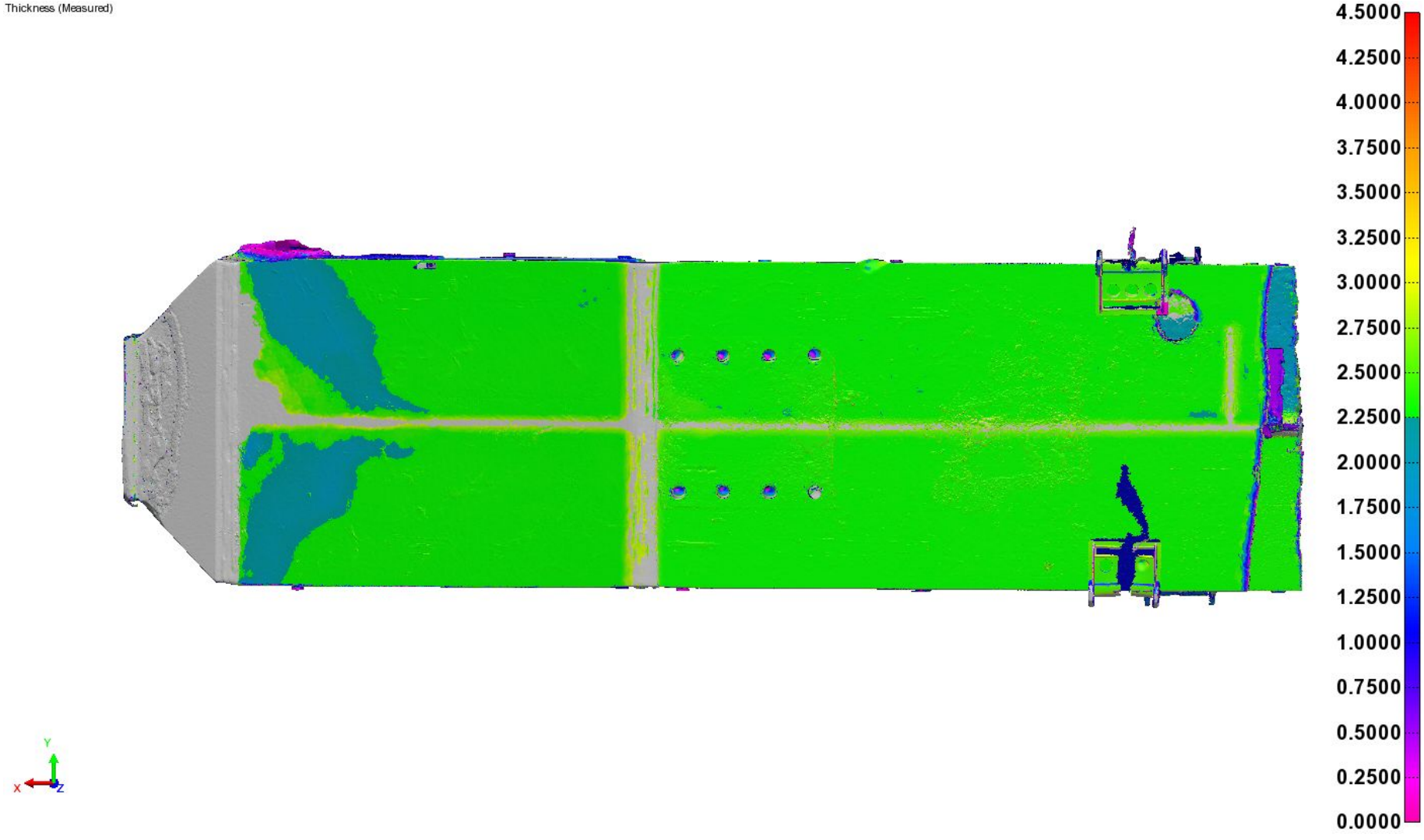
RESULTS

Flange Plate - Upper

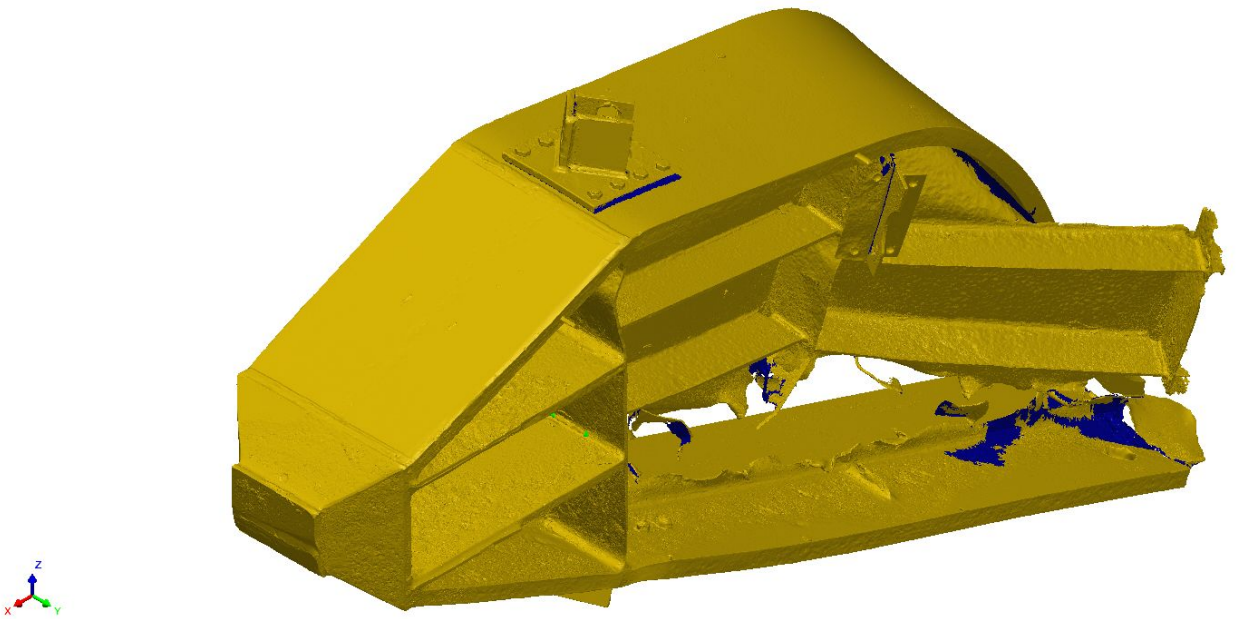


RESULTS

Flange Plate - Bottom



B2R Inspection Report



Company	Creaform
Customer	NTSB
Creaform Project Manager & email	Gabrielle Cobos [redacted]
Metrologist	Yang Lu
Item Number	B2R
Units	inch
Device	MetraSCAN Black & HandySCAN Black
Inspection date	Wednesday, September 14, 2022
Revision number	REV 0

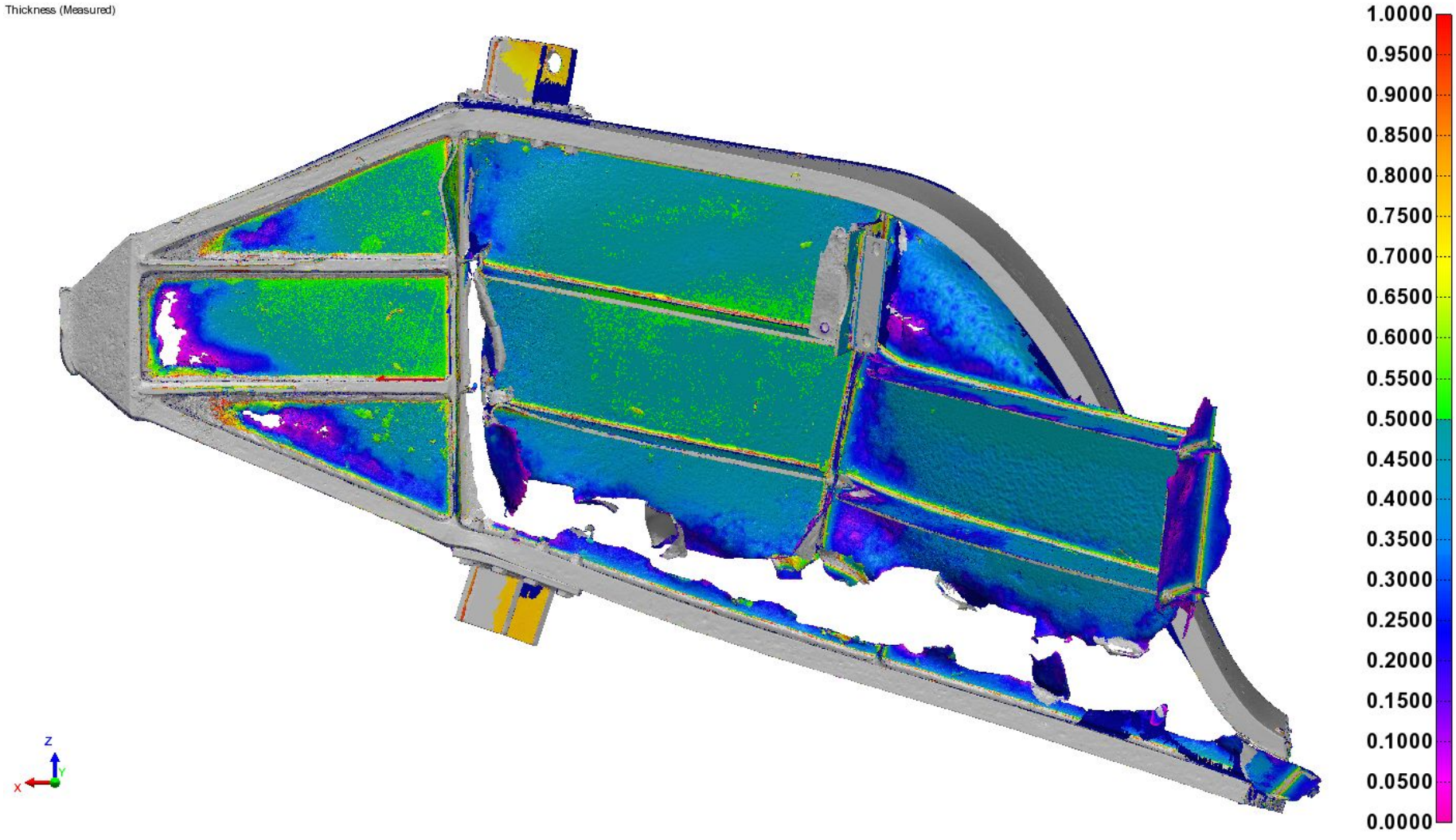
DEVICE USED

Scanning with MetraSCAN 3D

With the MetraSCAN 3D, the surface has been scanned and an optimize mesh was directly generated. The acquisition has been done in a dynamic mode thanks to reference targets positionned on the part and tracked in real time by the C-Track..

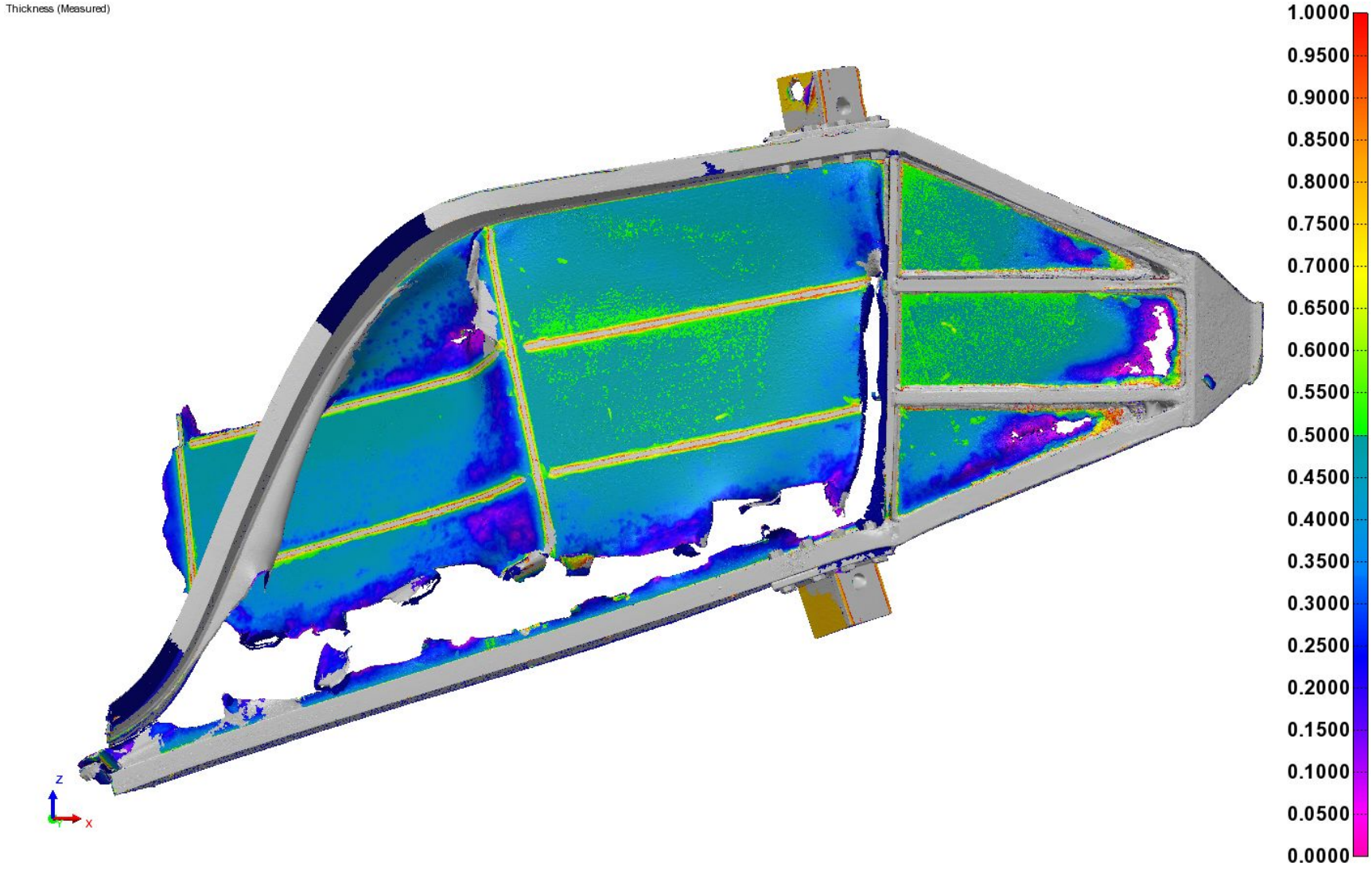
RESULTS

Elevation View - Front



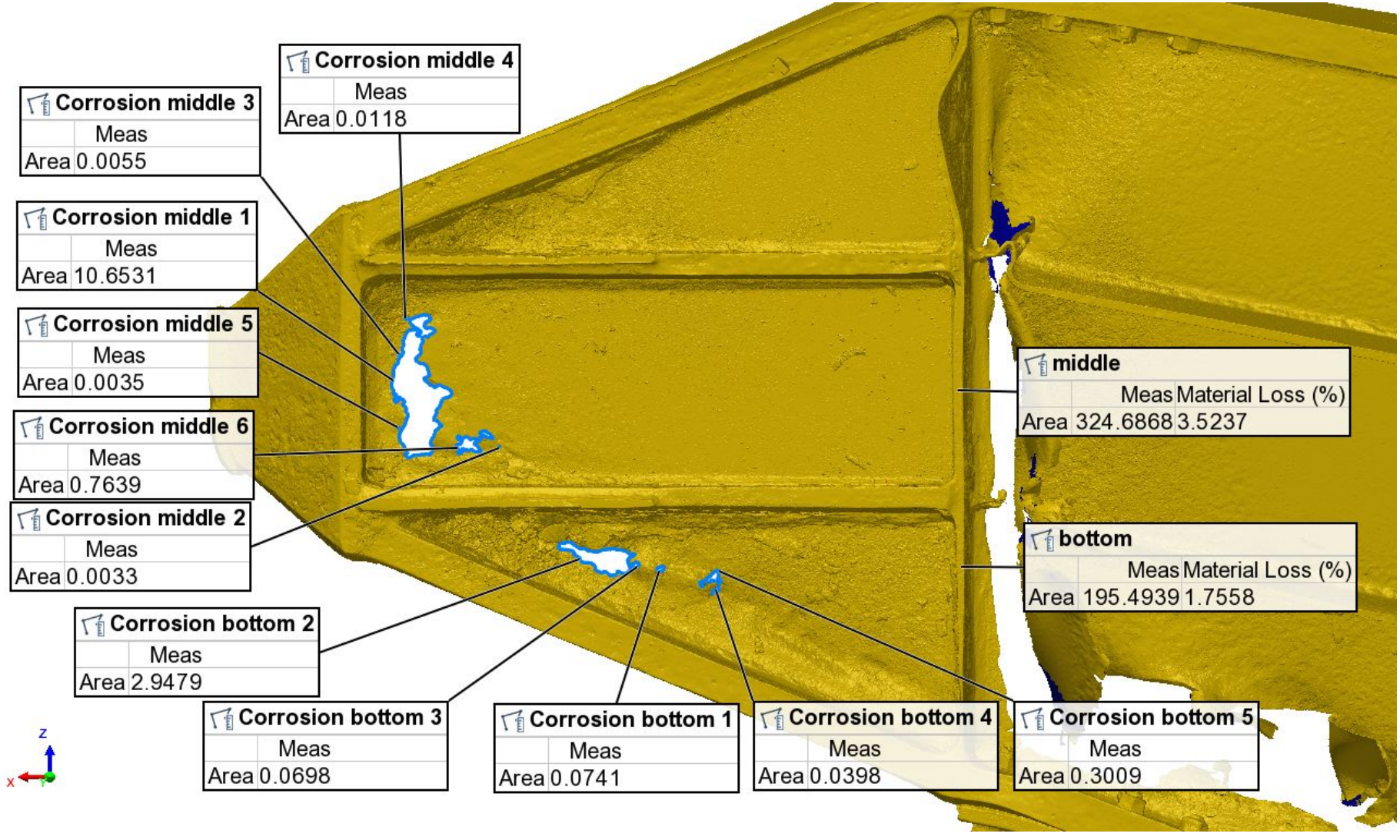
RESULTS

Elevation View - Back



RESULTS

Material Loss - Shoe



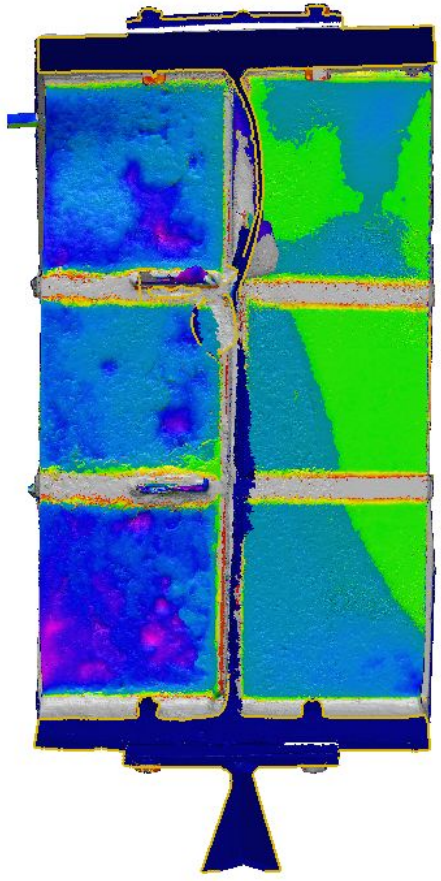
RESULTS

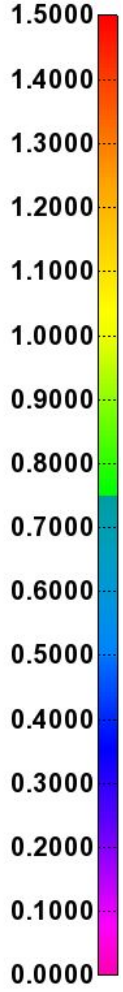
Material Loss - Shoe

Name	Control	Material Loss (%)	Meas
Corrosion middle 1	Area		10.6531
Corrosion middle 2	Area		0.0033
Corrosion middle 3	Area		0.0055
Corrosion middle 4	Area		0.0118
Corrosion middle 5	Area		0.0035
Corrosion middle 6	Area		0.7639
middle	Area	3.5237	324.6868
Corrosion bottom 1	Area		0.0741
Corrosion bottom 2	Area		2.9479
Corrosion bottom 3	Area		0.0698
Corrosion bottom 4	Area		0.0398
Corrosion bottom 5	Area		0.3009
bottom	Area	1.7558	195.4939

RESULTS

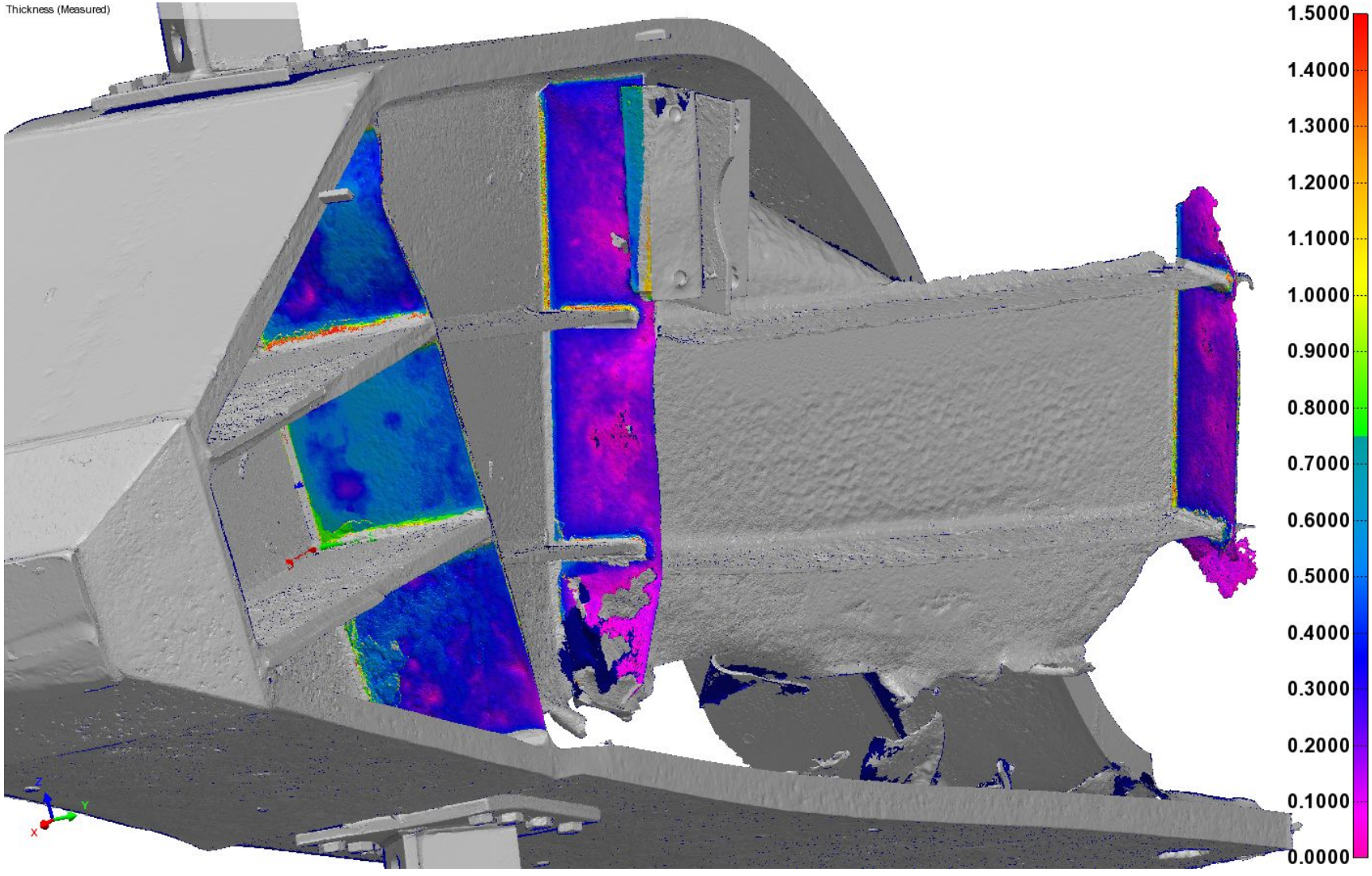
Tie Plate





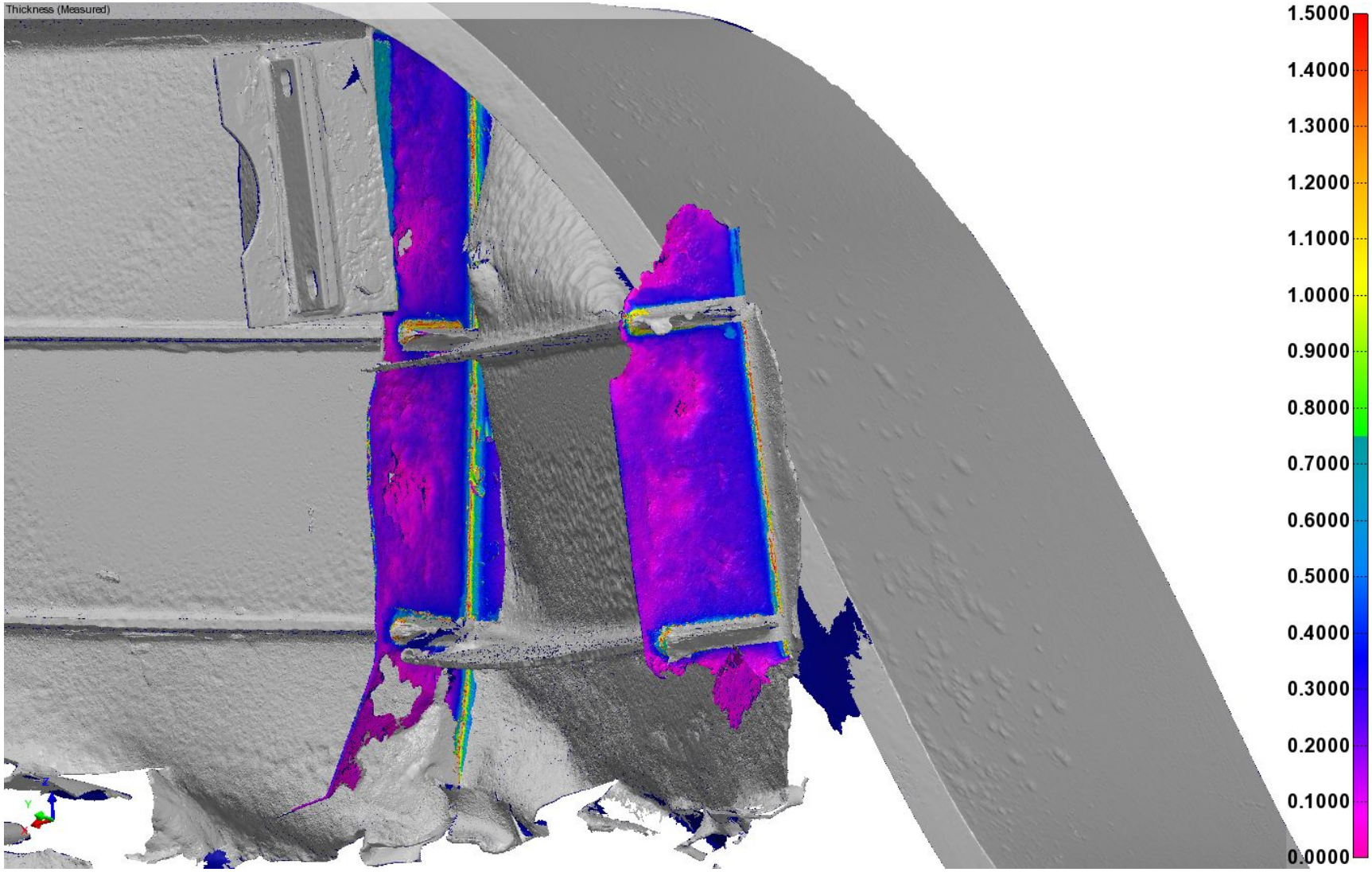
RESULTS

Transverse Stiffener 1



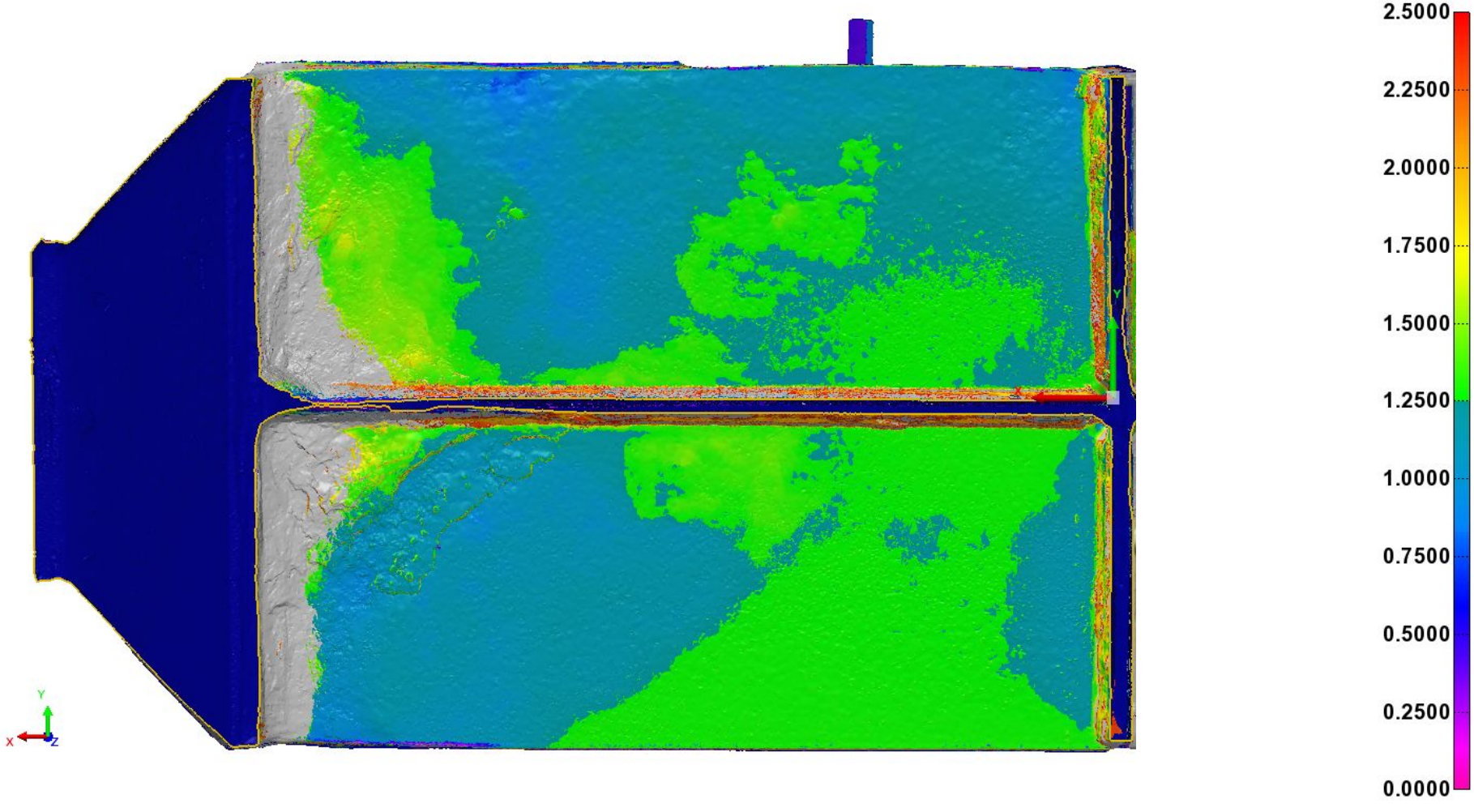
RESULTS

Transverse Stiffener 2



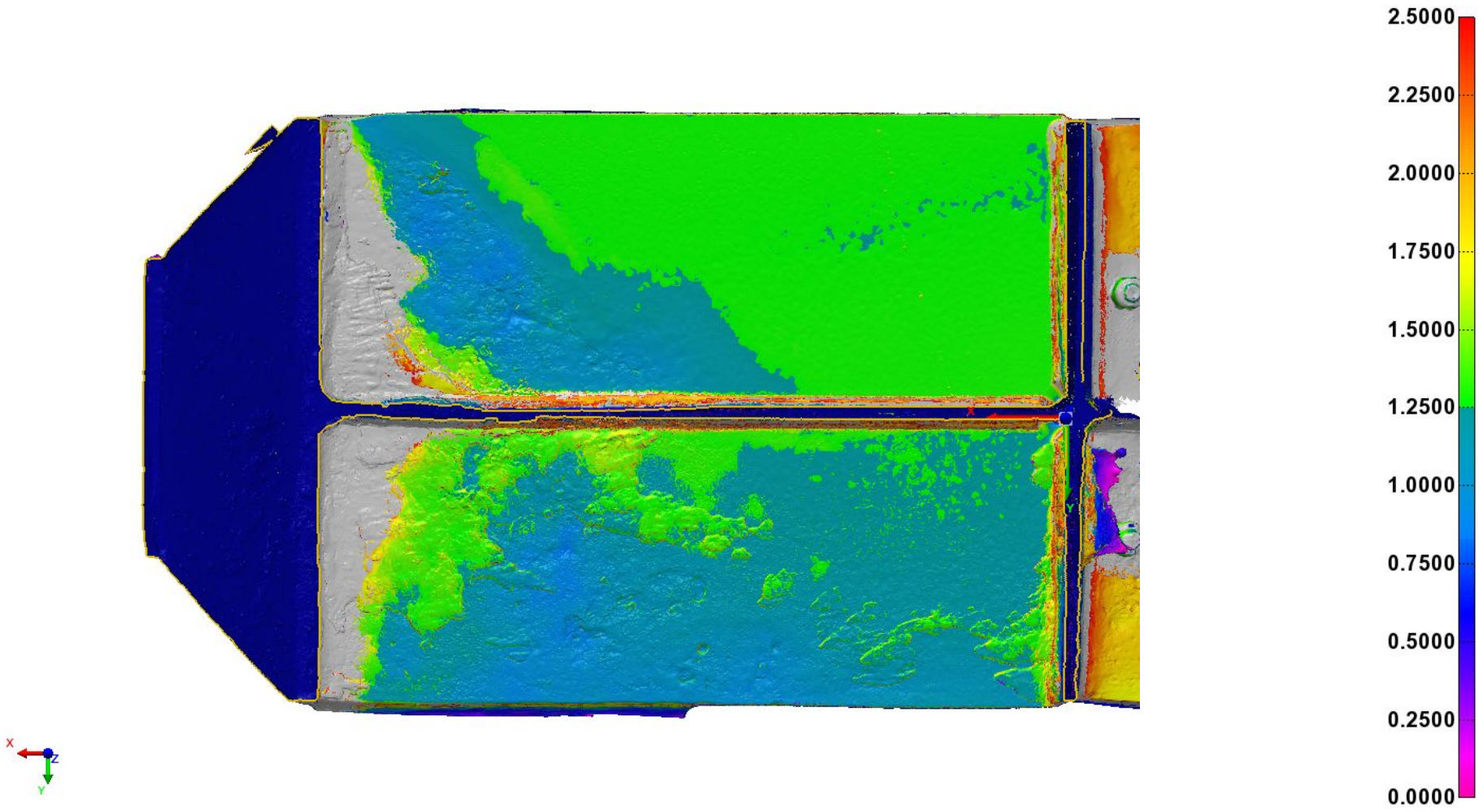
RESULTS

Longitudinal Stiffener - Shoe - Upper



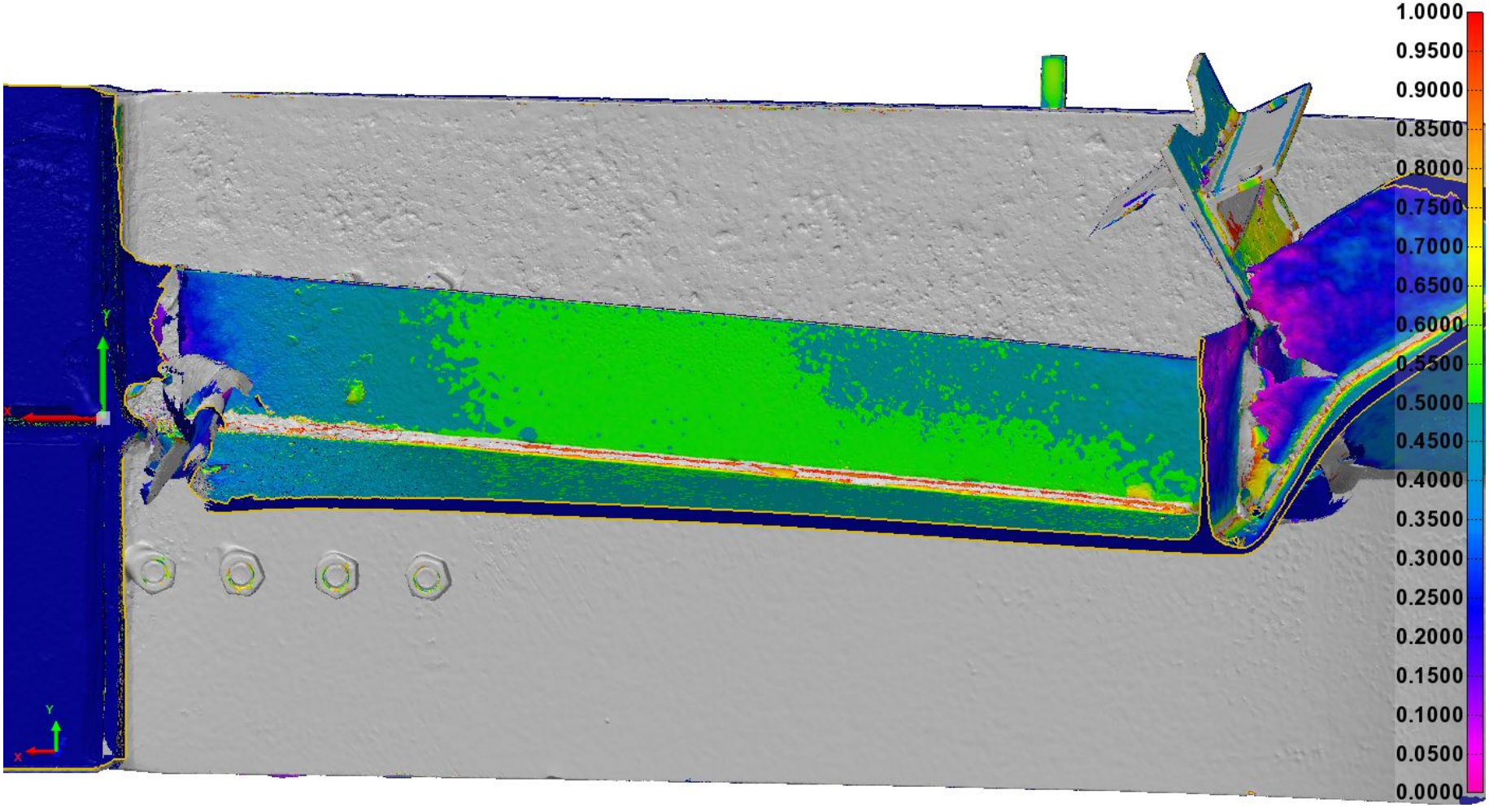
RESULTS

Longitudinal Stiffener - Shoe - Lower



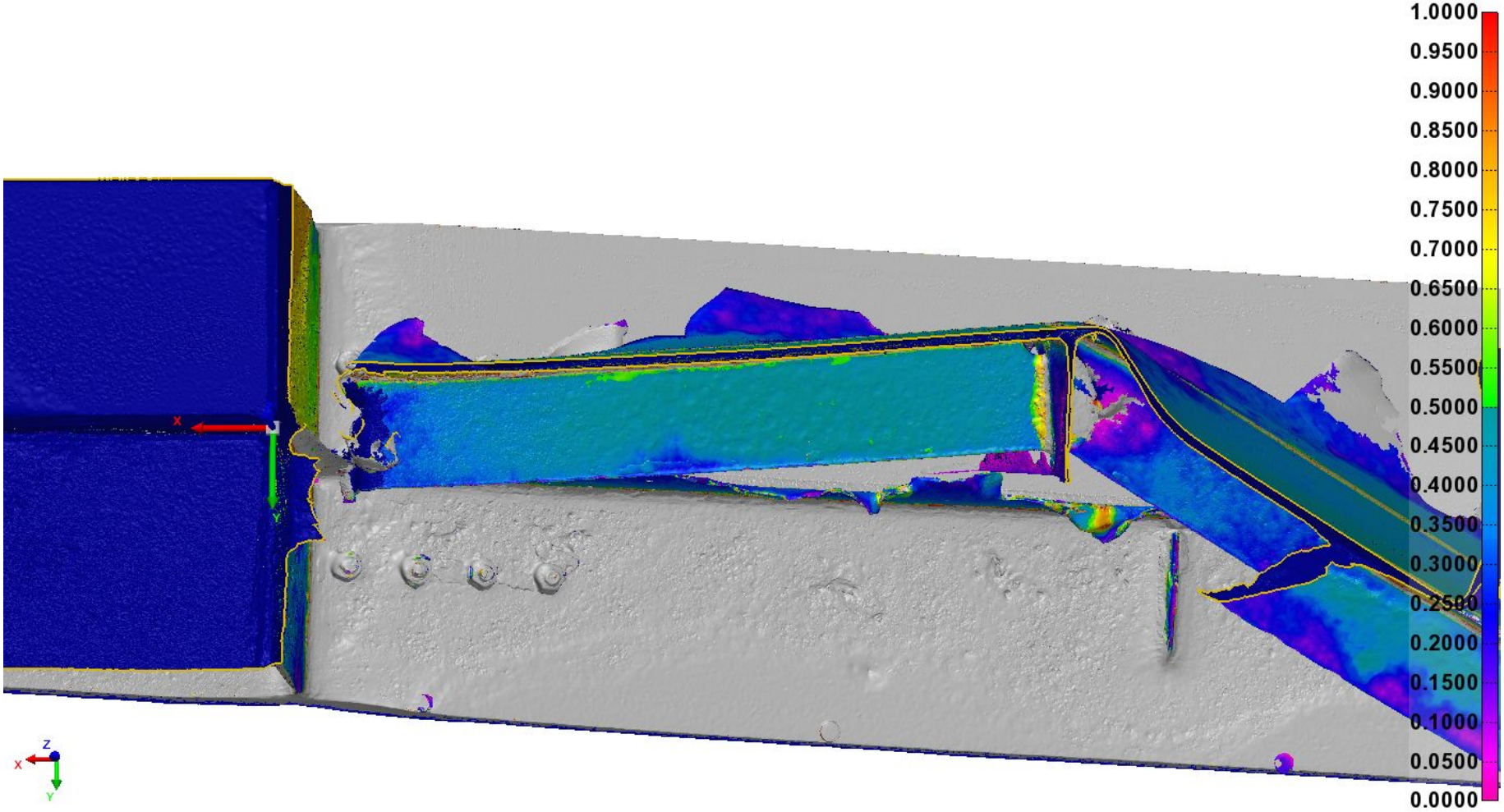
RESULTS

Longitudinal Stiffener - Panel 1 - Upper



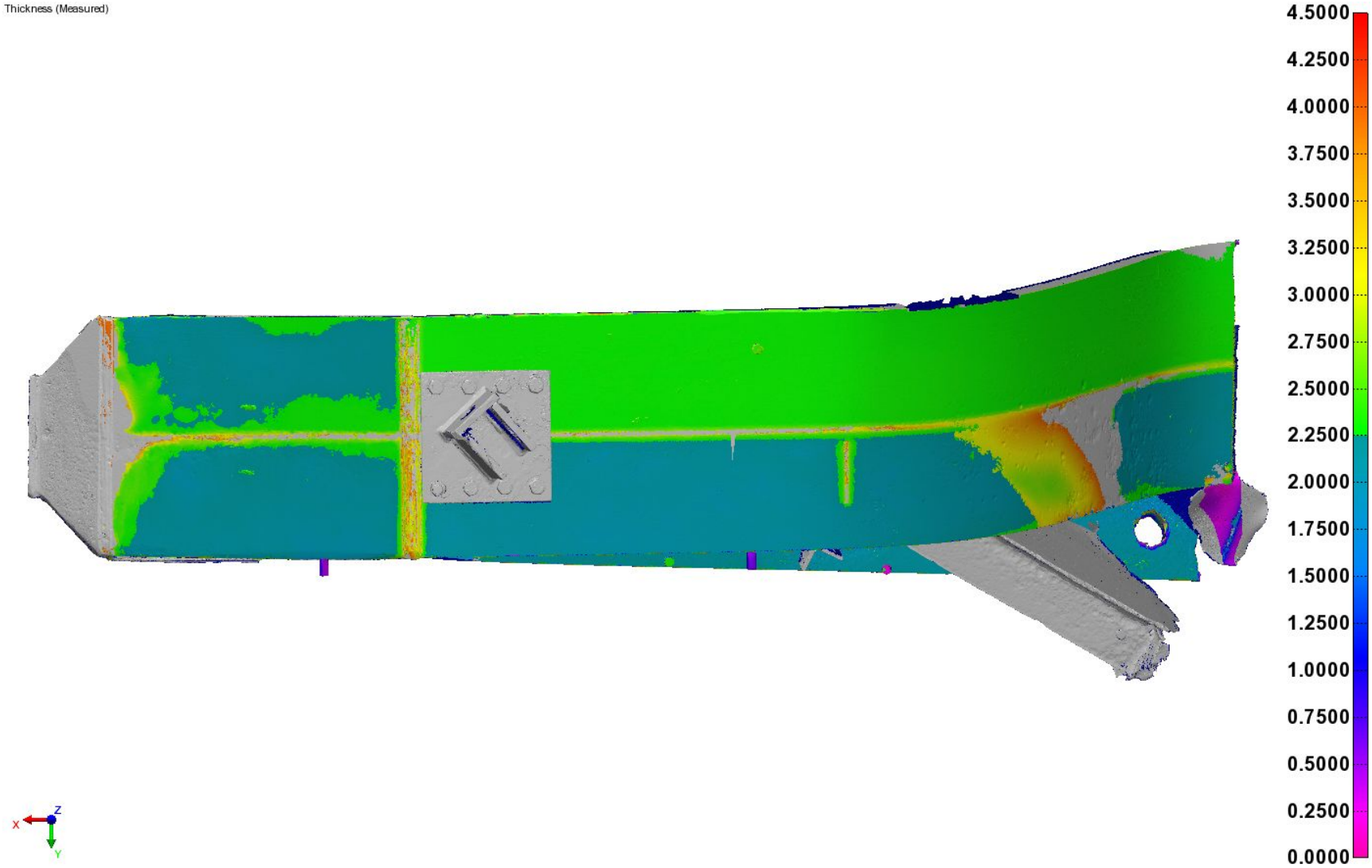
RESULTS

Longitudinal Stiffener - Panel 1 - Lower



RESULTS

Flange Plate - Upper



RESULTS

Flange Plate - Bottom