

DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_BUCH 4B

3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

KAPITEL 3_BUCH 4B | 3D BESTANDSVERMESSUNG
UND FOTODOKUMENTATION

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Wissenschaftliche Bestandsanalyse des Wiener Ernst Happel Stadions

IMPRESSUM

Herausgeber

„Wissenschaftliche Bestandsanalyse – Das Wiener Praterstadion - Ernst Happel Stadion“:
Wiener Sportstätten Betriebsgesellschaft mbH, architektonische und technische Leitung
Mag. Georg Driendl
Wien, Jänner 2024

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INHALT:

Vorwort und Beschreibung der Bestandsanalyse - Zielsetzung, Methode, Dokumentation, Ausblick.

KAPITEL 1 historische Entwicklung

Vorwort - Beschreibende Kurzübersicht der ursprünglichen Zielsetzungen und der Nutzungsgeschichte

KAPITEL 2 Archivmaterial inkl. Quellen und Bezüge

Vorwort - Sammlung und Digitalisierung aller Pläne und Unterlagen aus dem Archiv der Wiener Sportstätten Betriebsgesellschaft mbH., Sport Wien und der Baubehörde. Eine Anfrage an das Südwestdeutsche Archiv für Architektur und Ingenieurbau bezüglich des Nachlass Otto Ernst Schweizers wurde verschickt, die Pläne sind digital nicht verfügbar.

KAPITEL 3 3D Bestandsvermessung und Fotodokumentation

Vorwort - Beschreibung der vermessungstechnischen Bestandserfassung mittels Laserscan

KAPITEL 4 Reverse Engineering (3D Modell)

Vorwort - Reverse Engineering; Beschreibung der Herstellung eines digitalen 3D Modells auf Basis der Ausführungspläne des Archivs der Wiener Sportstätten Betriebsgesellschaft mbH, Sport Wien sowie der Baubehörde und die zugehörige integrierte Verknüpfung (Navigation)

KAPITEL 5 Anpassung zur Fortnutzung/Instrumentarium "Digitaler Zwilling"

Vorwort - Beschreibung, wie anstehende Maßnahmen zur Instandhaltung und Kontrollüberprüfung, sowie Entwicklungspotentiale für künftige Nutzungen und Adaptierungen im Hypermodell, vorab erkannt, dargestellt, approbiert, visualisiert, berechnet und dann operativ ein und/oder umgesetzt werden können.

ANNEX Quellenangaben und Glossar

Auswahl und Auflistung der Bezugsquellen und verwendeten Programme; Glossar

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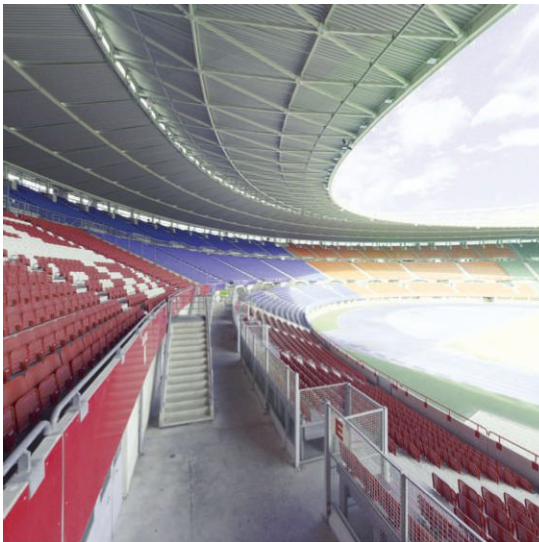
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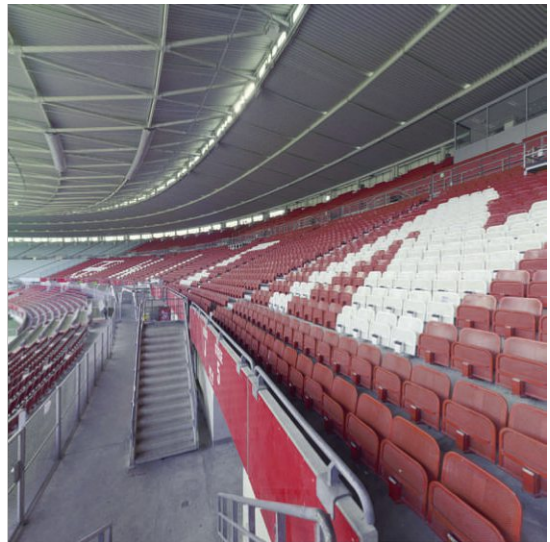
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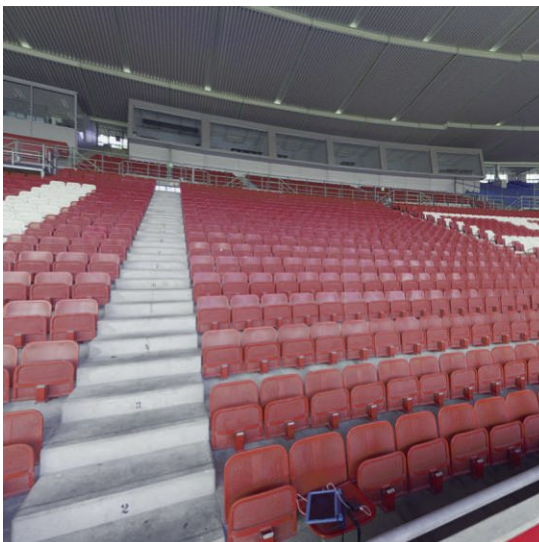
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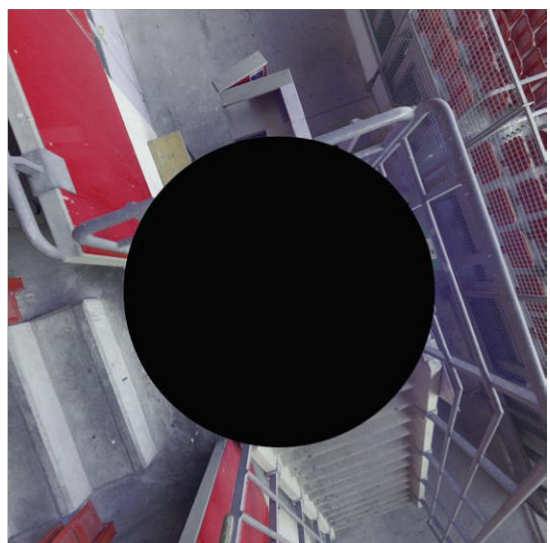
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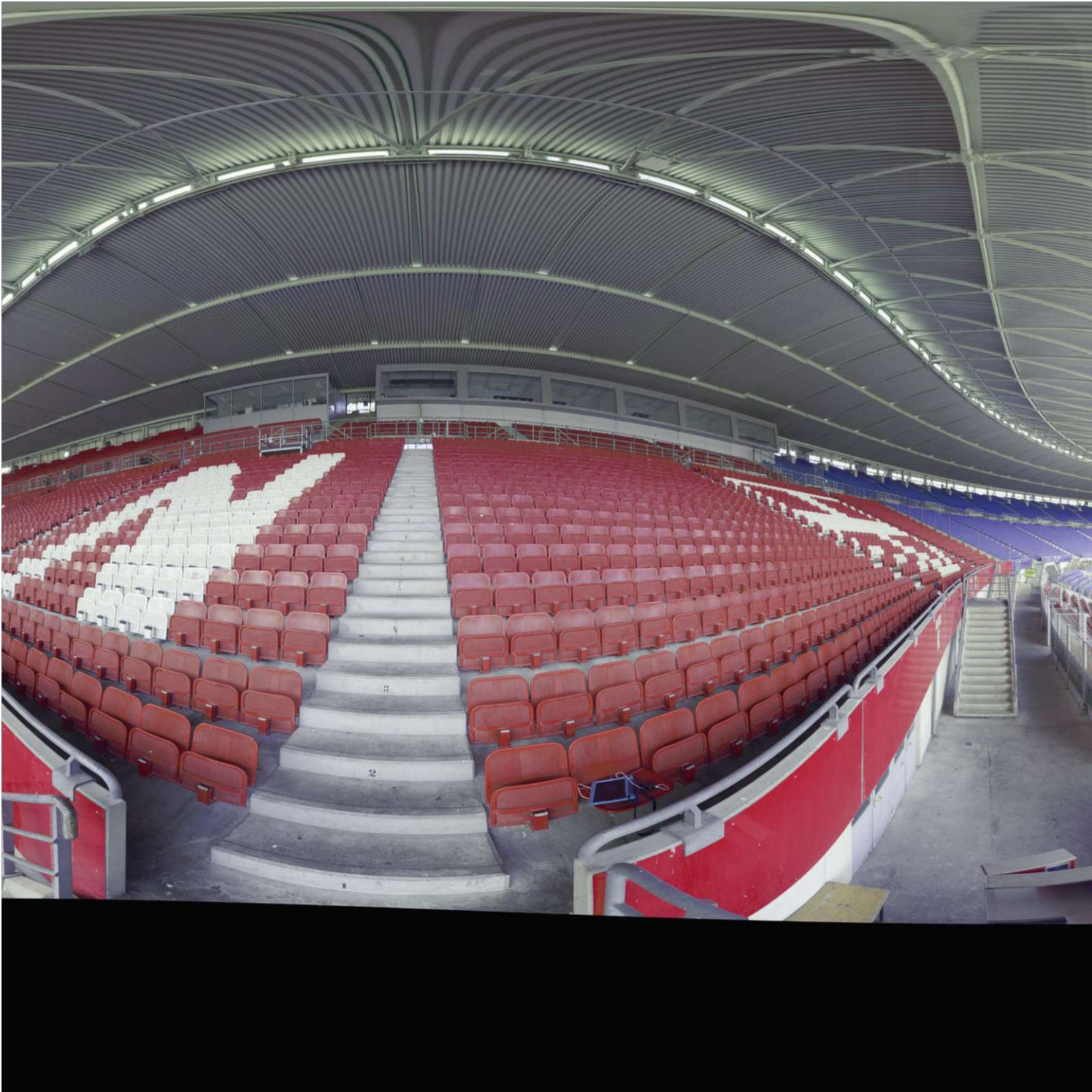


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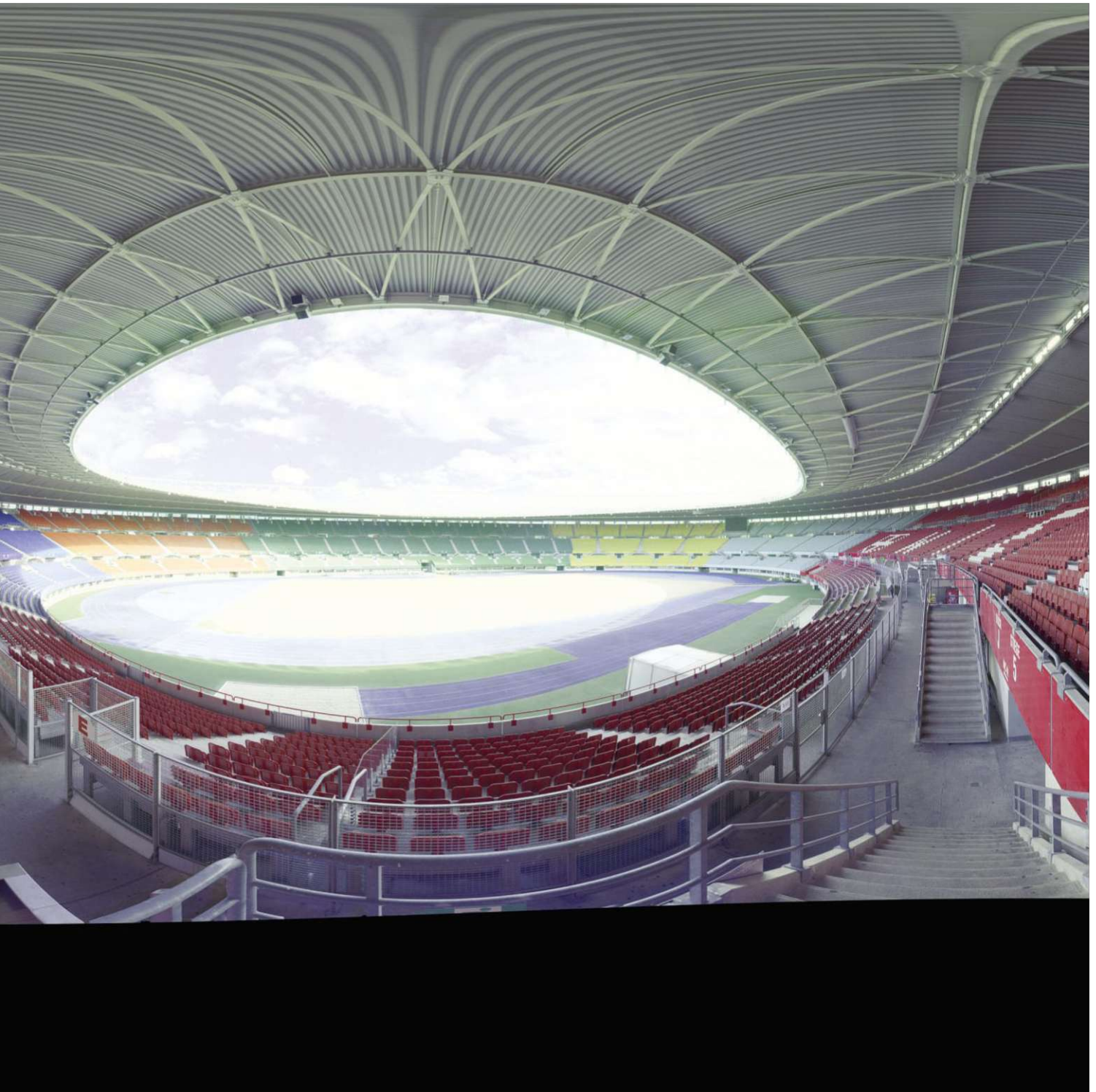
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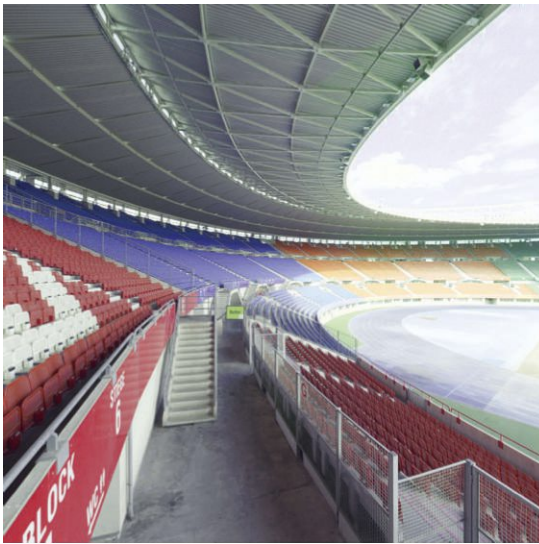
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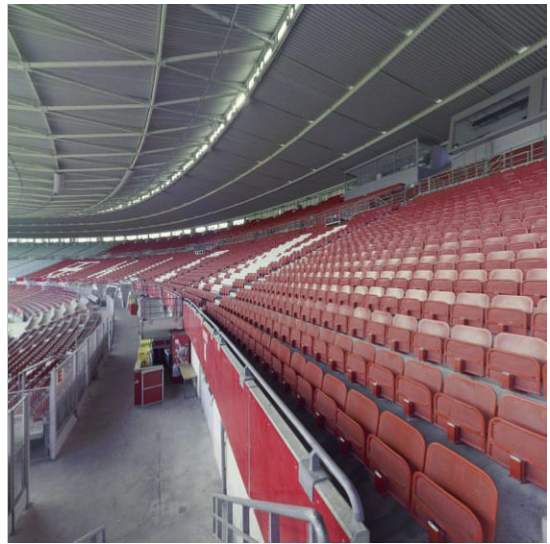
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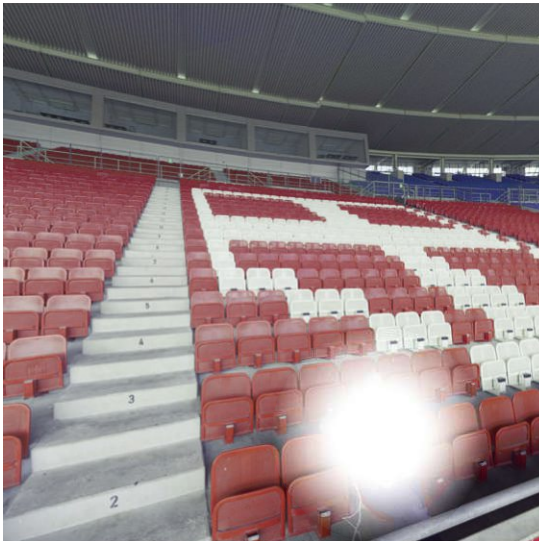
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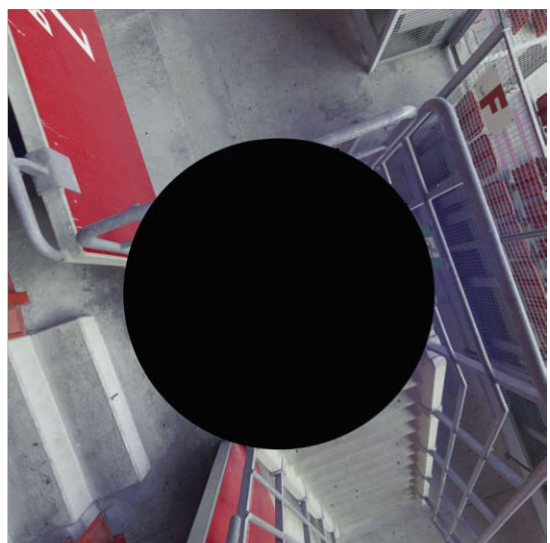
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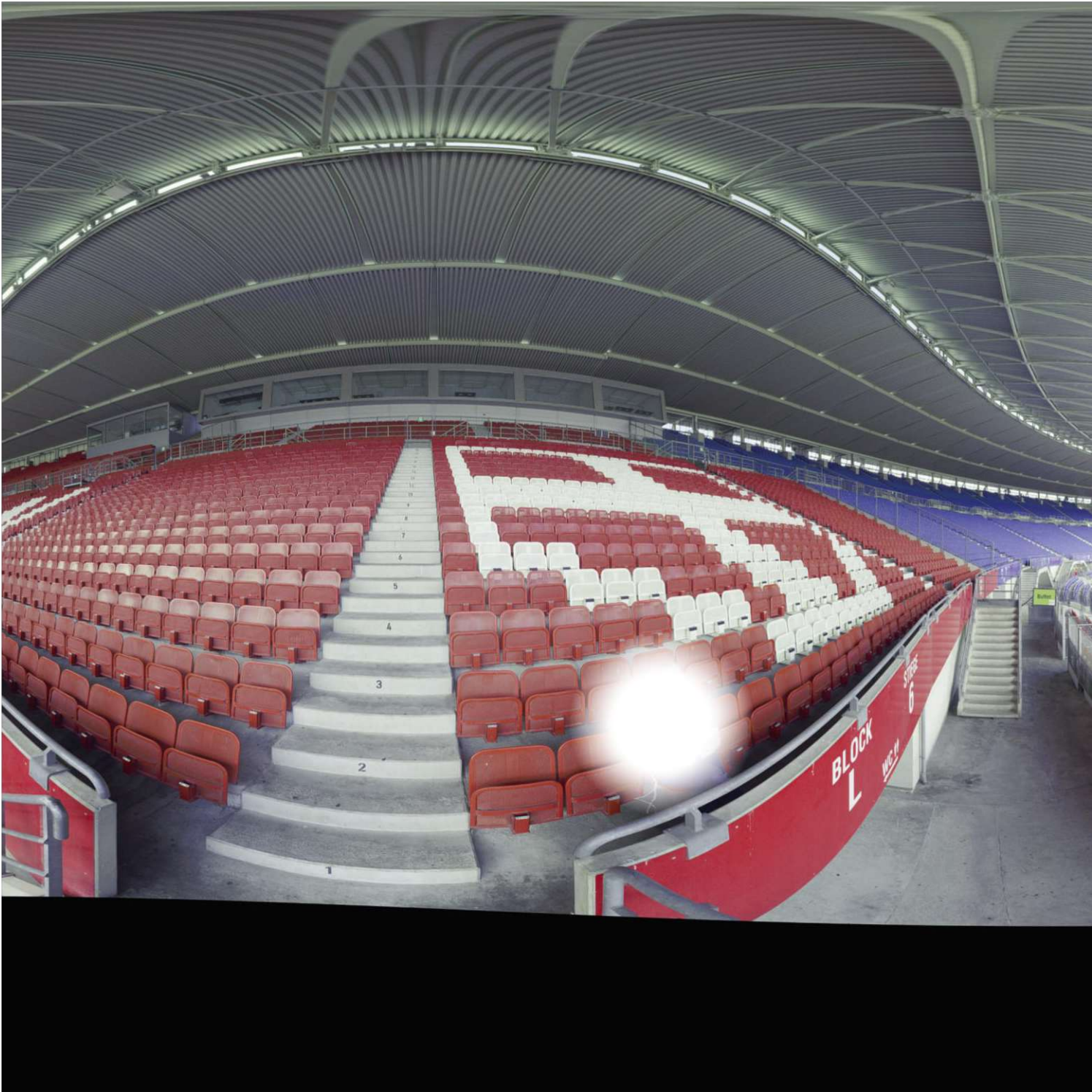


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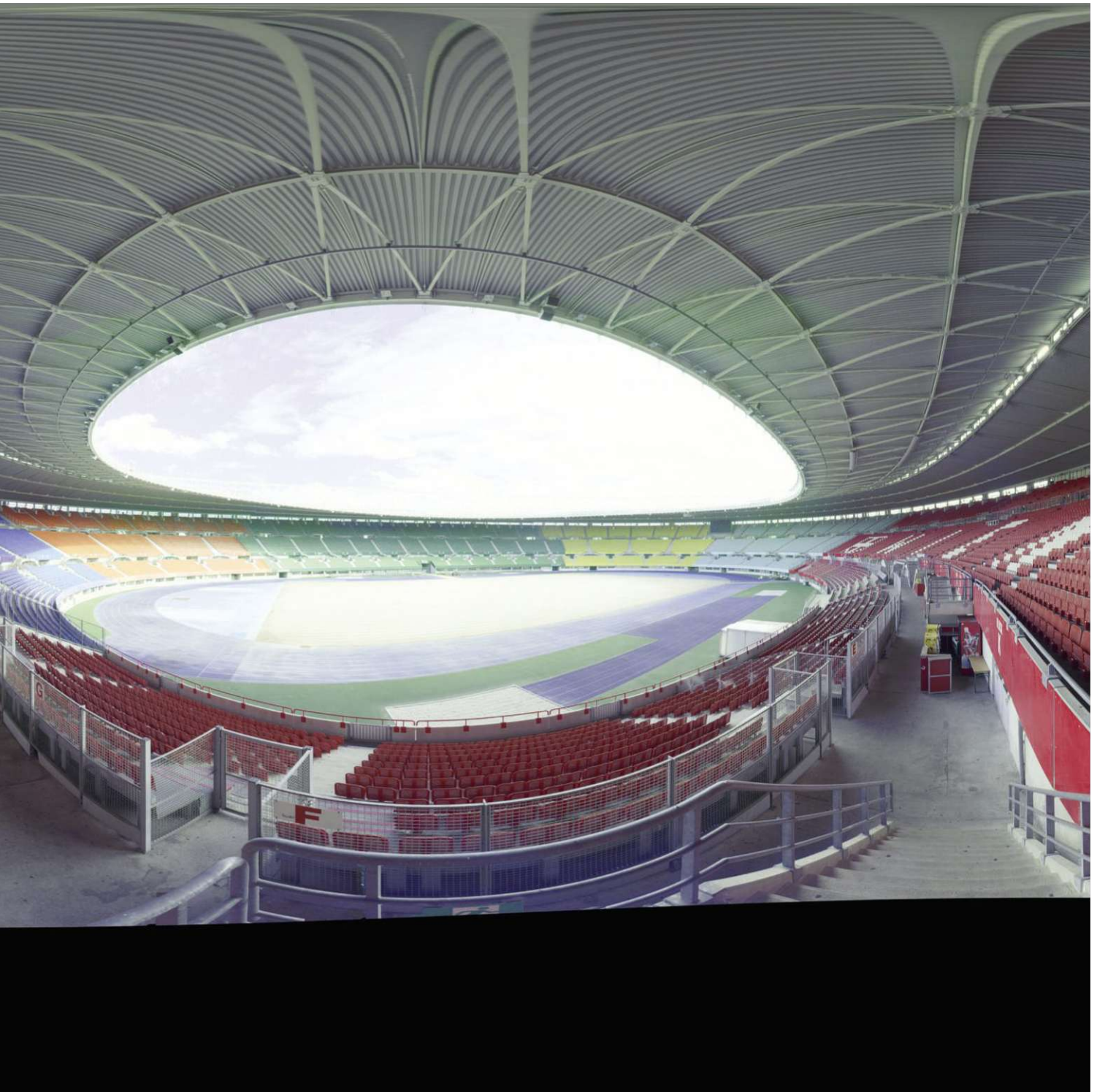
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KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

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KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

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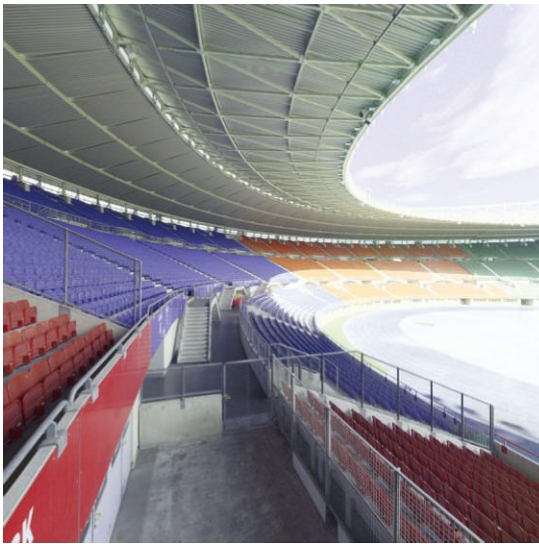
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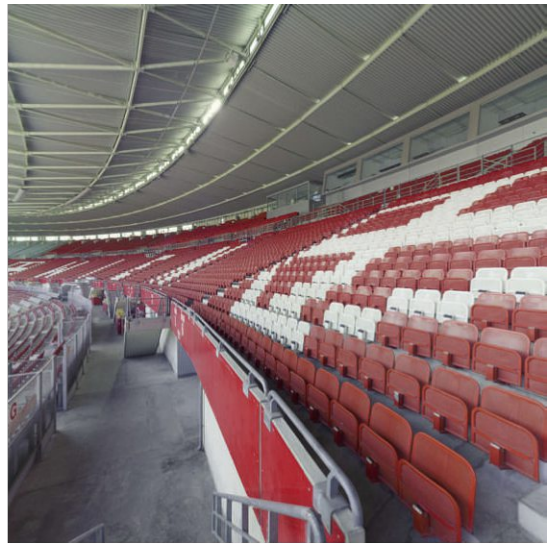
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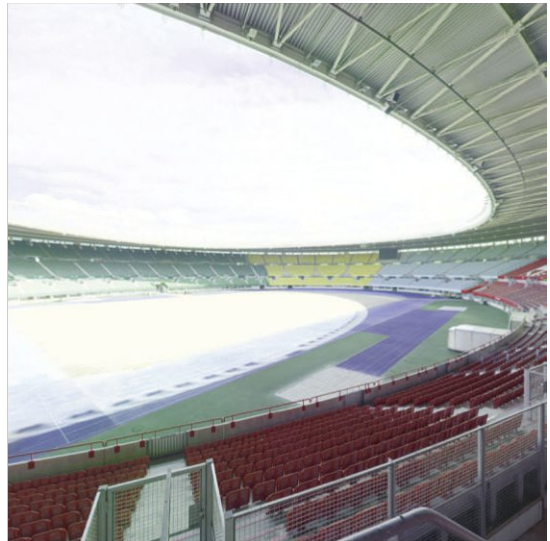
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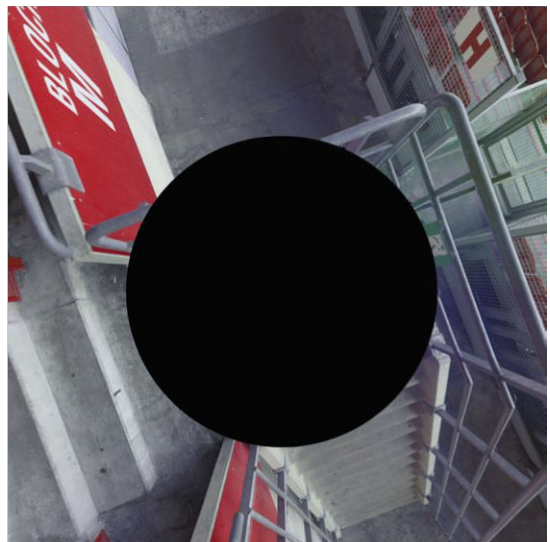
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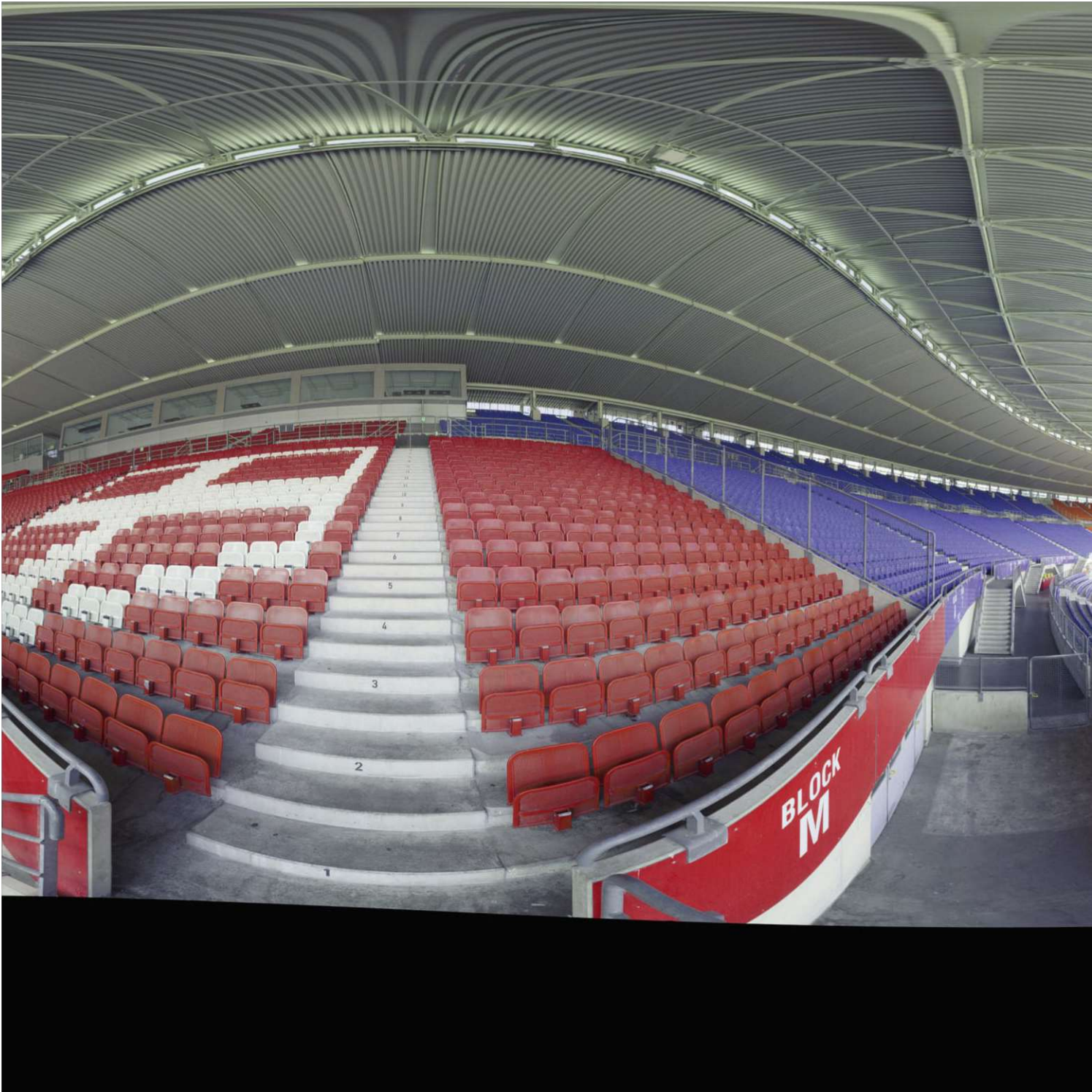


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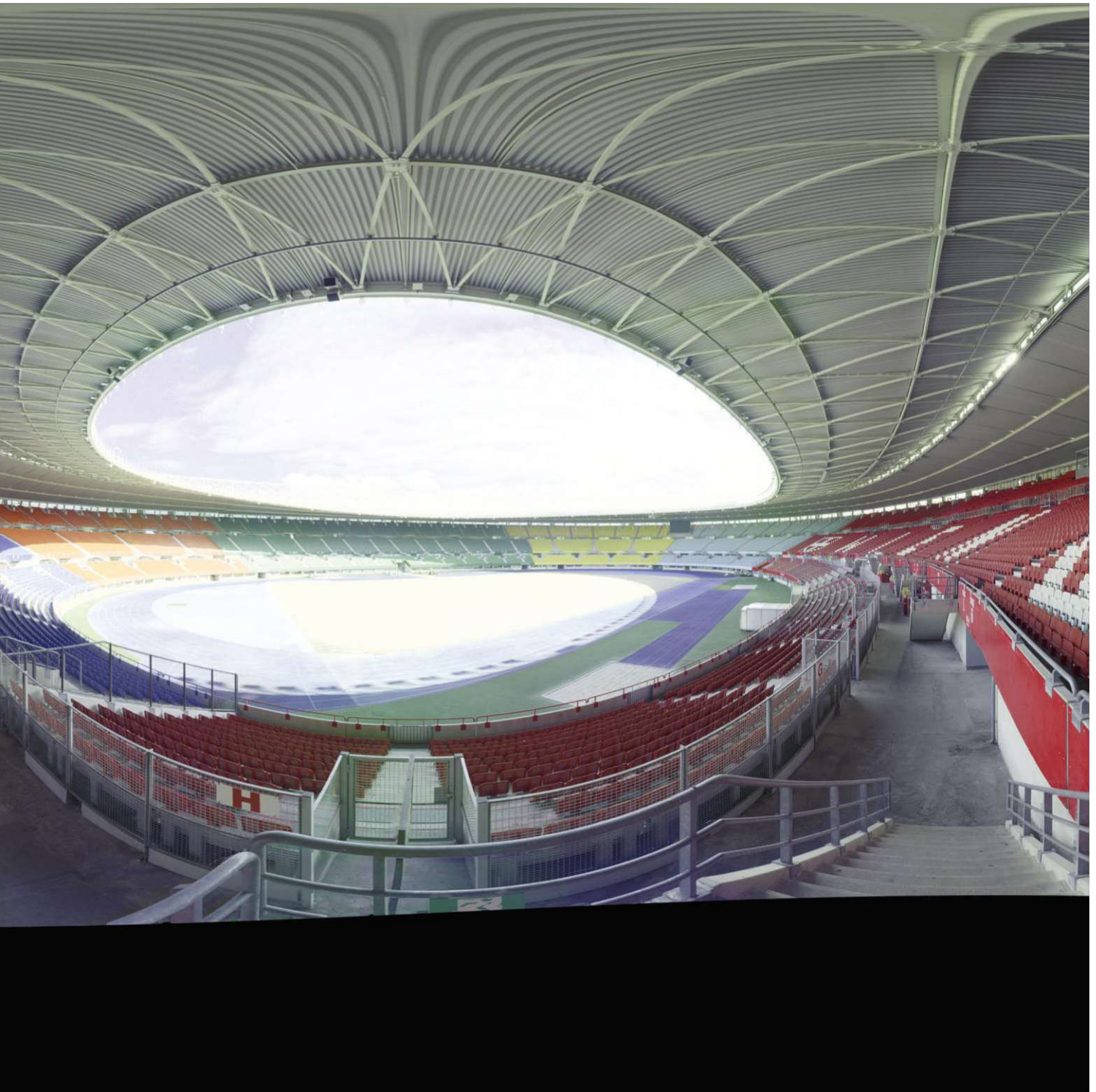
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Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

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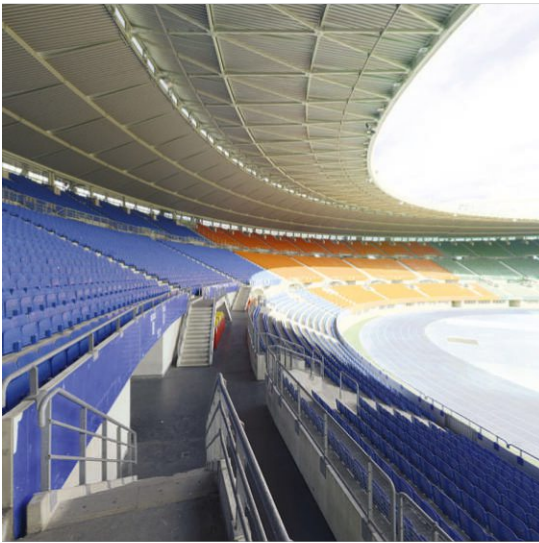
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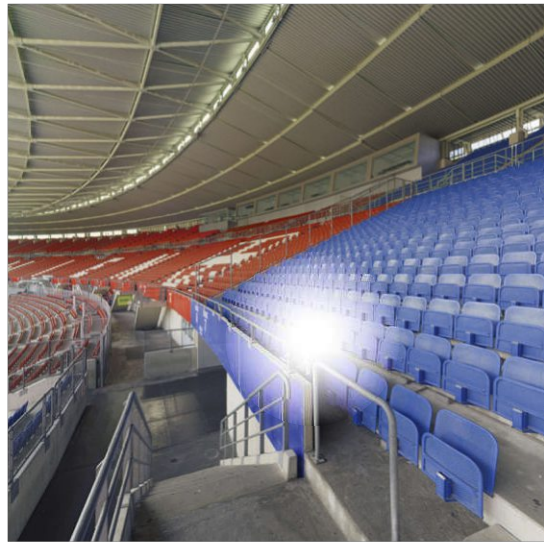
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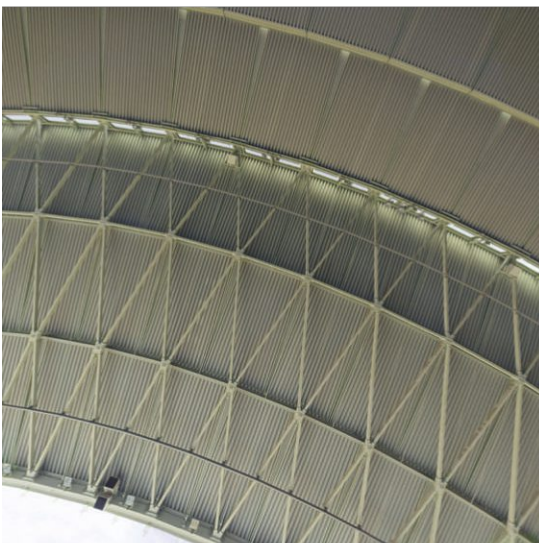
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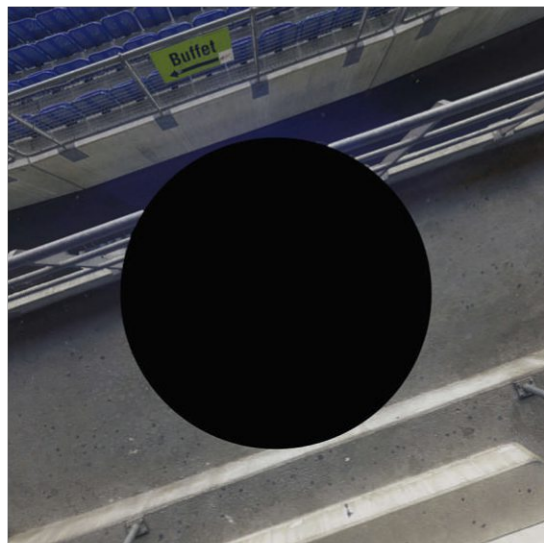
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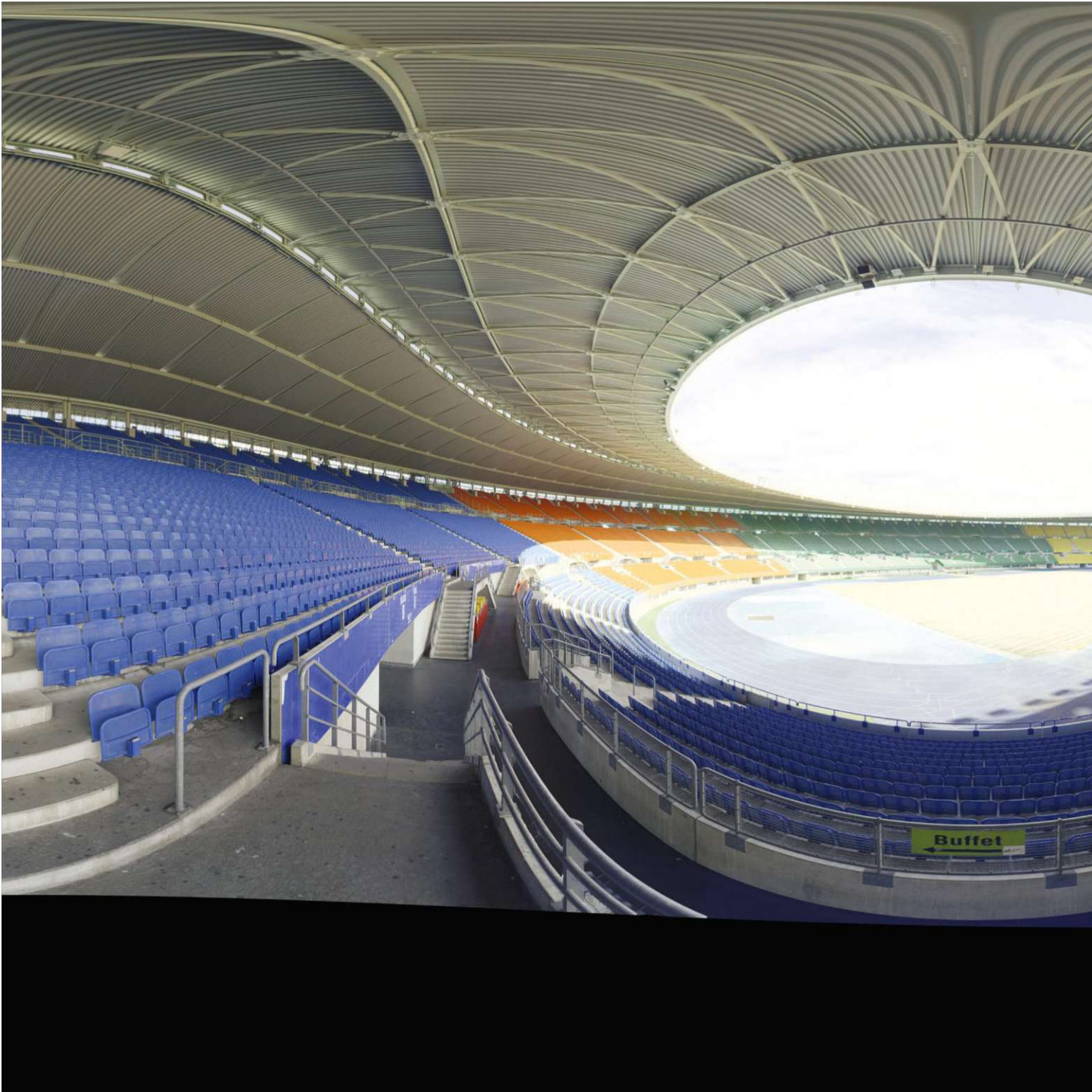


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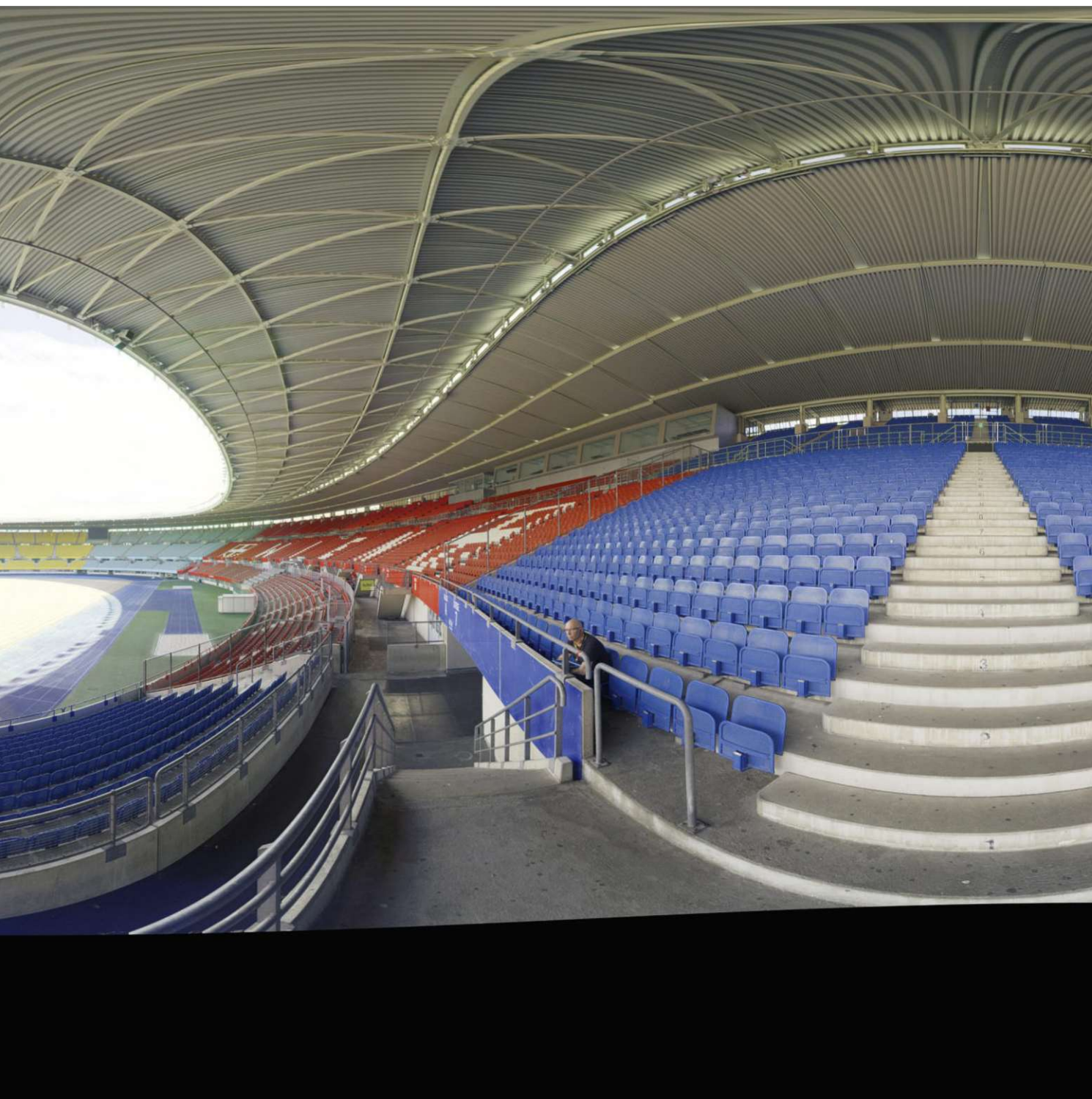
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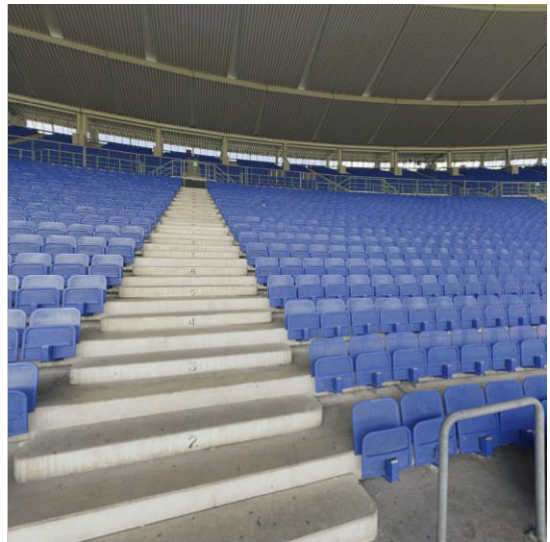
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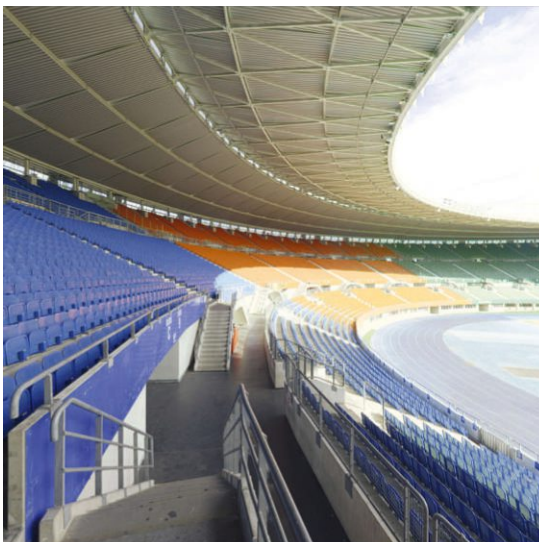
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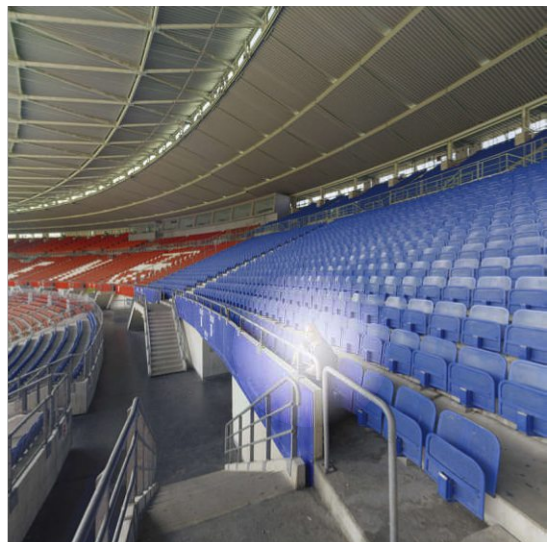
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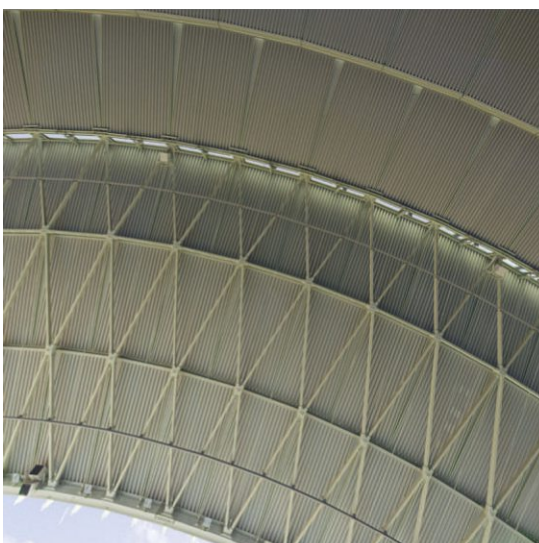
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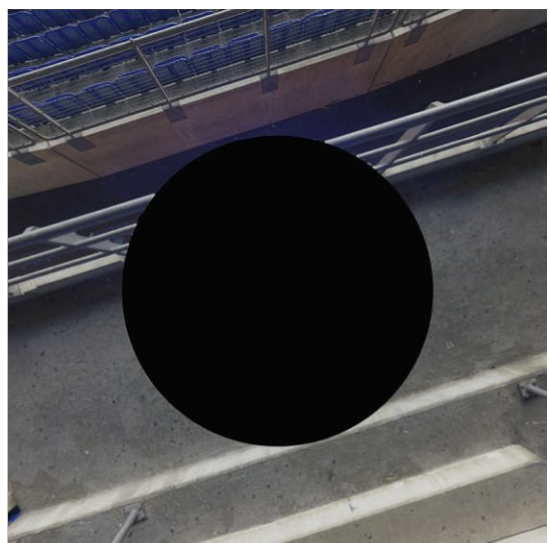
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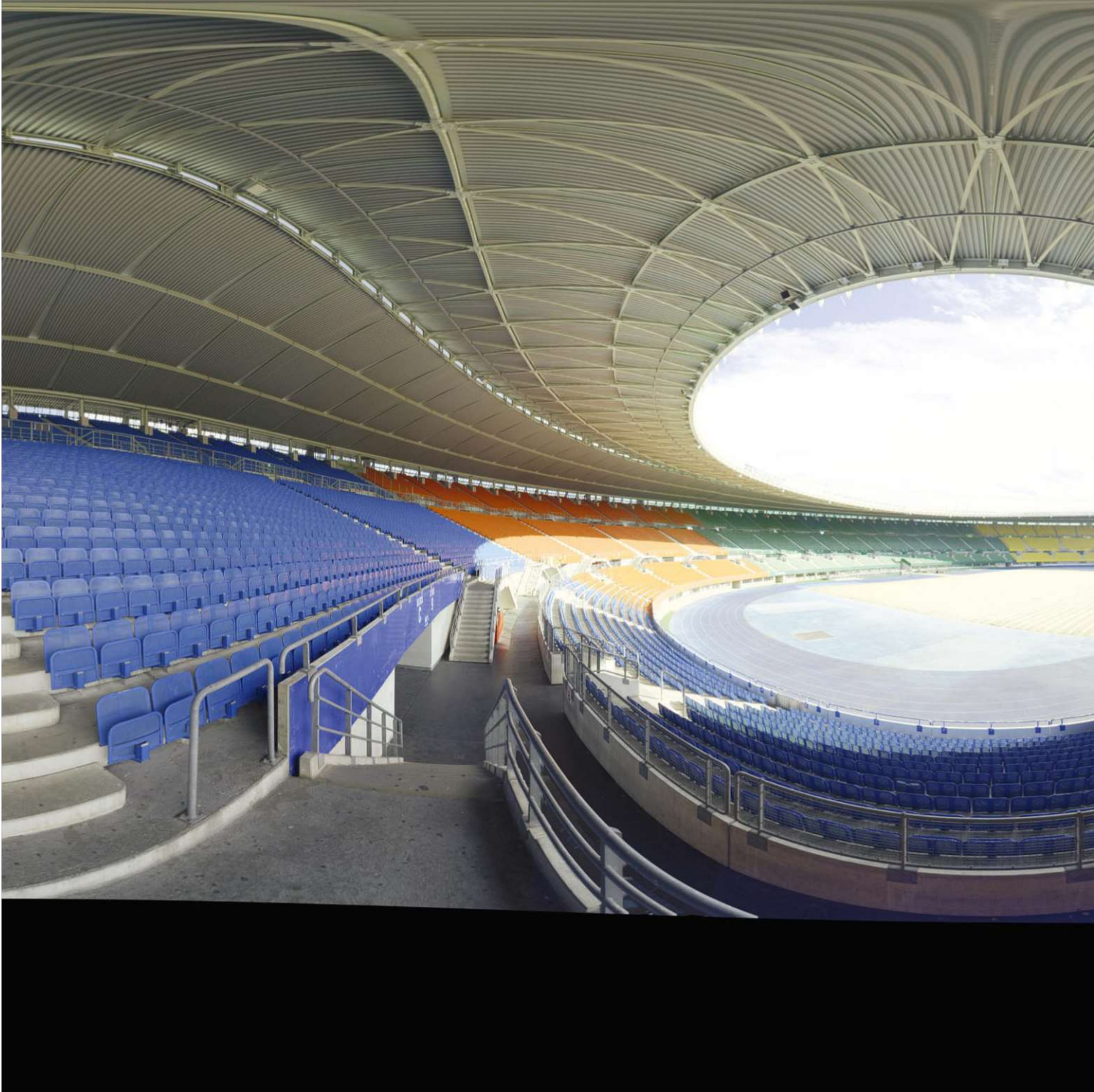


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Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

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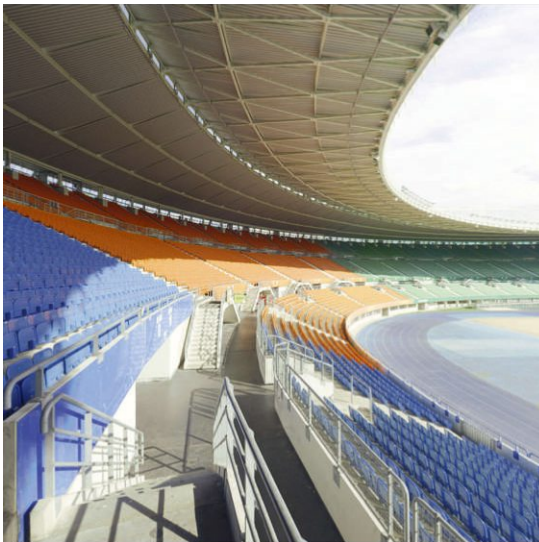
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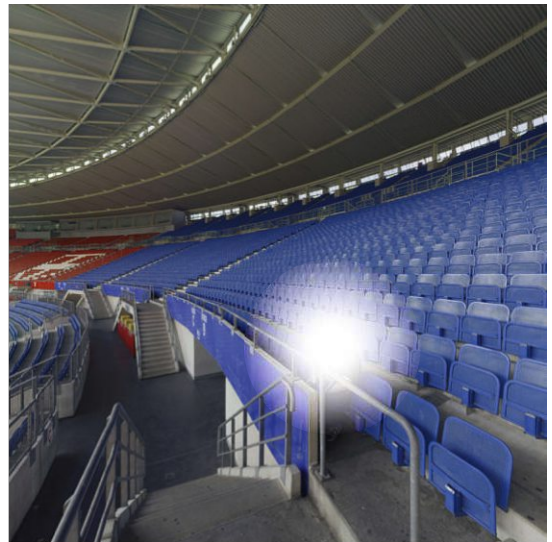
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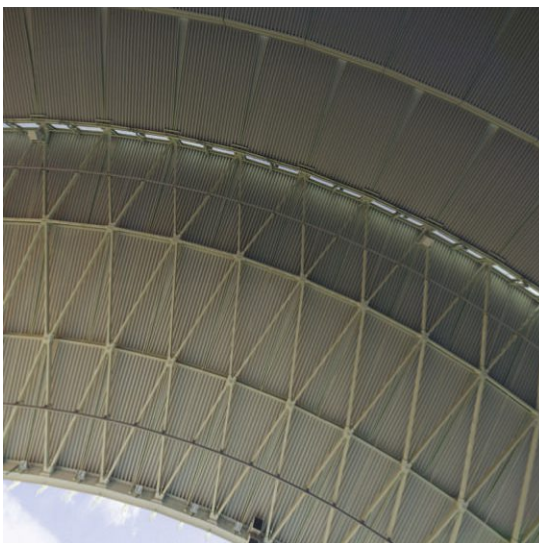
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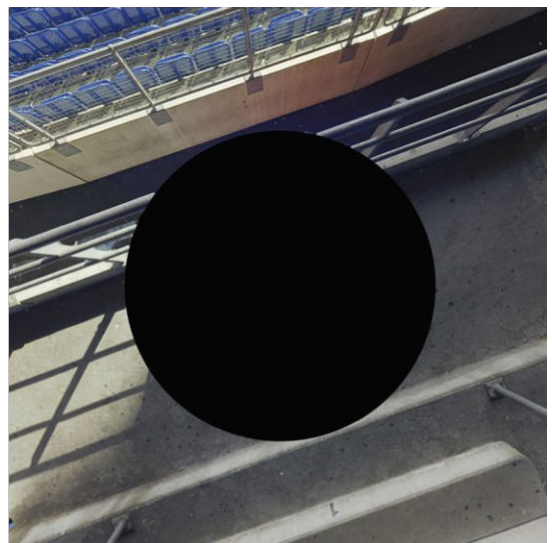
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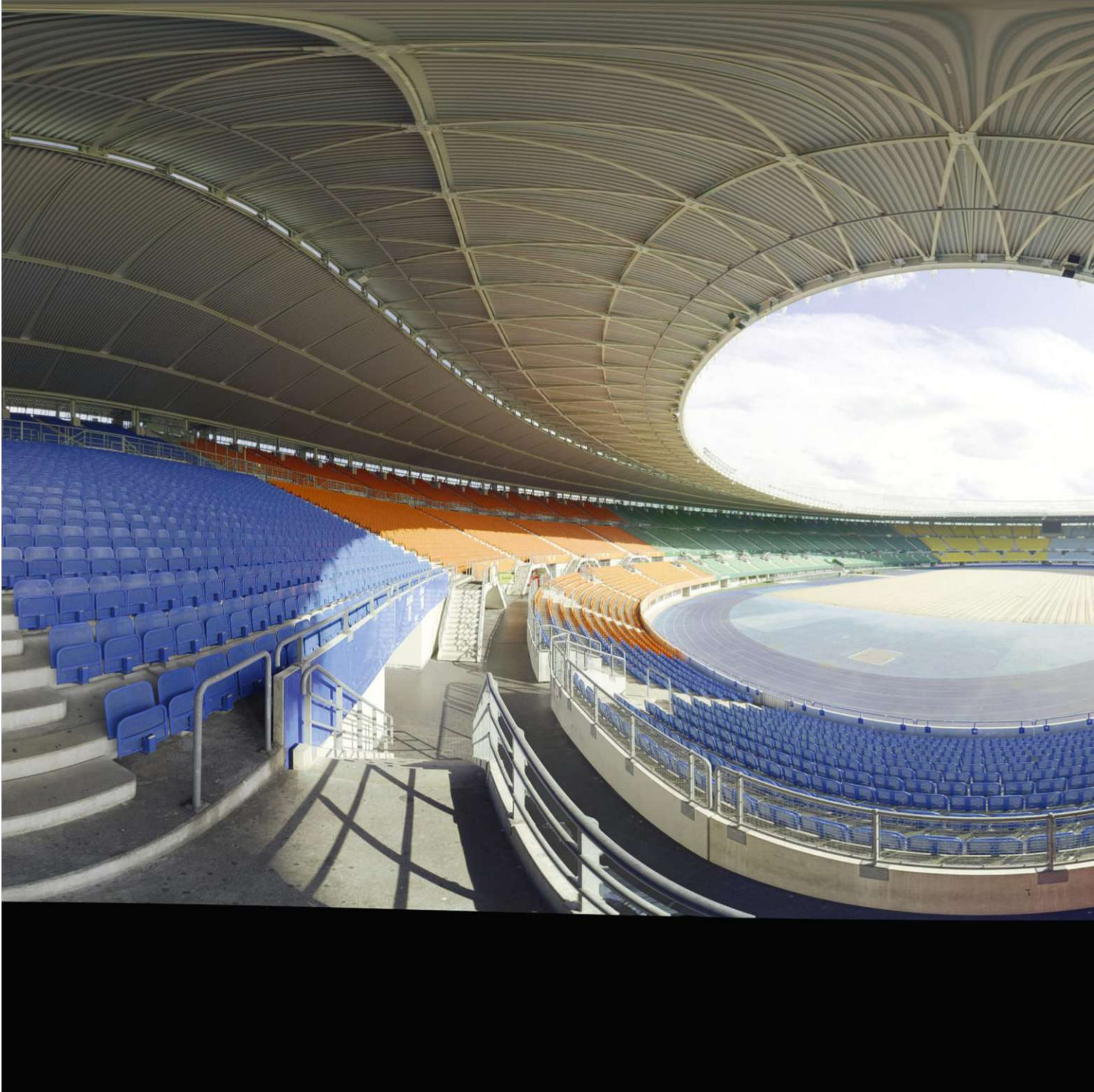


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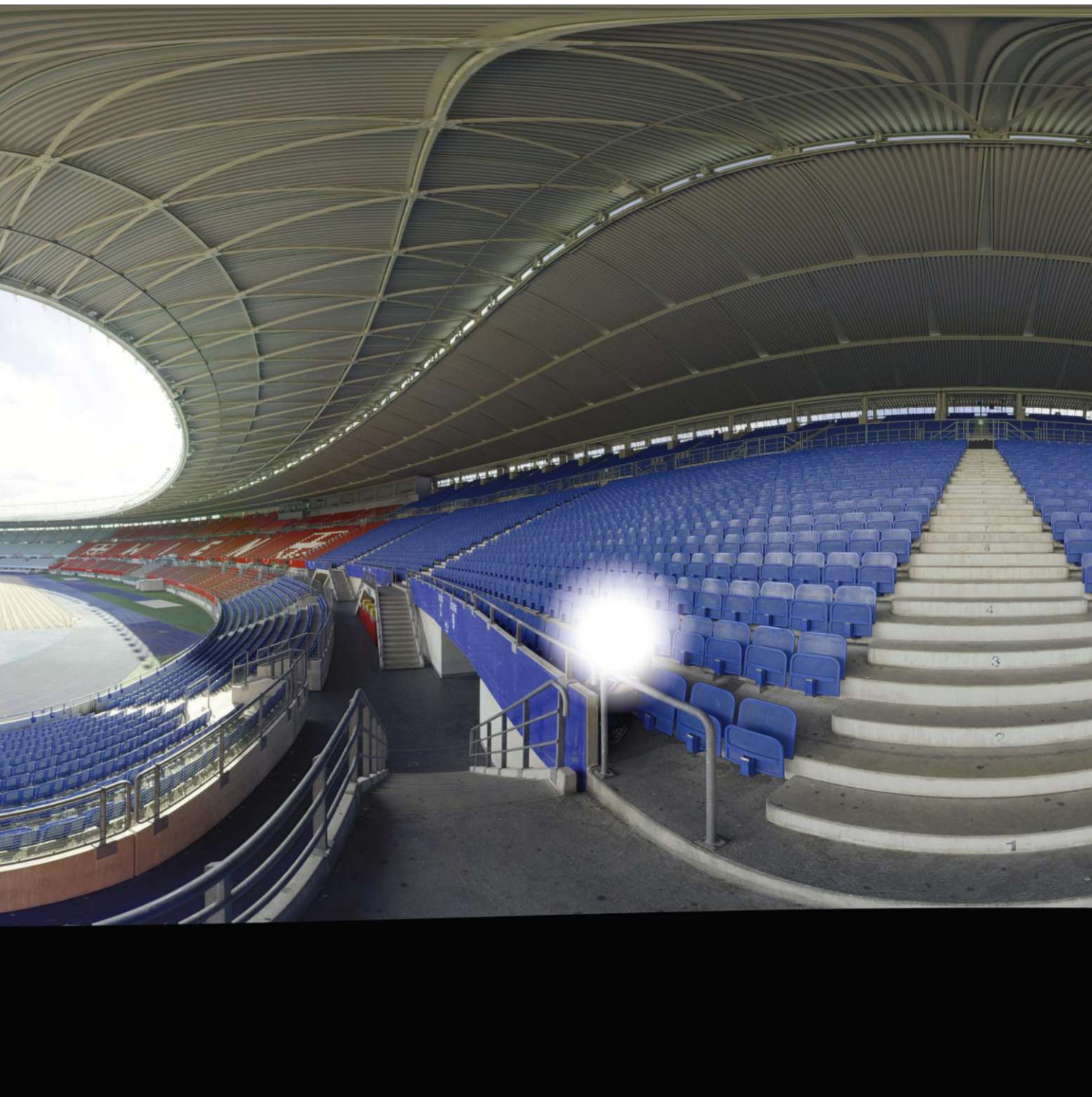
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Standpunkt Messung | Koordinaten

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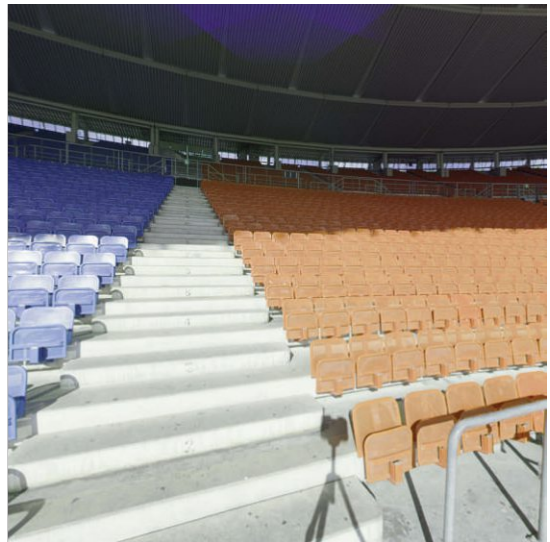
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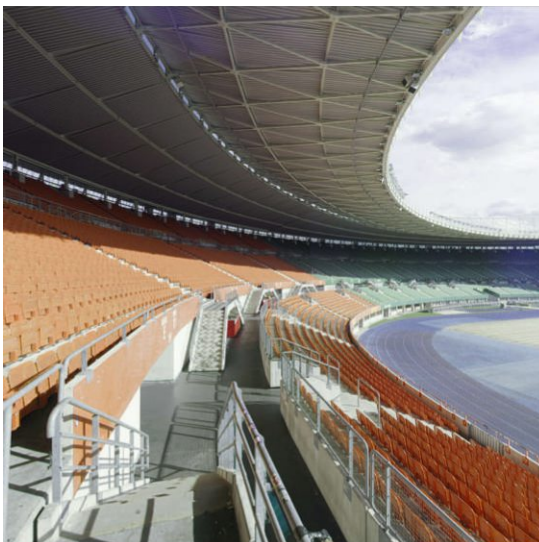
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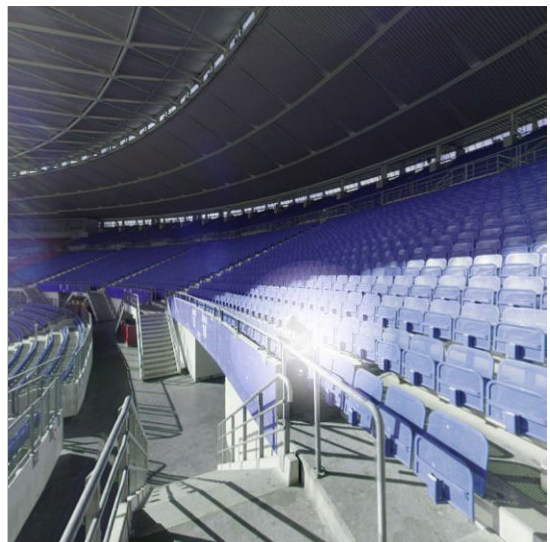
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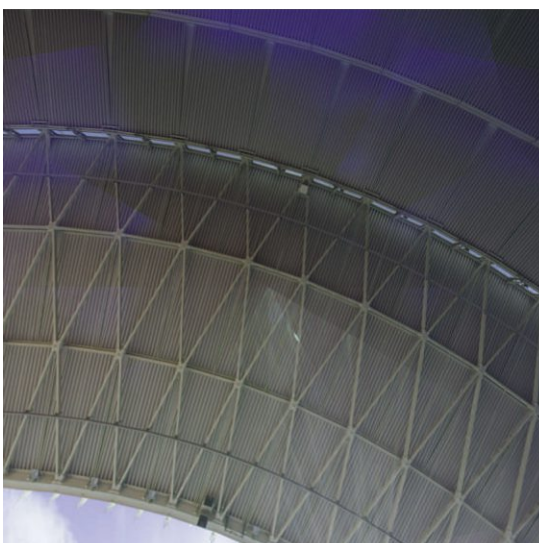
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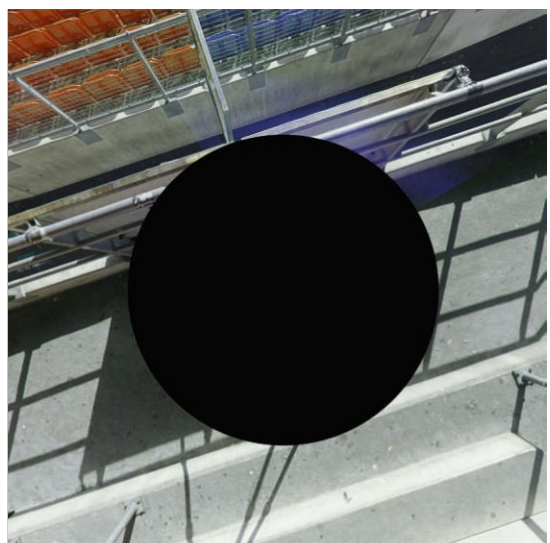
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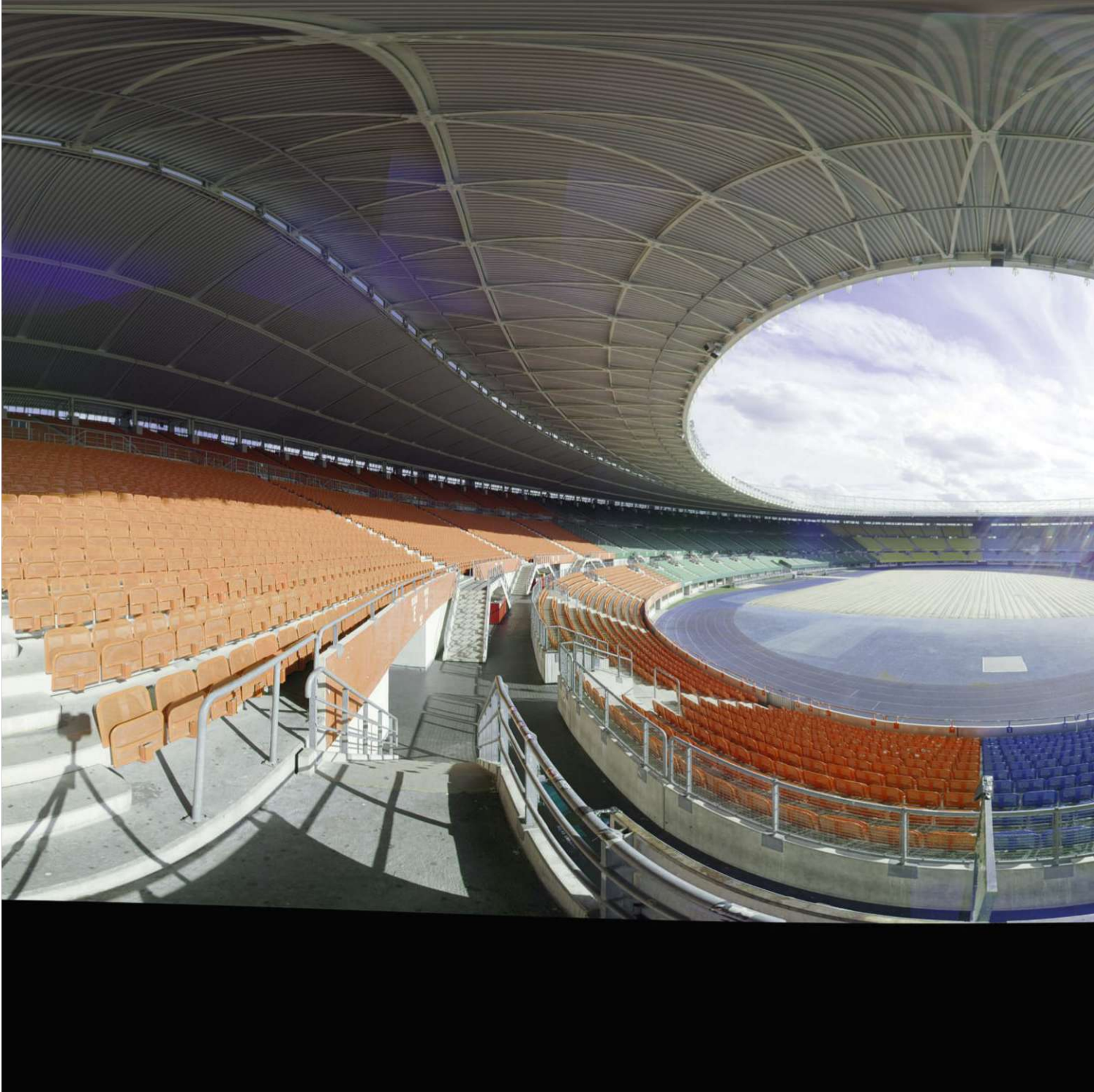


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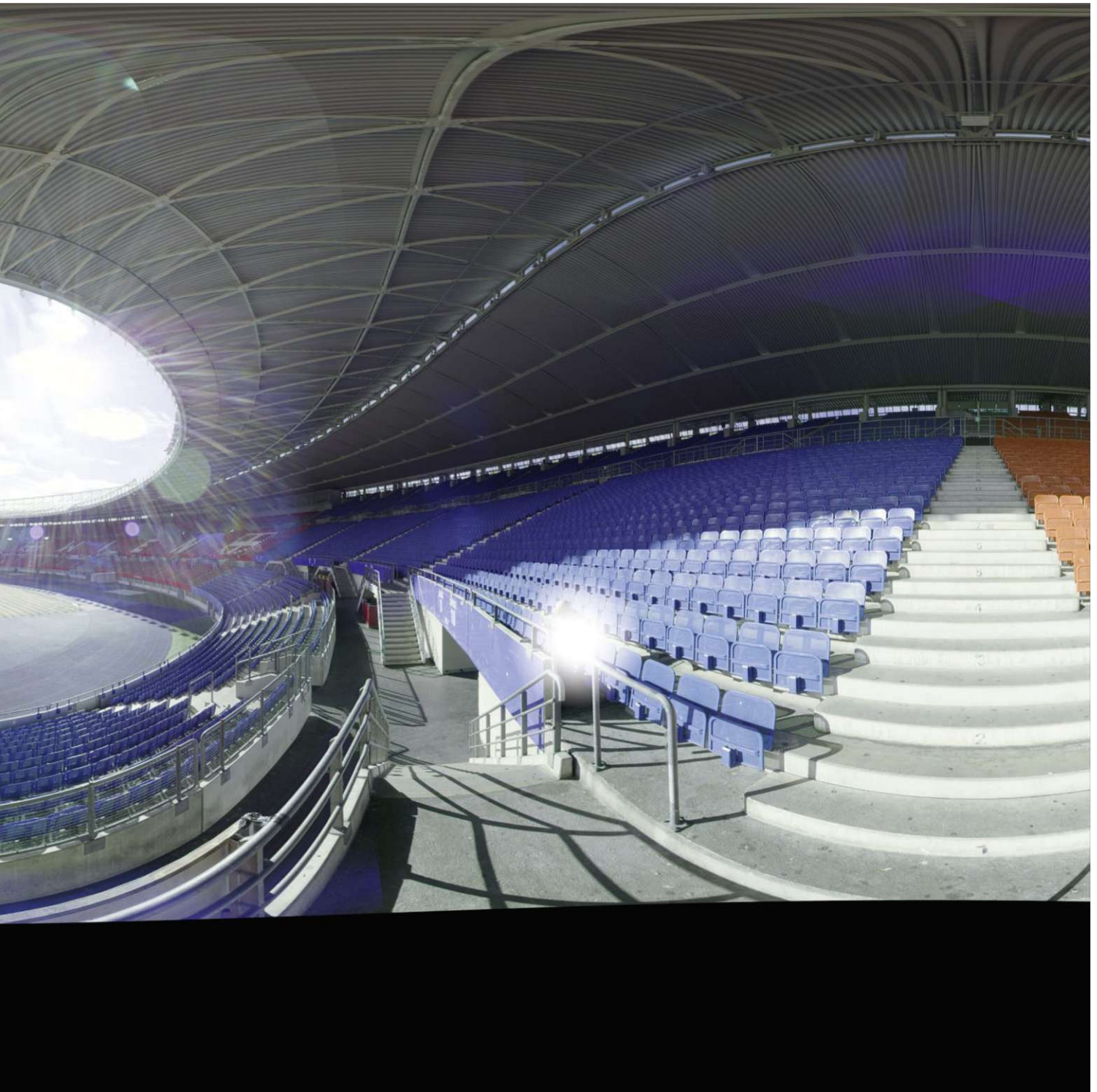
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Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

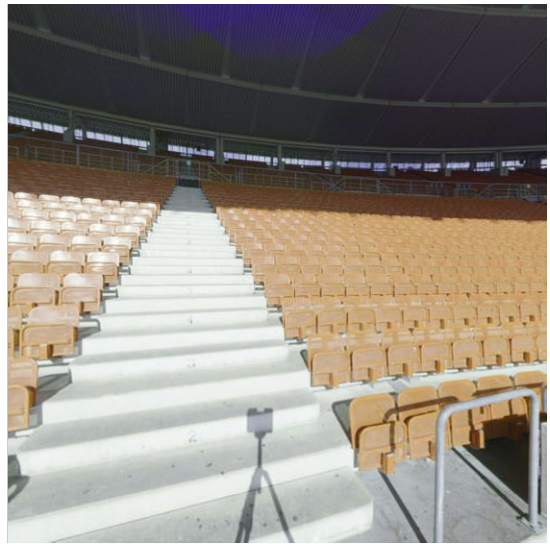
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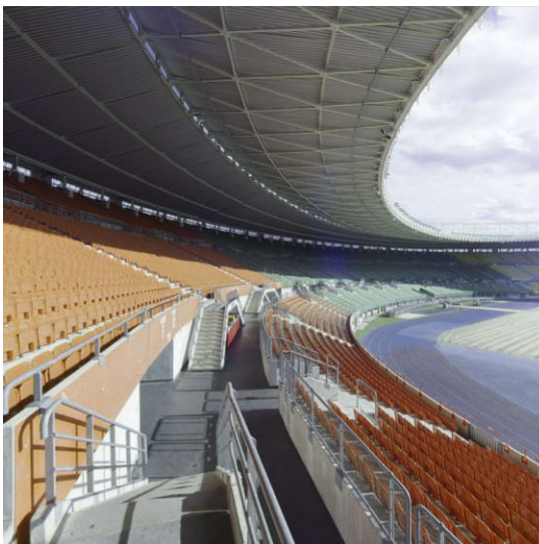
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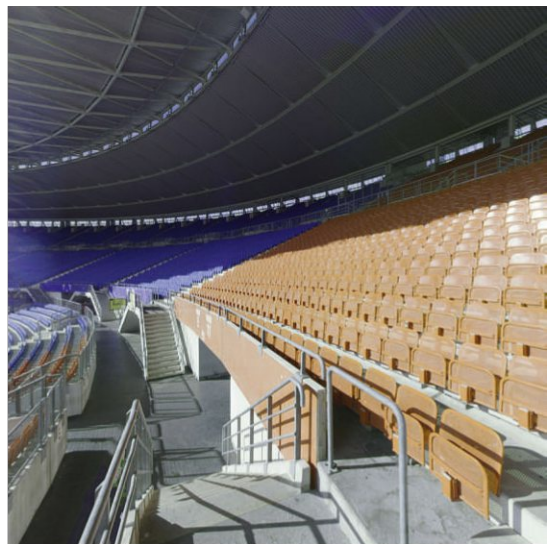
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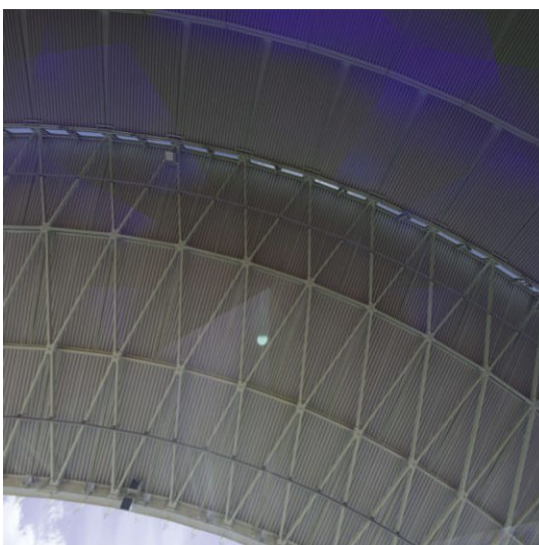
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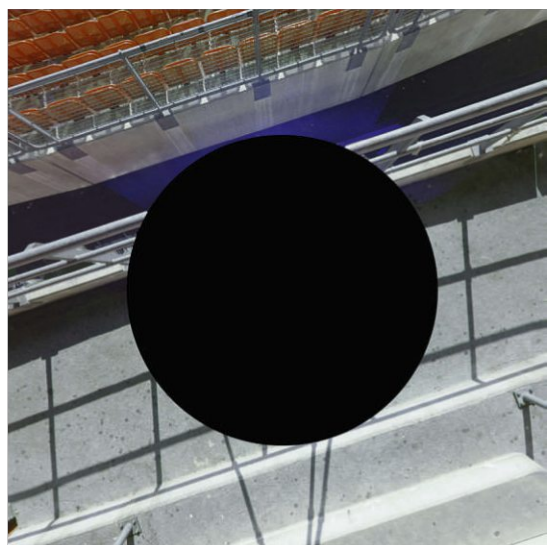
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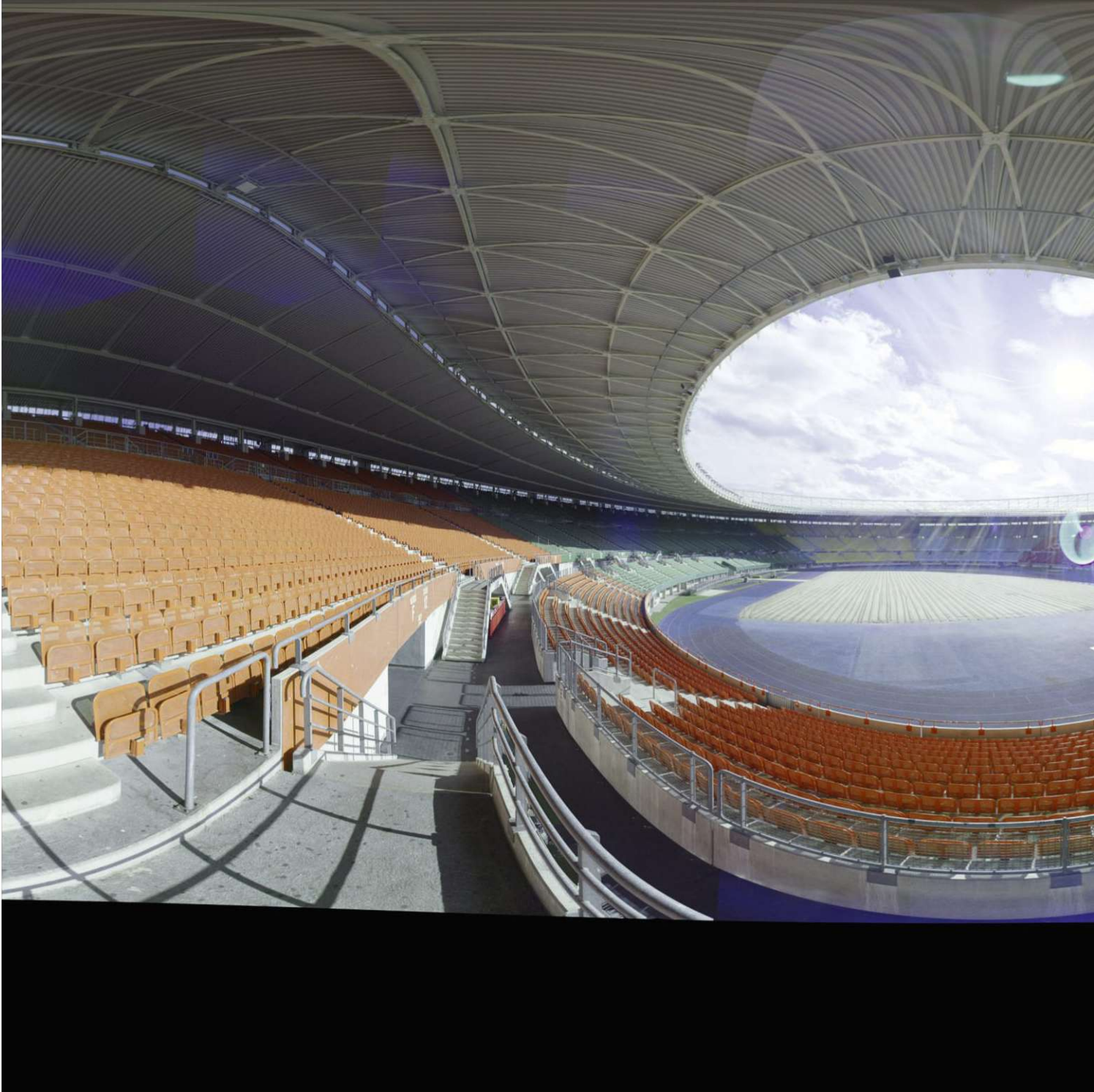


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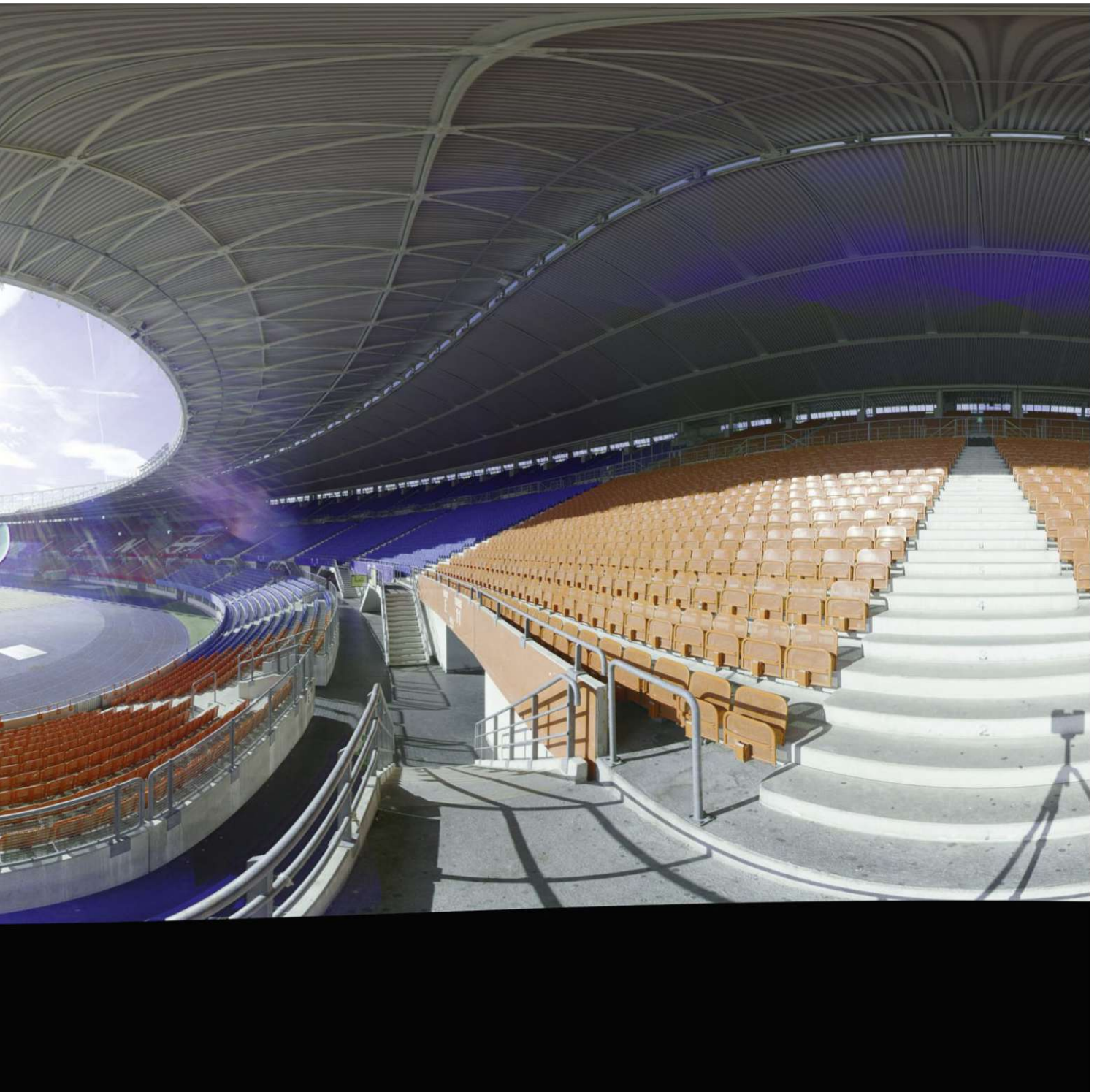
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KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

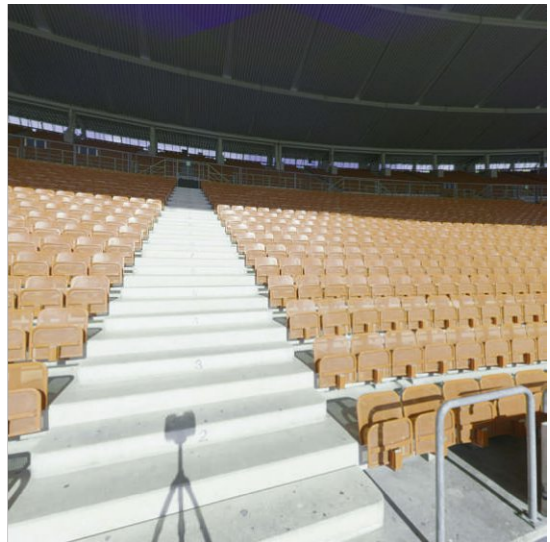
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$Y = 90441.66043$

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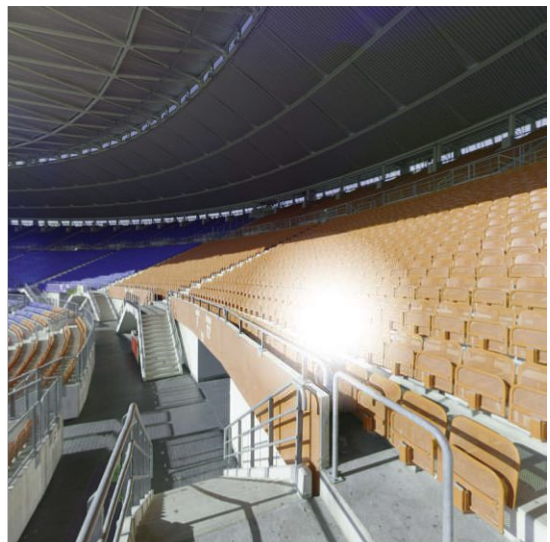
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_072_0.jpeg



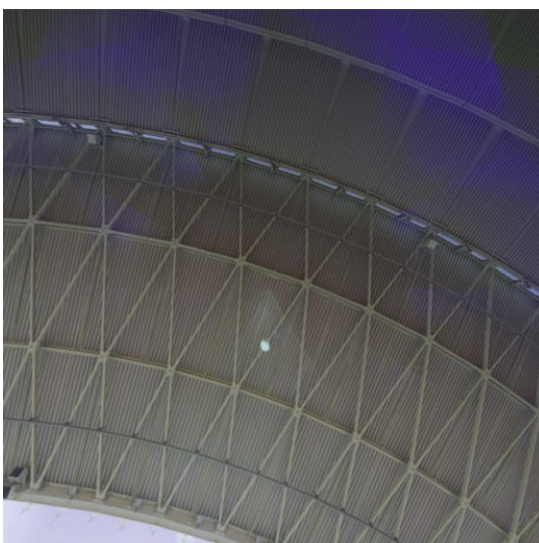
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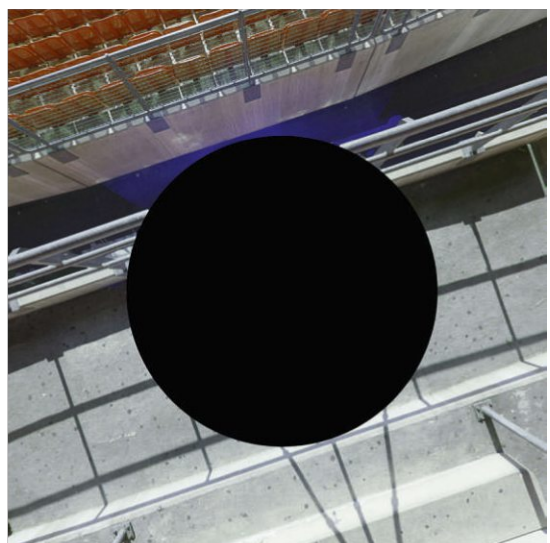
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_072_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_072_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_072_4.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_072_5.jpeg

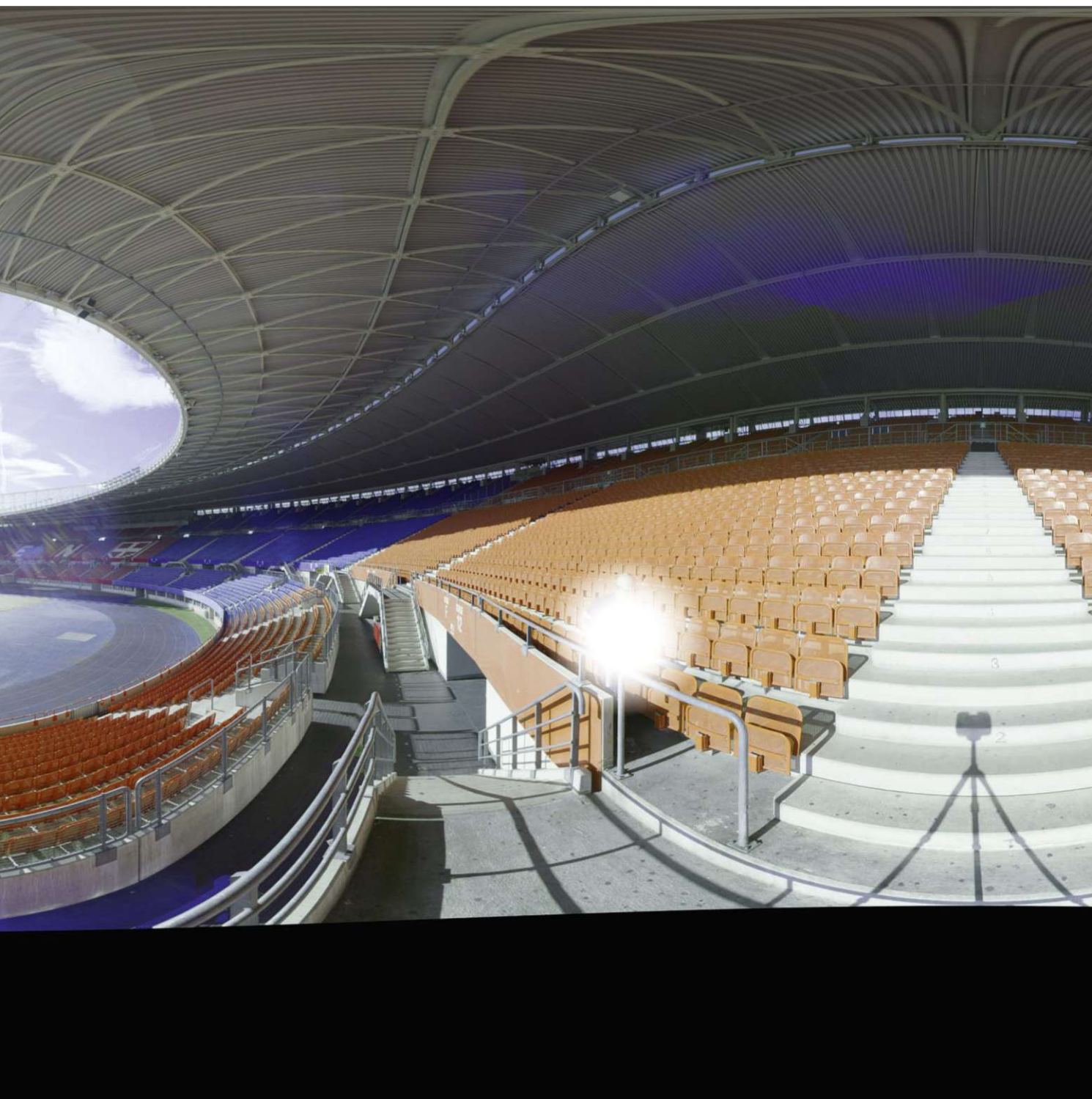
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_072.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

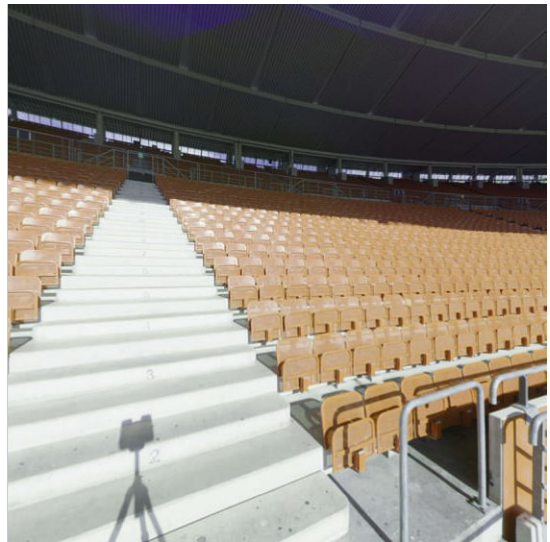
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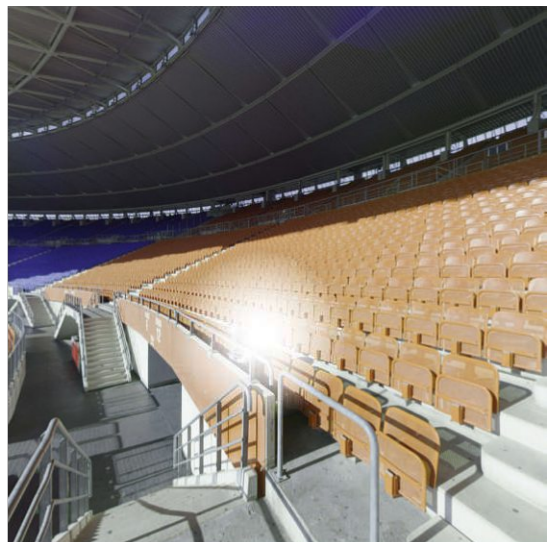
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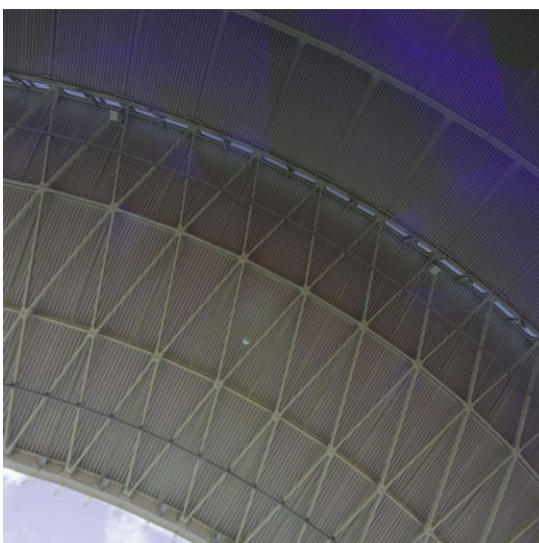
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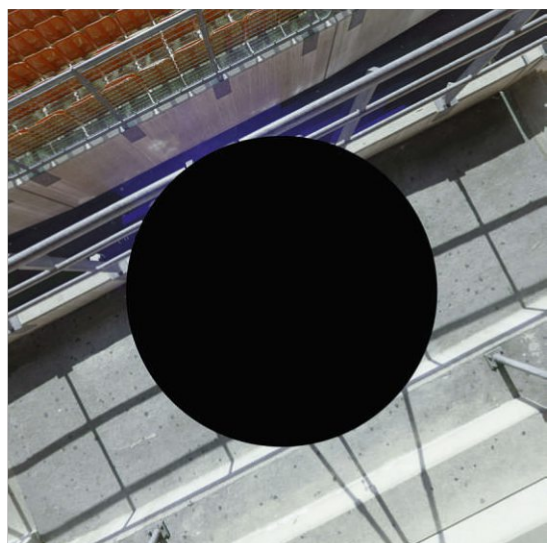
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_073_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_073_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_073_4.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_073_5.jpeg

DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_073.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

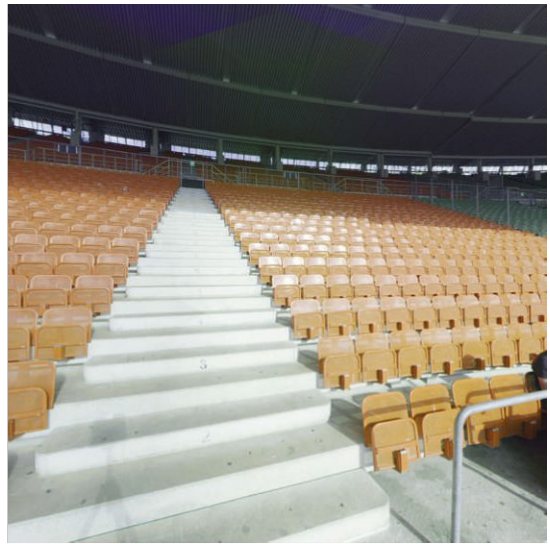
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$Z = 9663.35761$



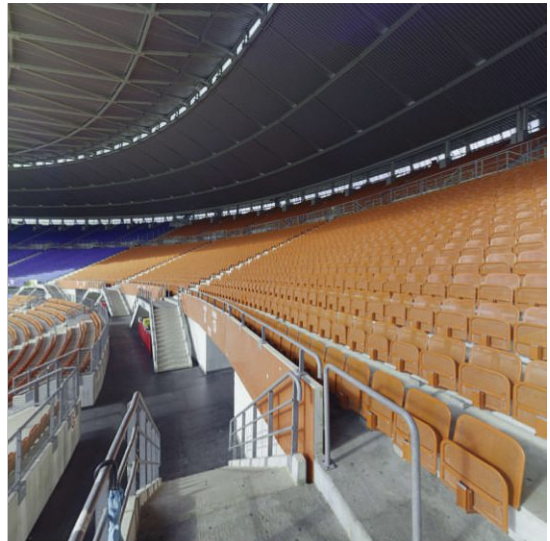
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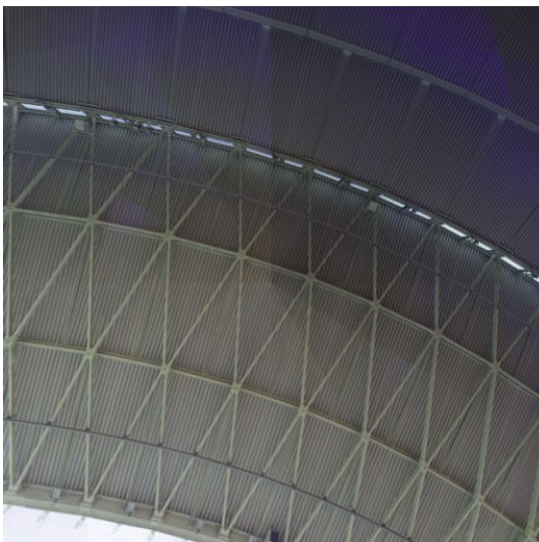
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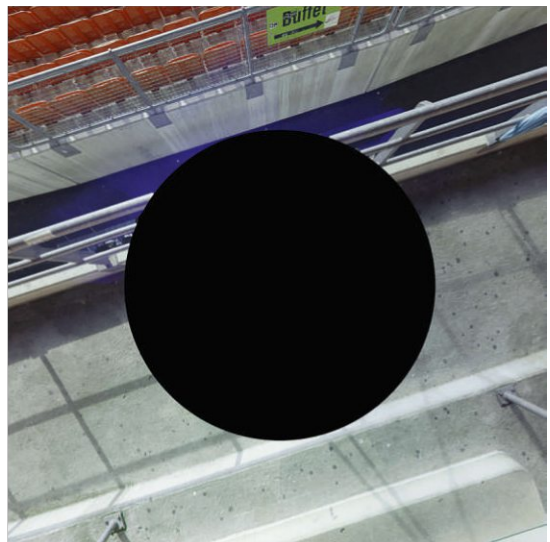
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X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_074_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_074_4.jpeg

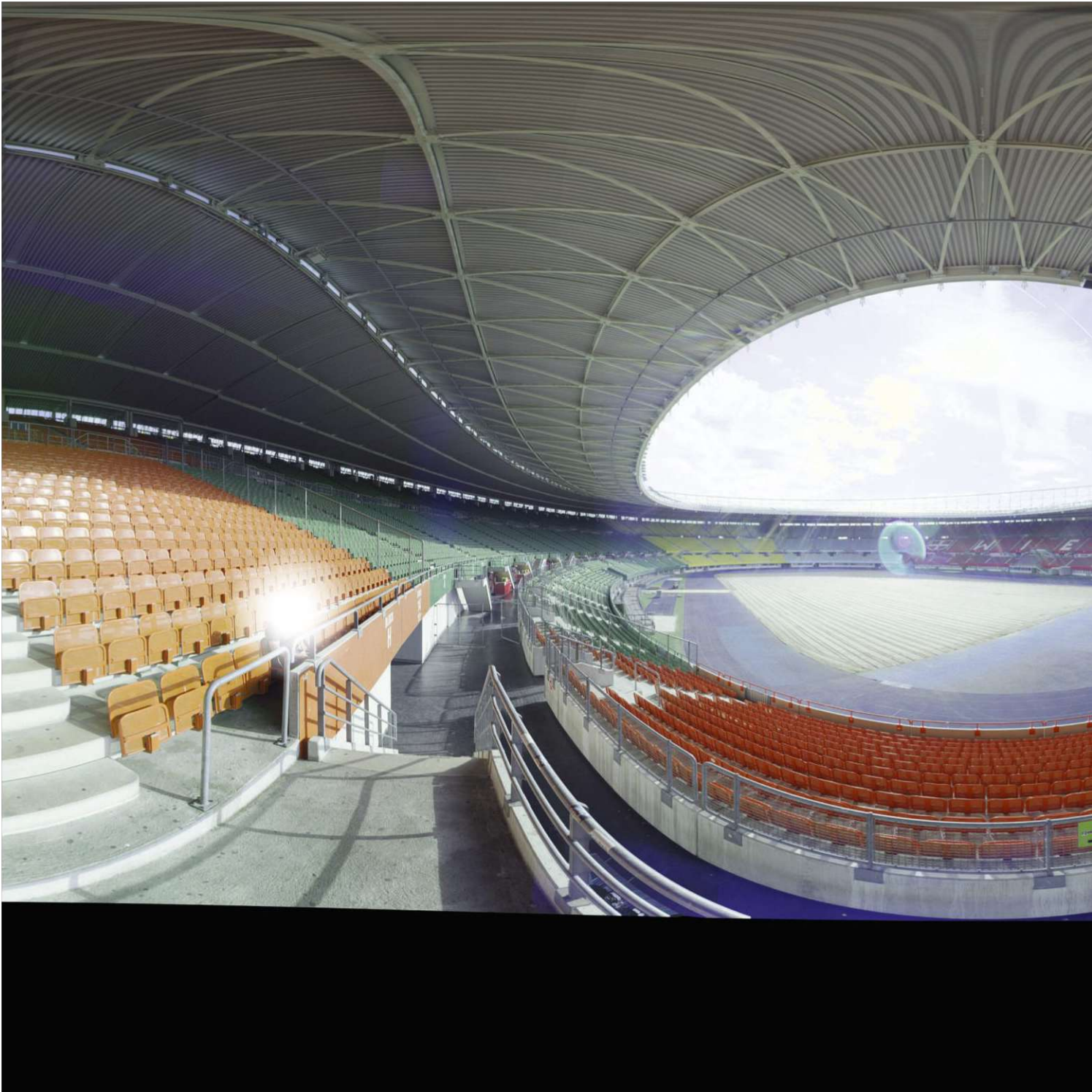


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_074_5.jpeg

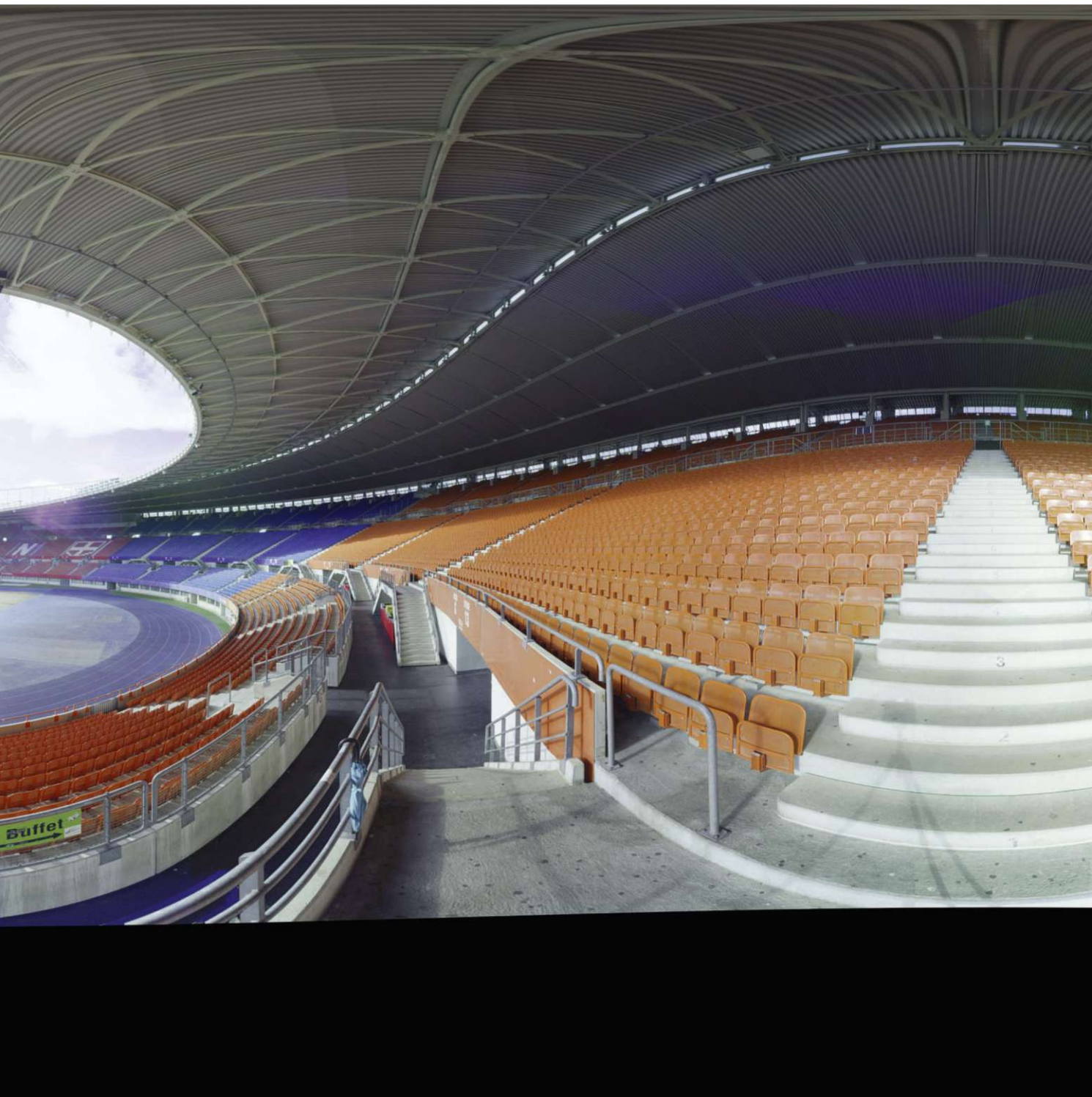
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_074.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

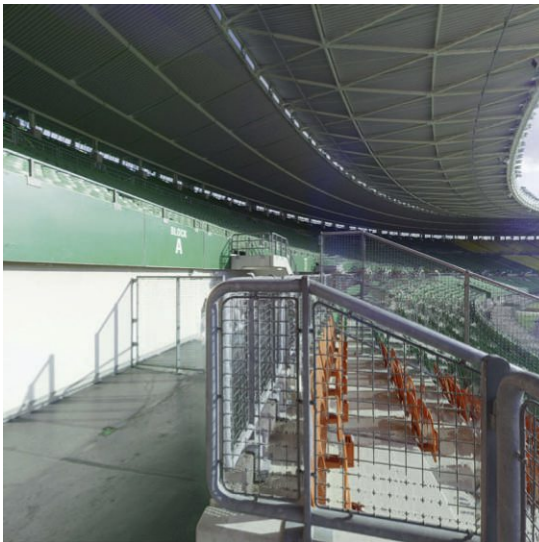
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

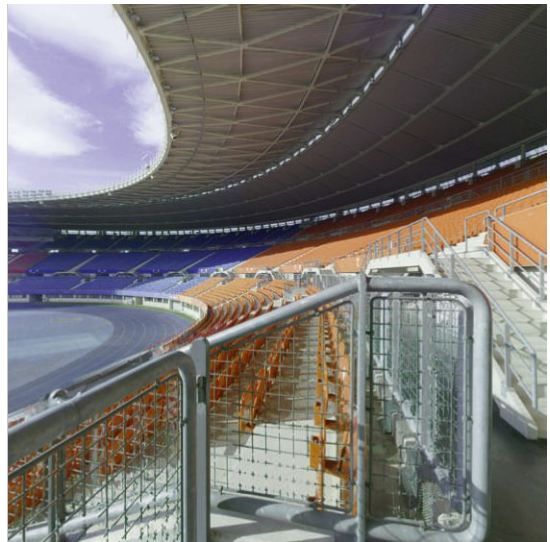
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$Y = 109117.28478$

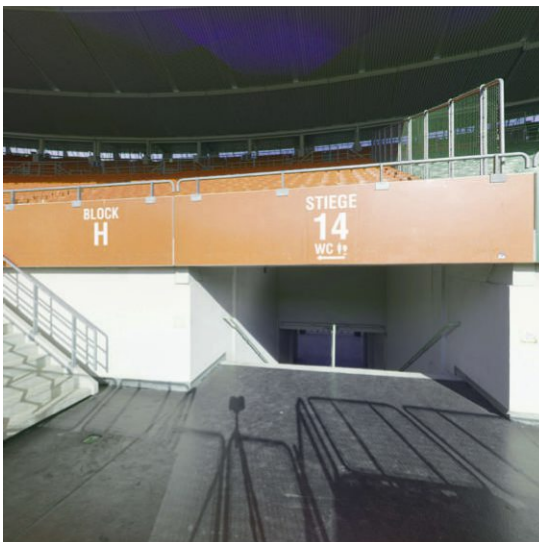
$Z = 7205.15094$



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_075_0.jpeg



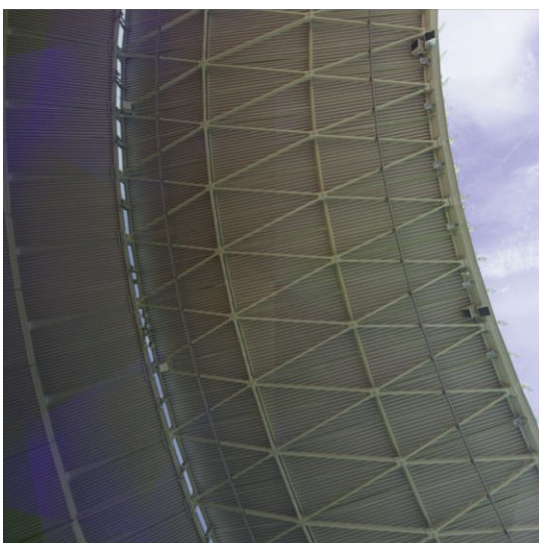
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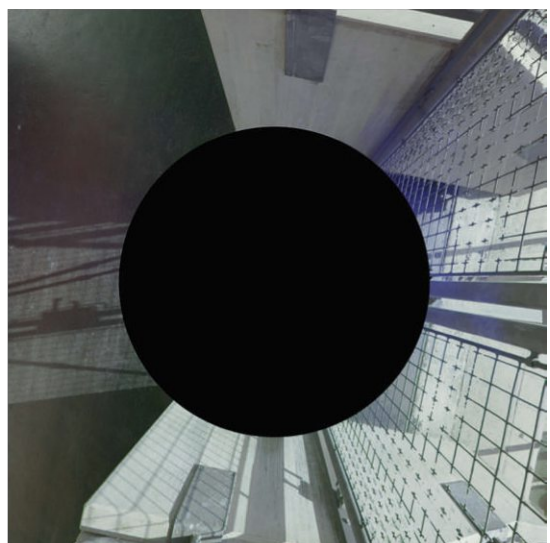
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_075_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_075_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_075_4.jpeg

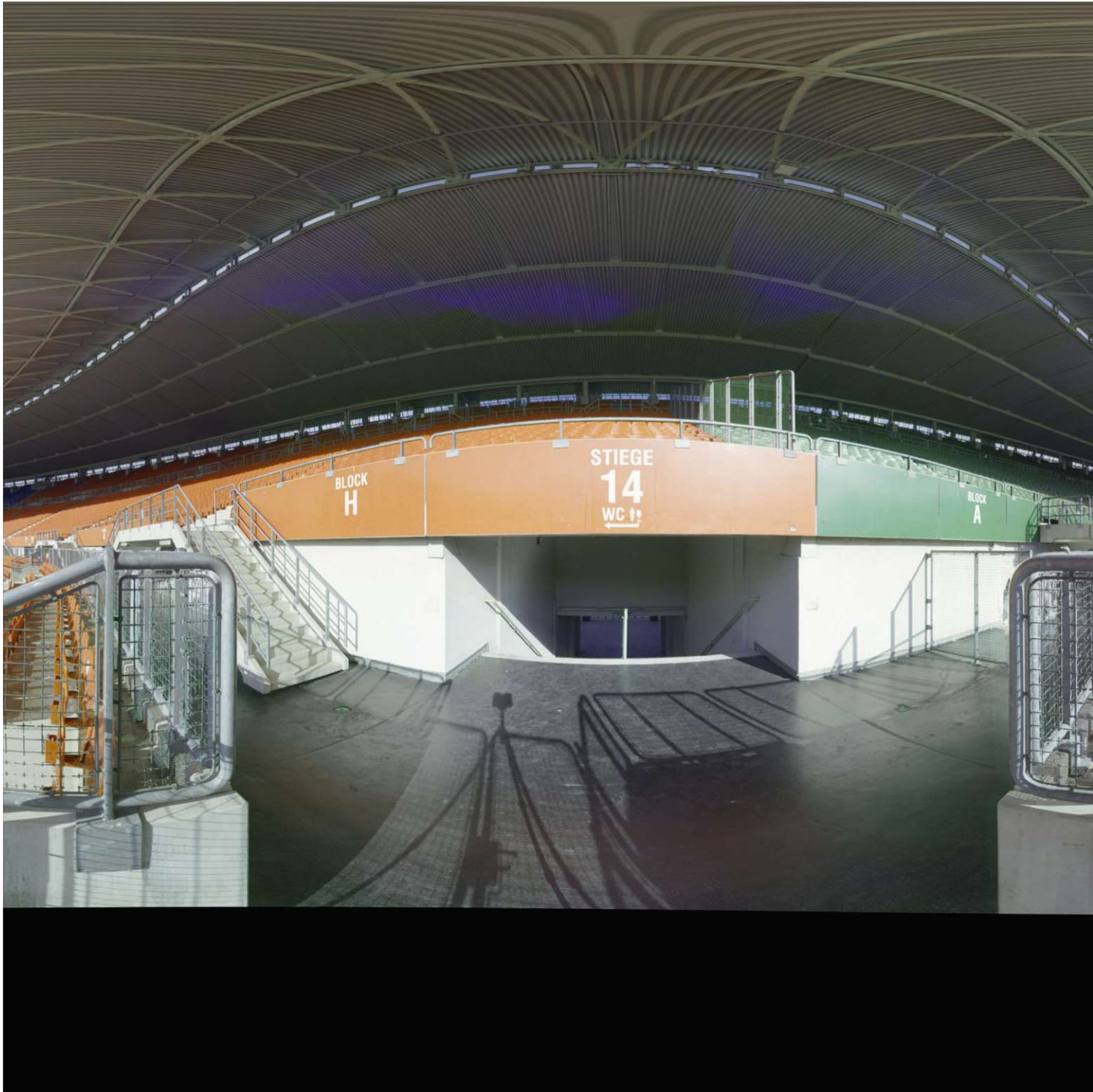


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_075_5.jpeg

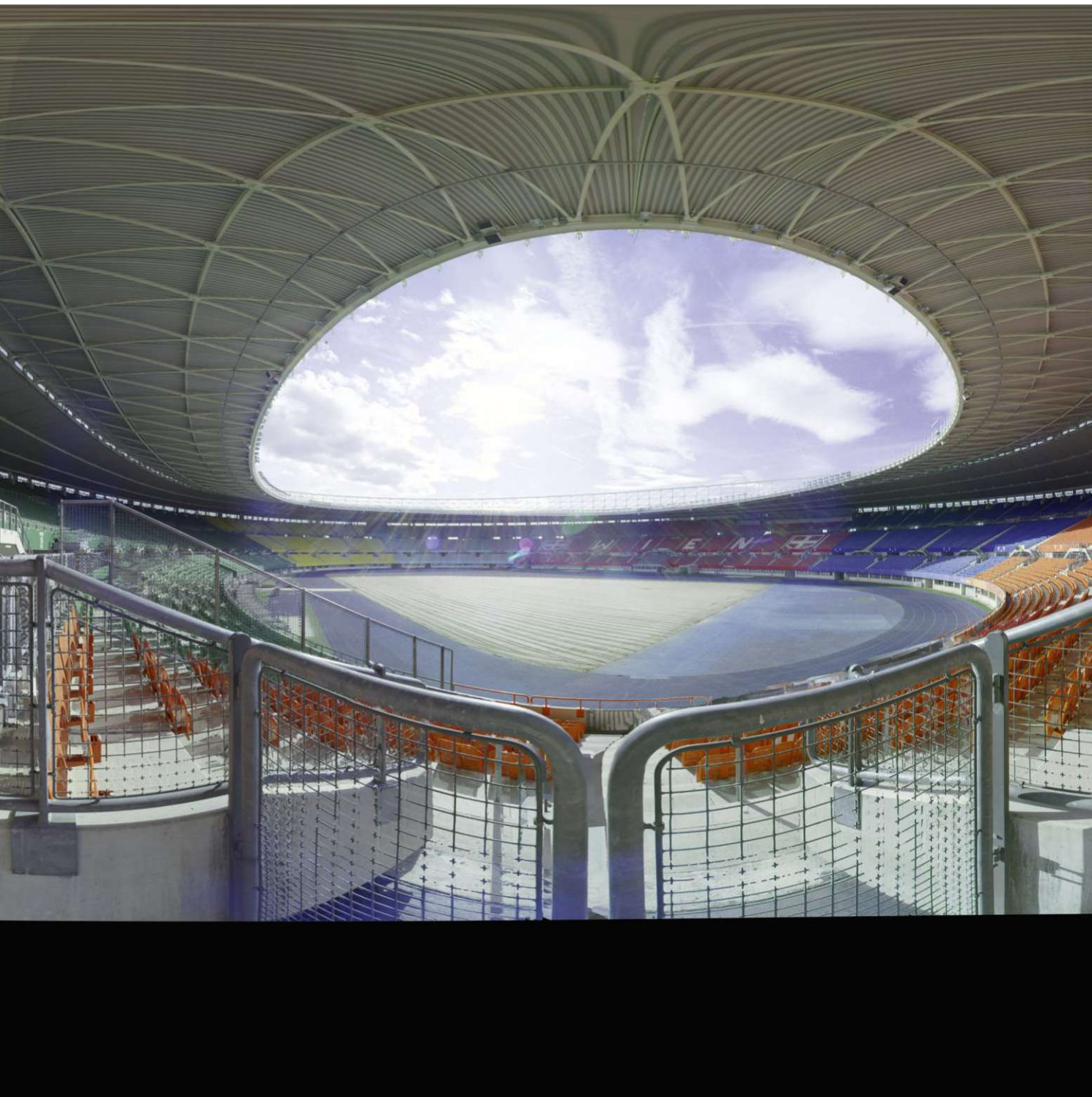
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_075.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

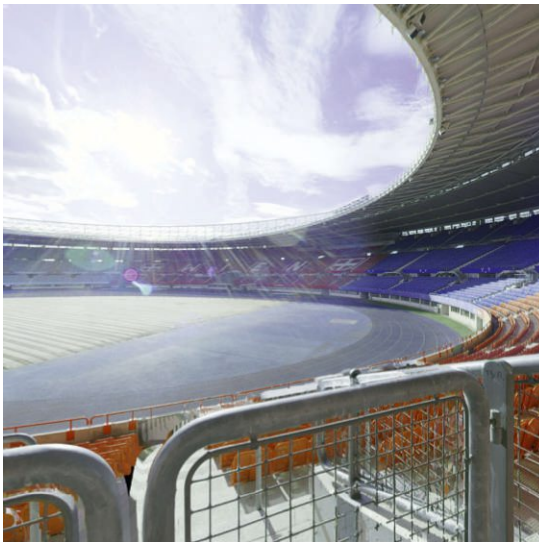
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

X = -245987.34106

Y = 96221.14025

Z = 7200.79421



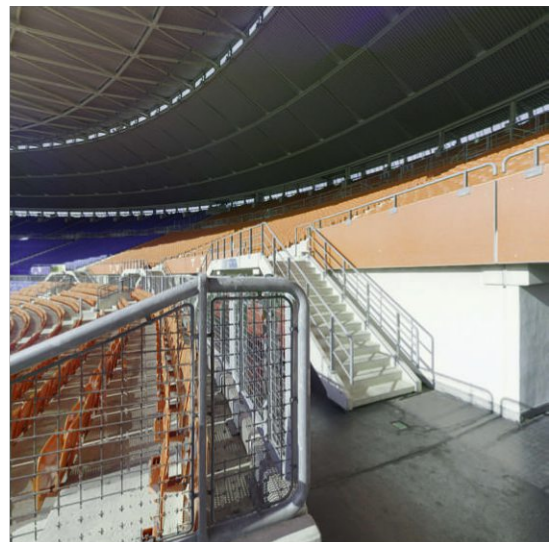
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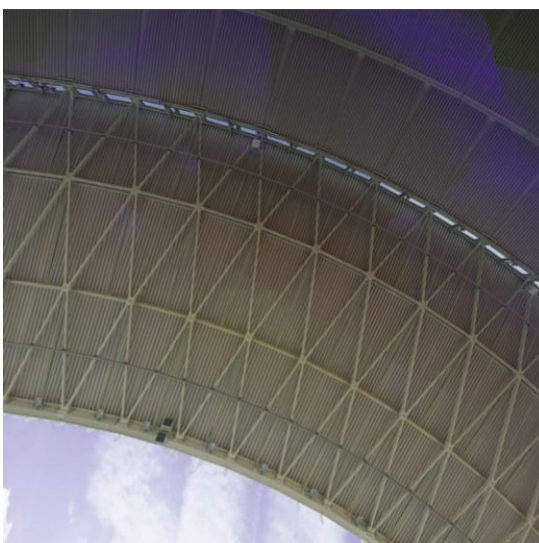
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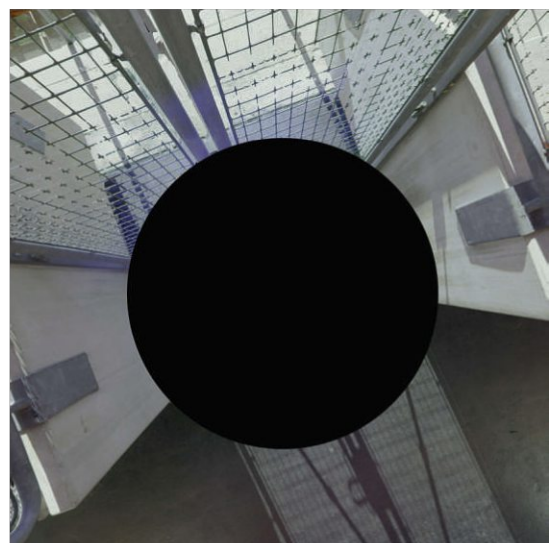
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_076_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_076_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_076_4.jpeg

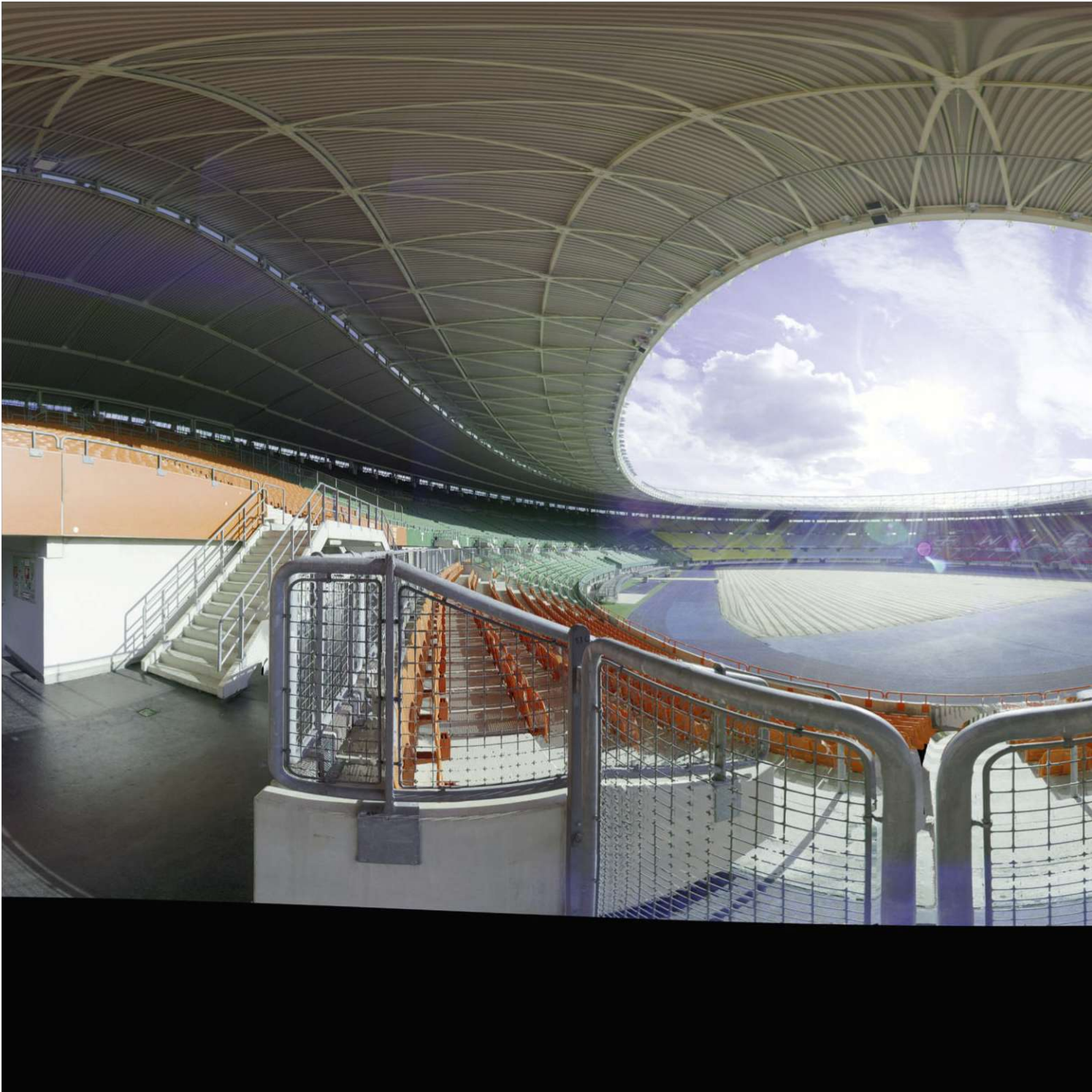


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_076_5.jpeg

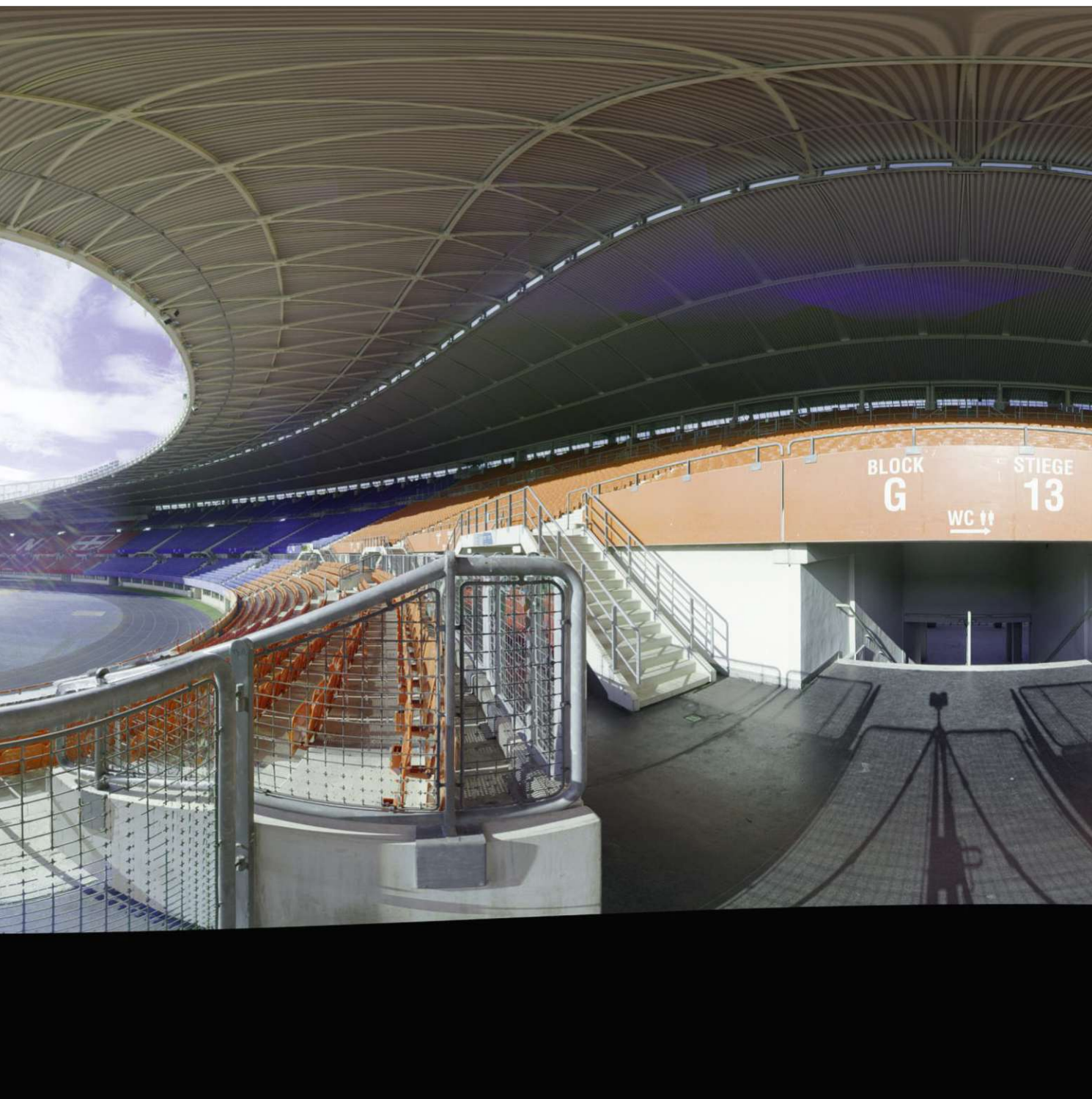
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_076.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

$X = -255667.42163$

$Y = 81016.25318$

$Z = 7203.82158$



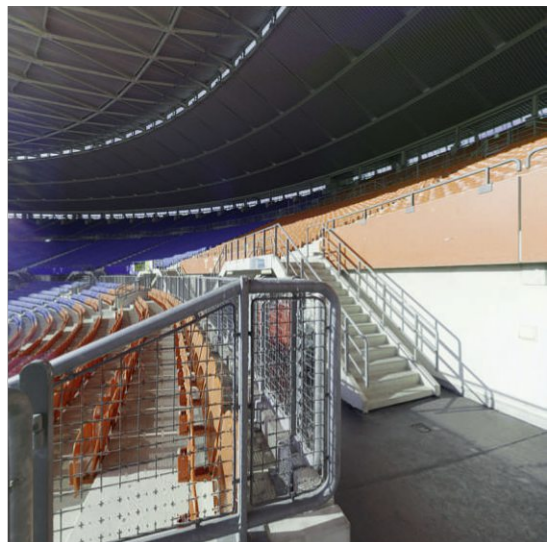
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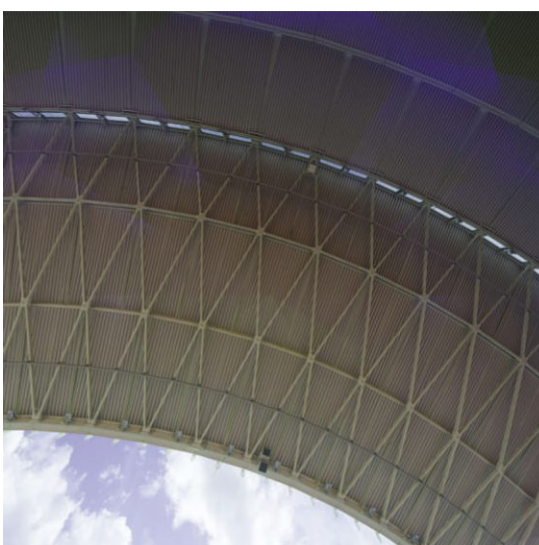
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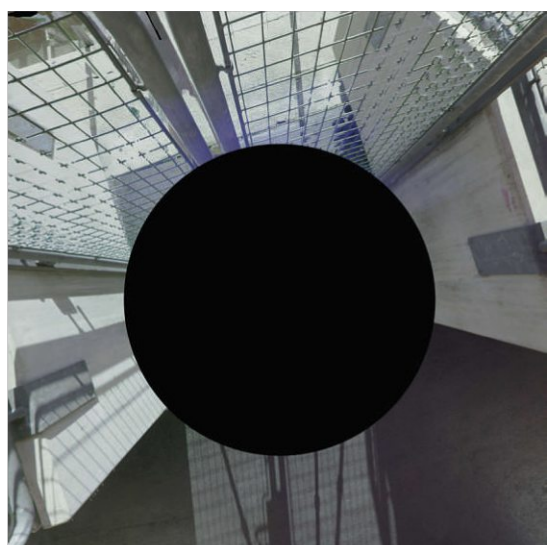
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X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_077_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_077_4.jpeg

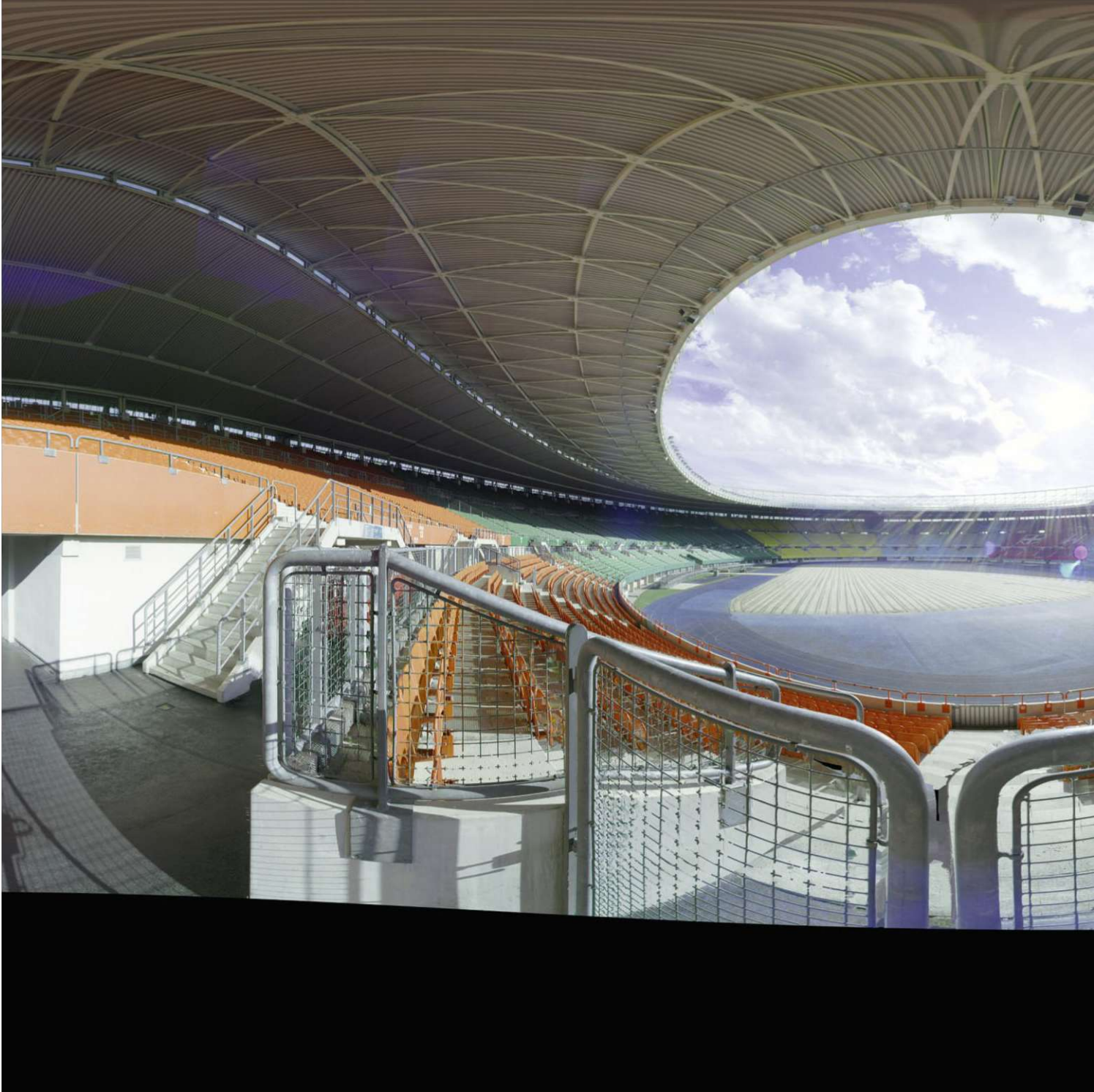


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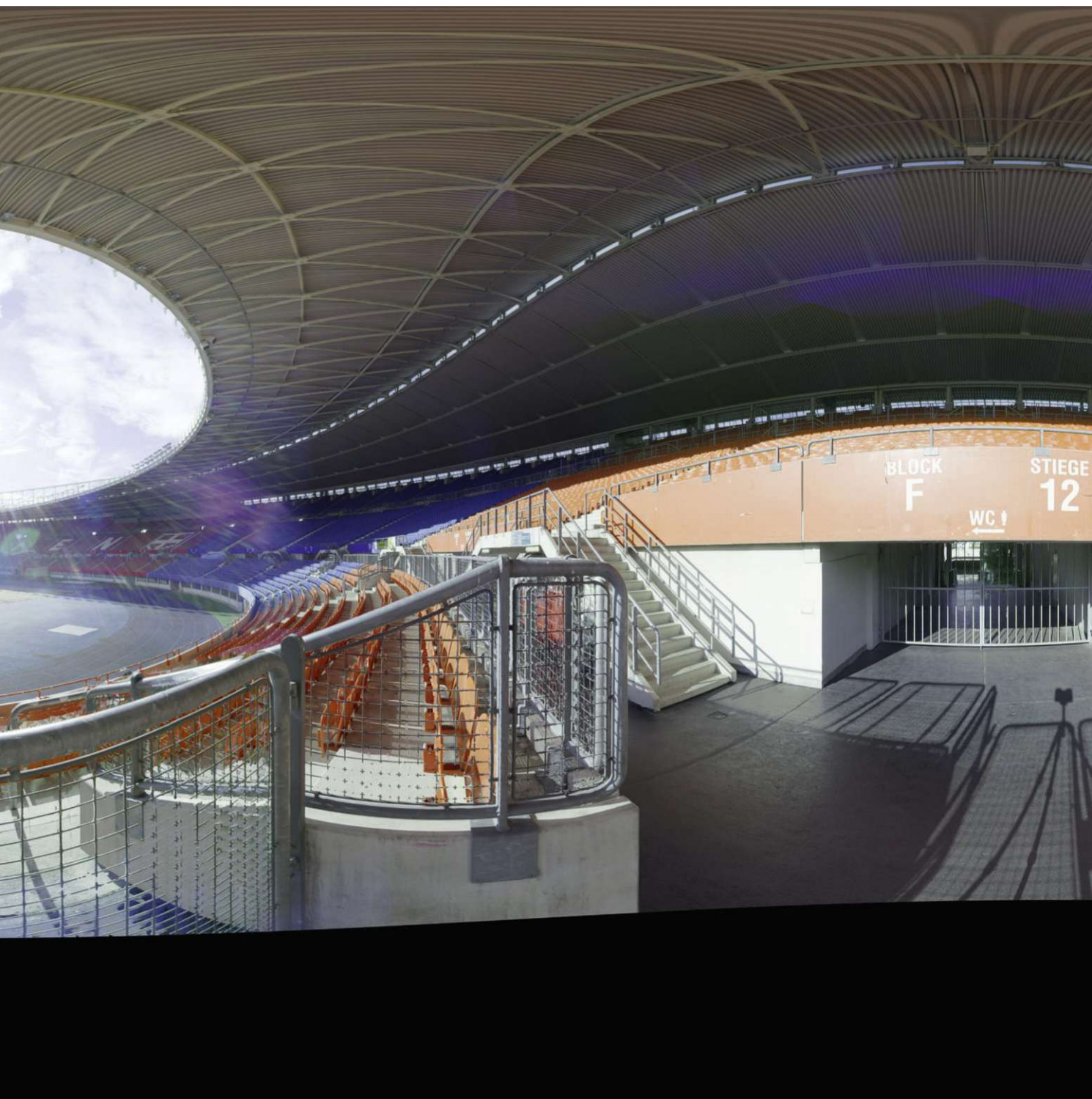
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_077.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

X = -260644.63009

Y = 63671.52452

Z = 7214.07544



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_078_0.jpeg



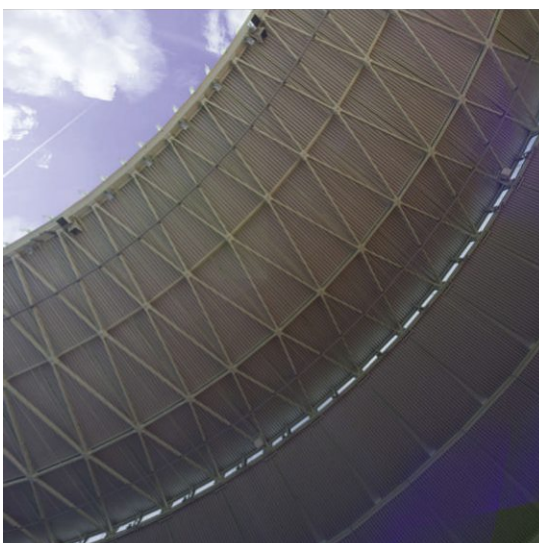
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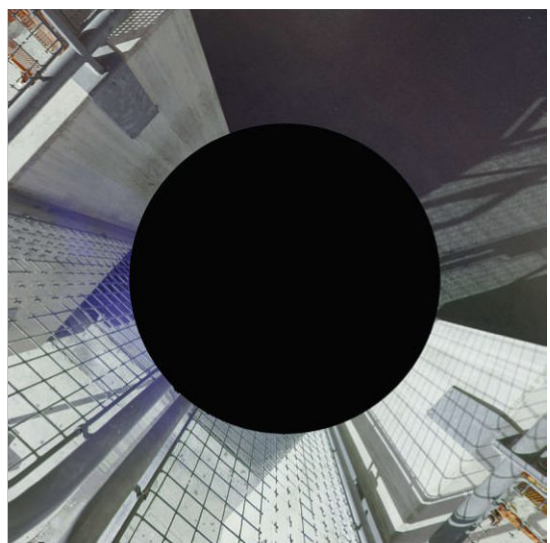
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X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_078_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_078_4.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_078_5.jpeg

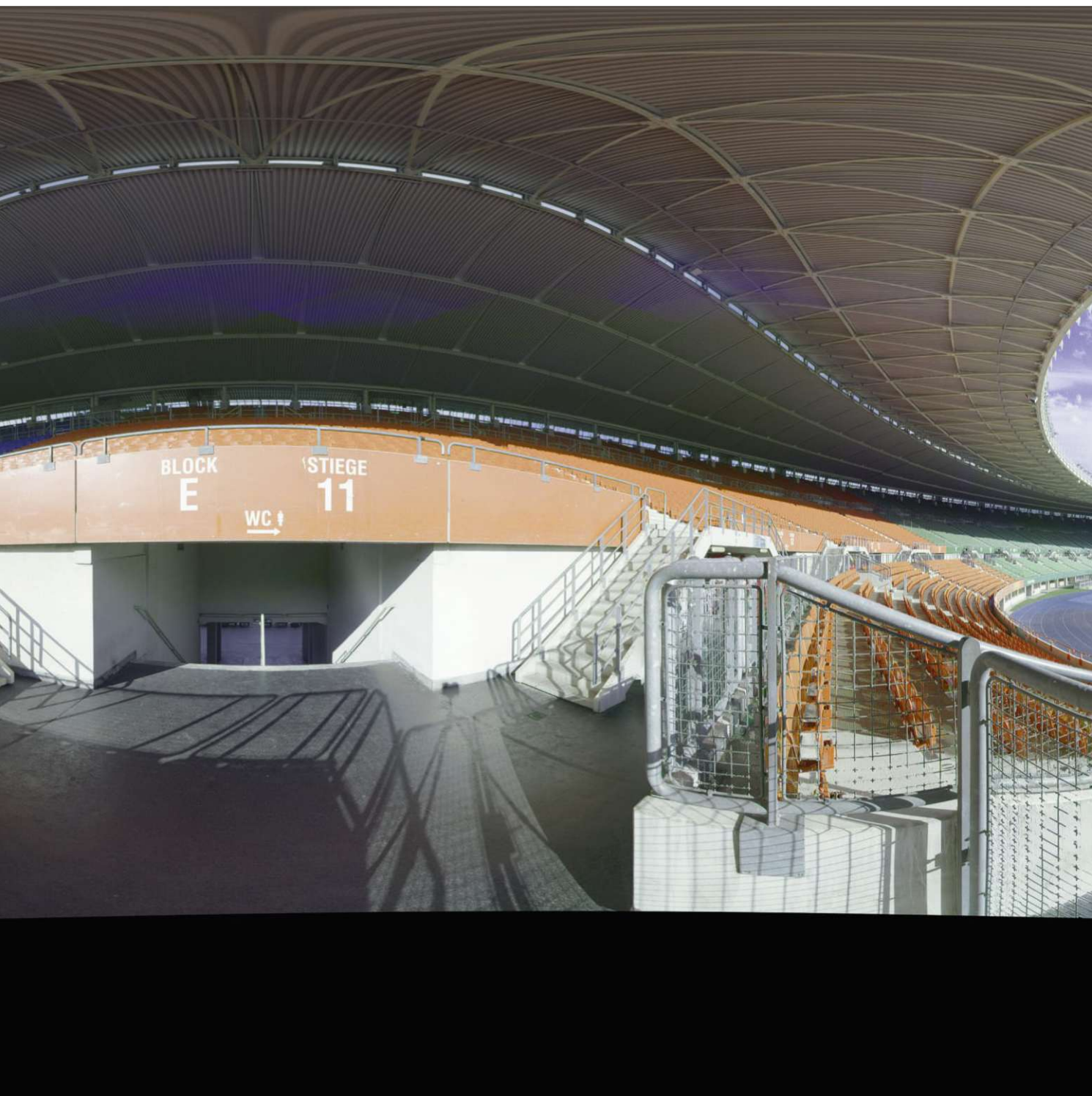
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_078.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

X = -260344.98393

Y = 45637.44709

Z = 7198.35981



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_079_0.jpeg



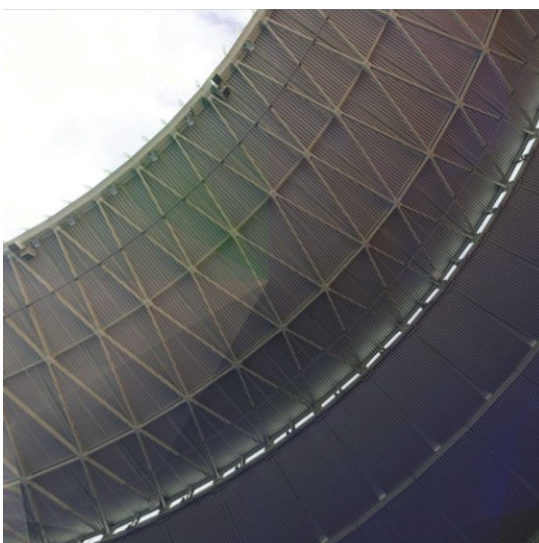
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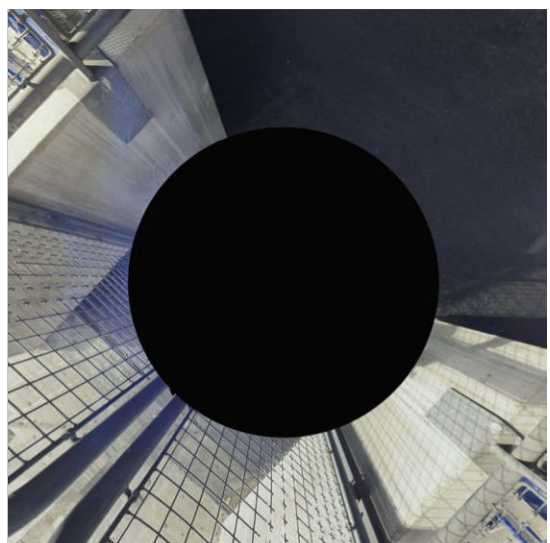
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_079_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_079_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_079_4.jpeg

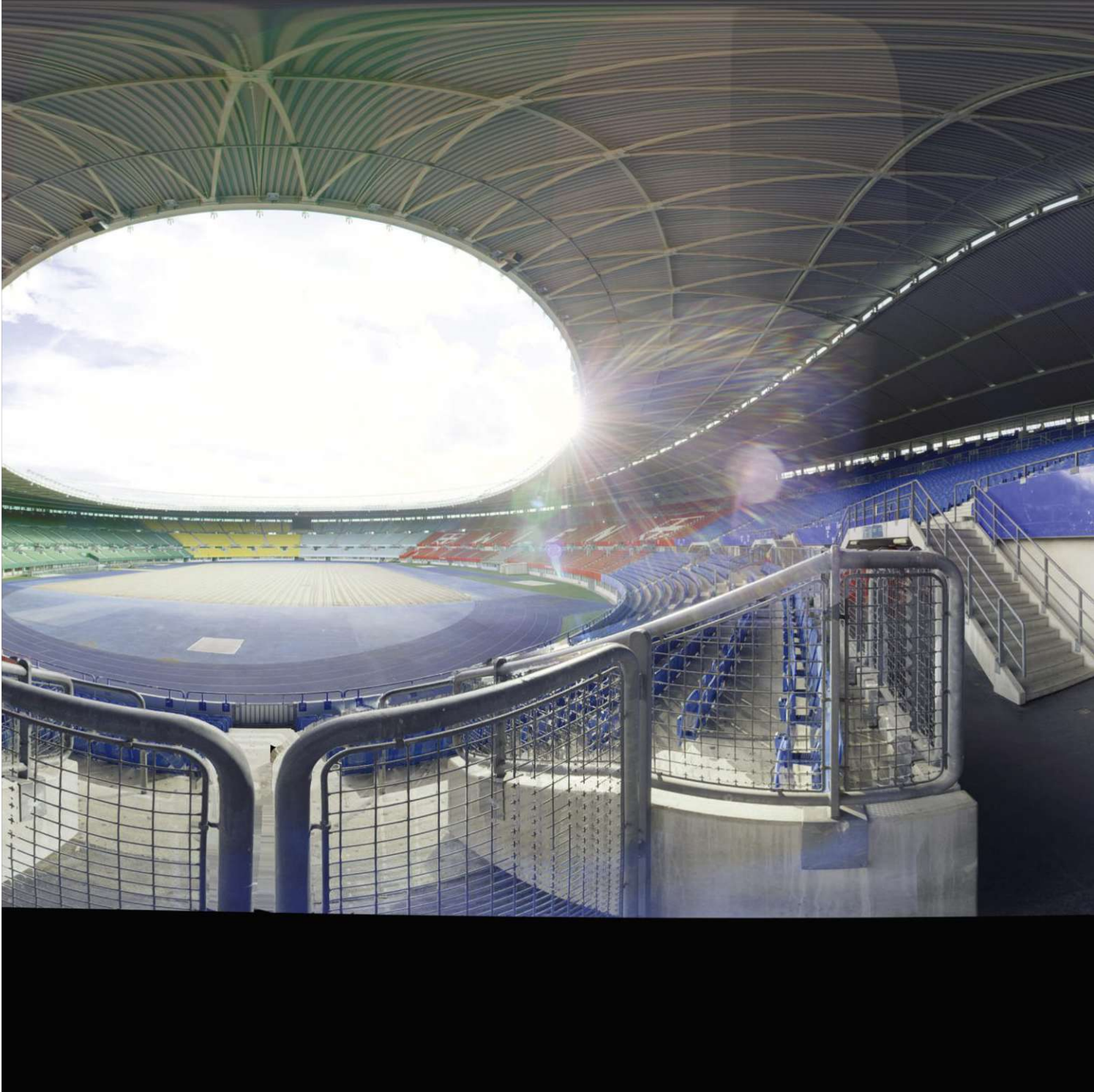


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_079_5.jpeg

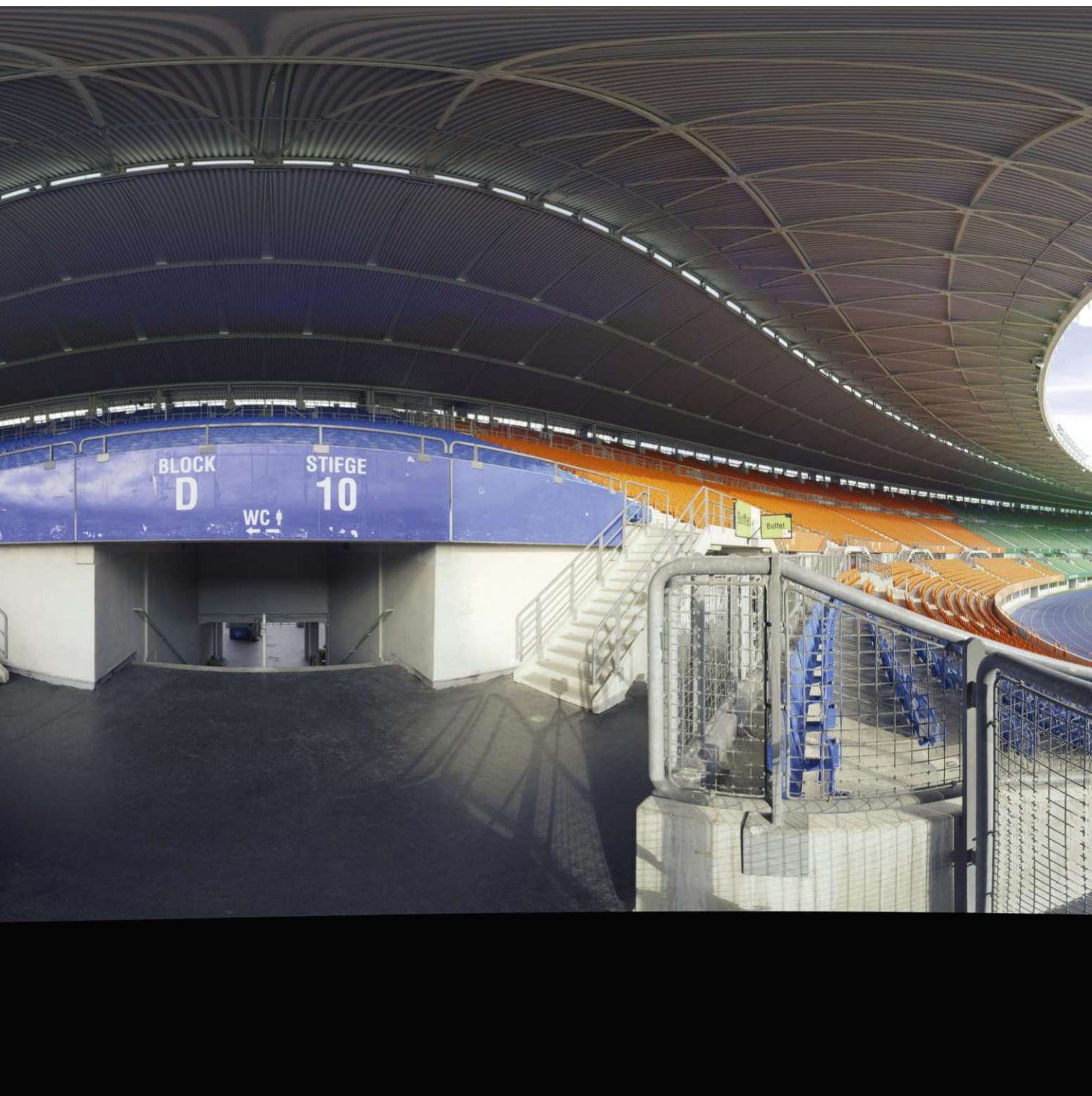
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_079.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

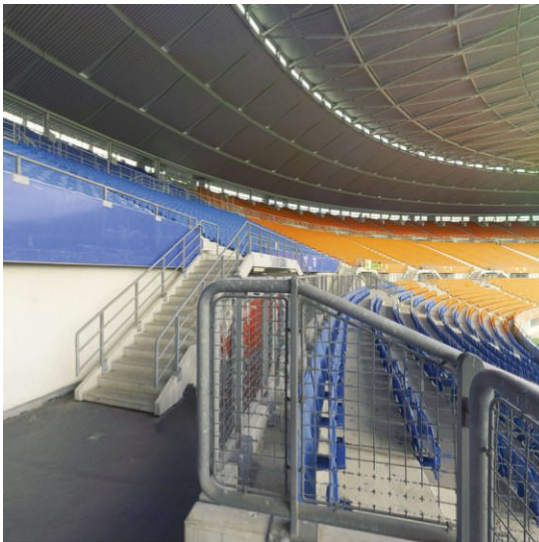
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

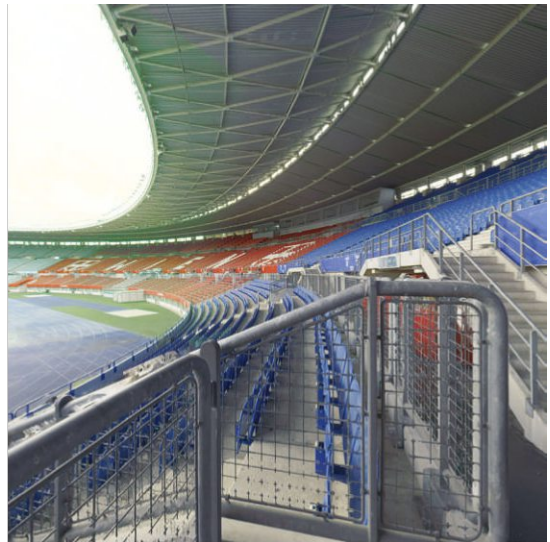
X = -254718.05244

Y = 28443.78689

Z = 7204.37957



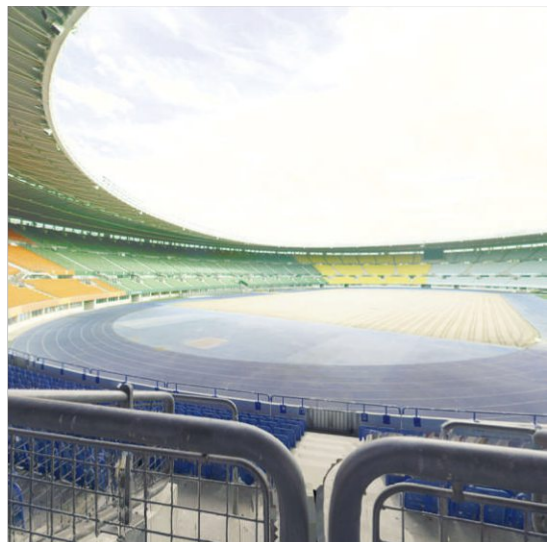
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_080_0.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_080_1.jpeg



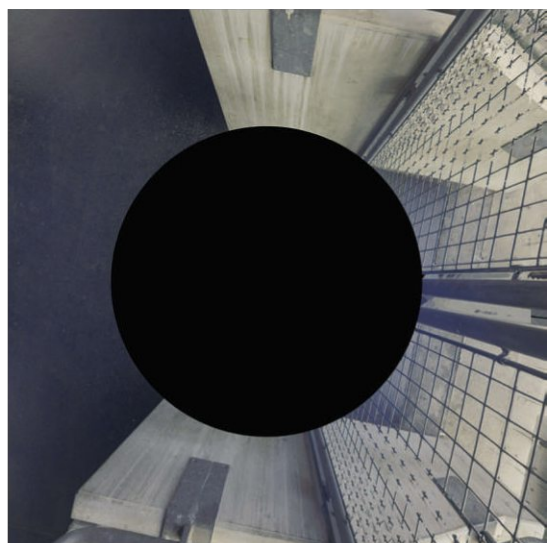
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_080_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_080_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_080_4.jpeg

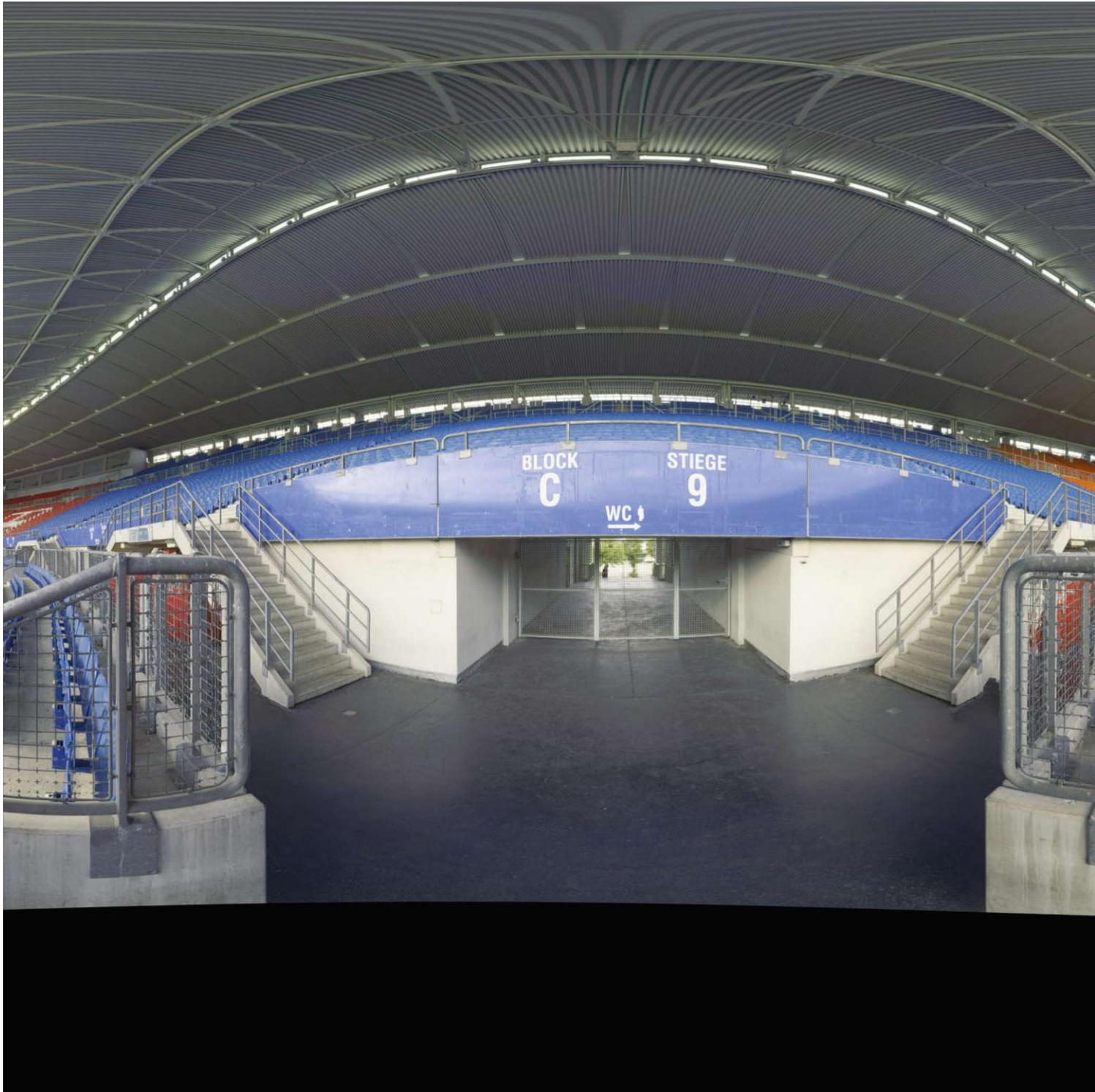


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_080_5.jpeg

DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_080.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

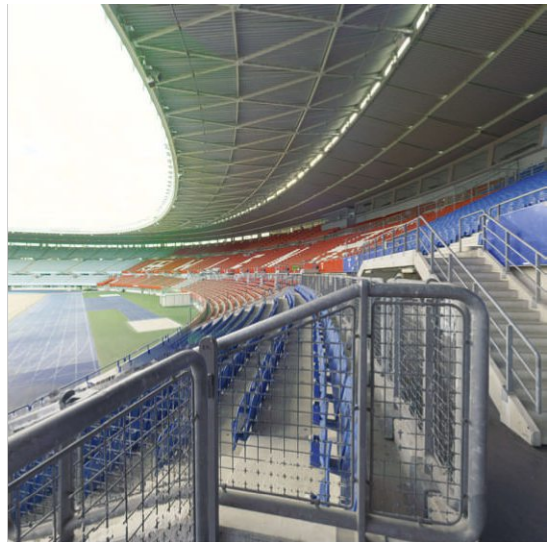
X = -244466.3585

Y = 13691.49771

Z = 7221.95878



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_081_0.jpeg



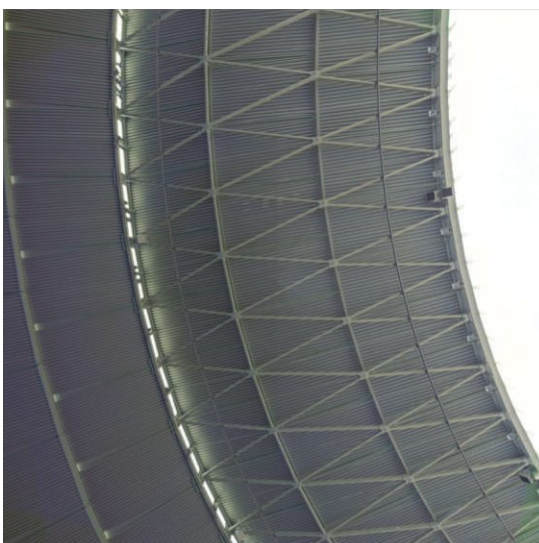
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_081_1.jpeg



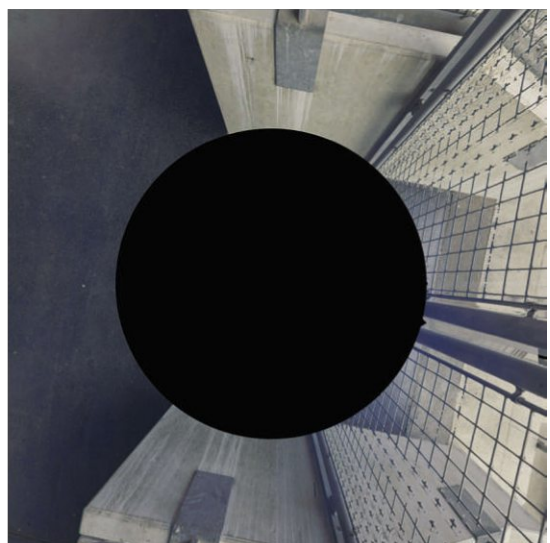
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_081_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_081_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_081_4.jpeg

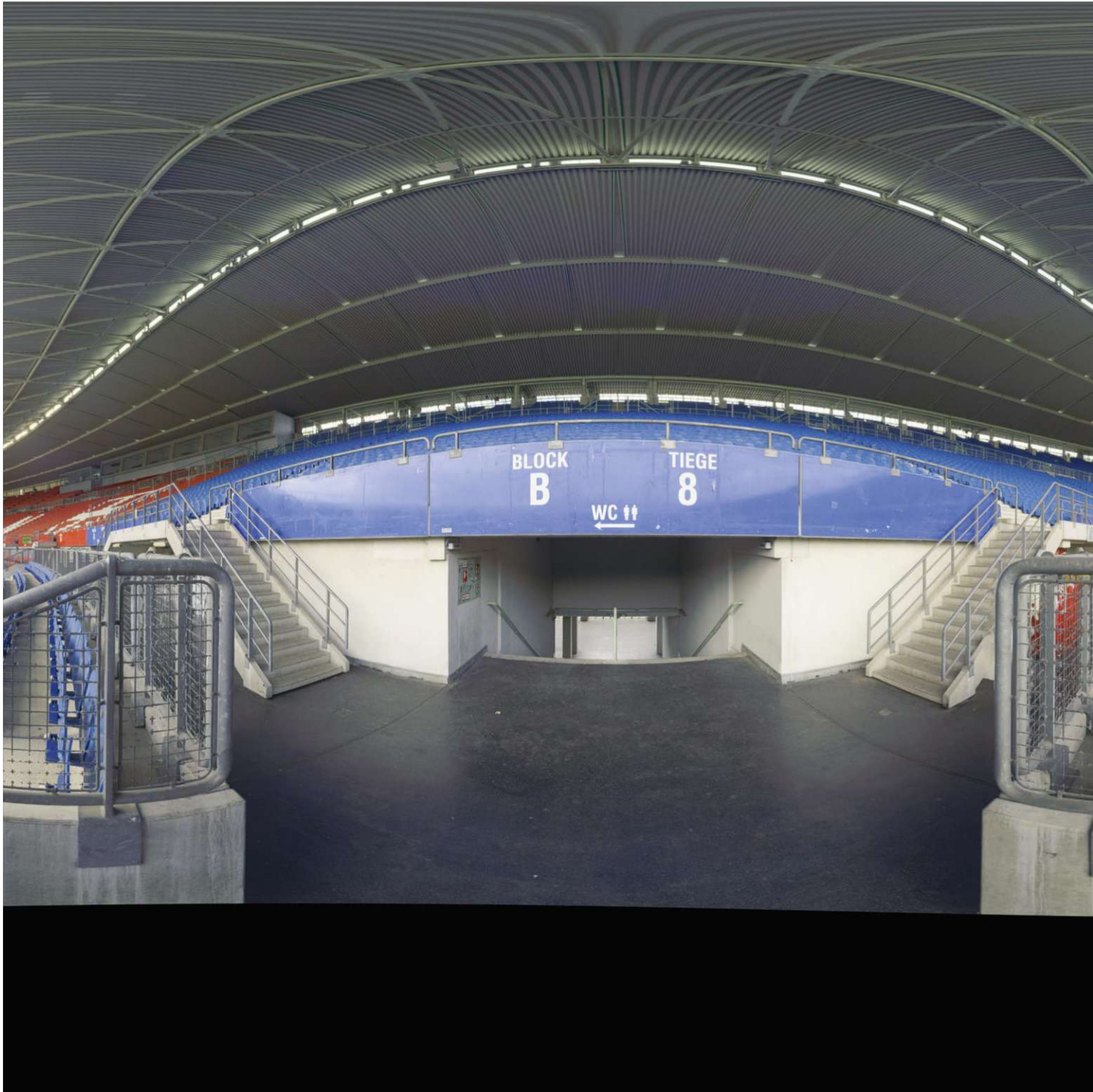


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_081_5.jpeg

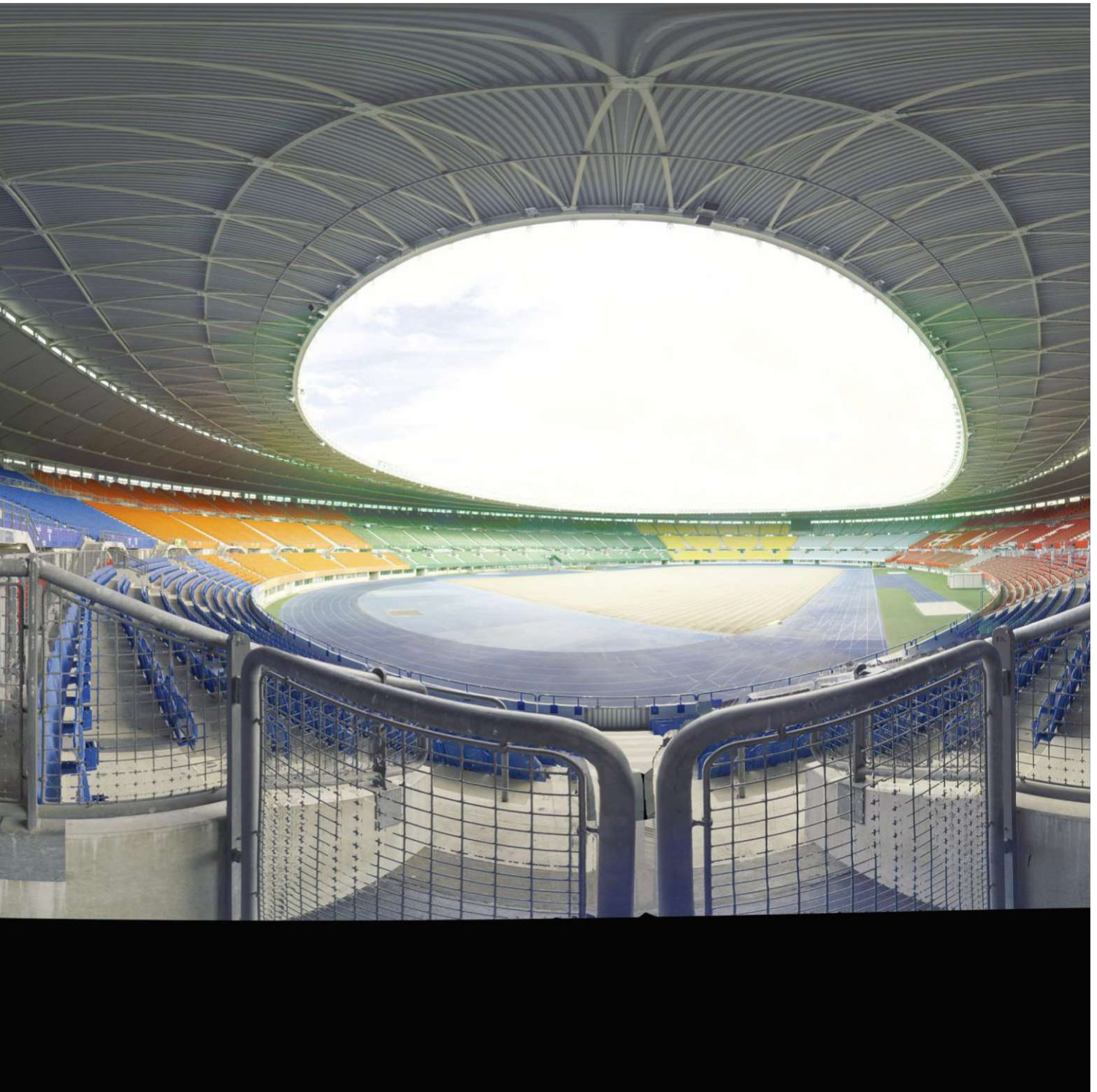
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_081.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

$X = -229352.70918$

$Y = -773.18385$

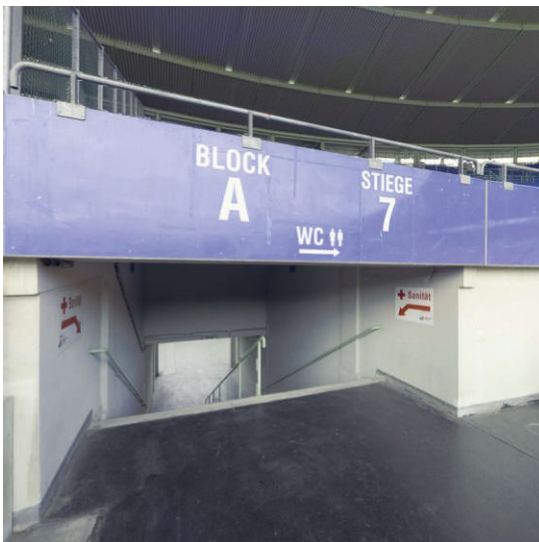
$Z = 7227.4311$



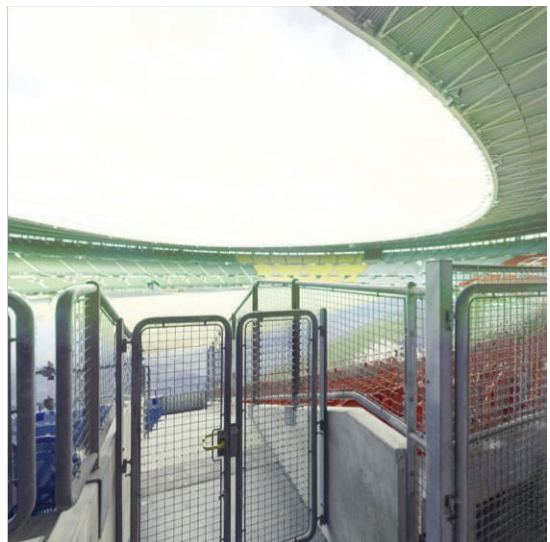
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_082_0.jpeg



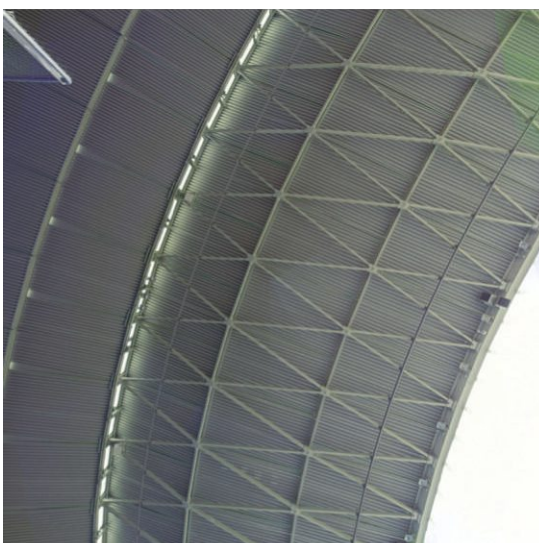
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_082_1.jpeg



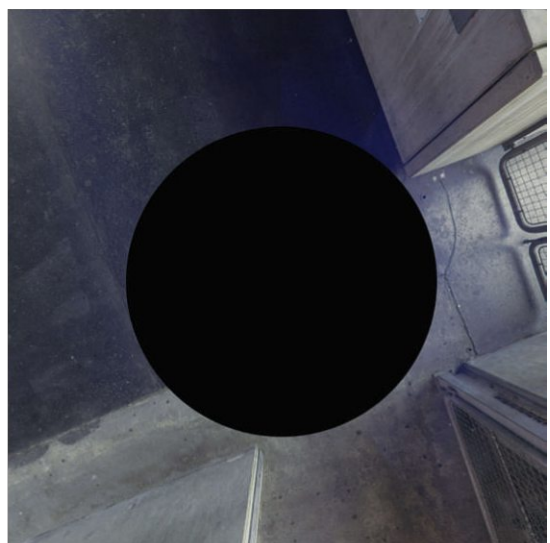
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_082_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_082_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_082_4.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_082_5.jpeg

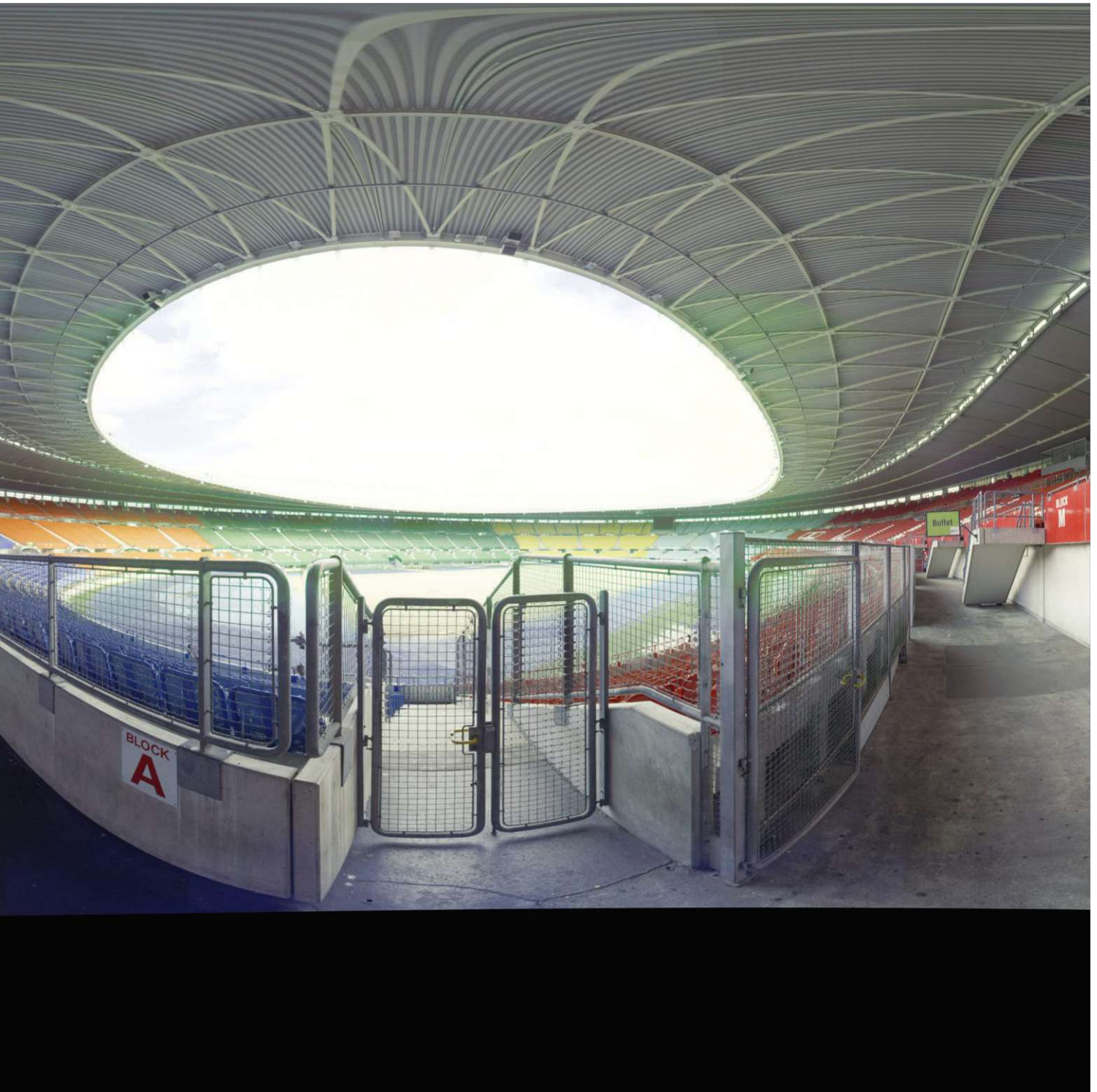
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_082.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

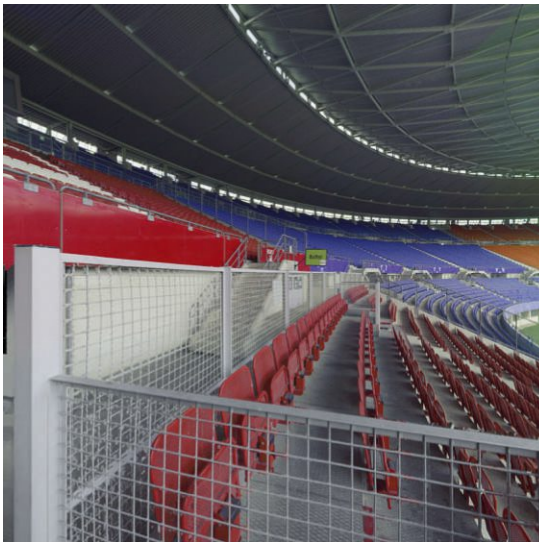
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

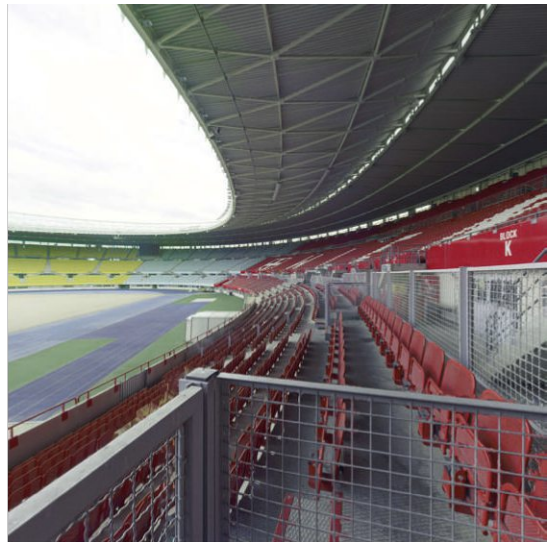
X = -211583.07551

Y = -7487.78758

Z = 7246.96886



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_083_0.jpeg



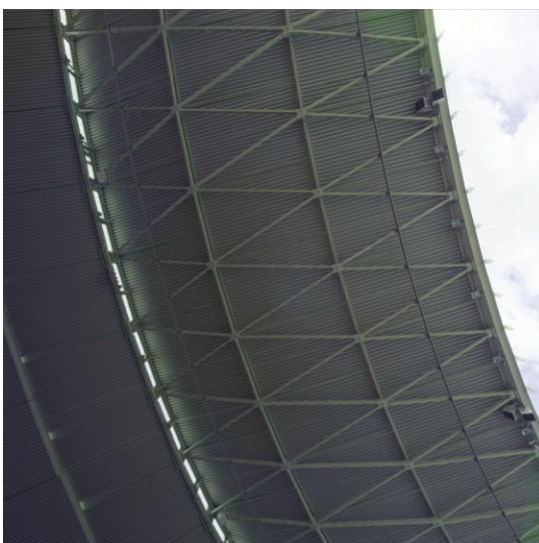
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_083_1.jpeg



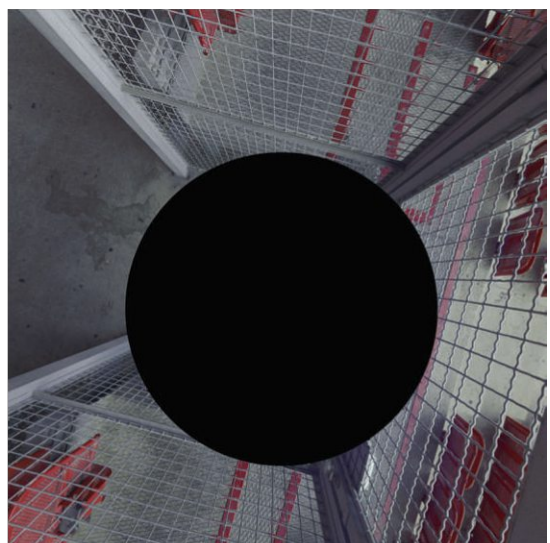
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_083_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_083_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_083_4.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_083_5.jpeg

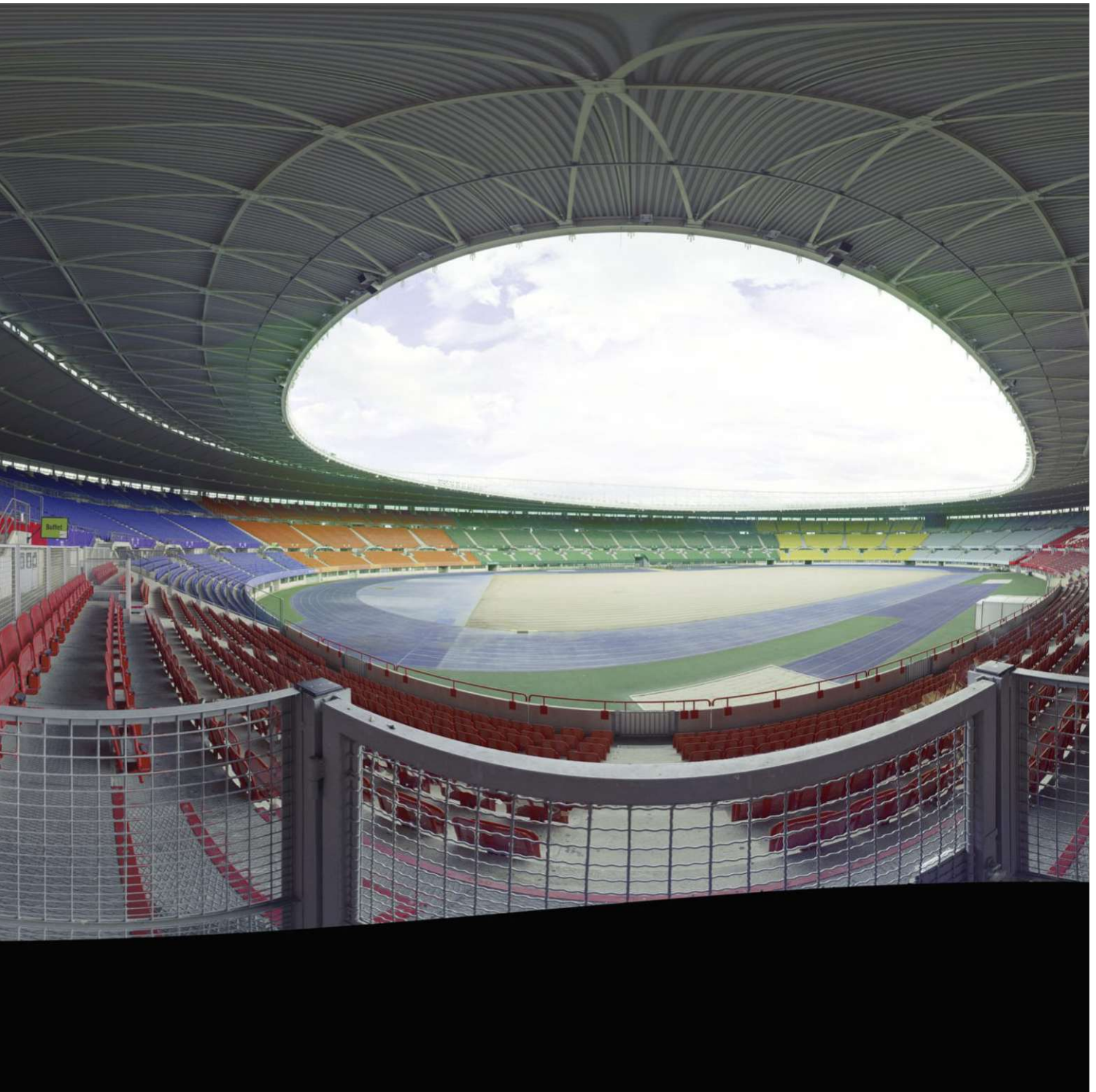
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_083.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

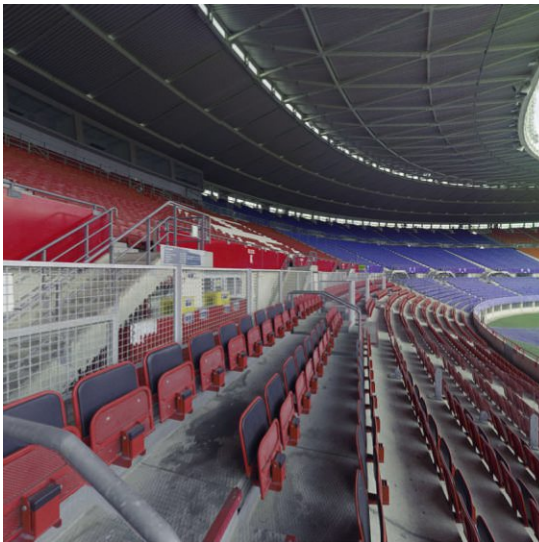
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

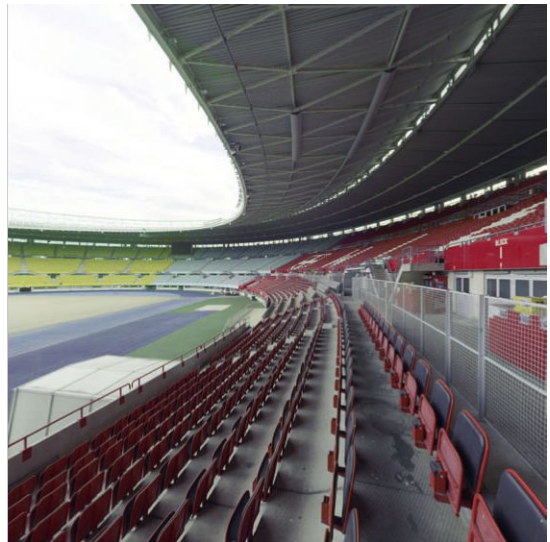
X = -192030.08147

Y = -12106.70357

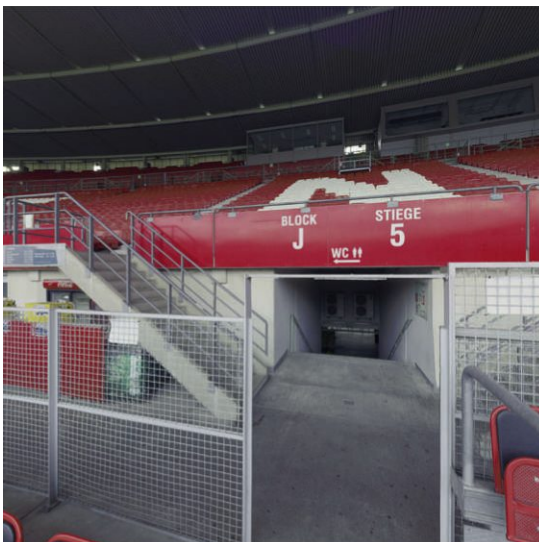
Z = 7208.01107



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_084_0.jpeg



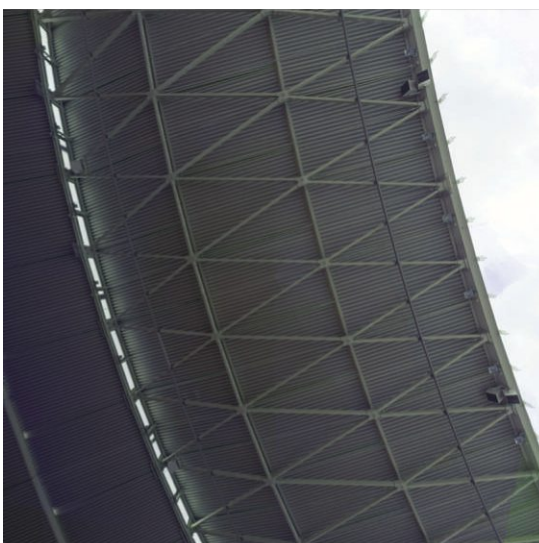
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_084_1.jpeg



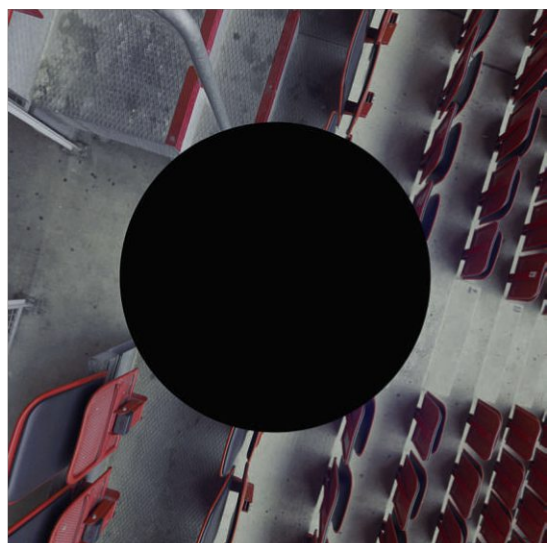
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_084_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_084_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_084_4.jpeg

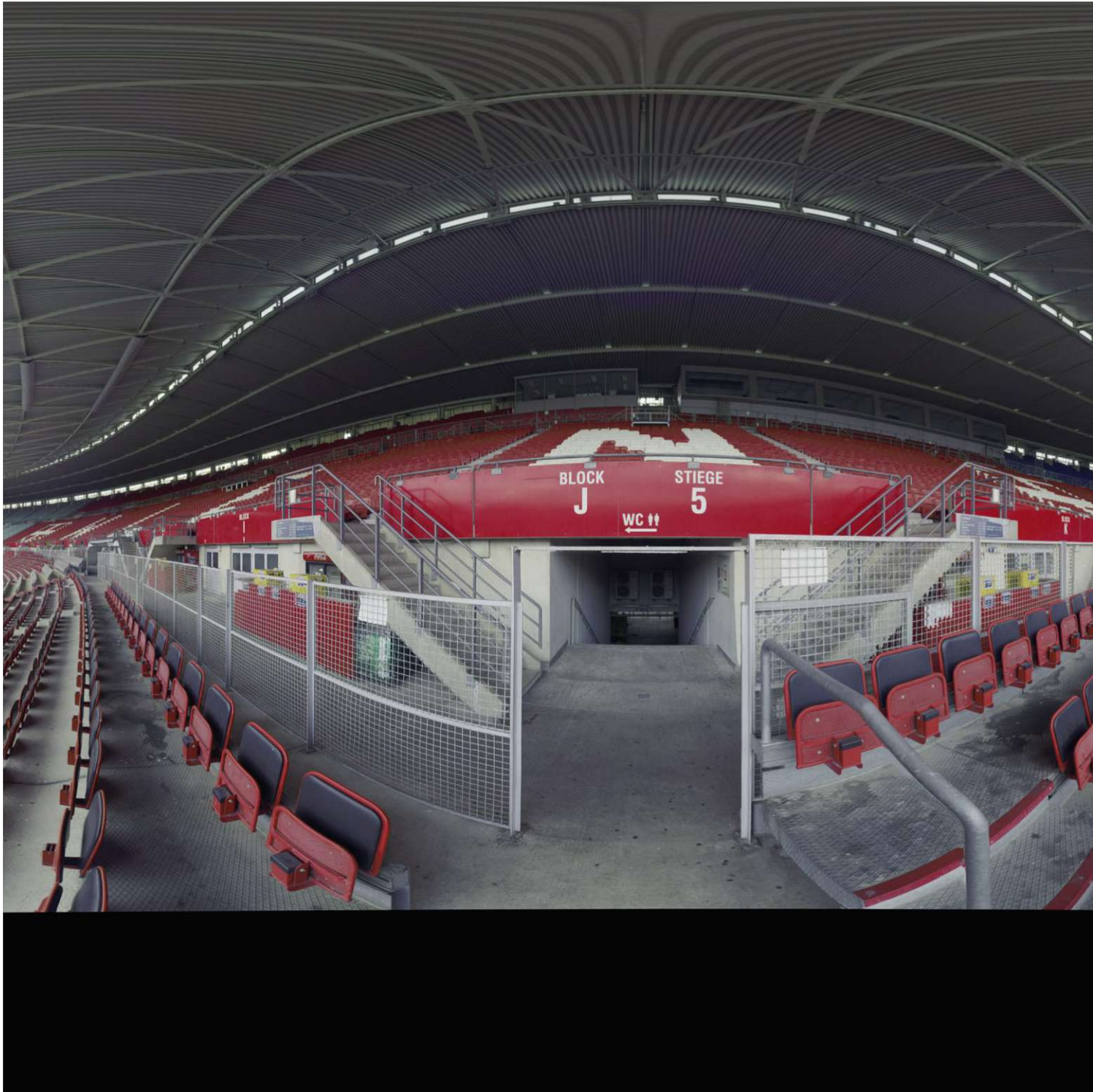


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_084_5.jpeg

DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_084.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

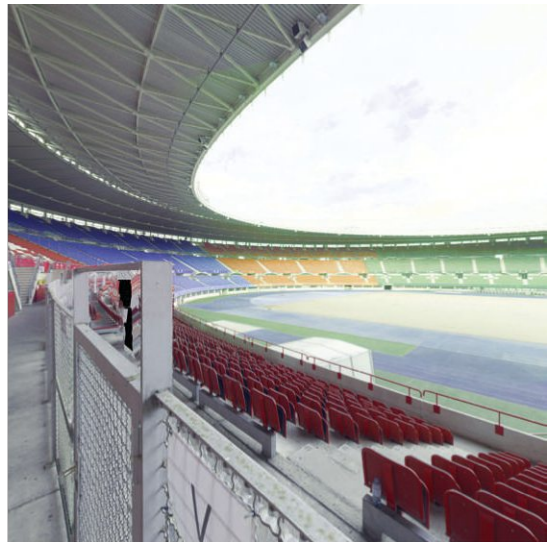
X = -170509.81032

Y = -16800.25522

Z = 7194.06723



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_085_0.jpeg



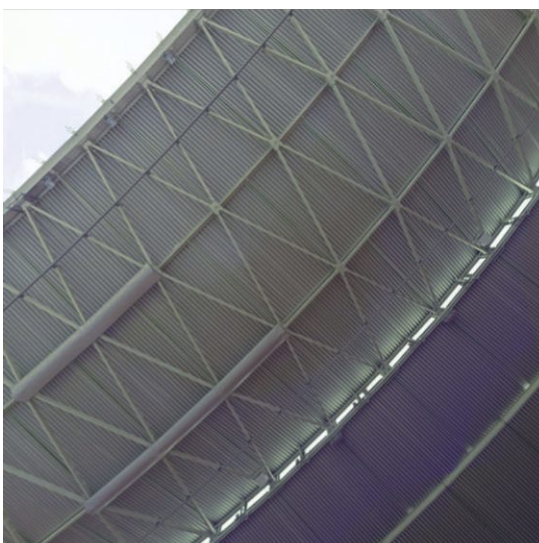
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_085_1.jpeg



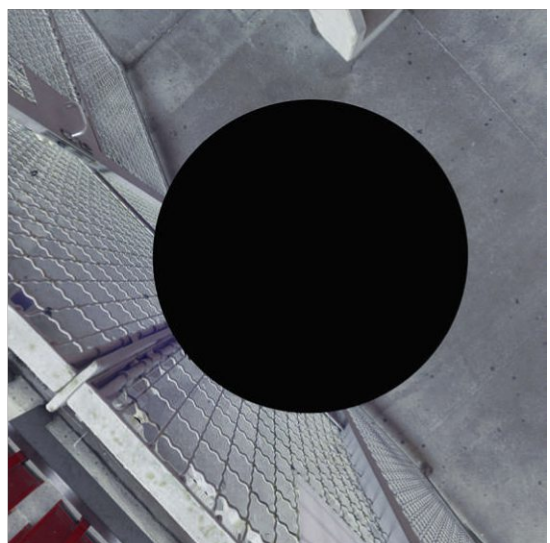
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_085_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_085_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_085_4.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_085_5.jpeg

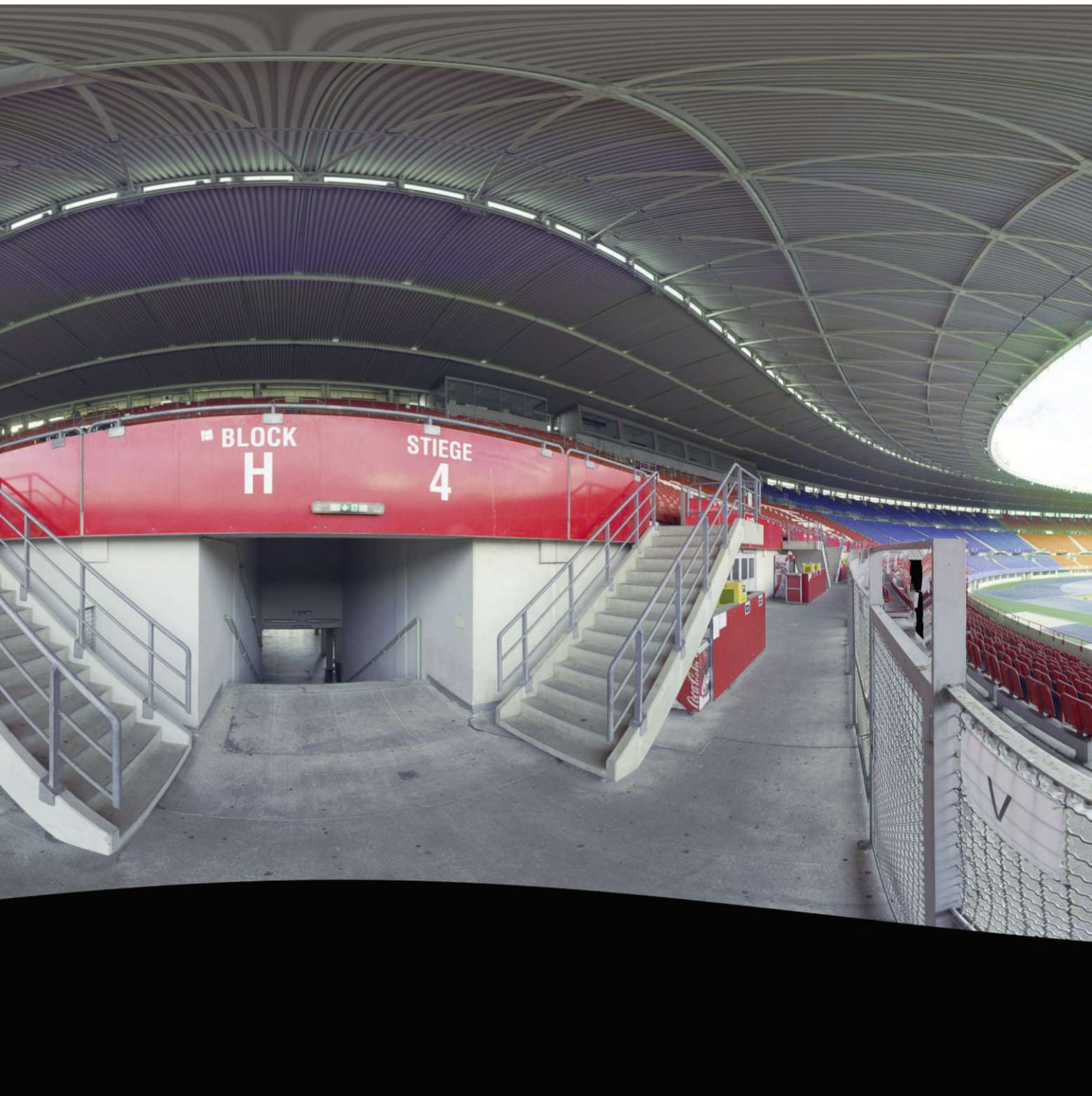
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_085.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

$X = -88759.65797$

$Y = -787.484$

$Z = 6554.35775$



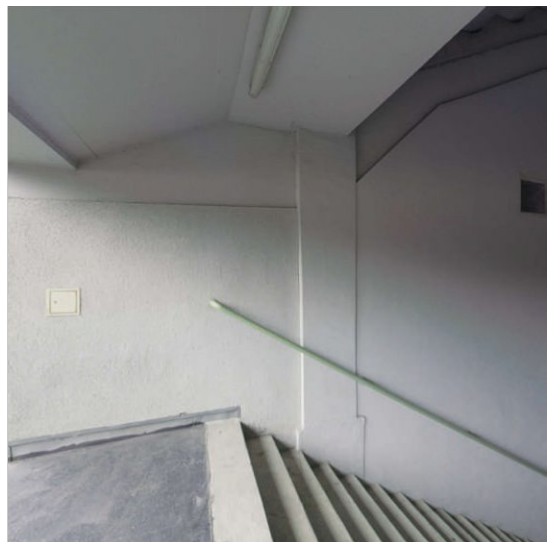
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_086_0.jpeg



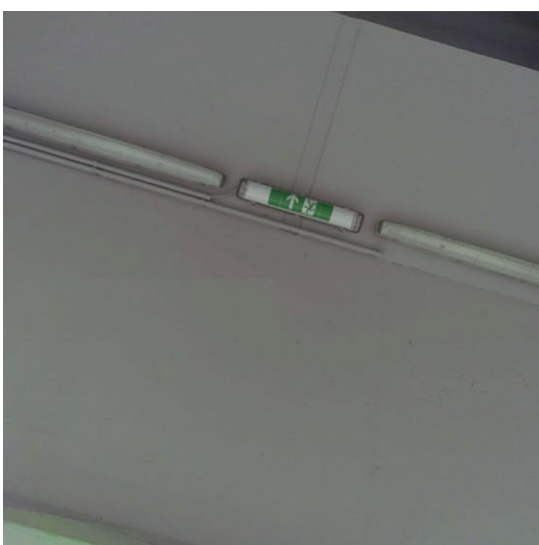
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_086_1.jpeg



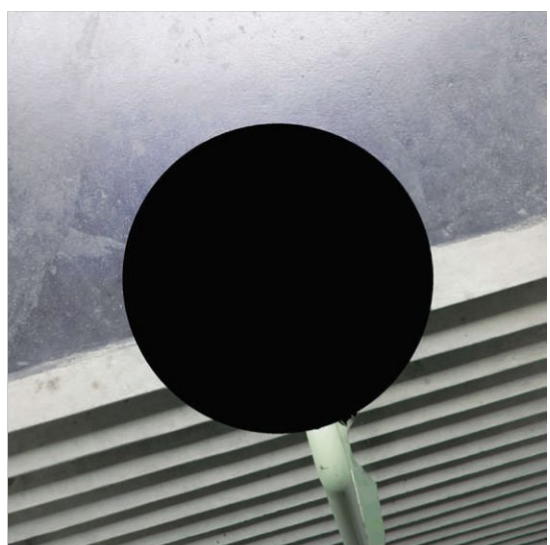
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_086_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_086_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_086_4.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_086_5.jpeg

DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_086.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

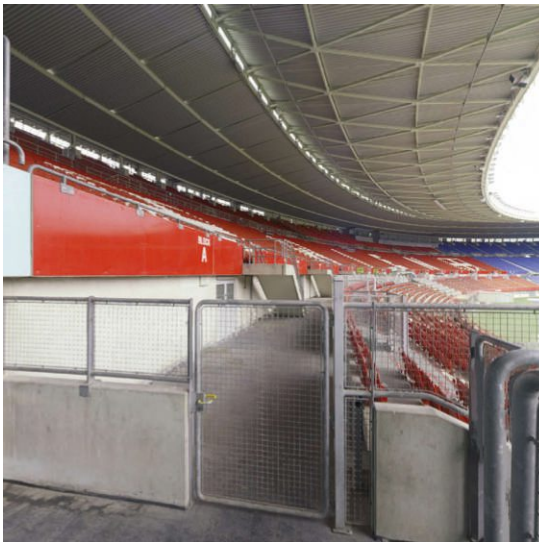
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

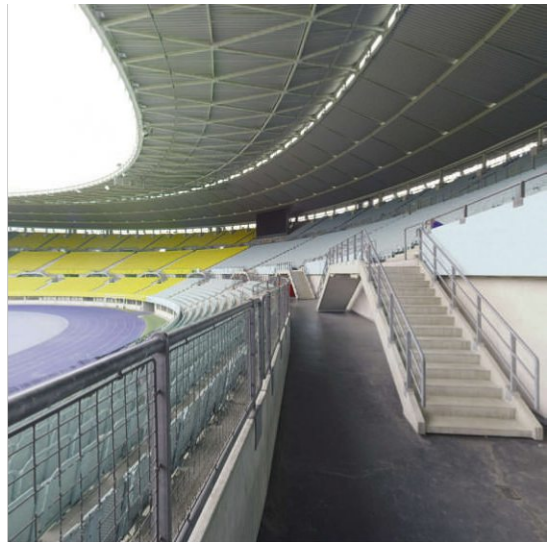
$X = -91594.87393$

$Y = 3045.82316$

$Z = 7419.84658$



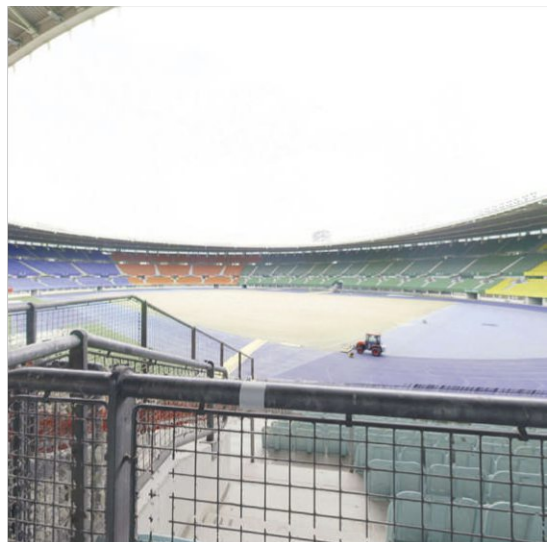
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_087_0.jpeg



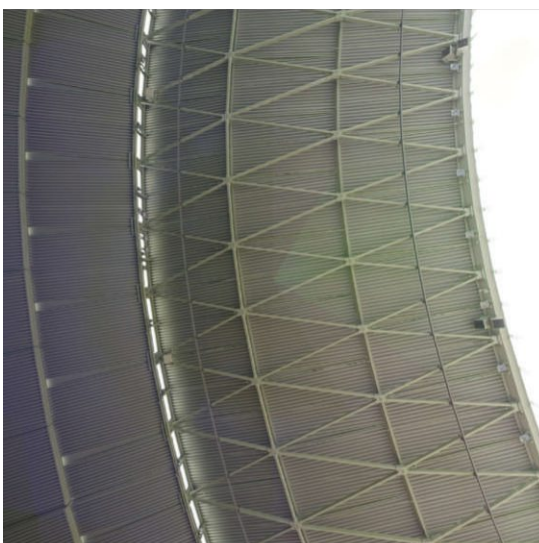
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_087_1.jpeg



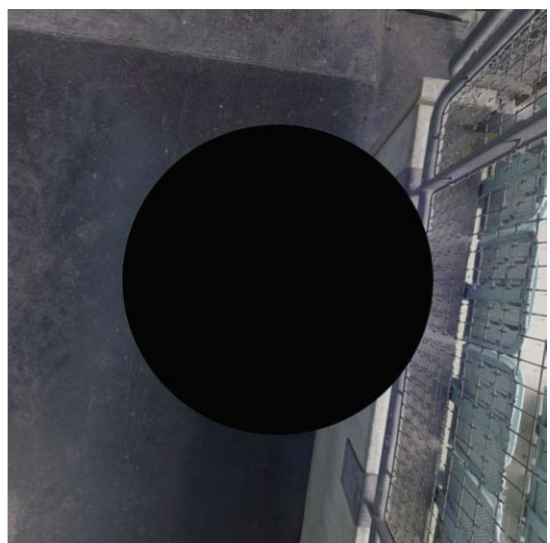
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_087_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_087_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_087_4.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_087_5.jpeg

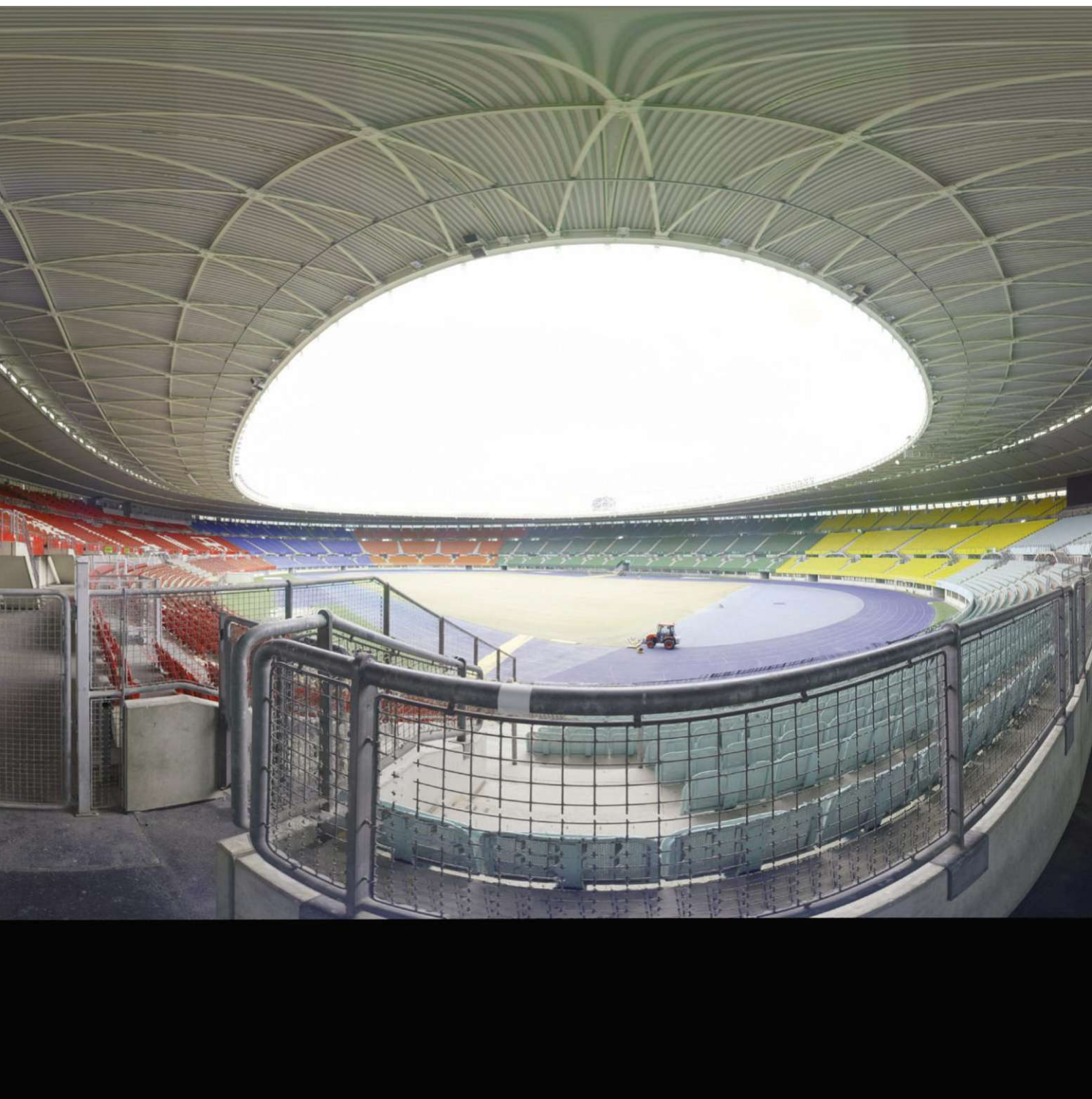
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_087.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

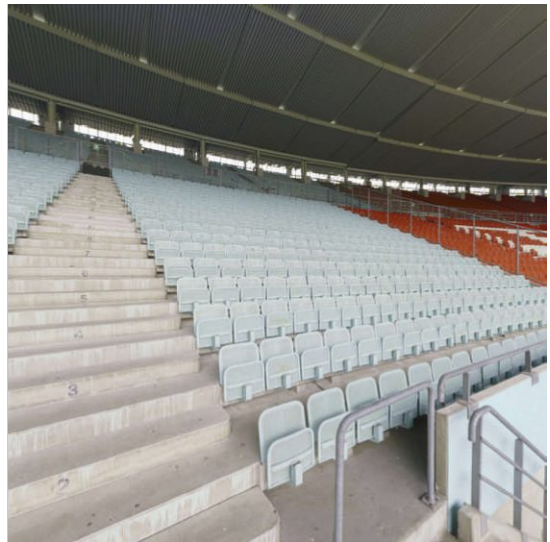
$X = -82579.49423$

$Y = 7628.21627$

$Z = 9712.33886$



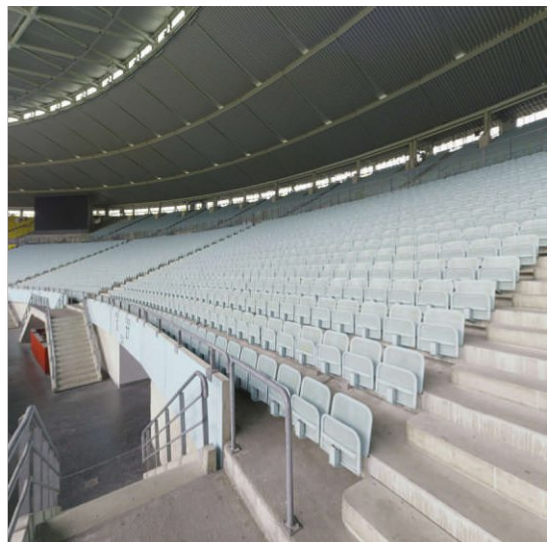
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_088_0.jpeg



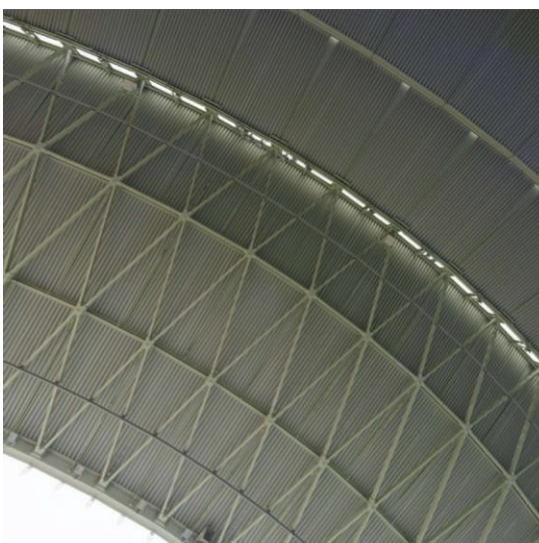
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_088_1.jpeg



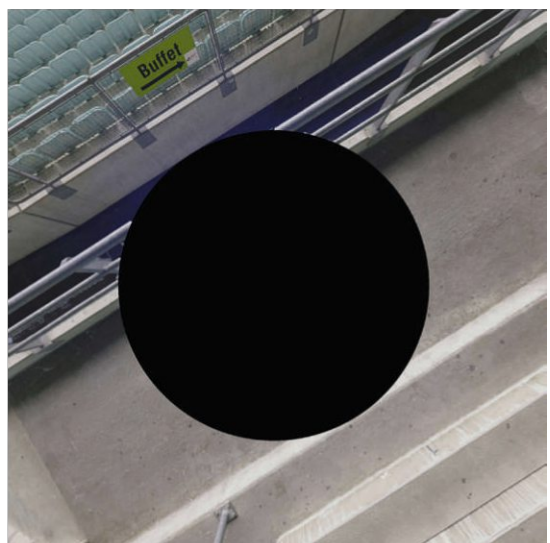
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_088_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_088_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_088_4.jpeg

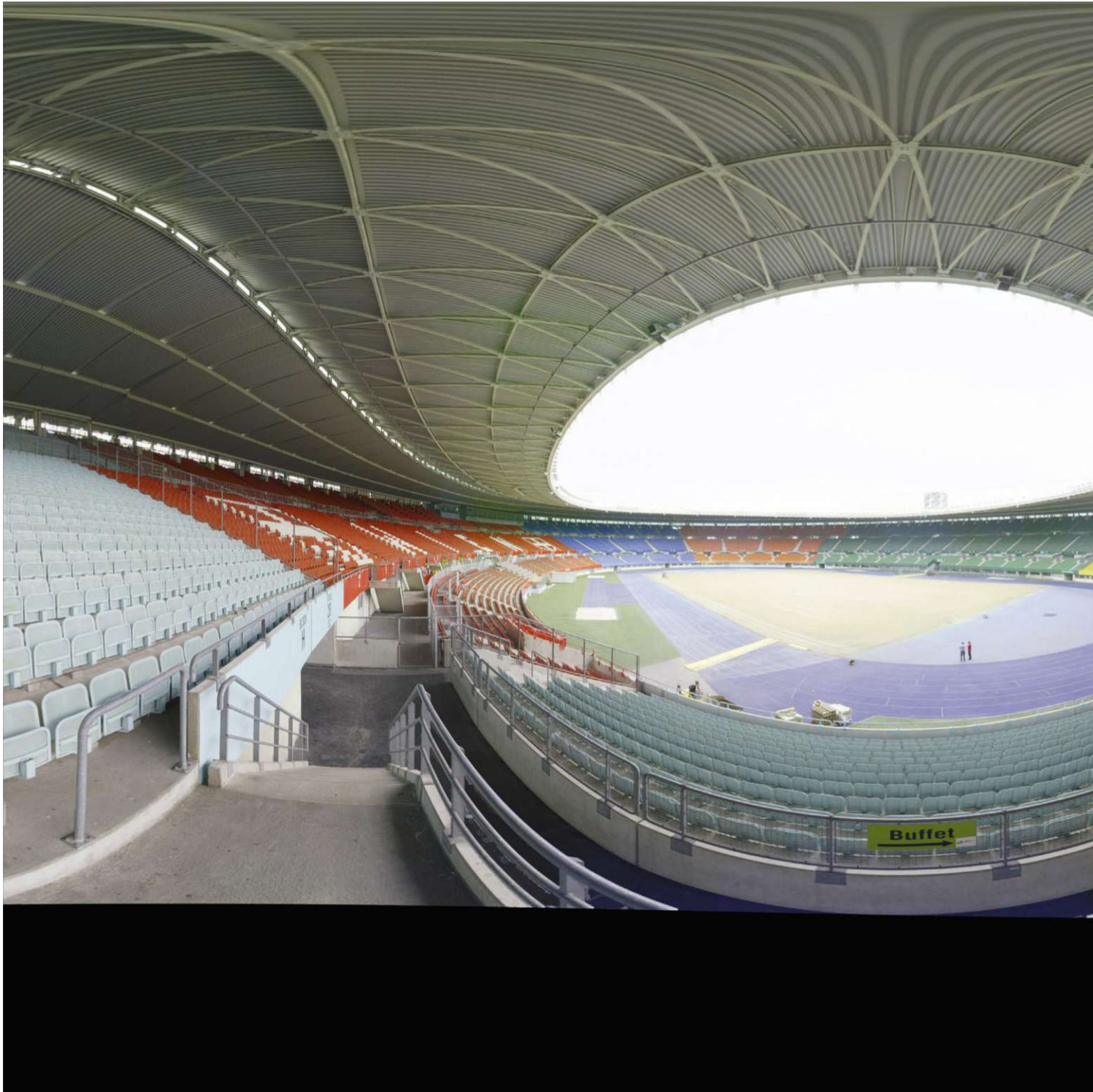


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_088_5.jpeg

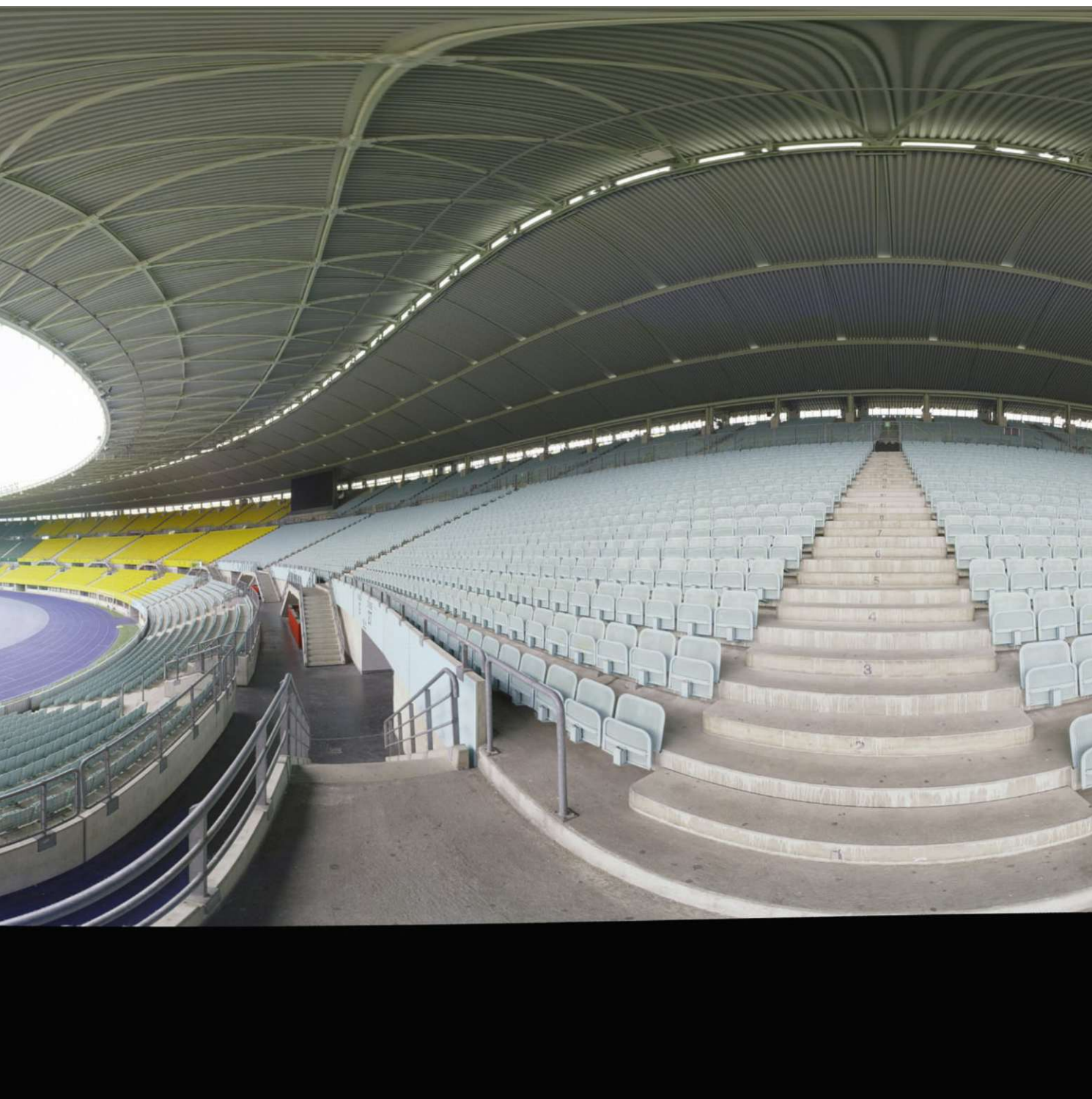
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_088.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

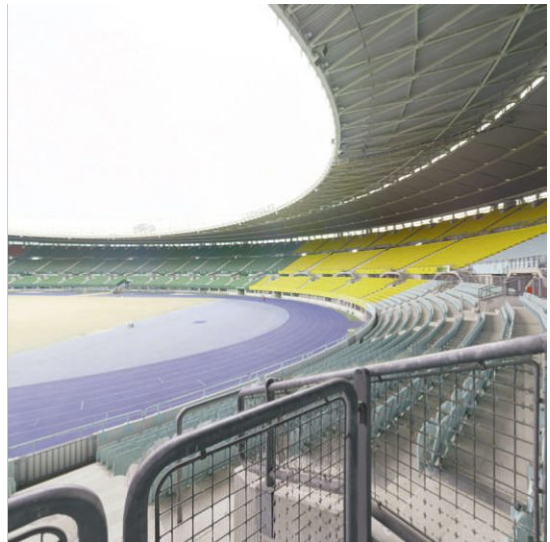
X = -77624.04407

Y = 16514.02843

Z = 7367.2053



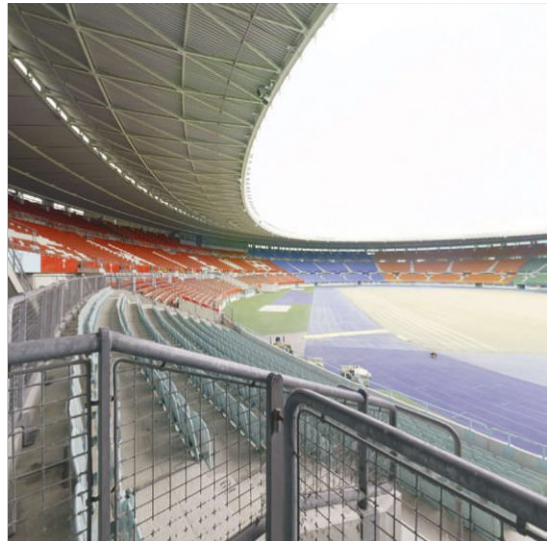
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_089_0.jpeg



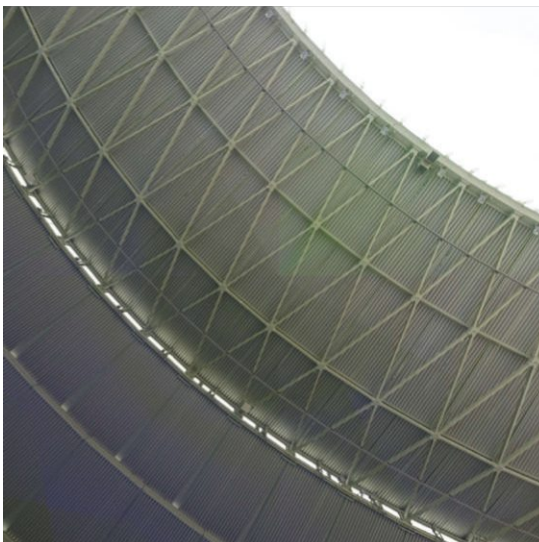
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_089_1.jpeg



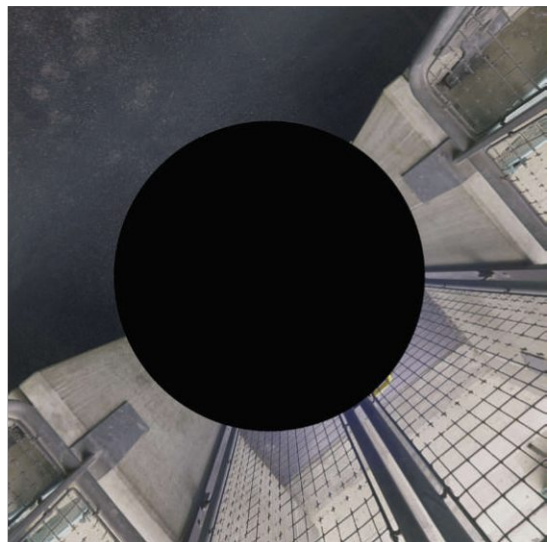
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_089_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_089_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_089_4.jpeg

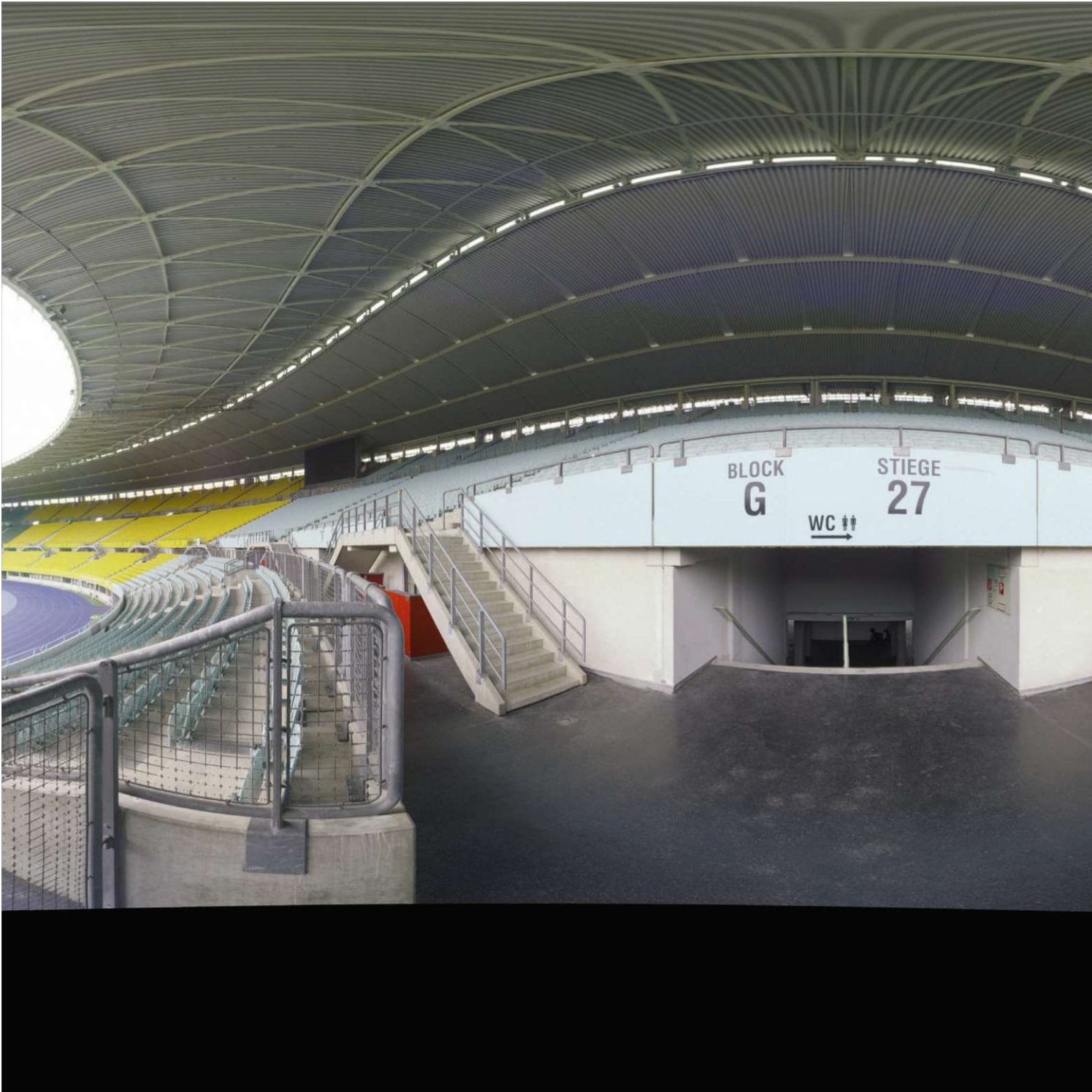


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_089_5.jpeg

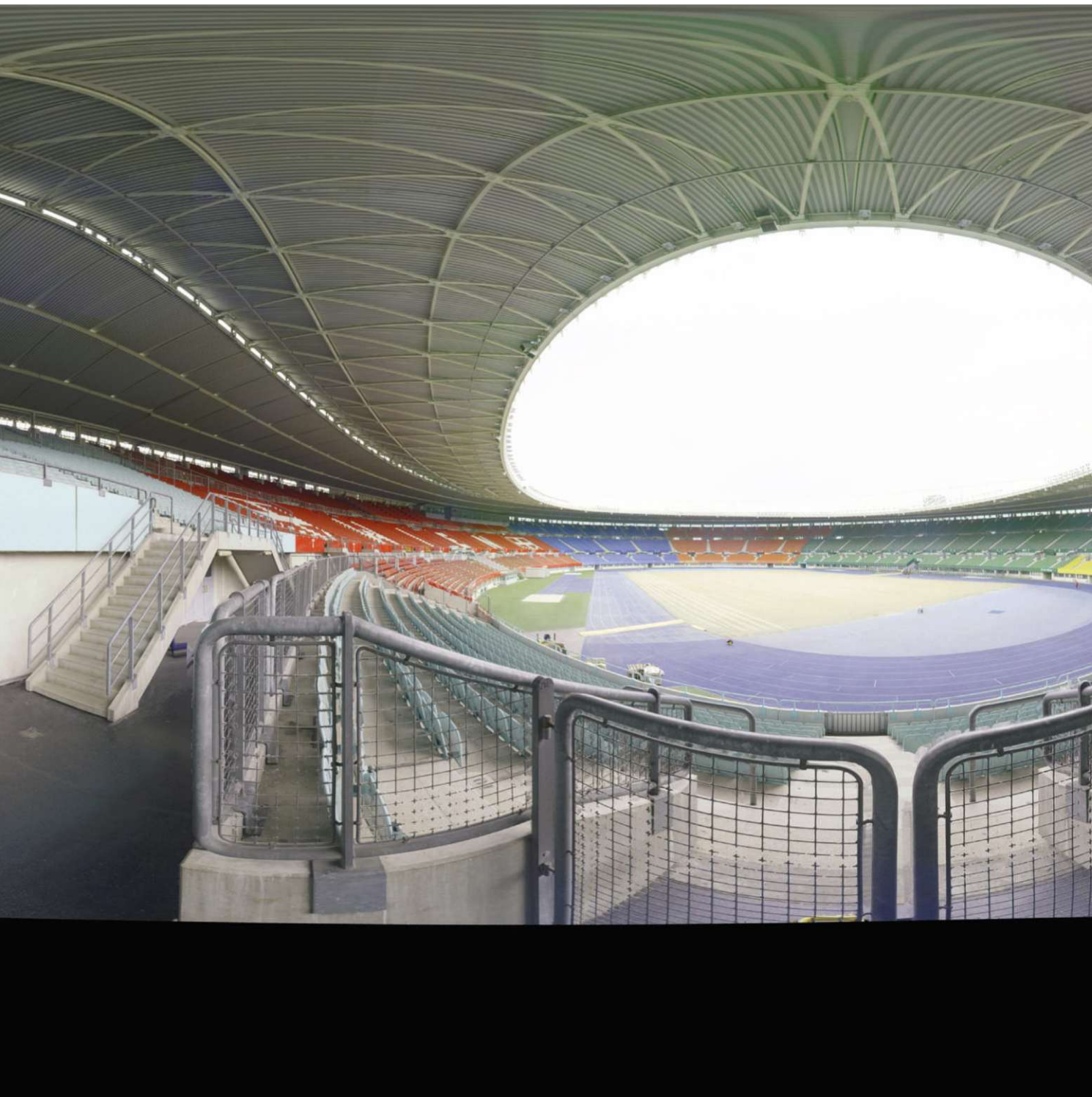
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_089.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

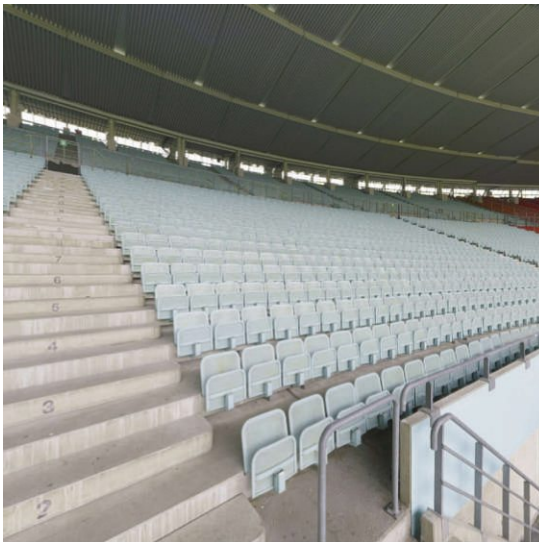
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

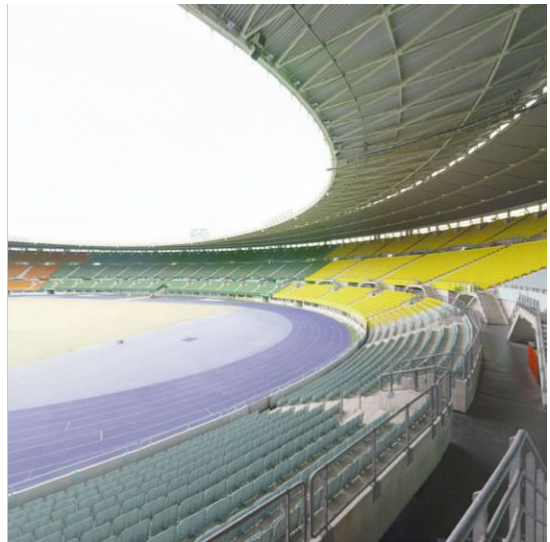
X = -69828.30131

Y = 22260.06856

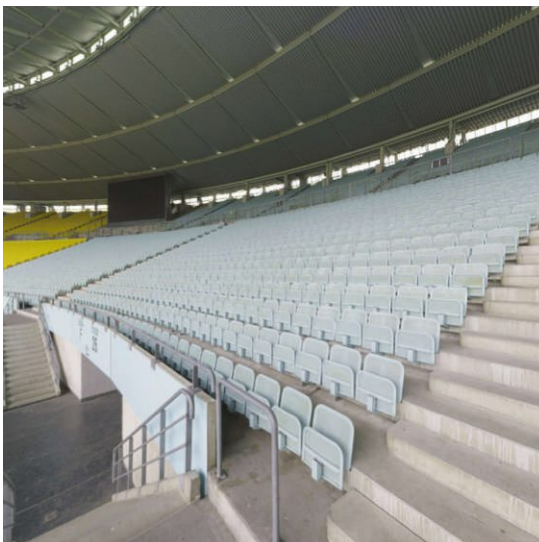
Z = 9817.55333



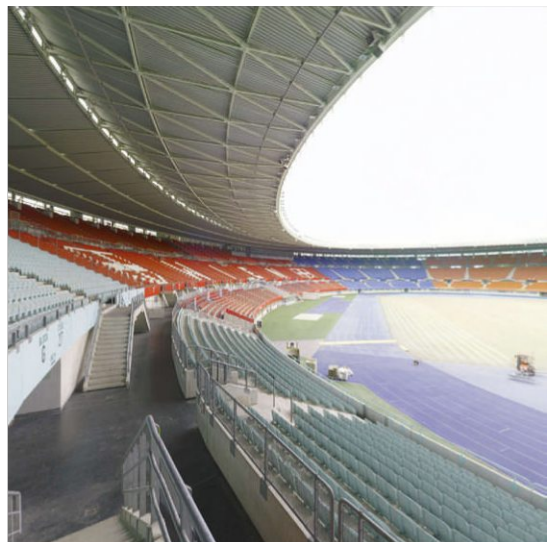
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_090_0.jpeg



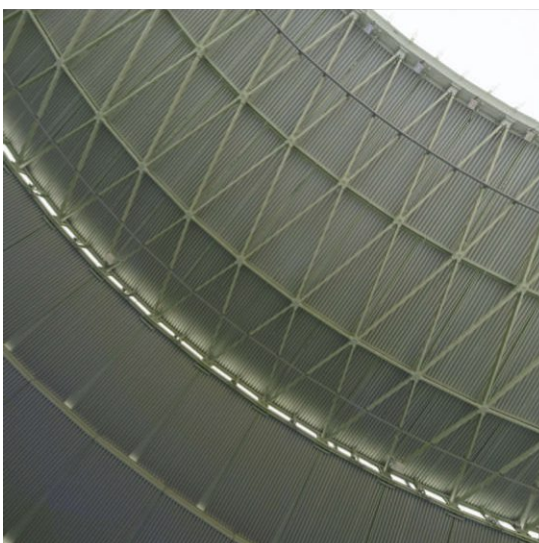
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_090_1.jpeg



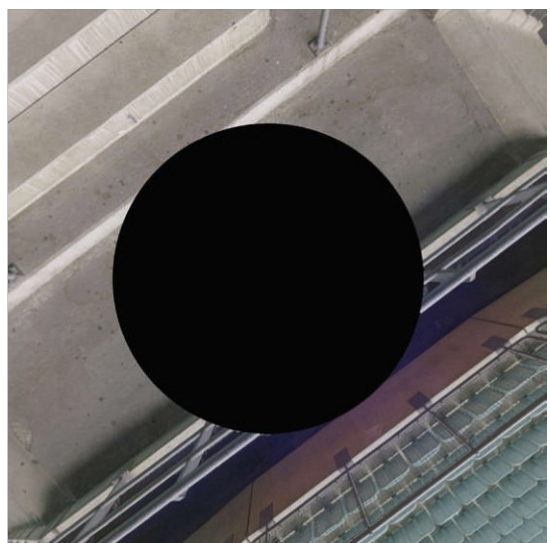
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_090_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_090_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_090_4.jpeg

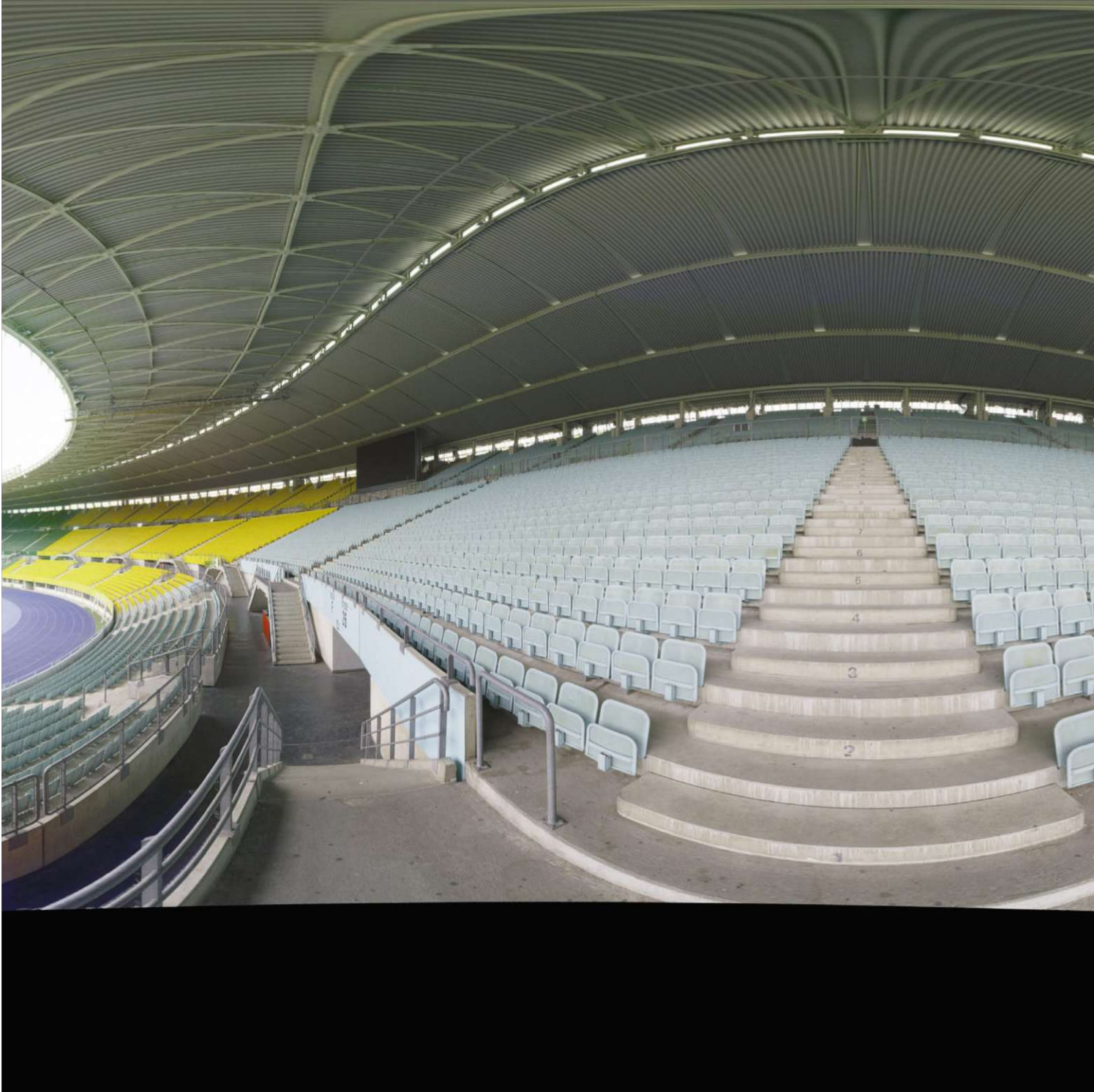


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_090_5.jpeg

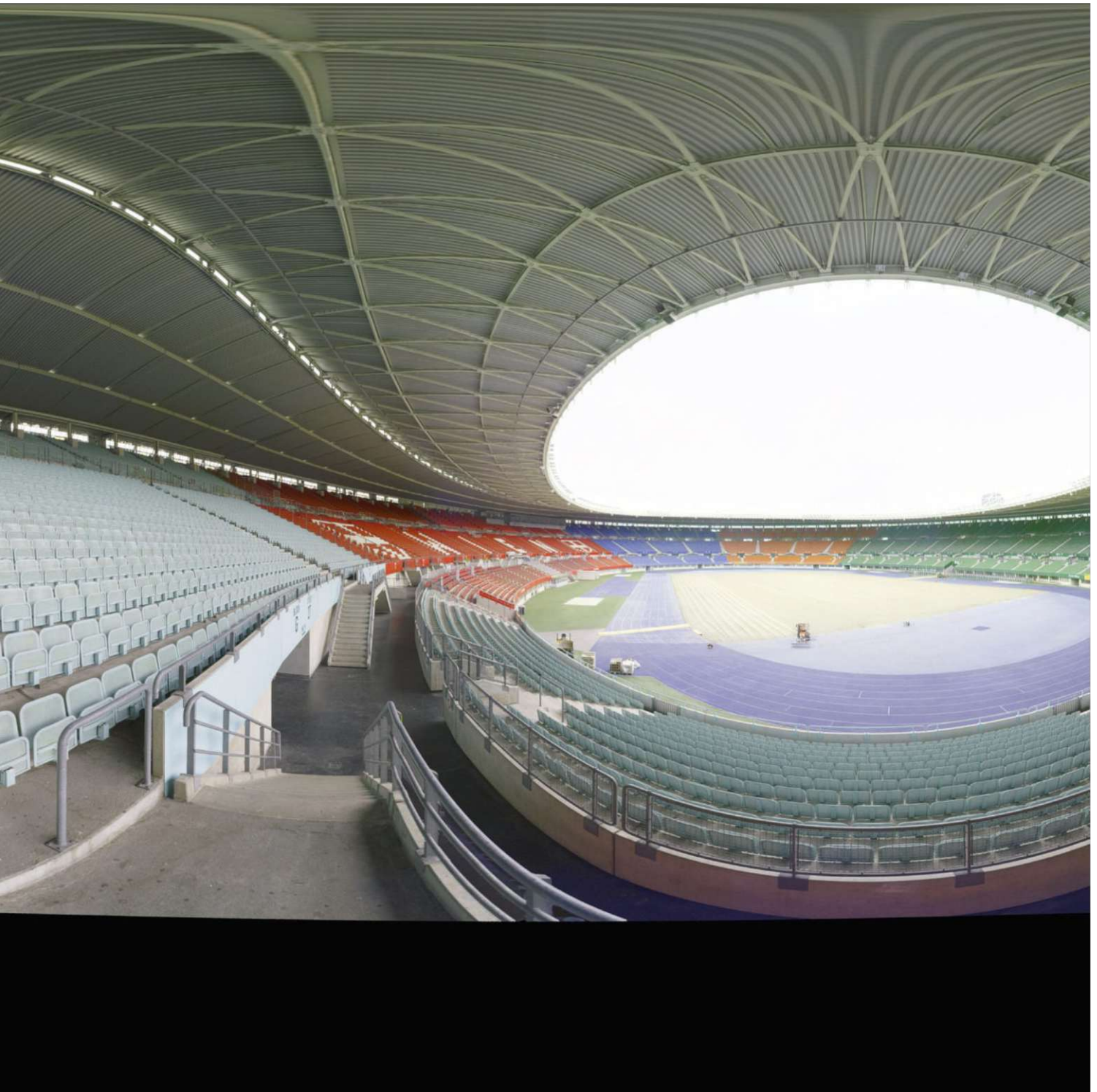
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_090.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

X = -67956.1604

Y = 31846.91971

Z = 7358.2747



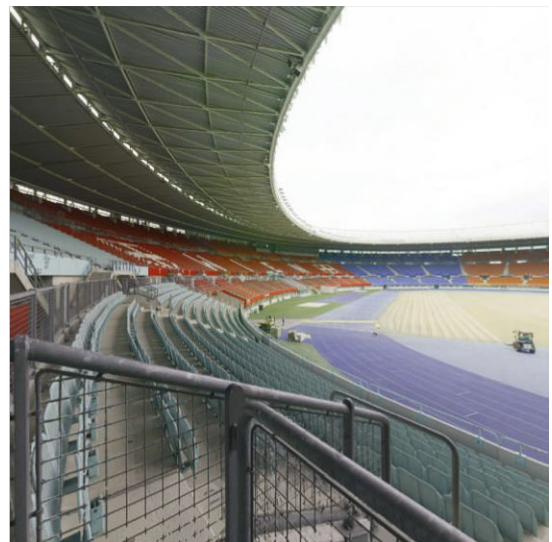
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_091_0.jpeg



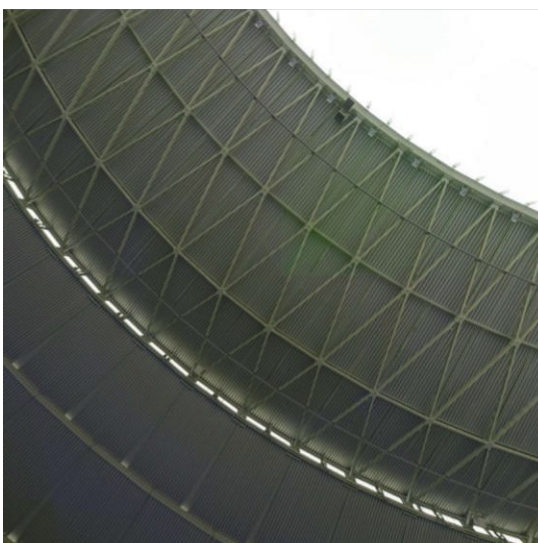
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_091_1.jpeg



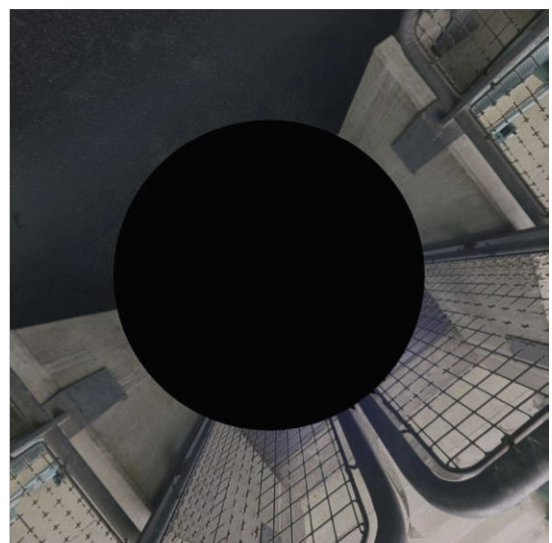
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_091_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_091_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_091_4.jpeg

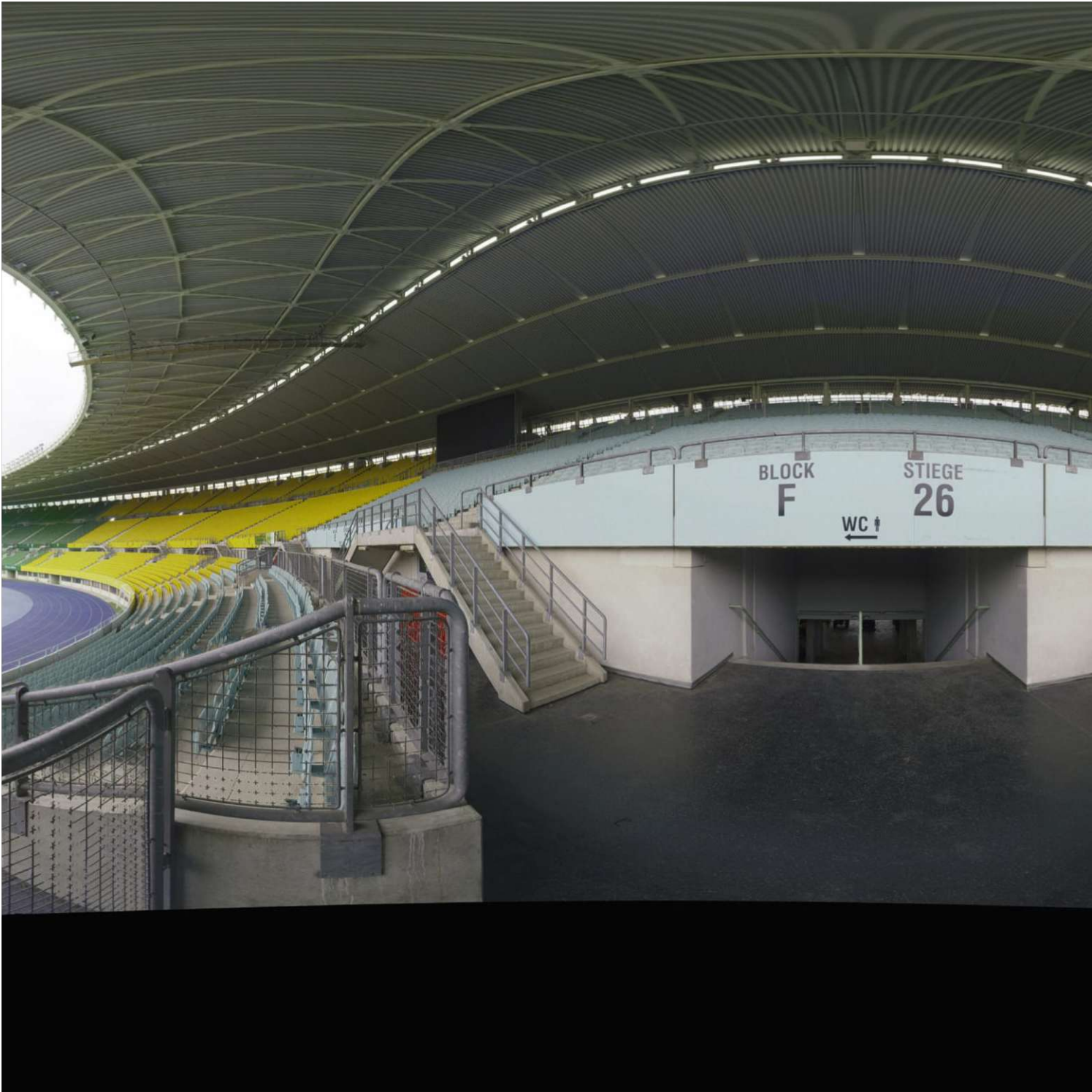


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_091_5.jpeg

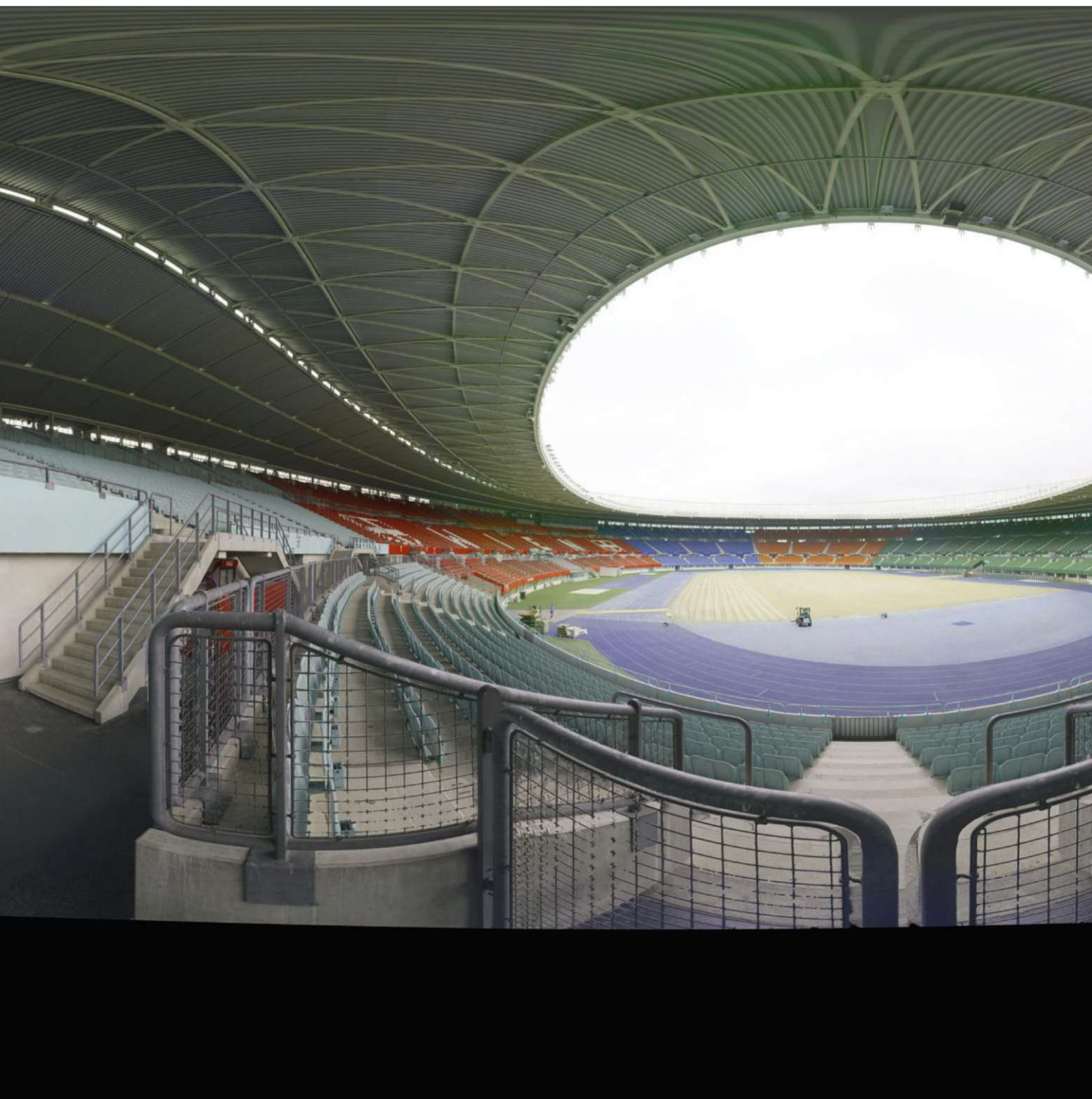
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_091.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

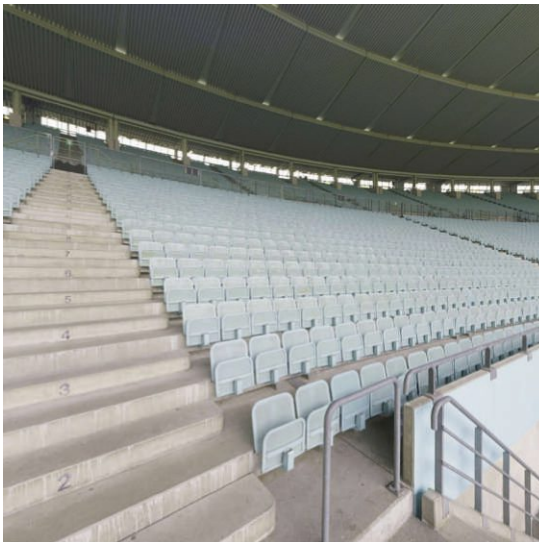
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

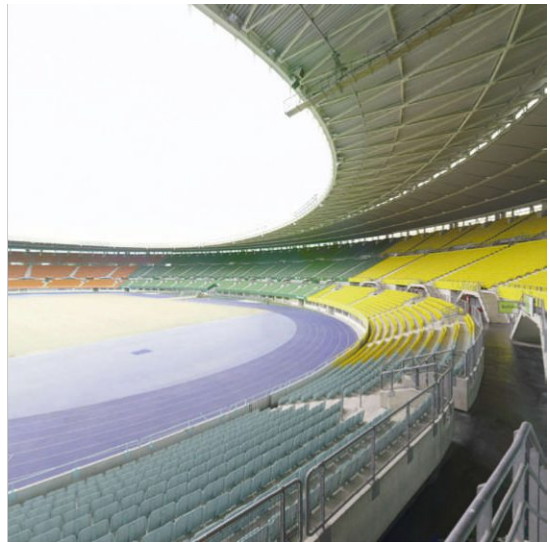
$X = -62032.72555$

$Y = 39574.89008$

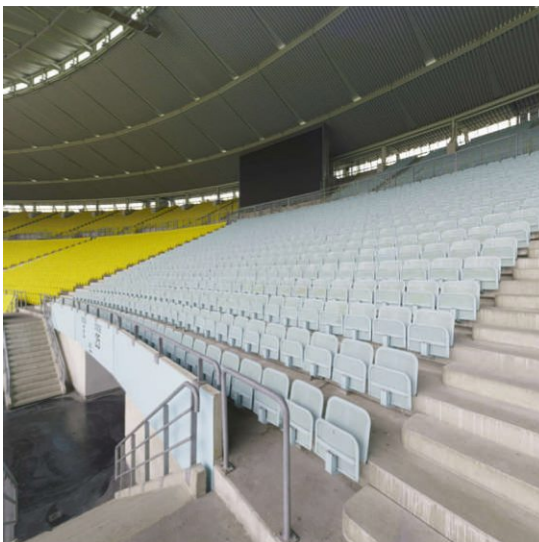
$Z = 9722.83449$



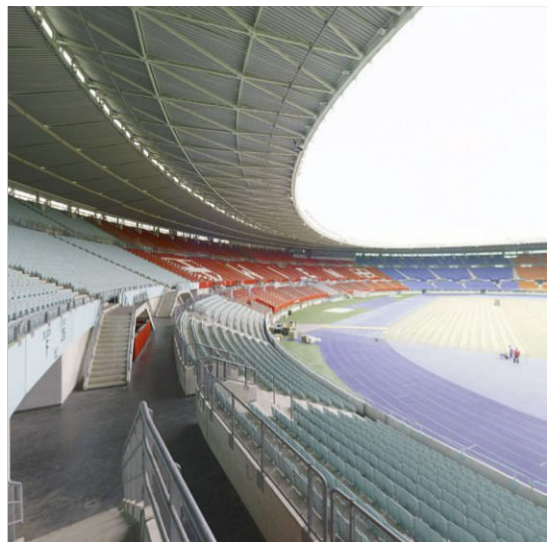
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_092_0.jpeg



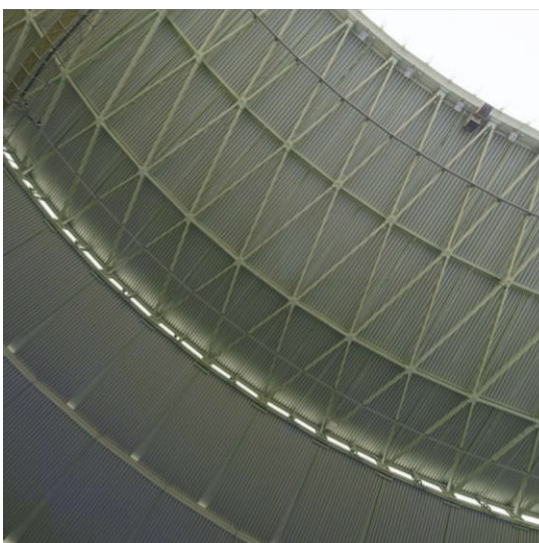
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_092_1.jpeg



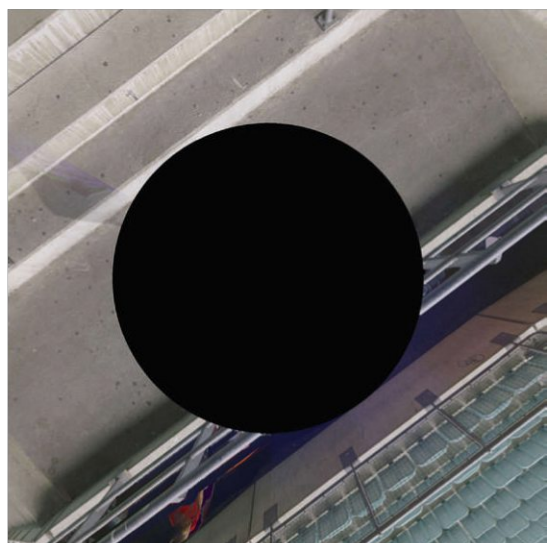
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_092_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_092_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_092_4.jpeg

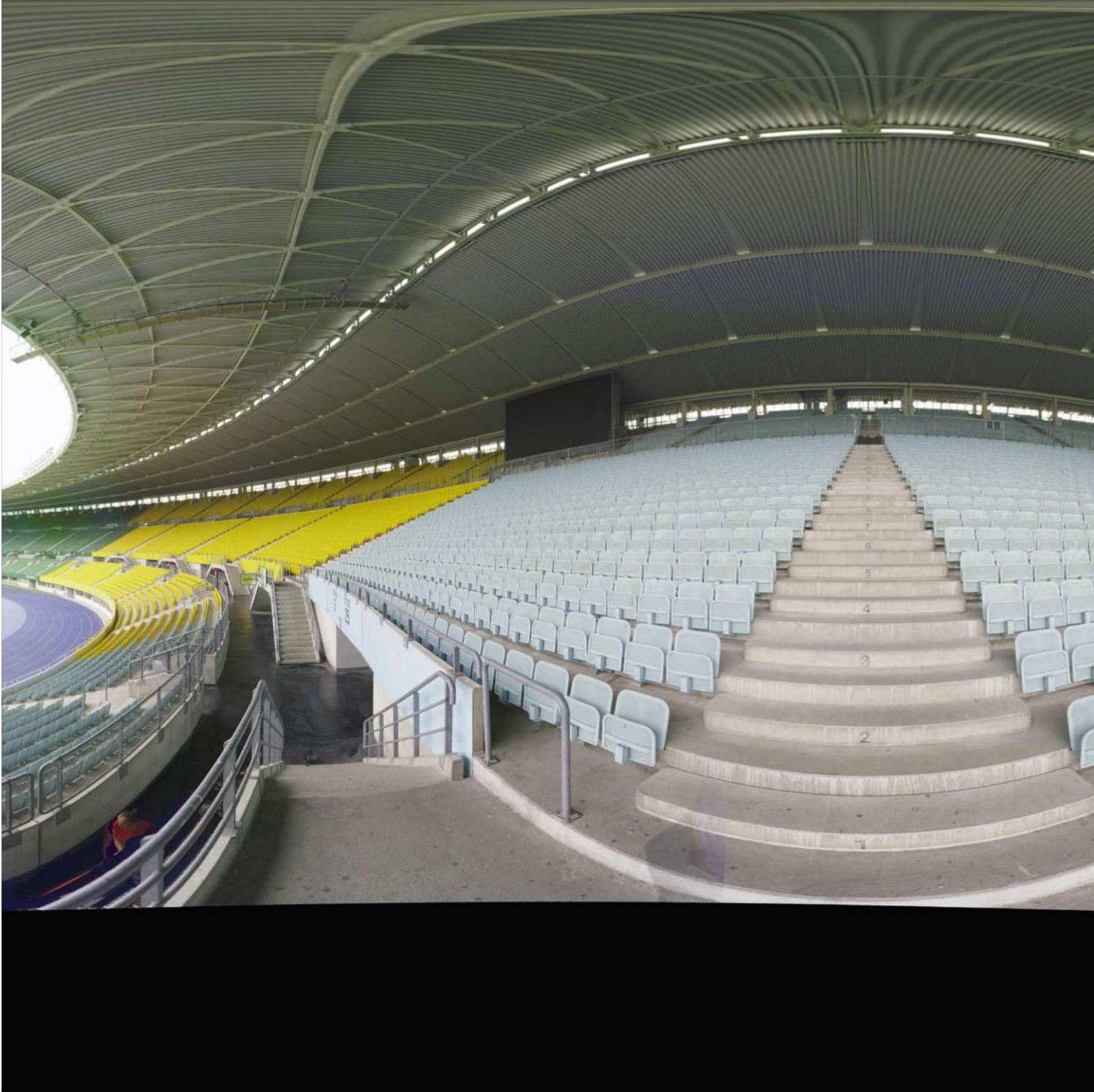


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_092_5.jpeg

DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_092.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

X = -59554.58765

Y = 58169.70607

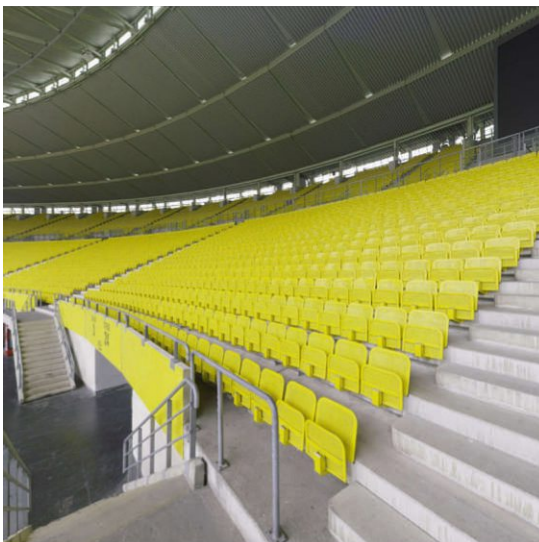
Z = 9717.86437



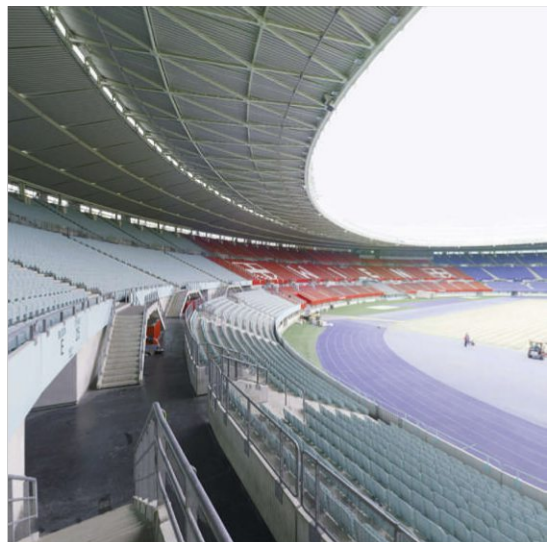
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_093_0.jpeg



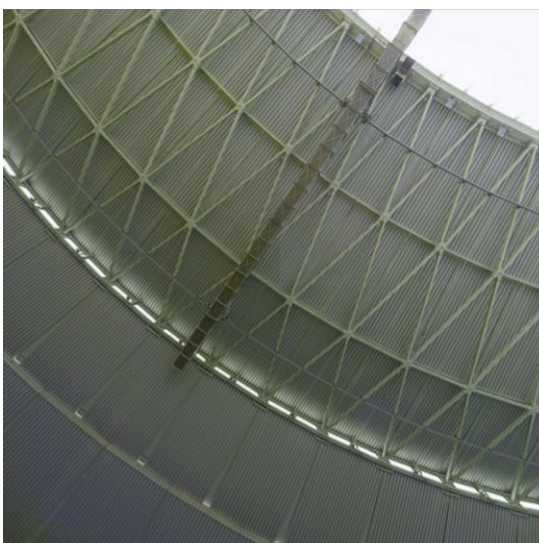
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_093_1.jpeg



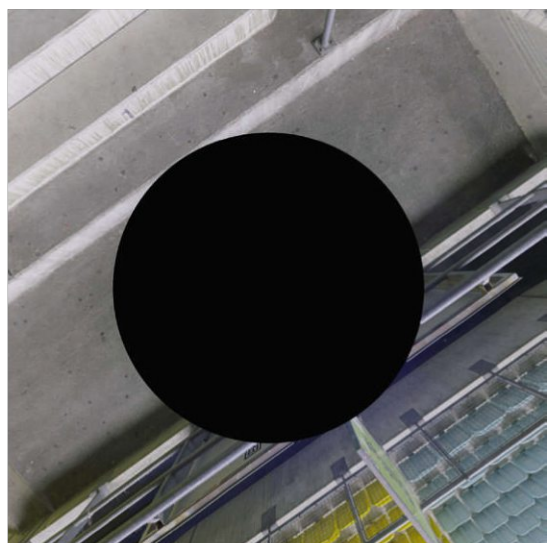
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_093_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_093_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_093_4.jpeg

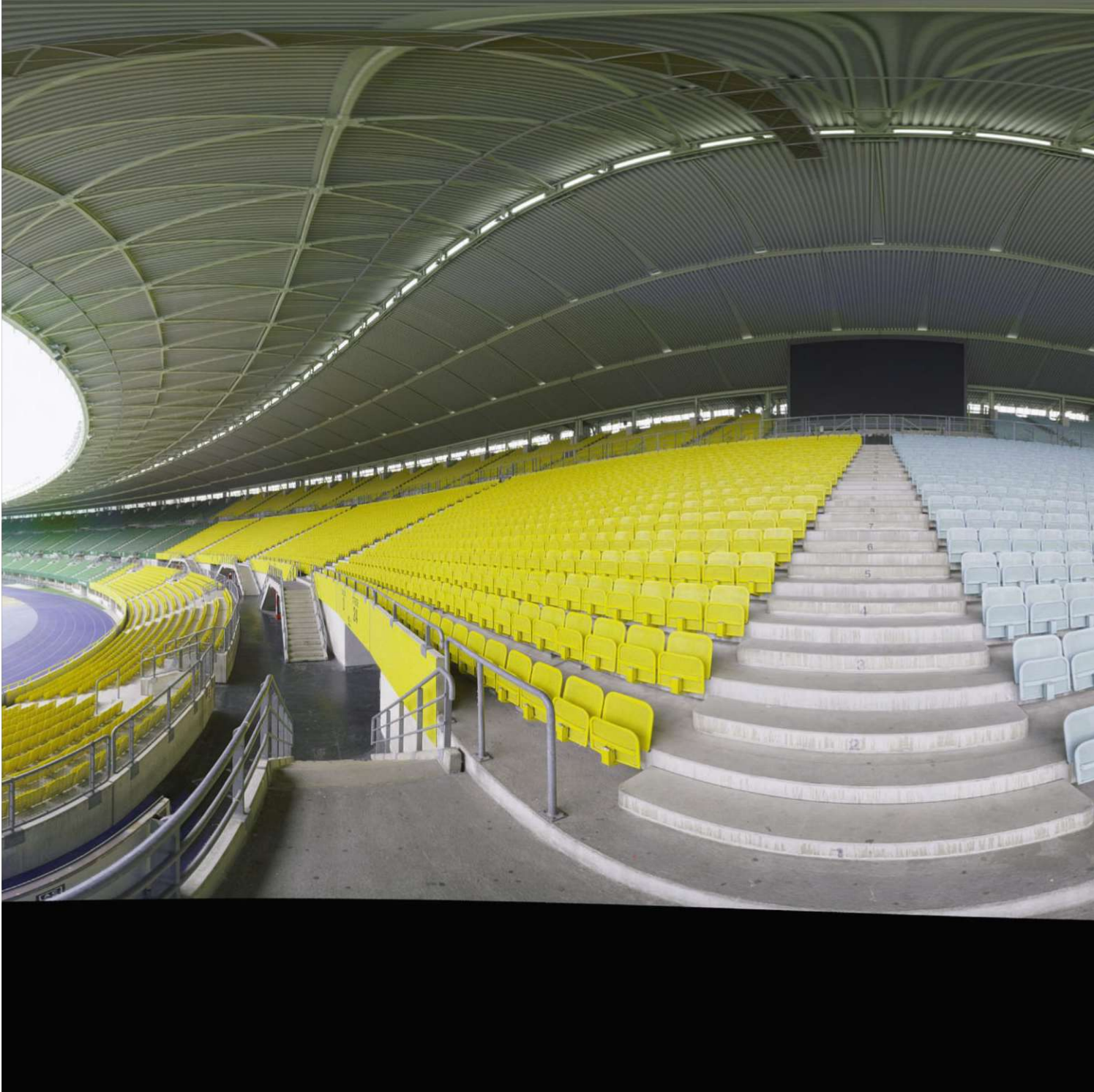


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_093_5.jpeg

DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_093.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

X = -63478.80987

Y = 67215.99061

Z = 7266.51308



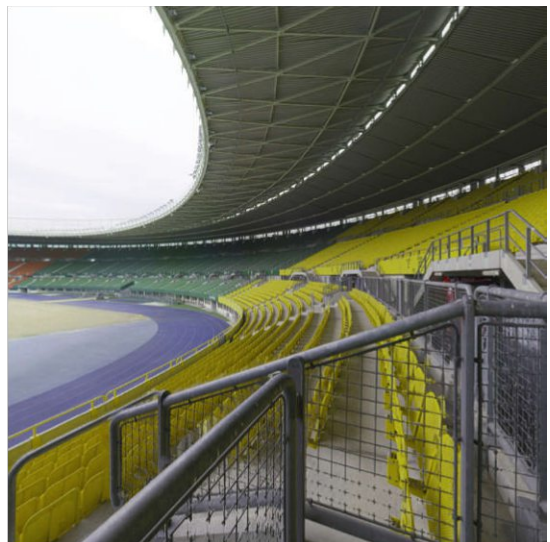
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_094_0.jpeg



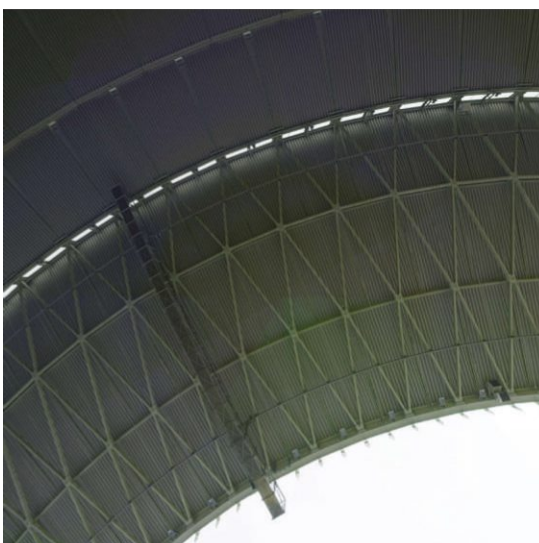
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_094_1.jpeg



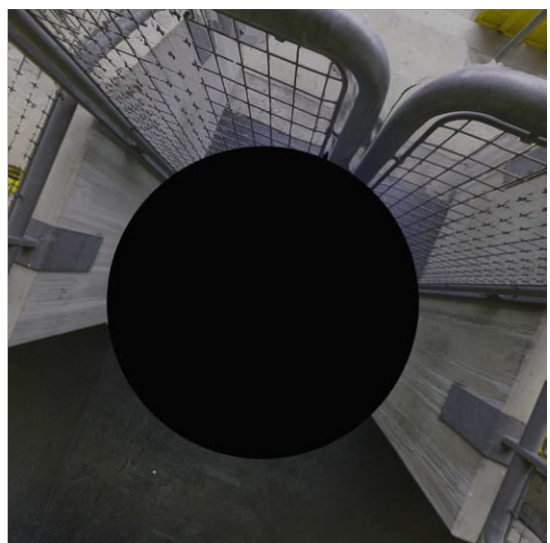
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_094_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_094_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_094_4.jpeg

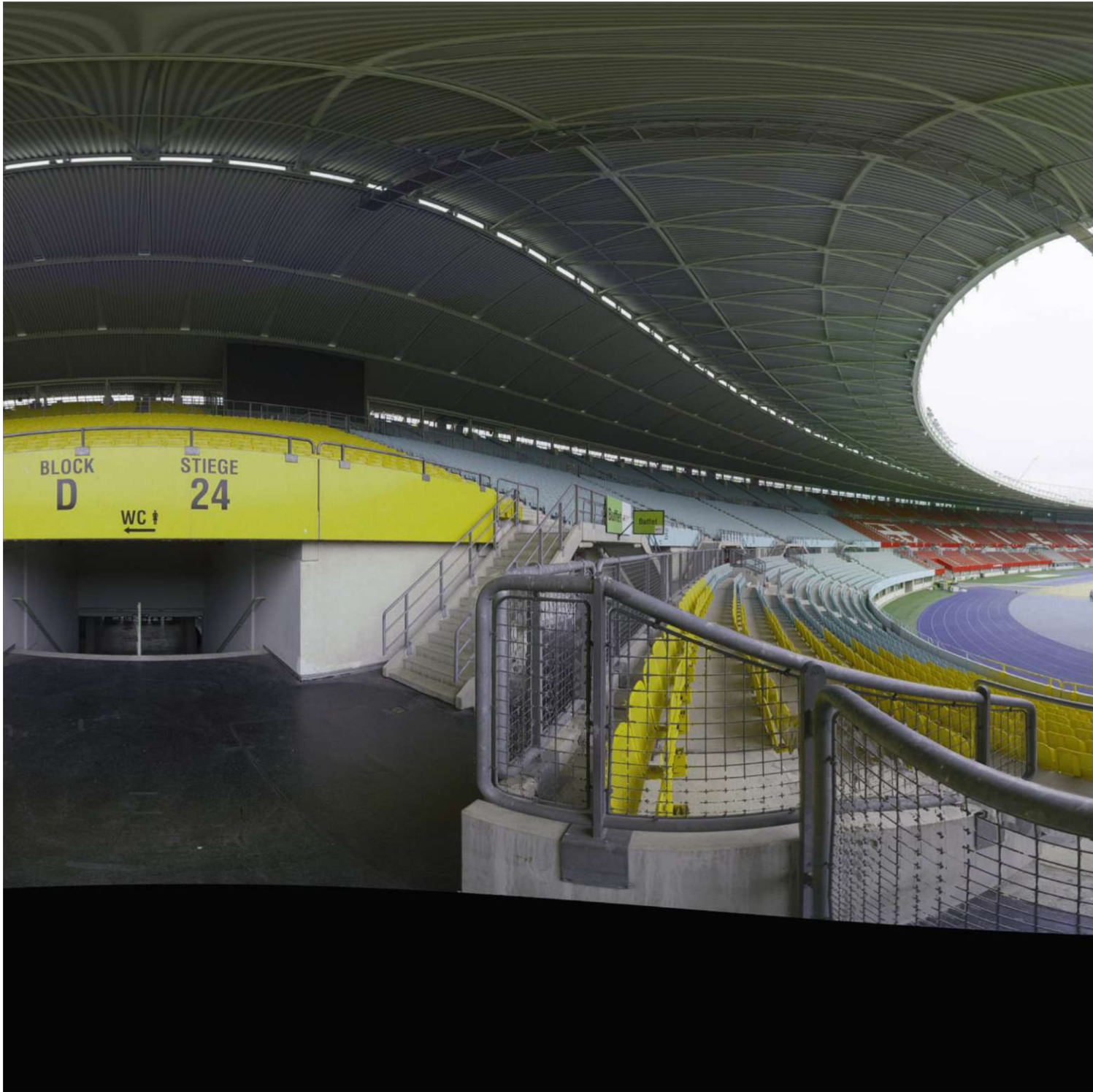


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_094_5.jpeg

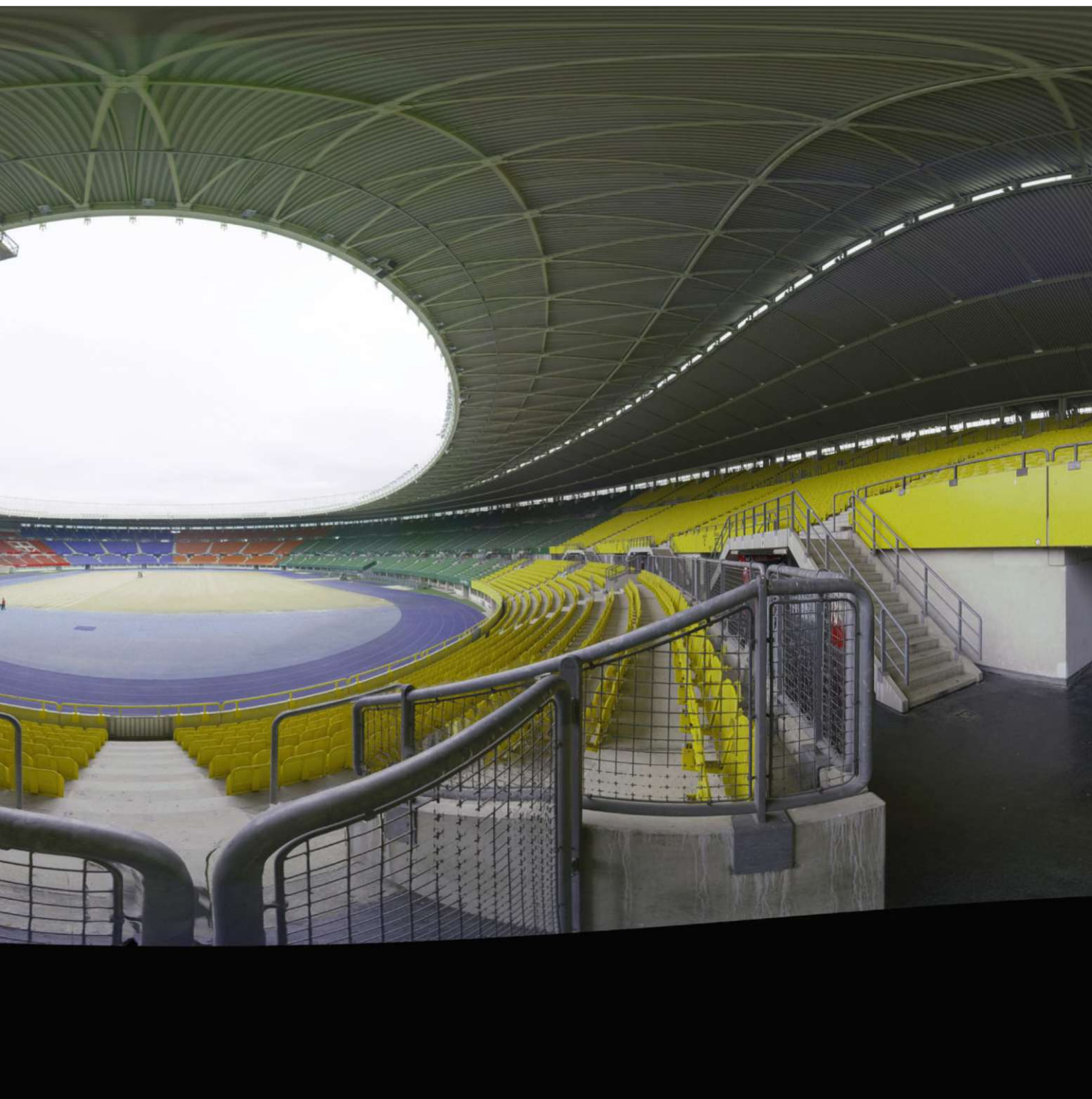
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_094.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

X = -63035.35019

Y = 49348.65729

Z = 7262.30305



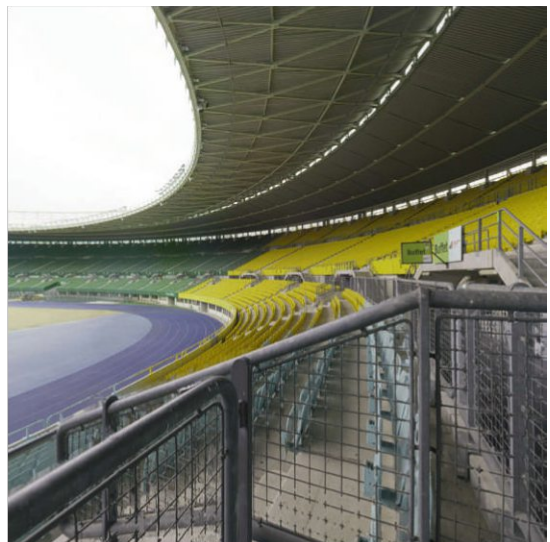
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_095_0.jpeg



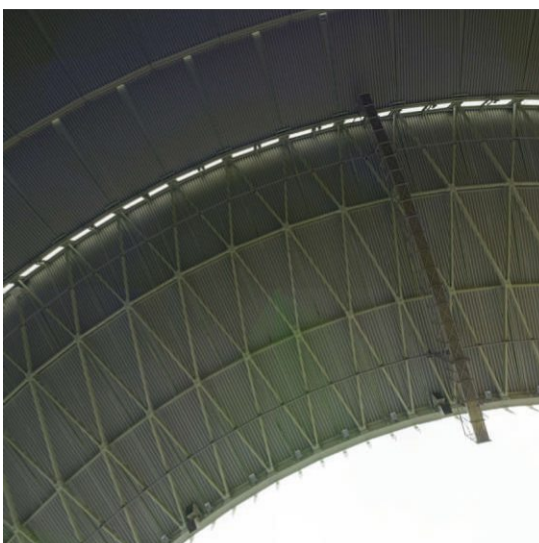
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_095_1.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_095_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_095_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_095_4.jpeg

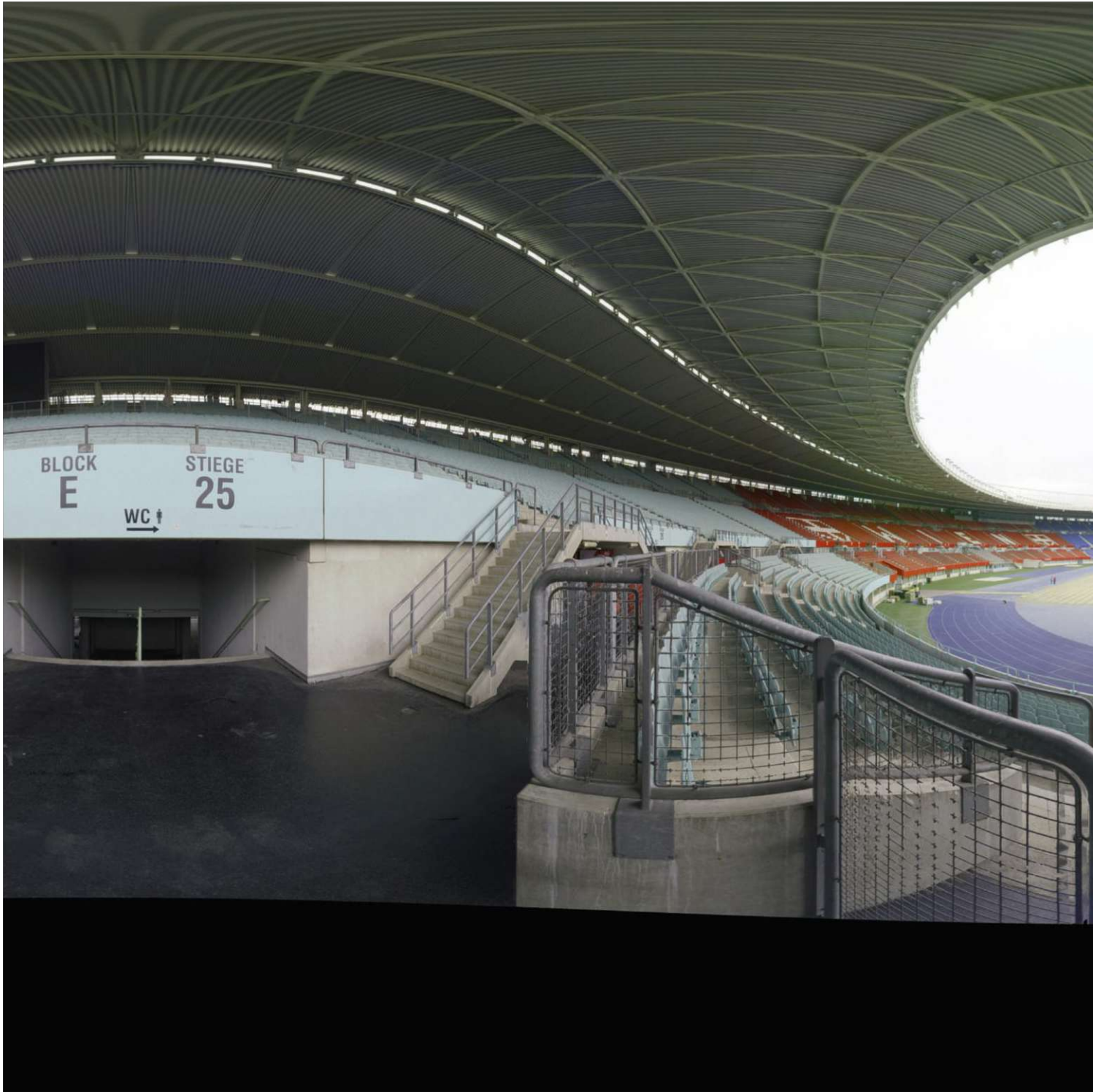


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_095_5.jpeg

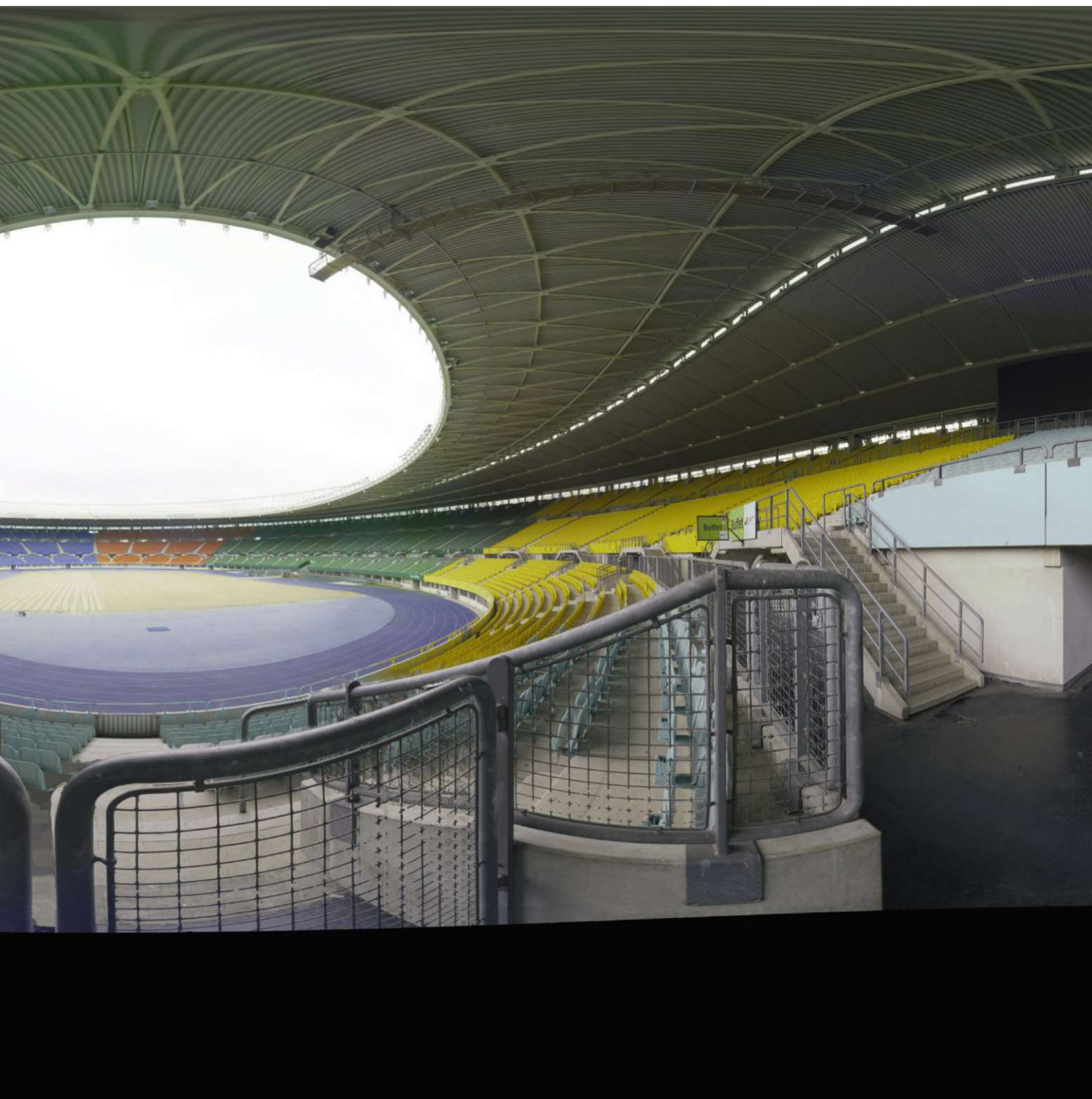
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_095.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

$X = -62605.58498$

$Y = 76755.44012$

$Z = 9711.38939$



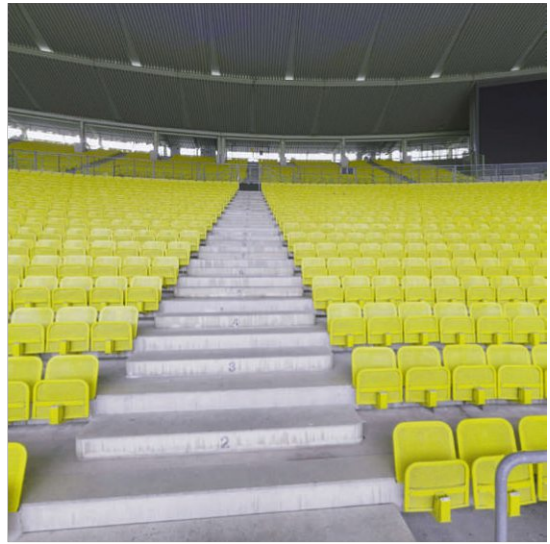
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_096_0.jpeg



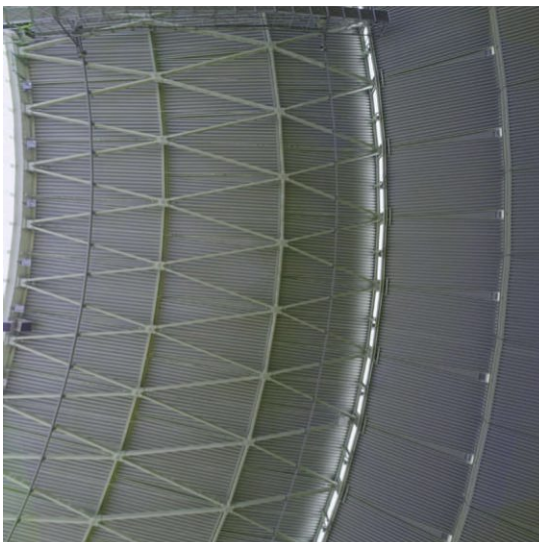
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_096_1.jpeg



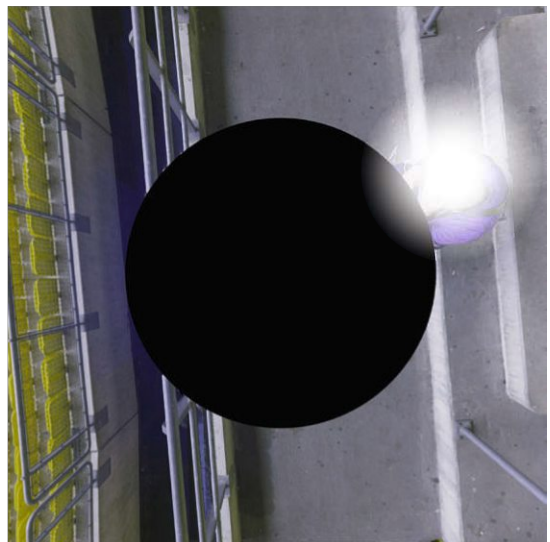
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_096_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_096_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_096_4.jpeg

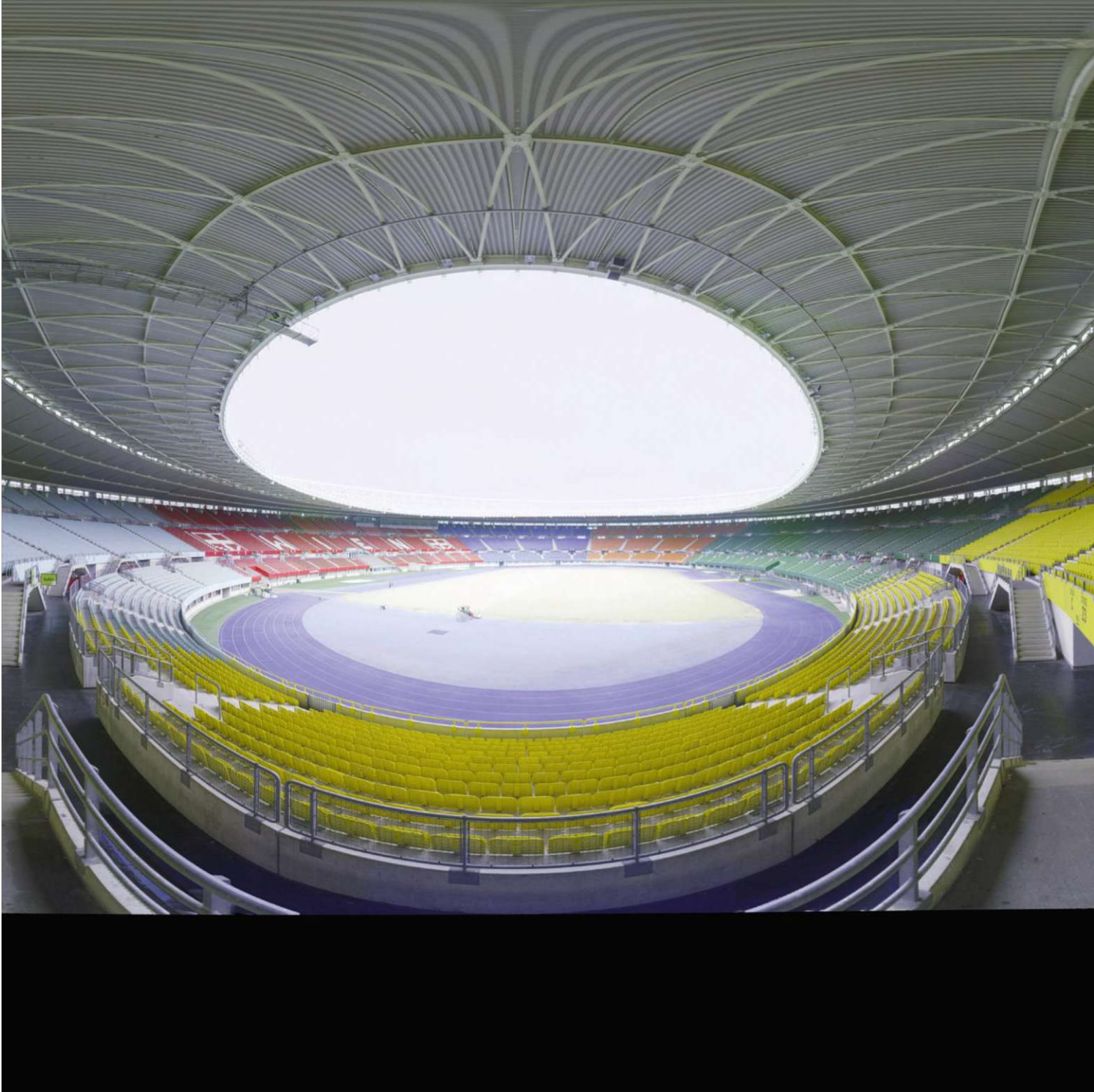


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_096_5.jpeg

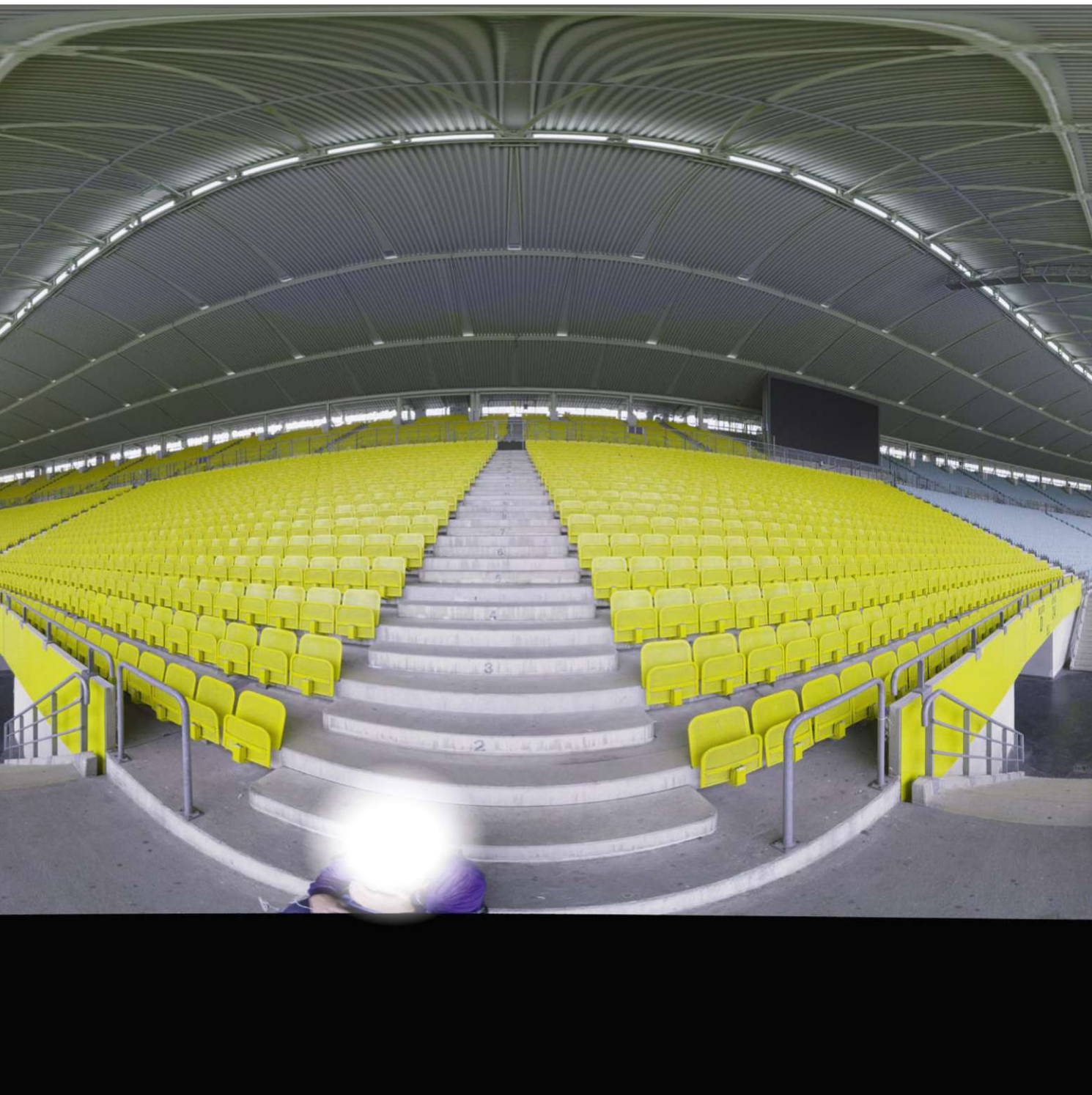
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_096.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

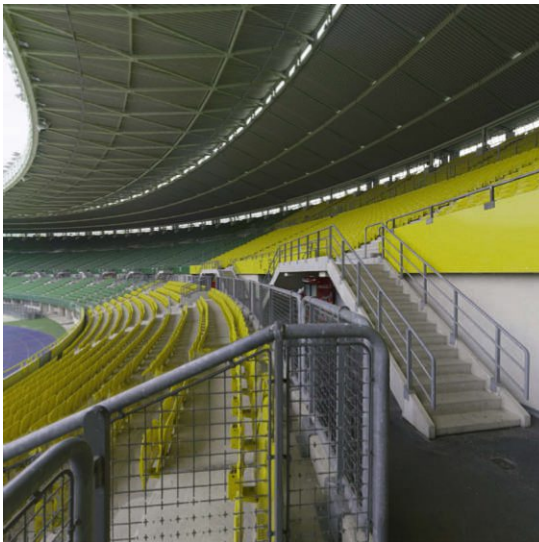
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

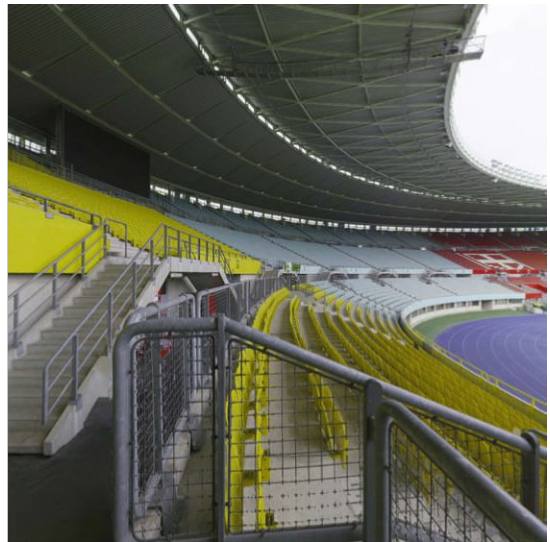
$X = -68966.84049$

$Y = 84489.09803$

$Z = 7358.09615$



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_097_0.jpeg



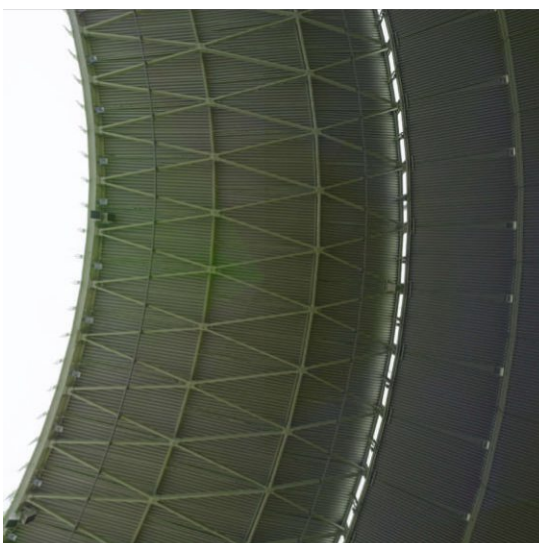
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_097_1.jpeg



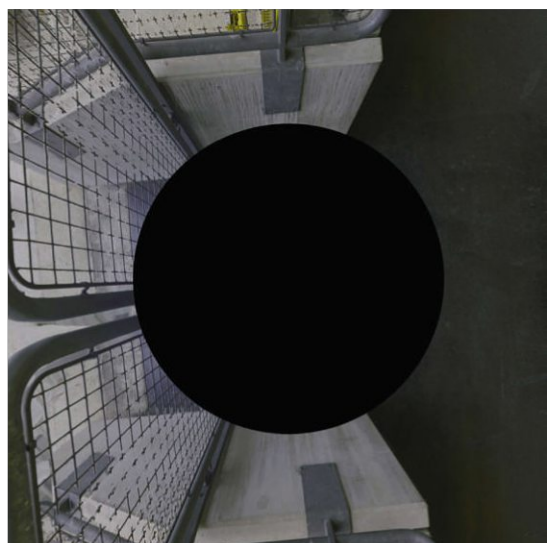
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_097_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_097_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_097_4.jpeg

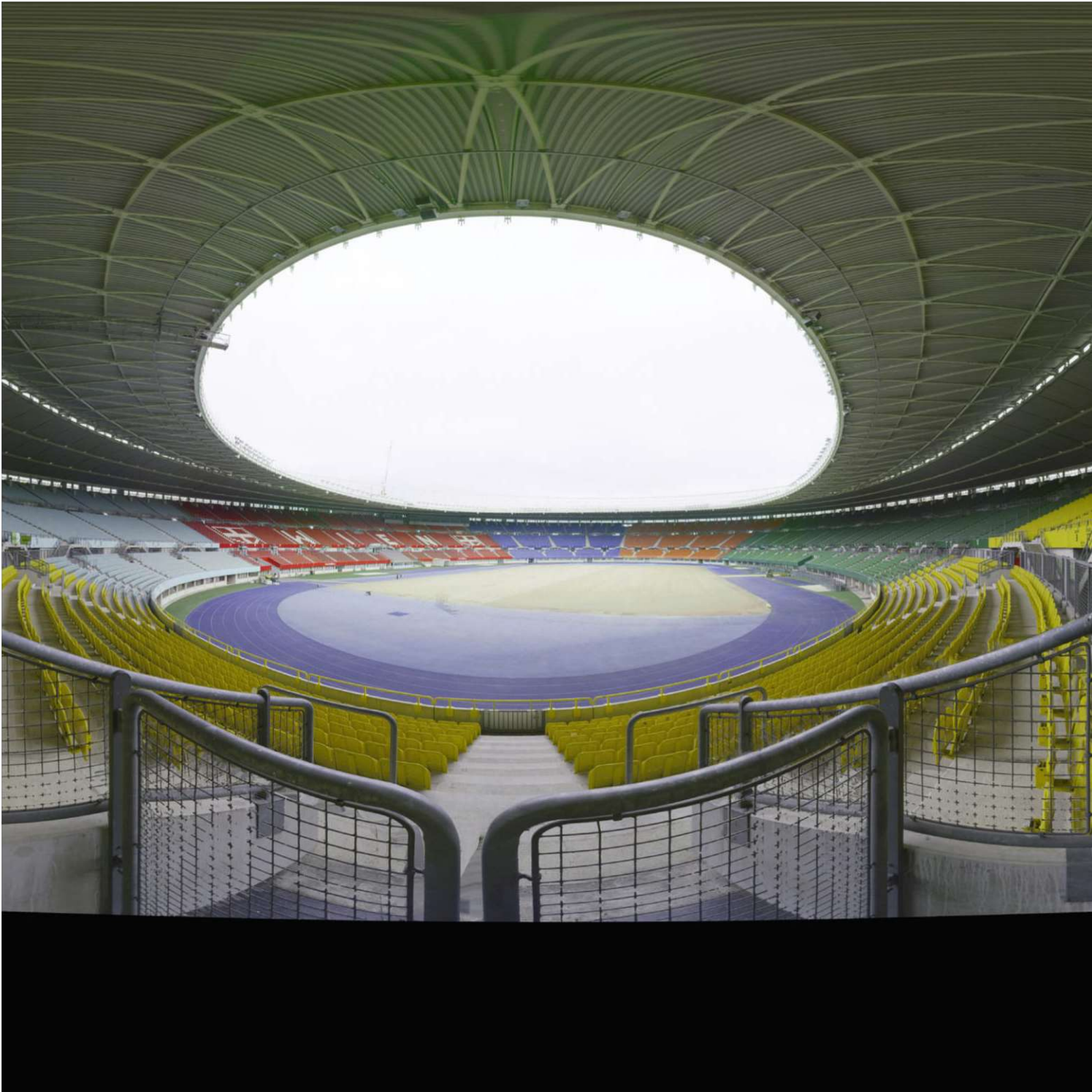


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_097_5.jpeg

DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_097.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

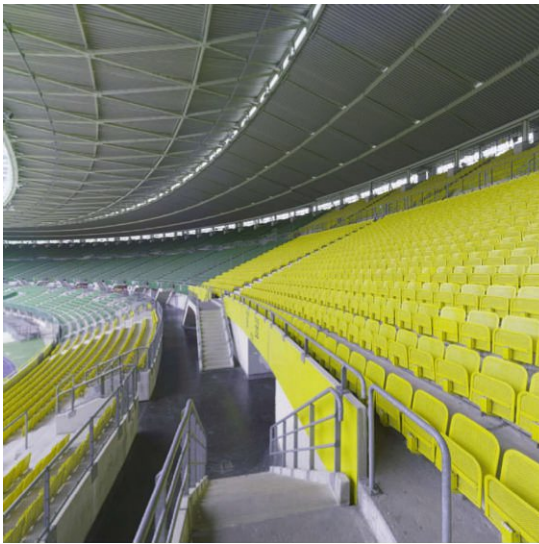
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

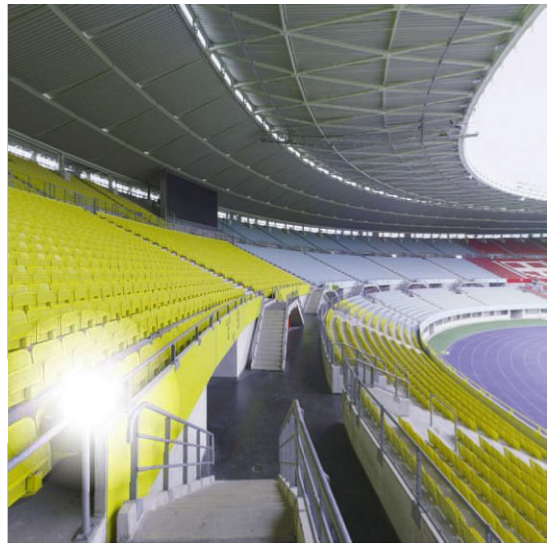
$X = -71045.51685$

$Y = 93853.90904$

$Z = 9834.13769$



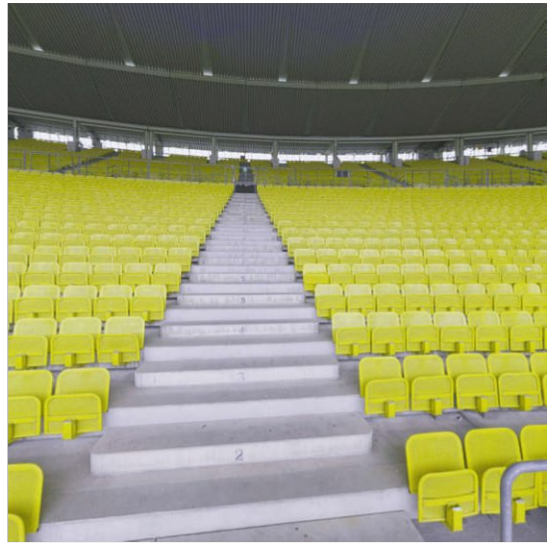
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_098_0.jpeg



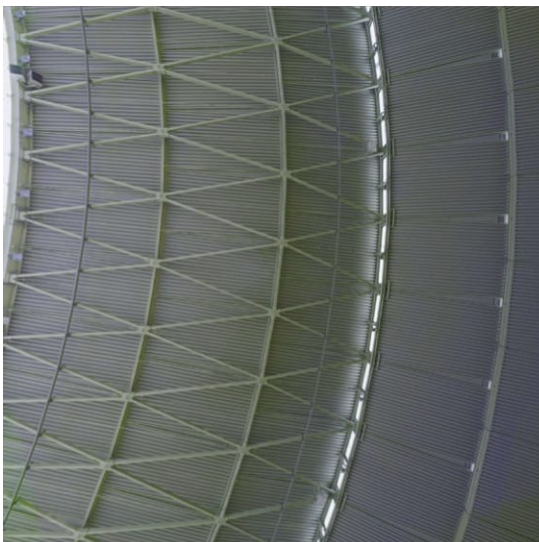
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_098_1.jpeg



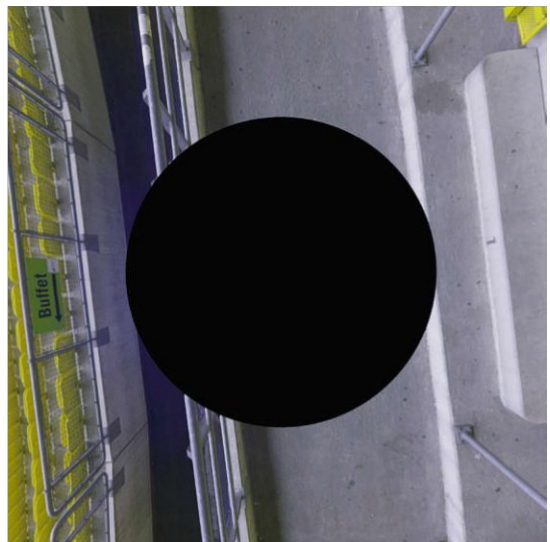
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_098_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_098_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_098_4.jpeg

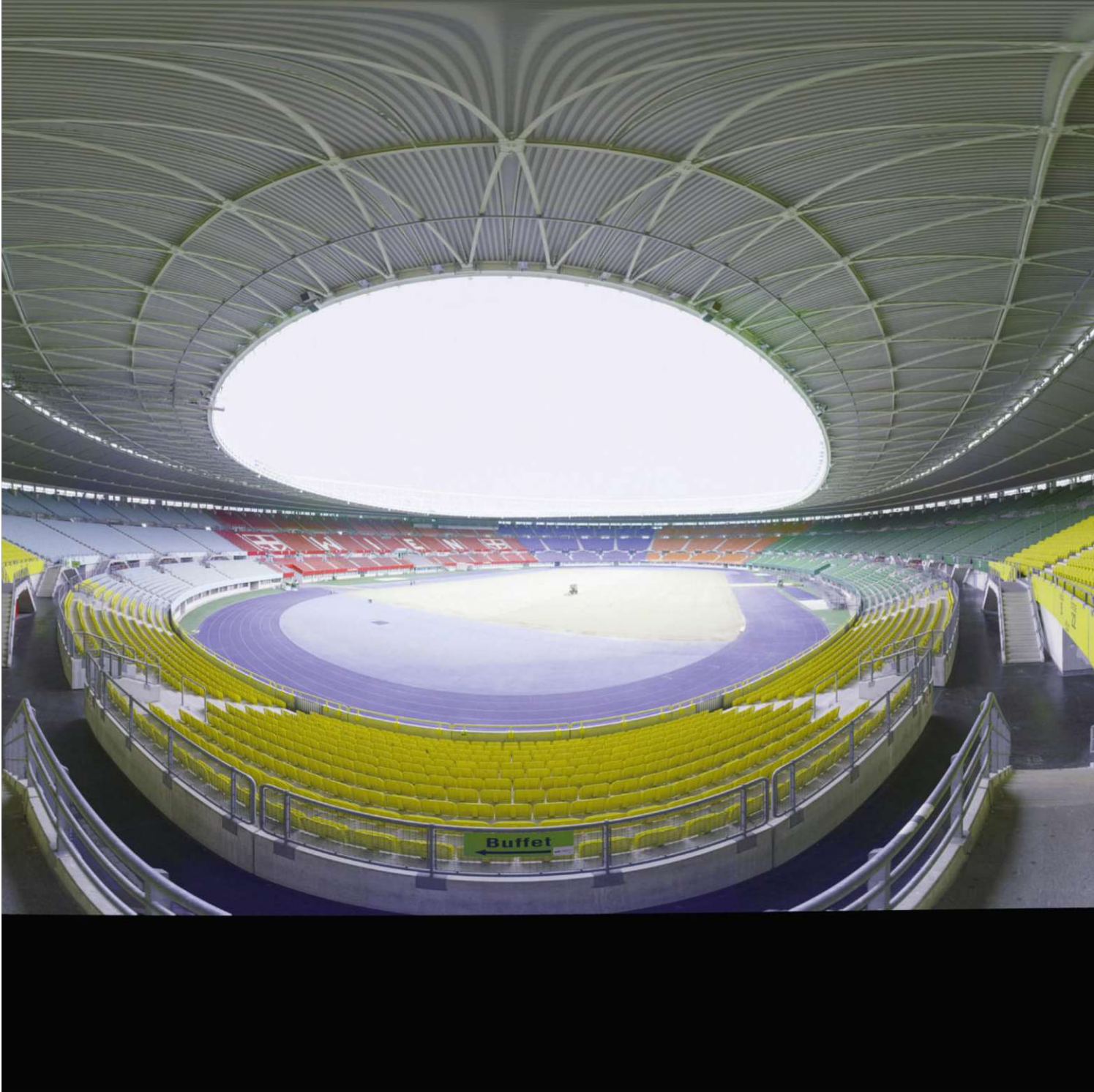


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_098_5.jpeg

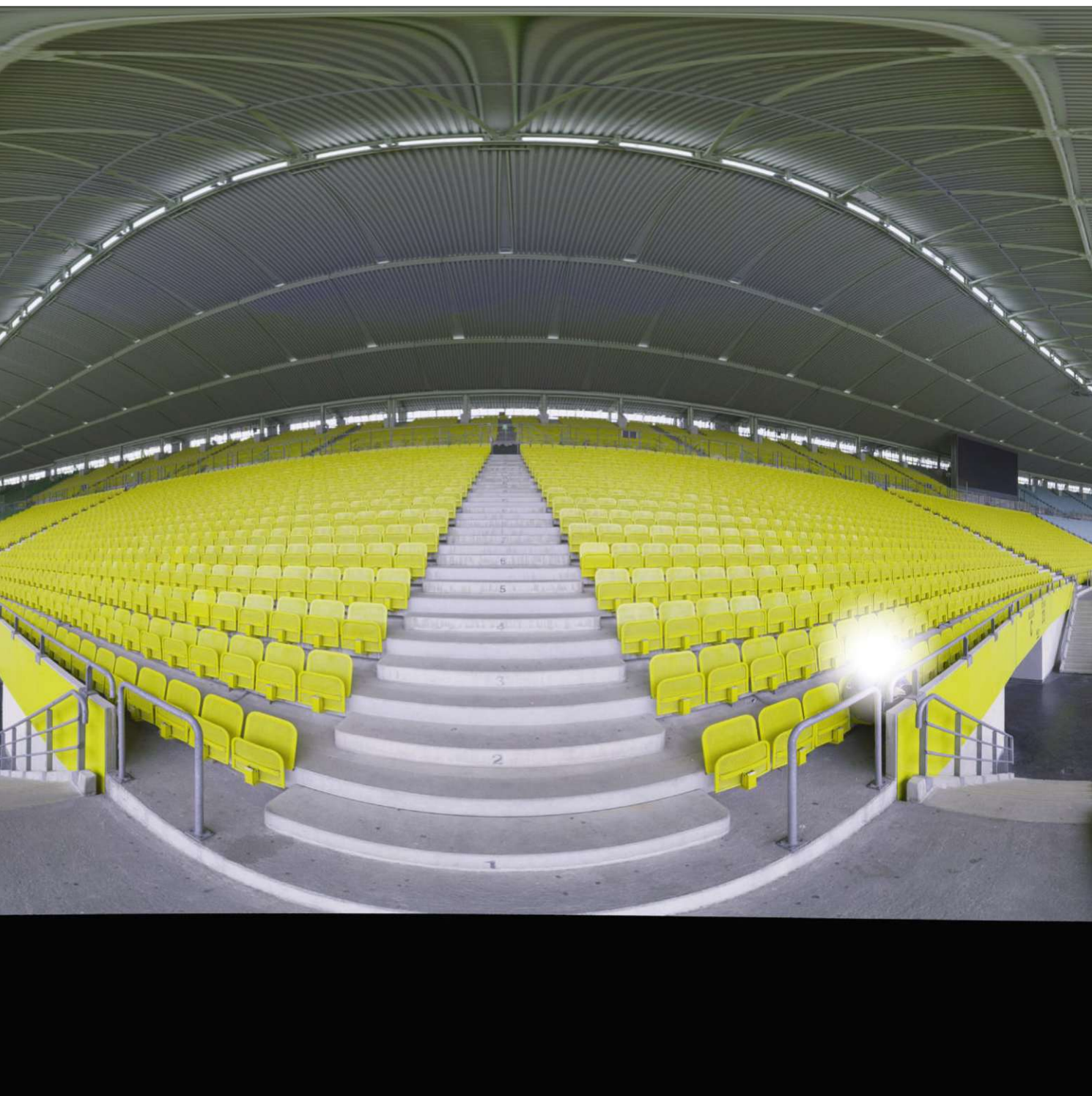
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_098.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

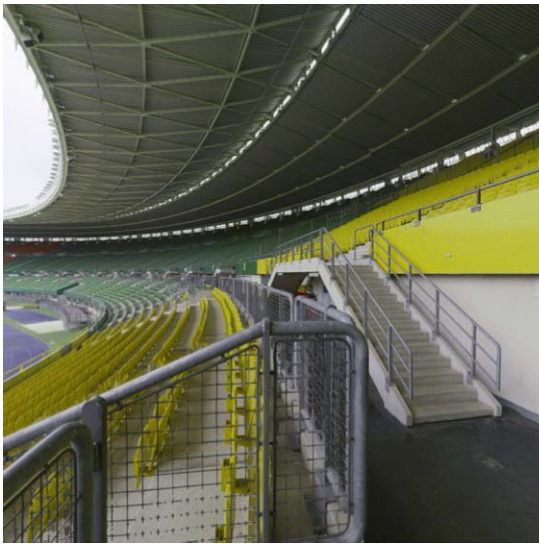
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

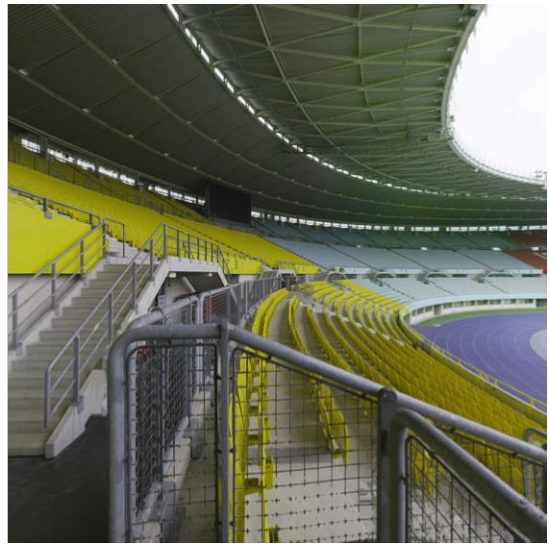
X = -79231.99821

Y = 99296.21446

Z = 7367.96701



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_099_0.jpeg



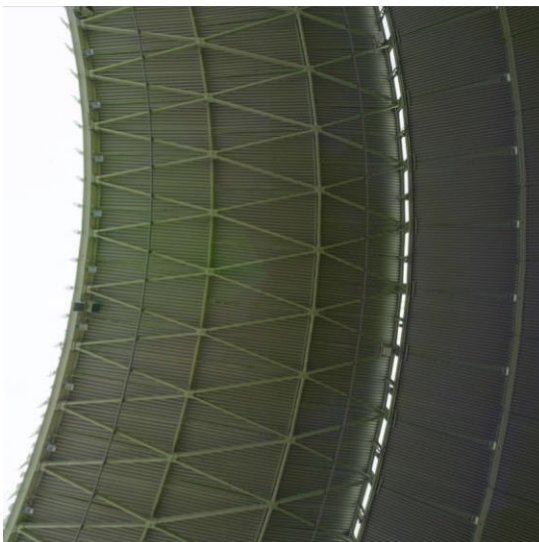
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_099_1.jpeg



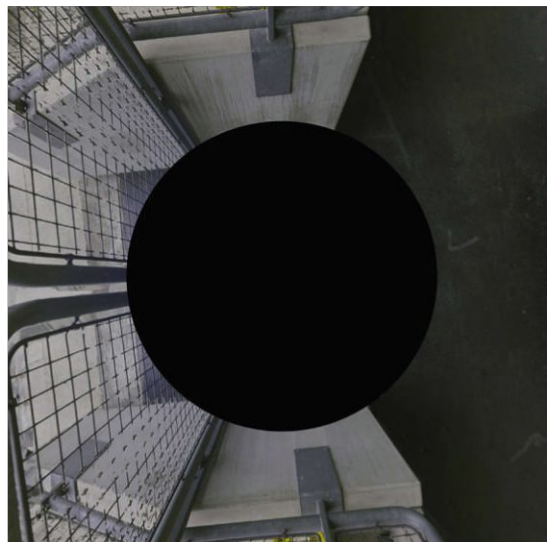
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_099_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_099_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_099_4.jpeg

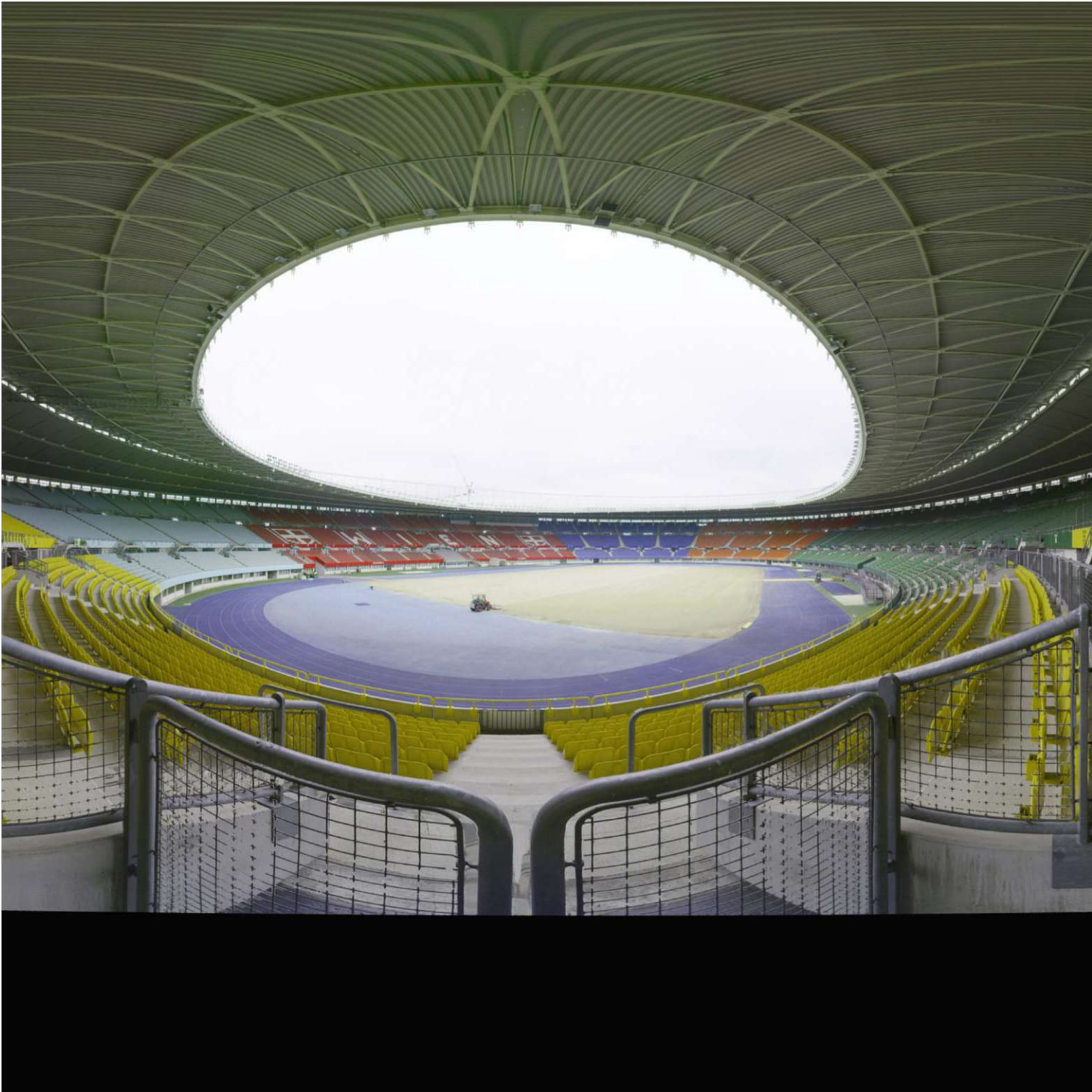


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_099_5.jpeg

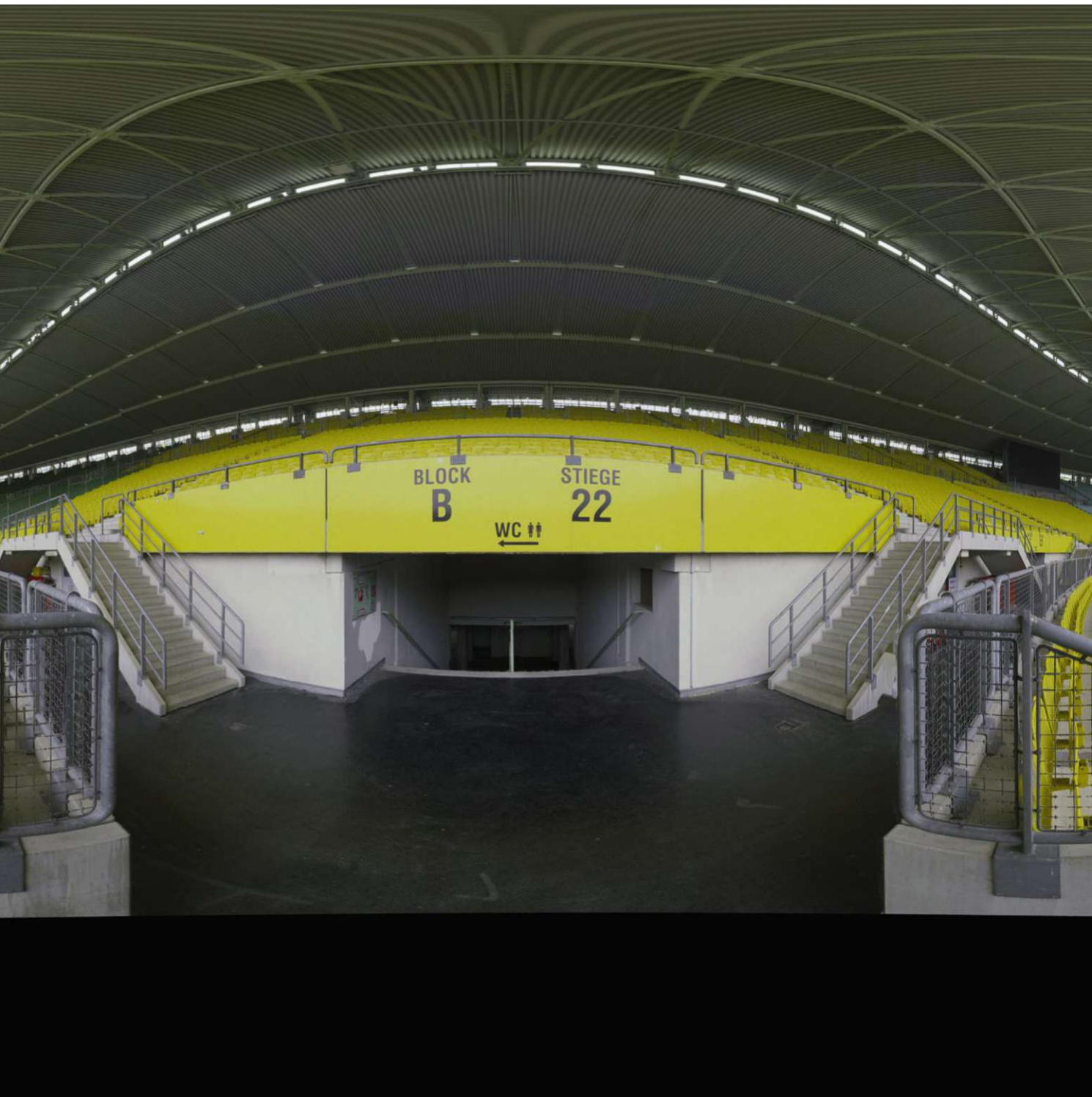
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_099.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

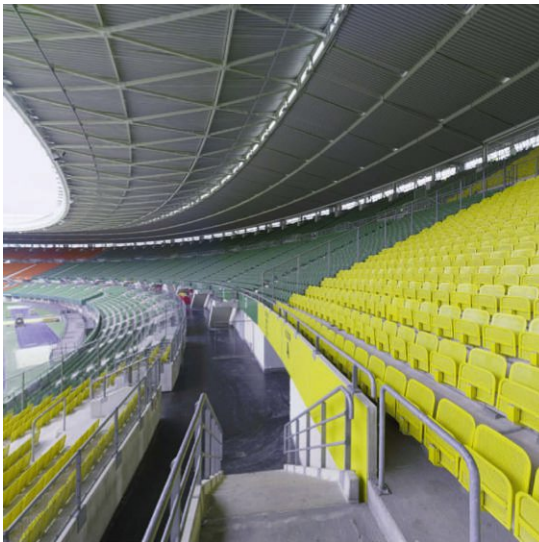
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

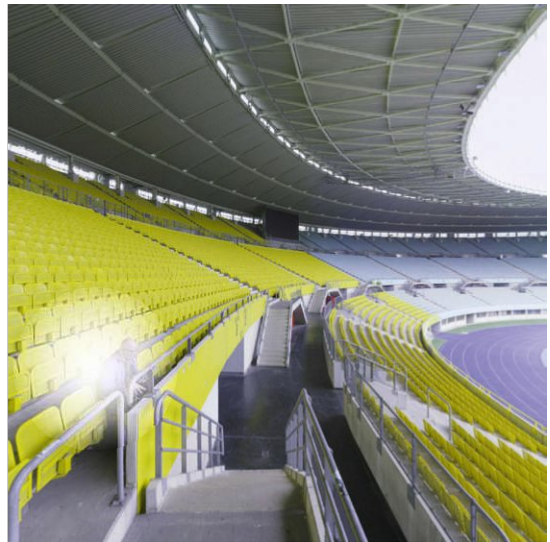
$X = -84349.0814$

$Y = 108030.56863$

$Z = 9827.6569$



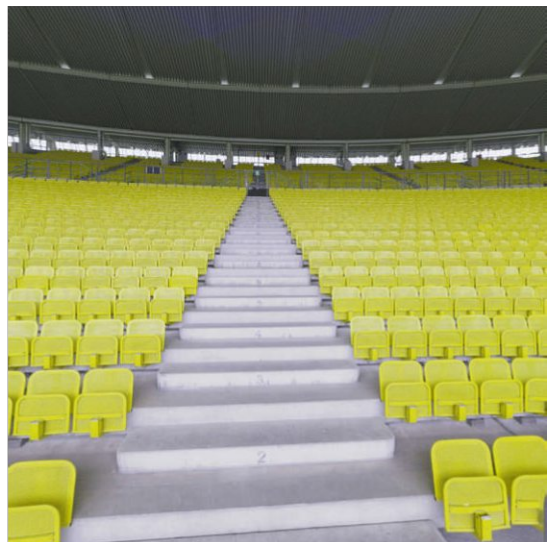
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_100_0.jpeg



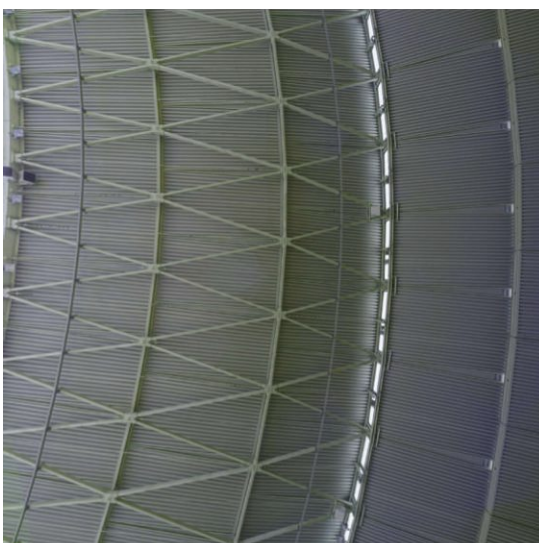
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_100_1.jpeg



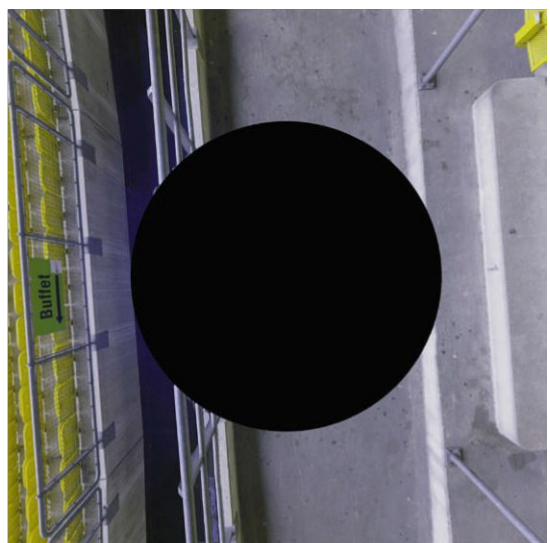
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_100_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_100_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_100_4.jpeg

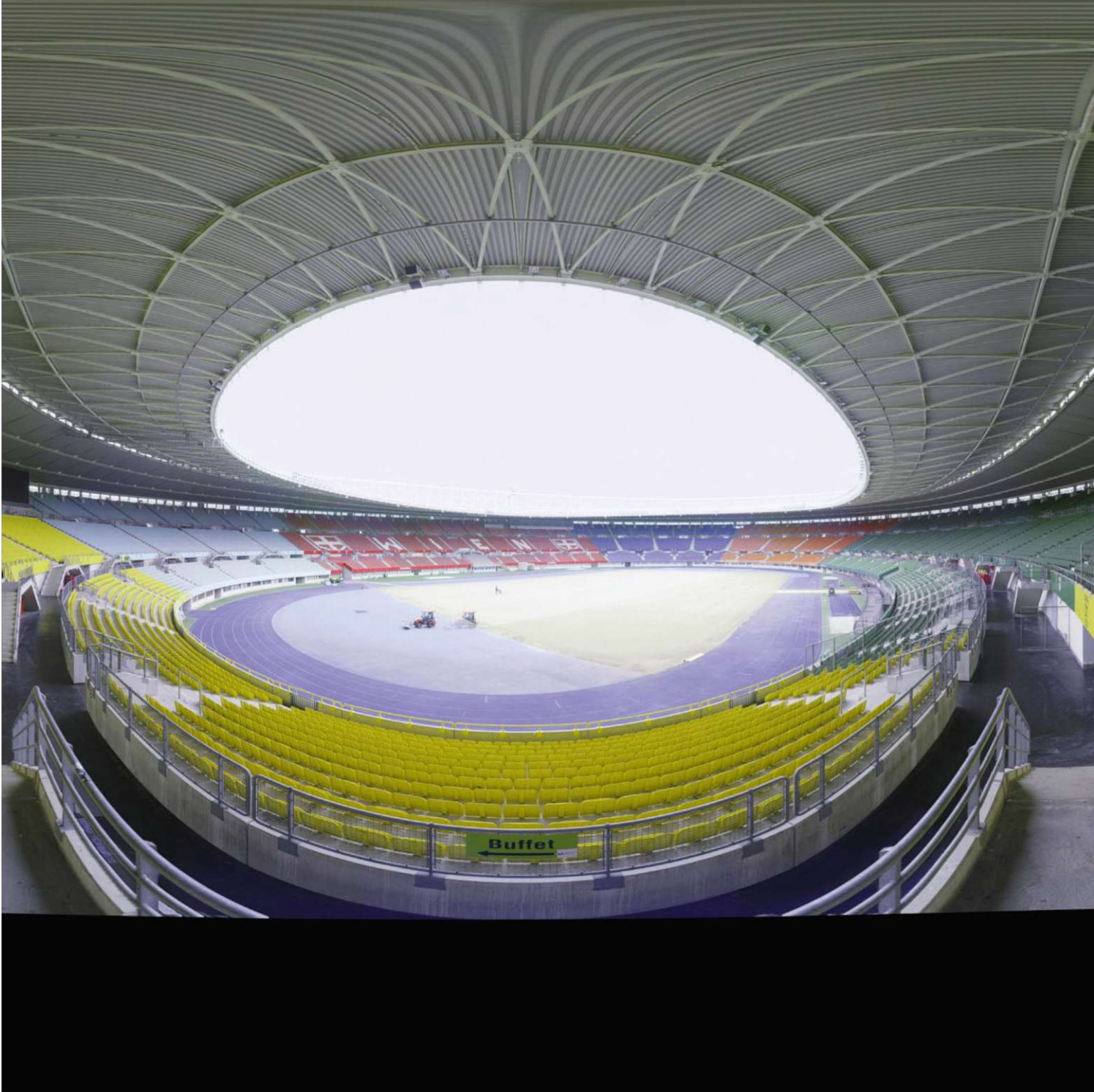


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_100_5.jpeg

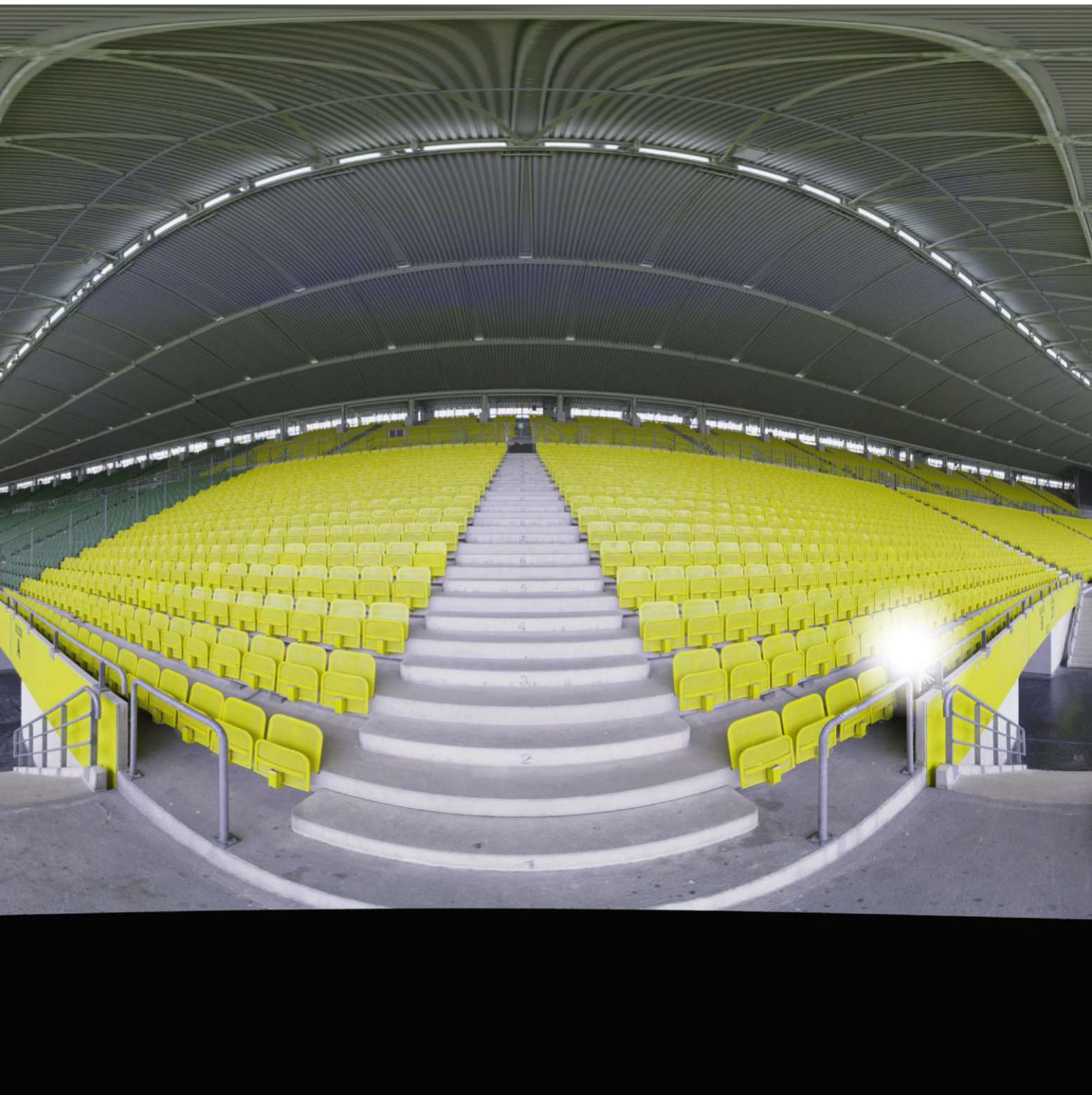
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_100.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

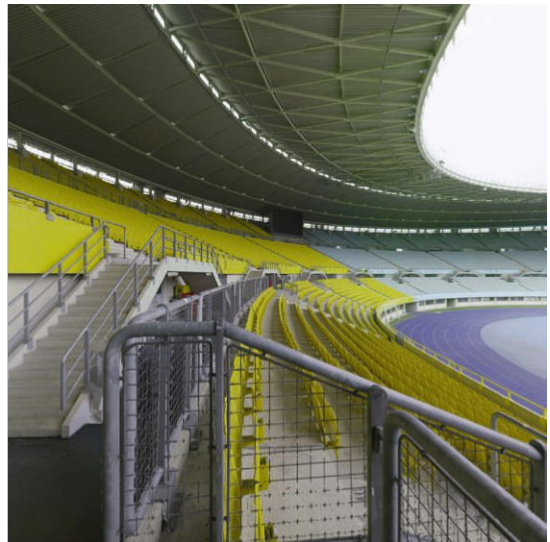
$X = -94063.45618$

$Y = 111572.48765$

$Z = 7360.59234$



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_101_0.jpeg



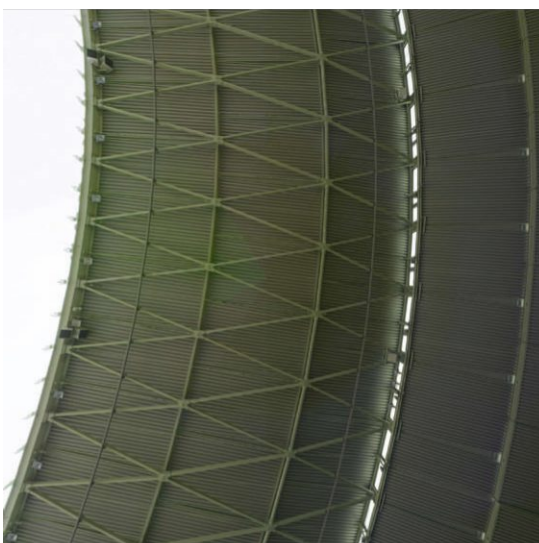
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_101_1.jpeg



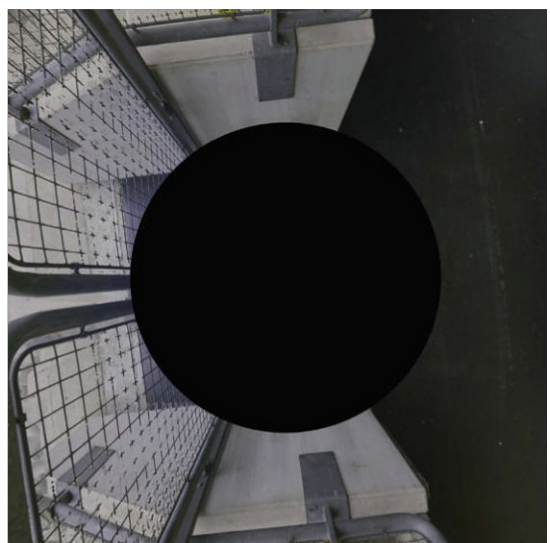
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_101_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_101_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_101_4.jpeg

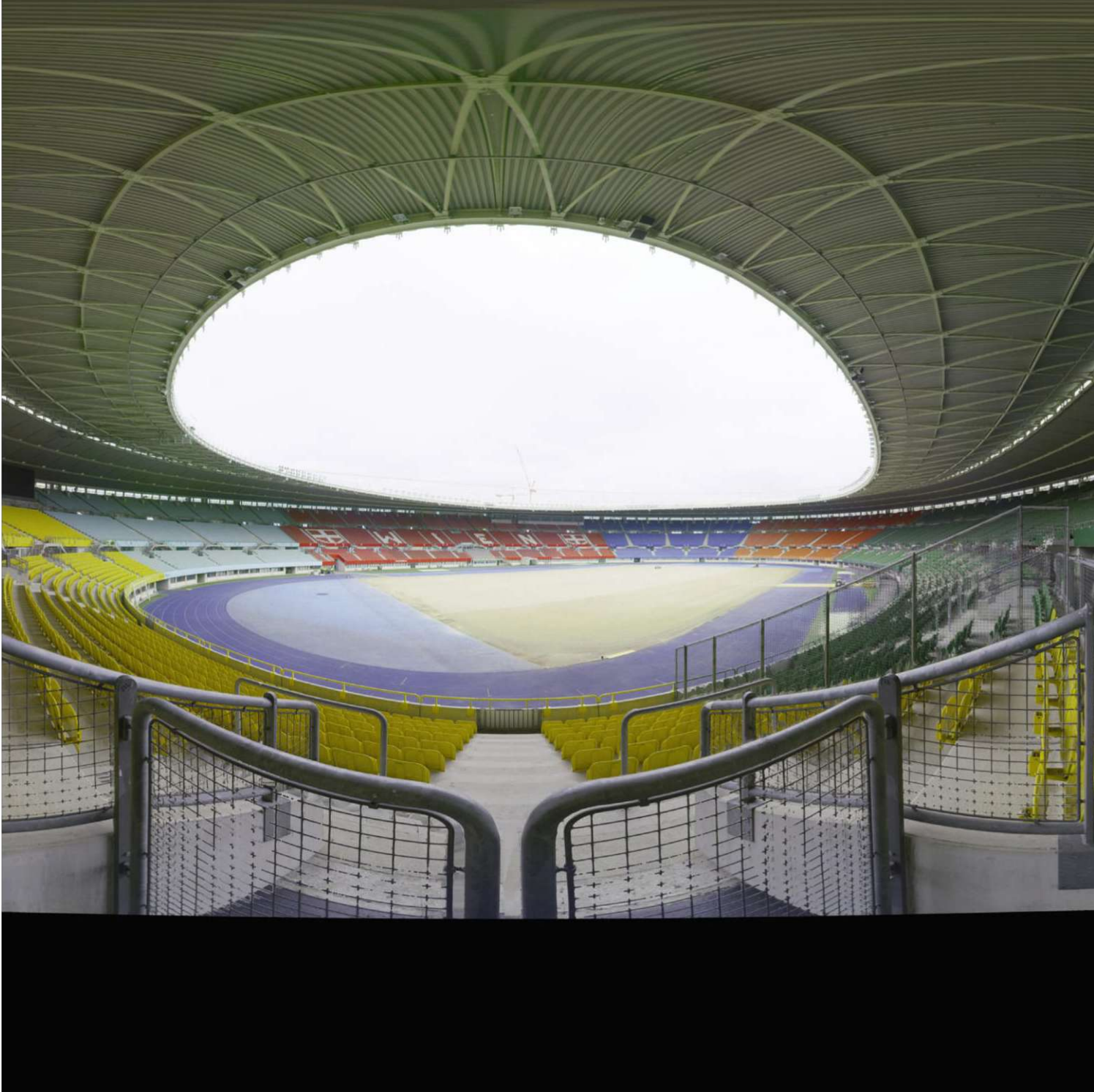


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_101_5.jpeg

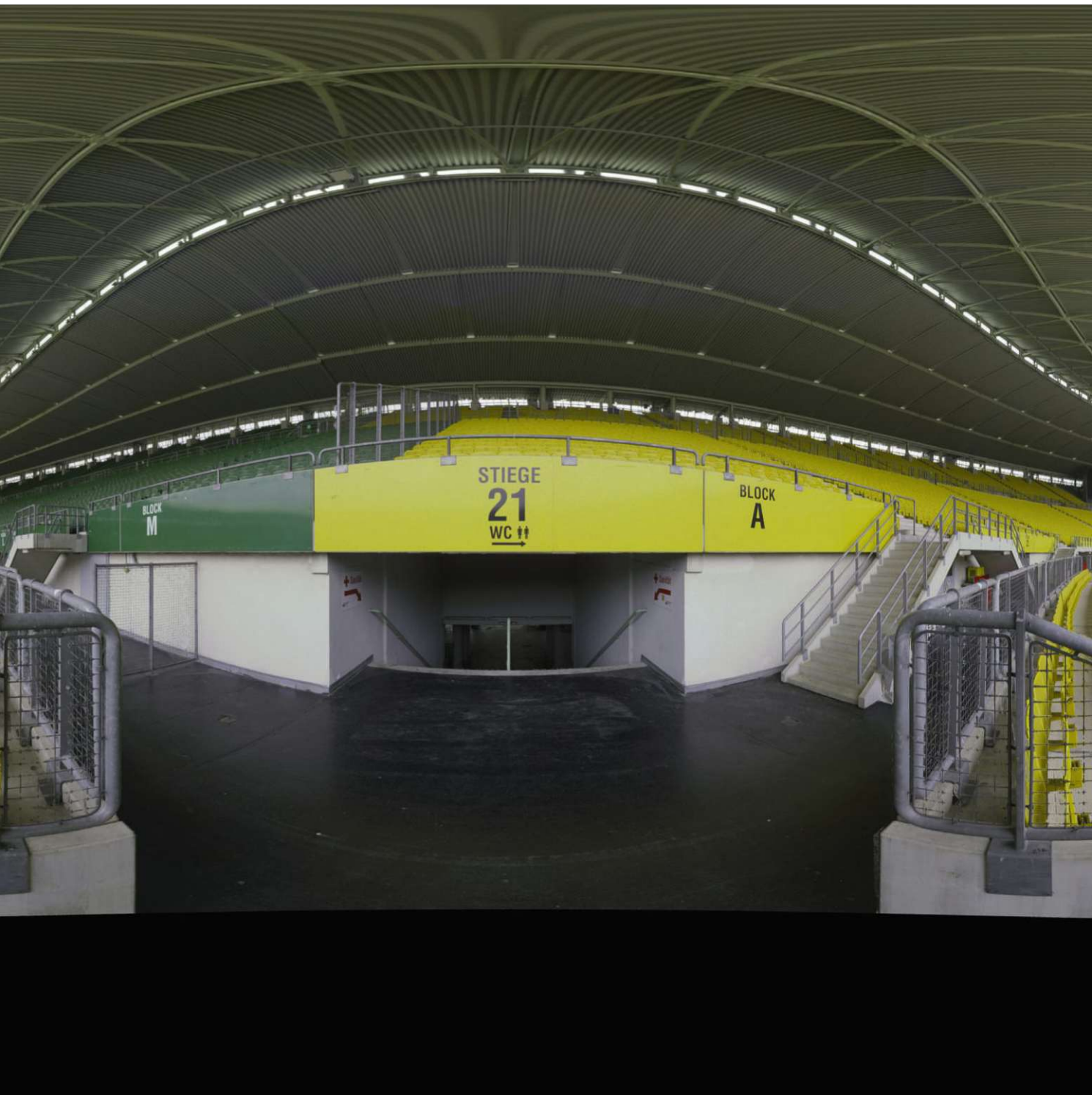
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_101.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

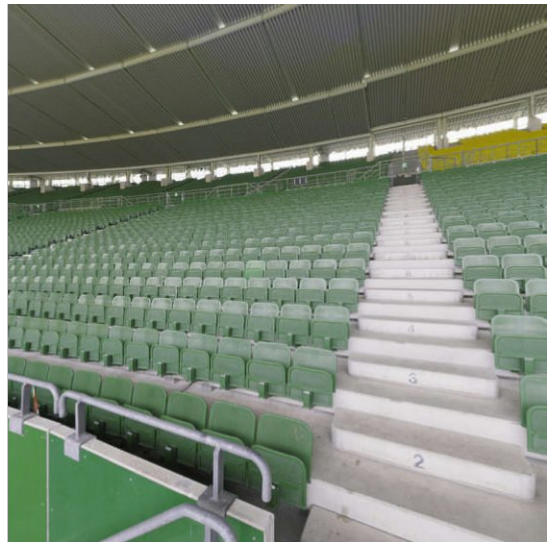
X = -101220.84983

Y = 119146.31093

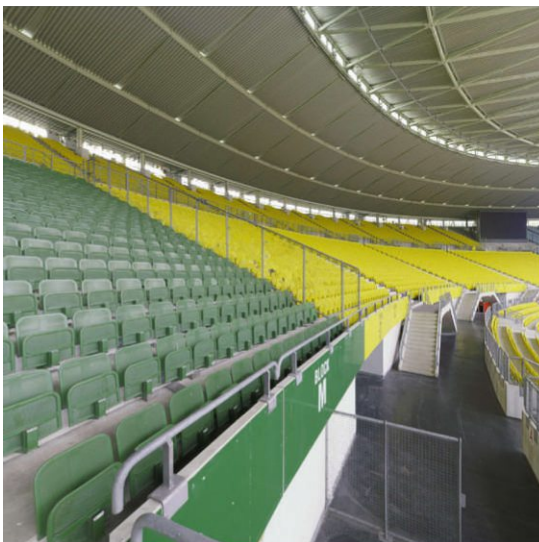
Z = 9724.64839



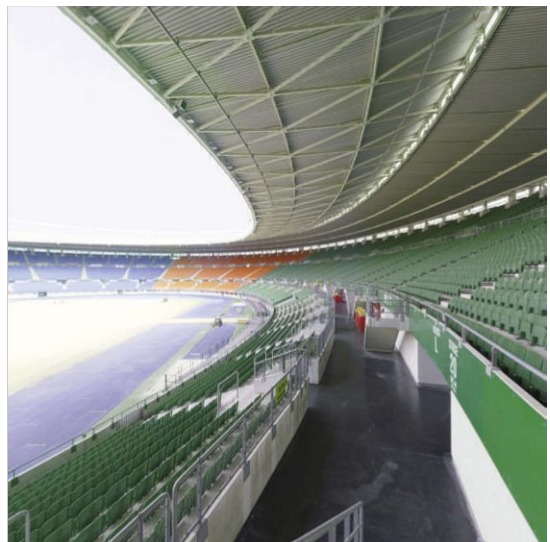
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_102_0.jpeg



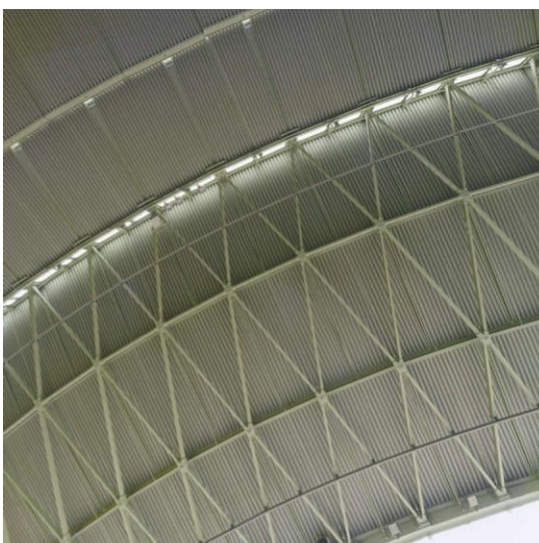
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_102_1.jpeg



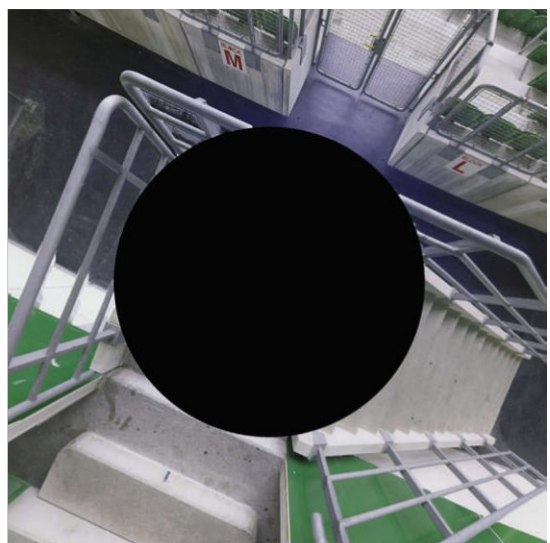
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_102_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_102_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_102_4.jpeg

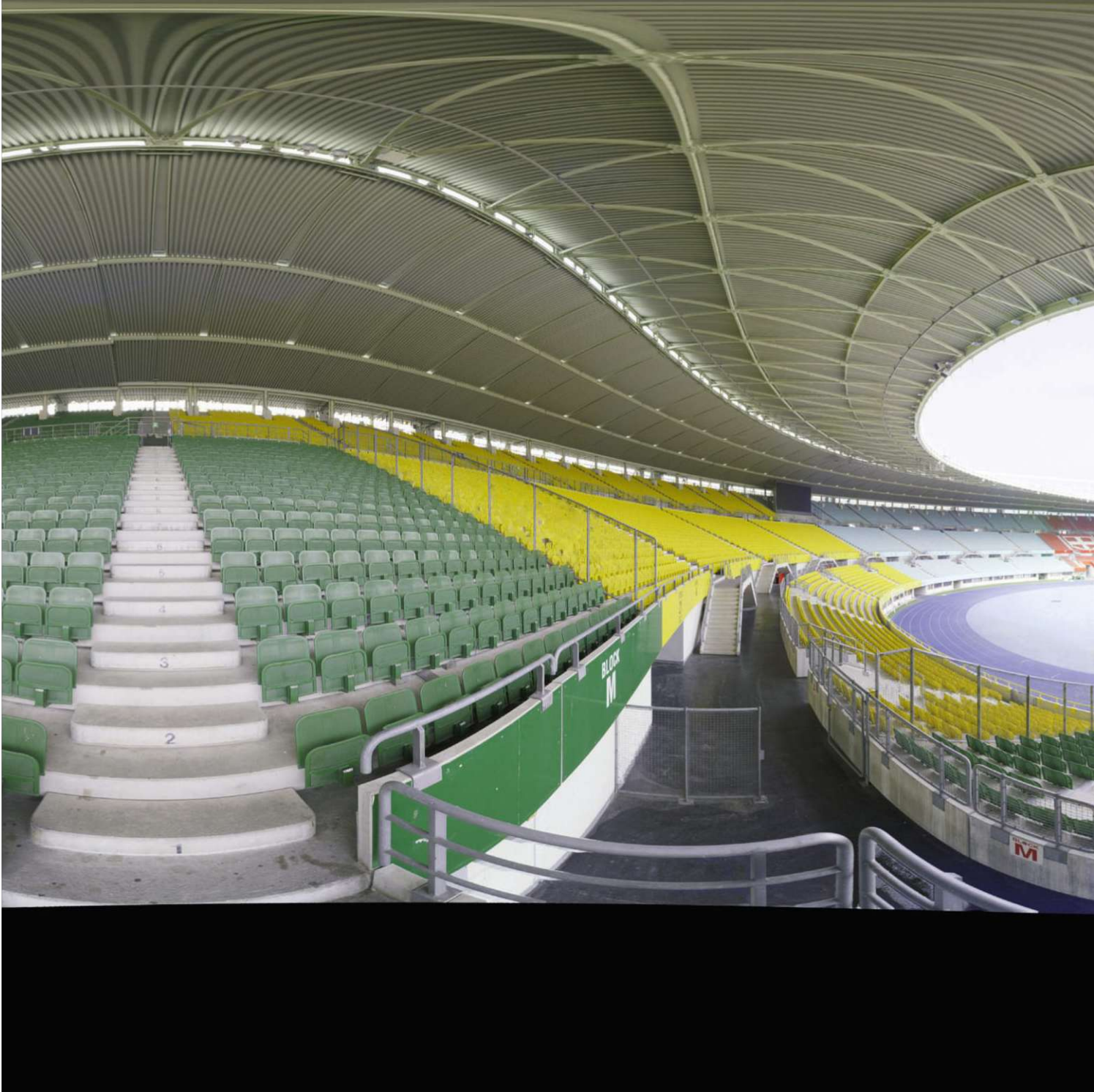


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_102_5.jpeg

DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_102.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

X = -111440.09304

Y = 120447.446

Z = 7294.02431



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_103_0.jpeg



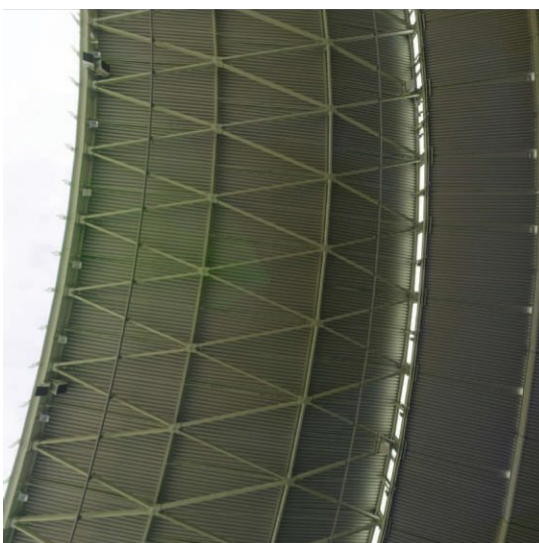
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_103_1.jpeg



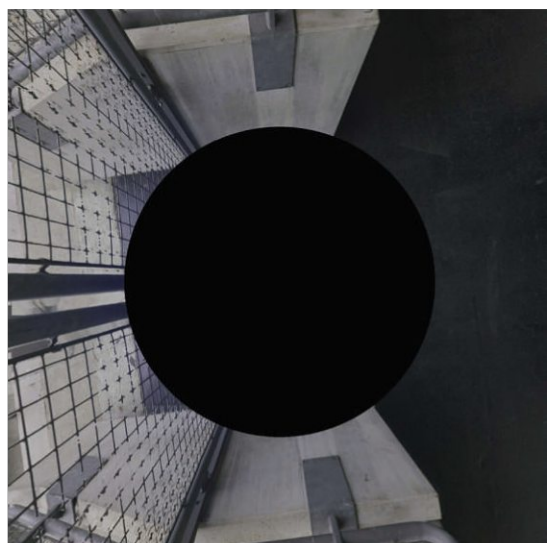
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_103_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_103_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_103_4.jpeg

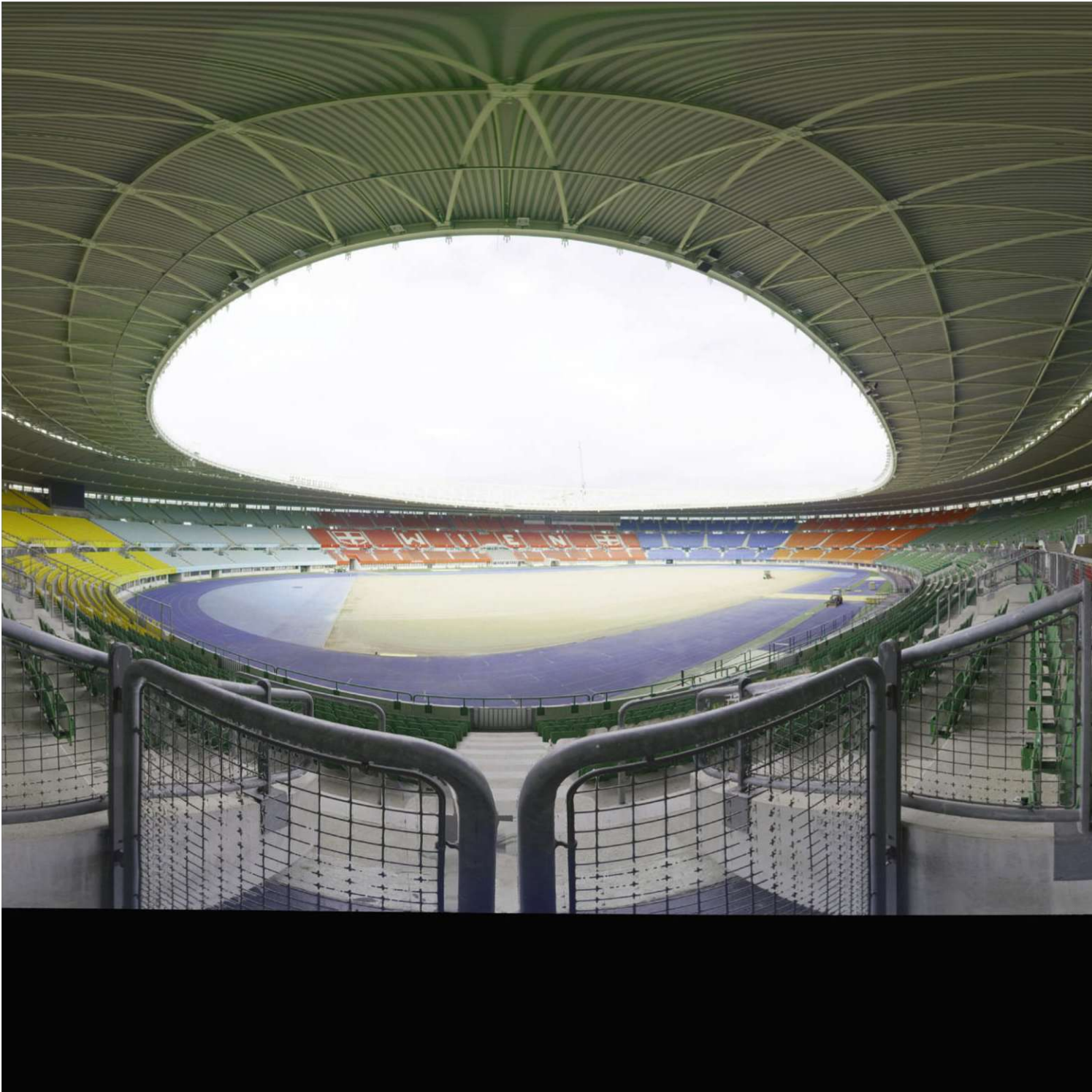


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_103_5.jpeg

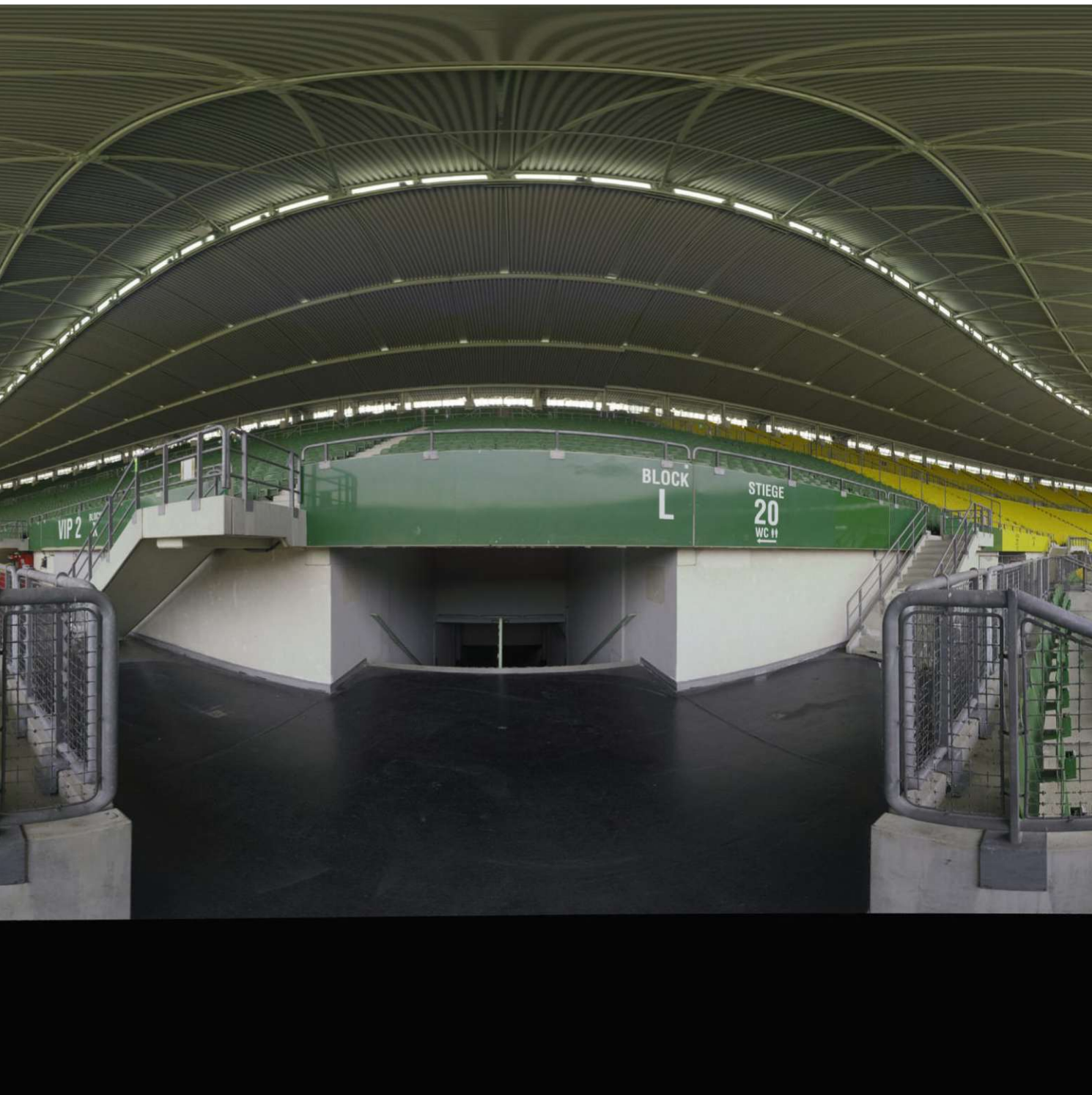
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_103.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

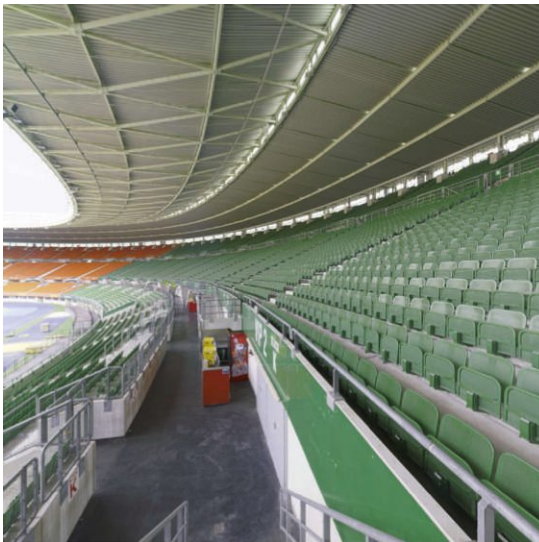
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

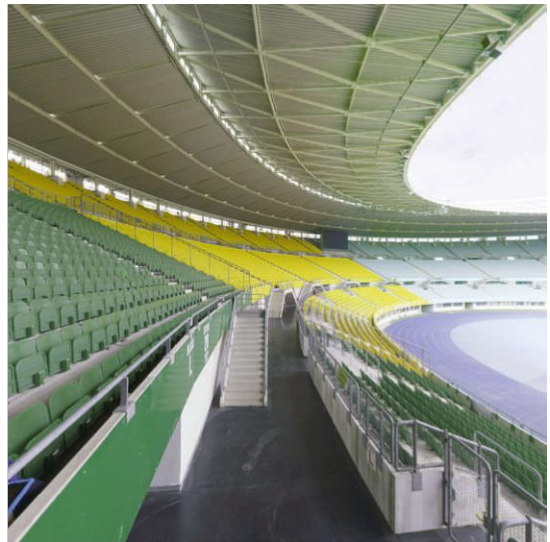
$X = -113540.60678$

$Y = 124517.04838$

$Z = 9736.127$



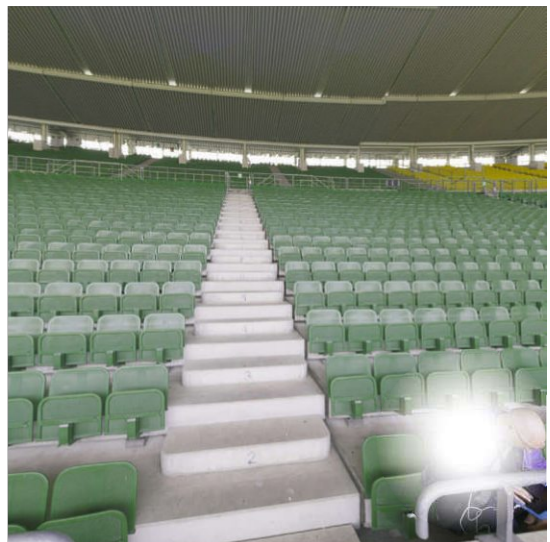
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_104_0.jpeg



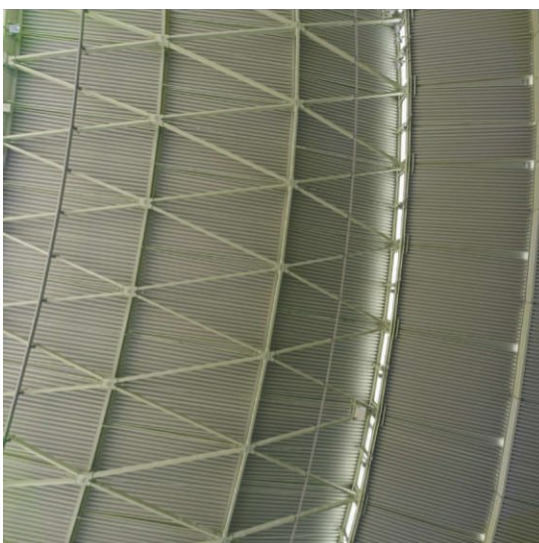
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_104_1.jpeg



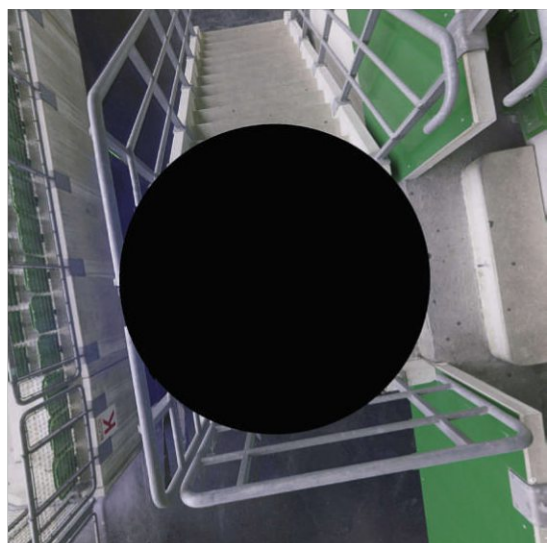
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_104_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_104_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_104_4.jpeg

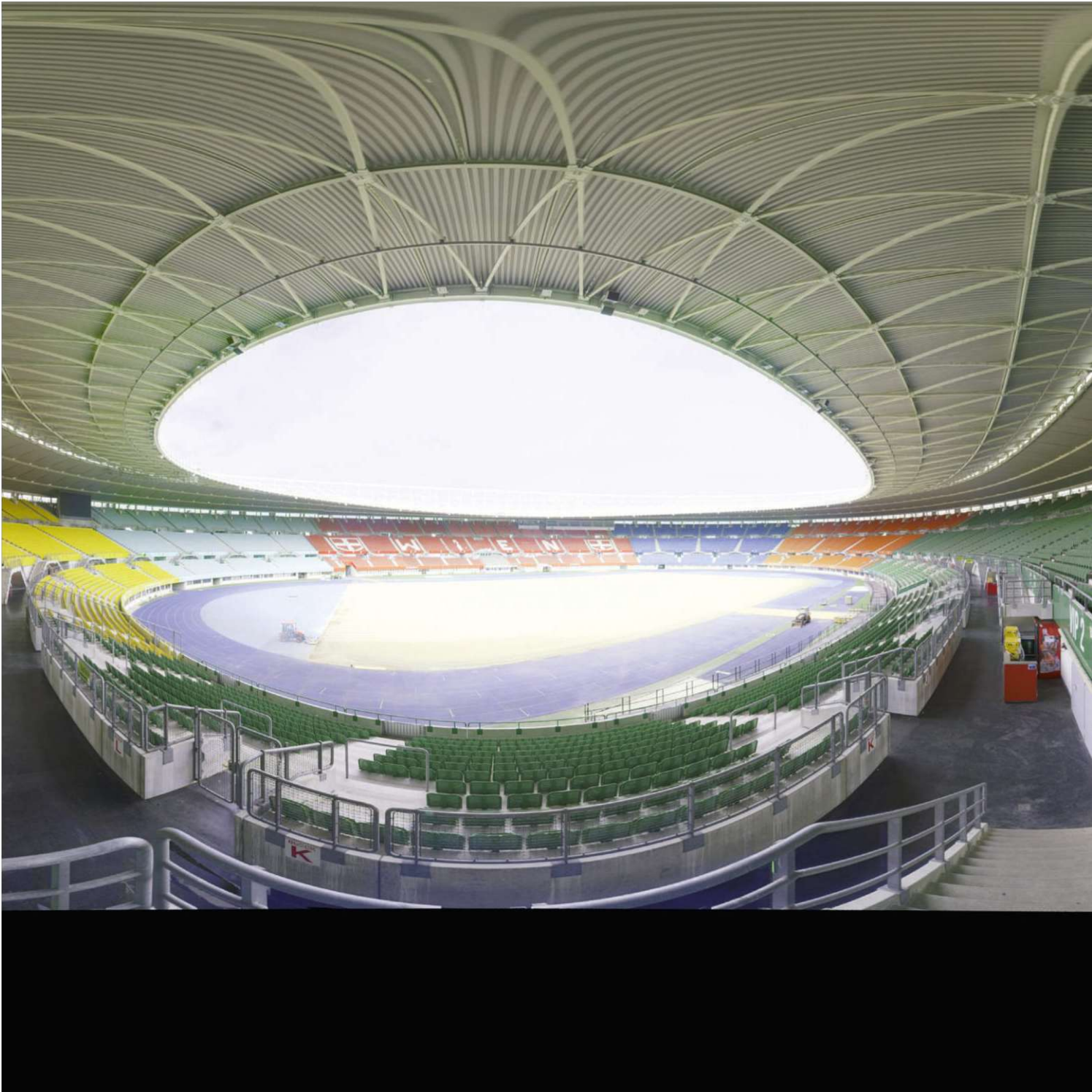


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_104_5.jpeg

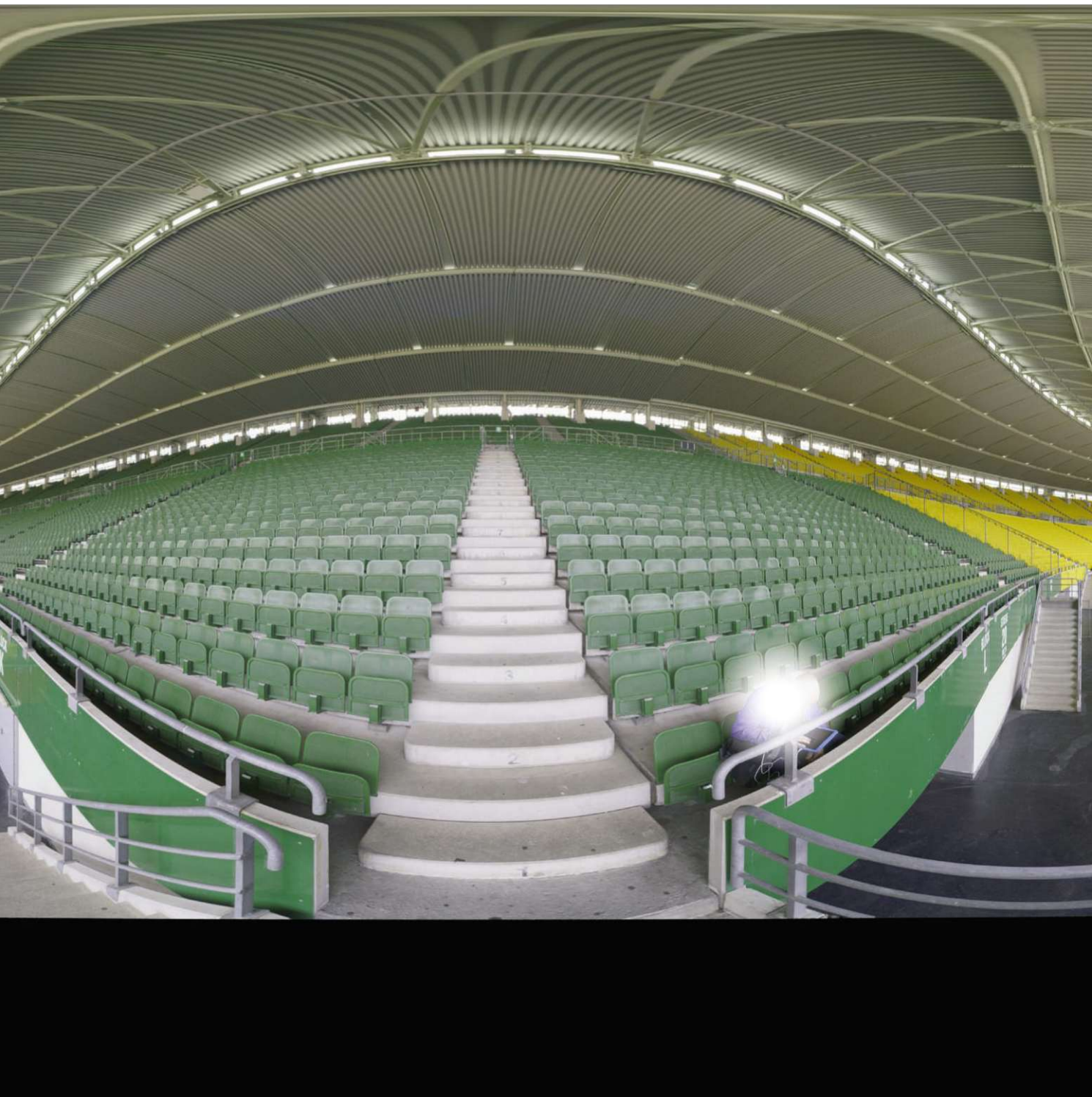
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_104.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

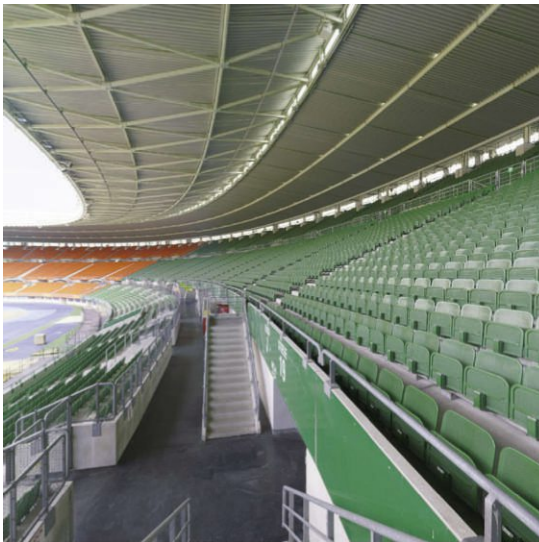
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

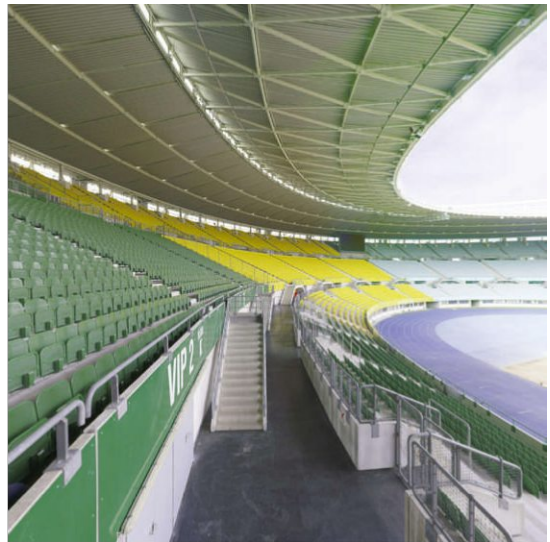
$X = -125118.35518$

$Y = 127851.82975$

$Z = 9730.02786$



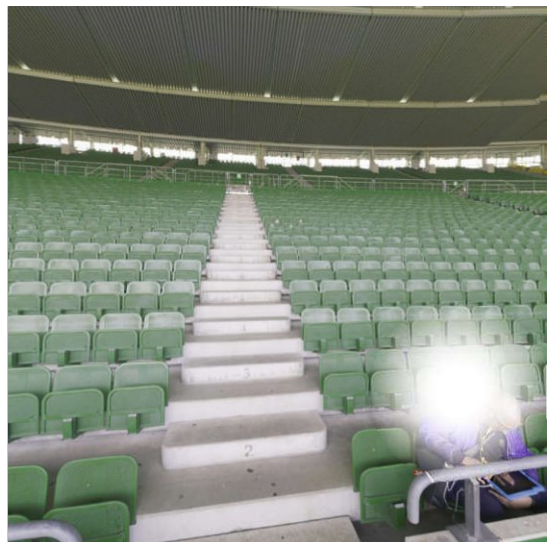
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_105_0.jpeg



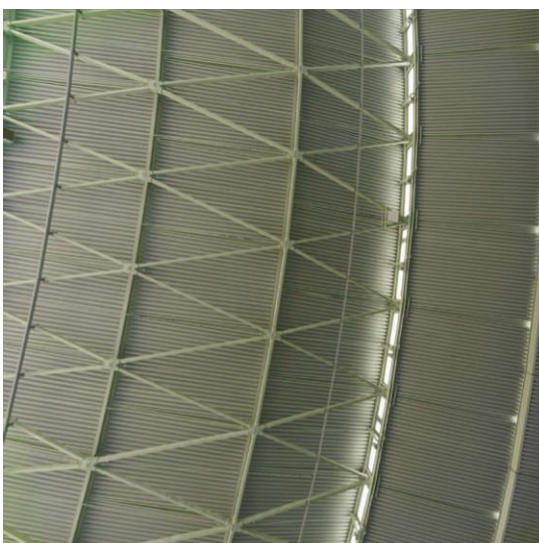
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_105_1.jpeg



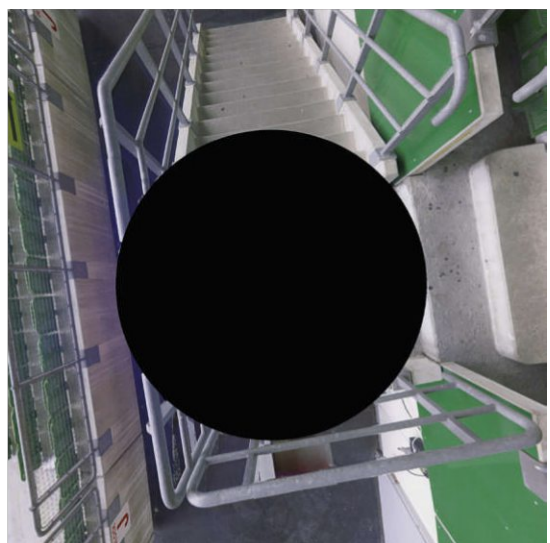
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_105_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_105_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_105_4.jpeg

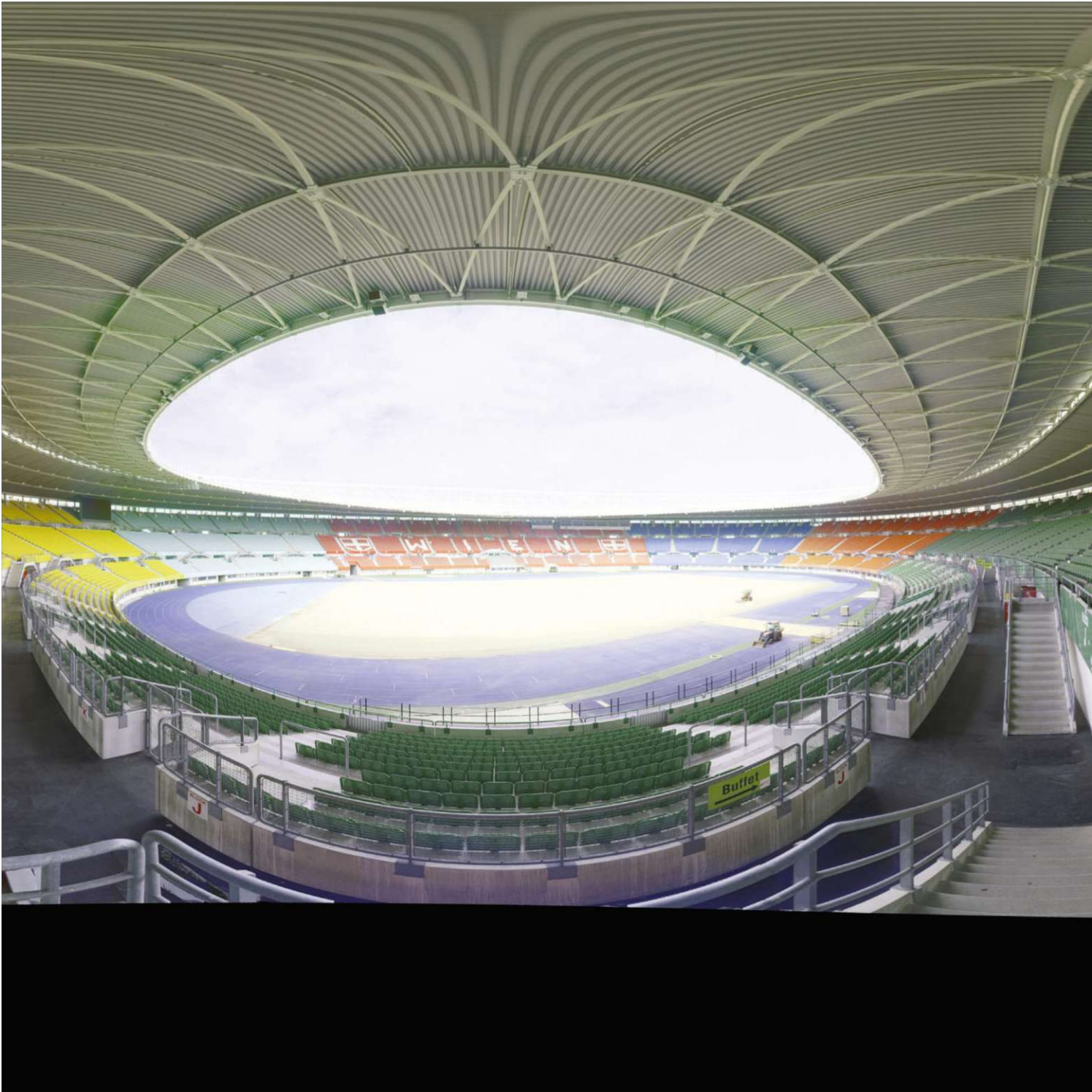


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_105_5.jpeg

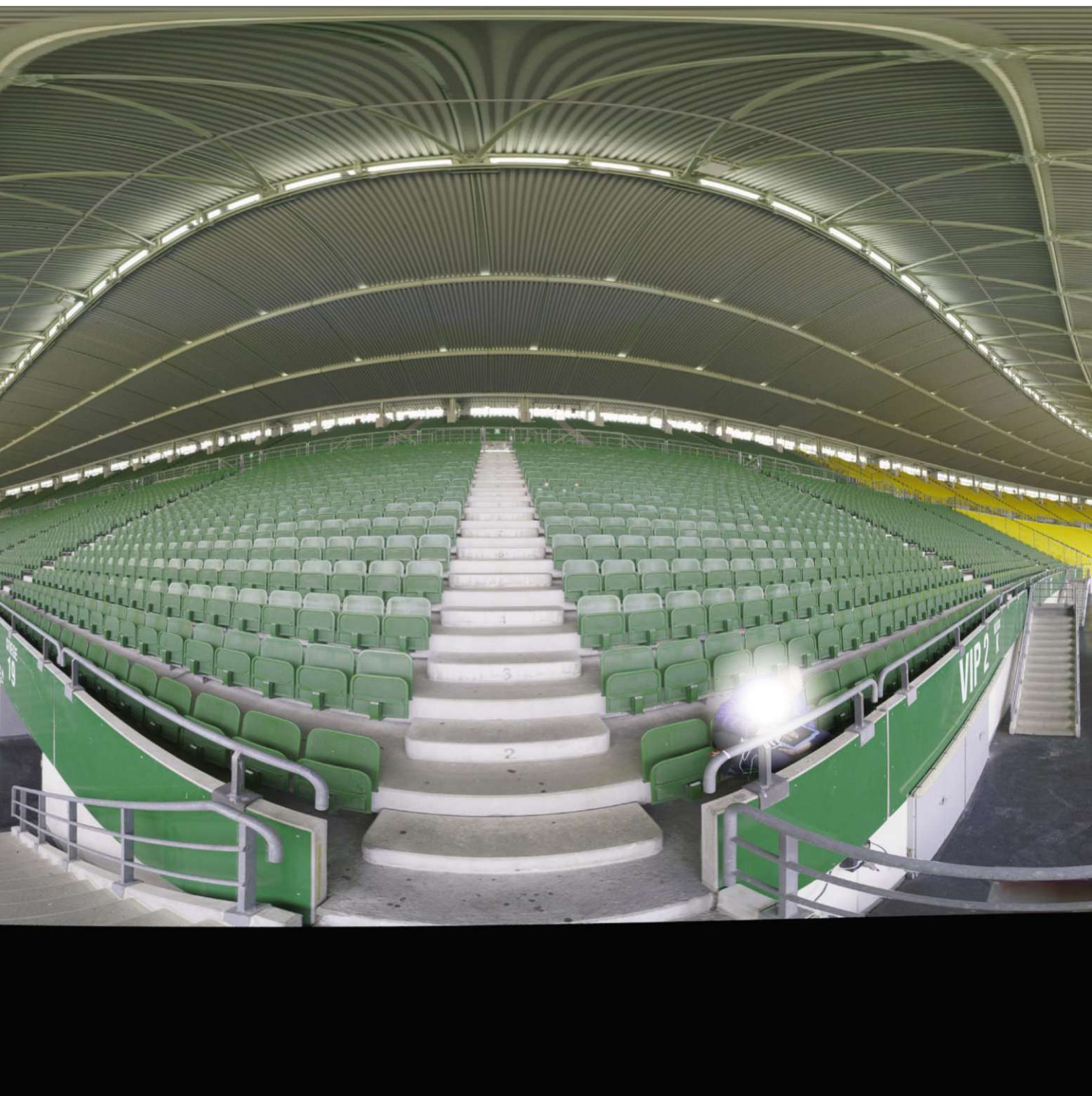
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_105.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

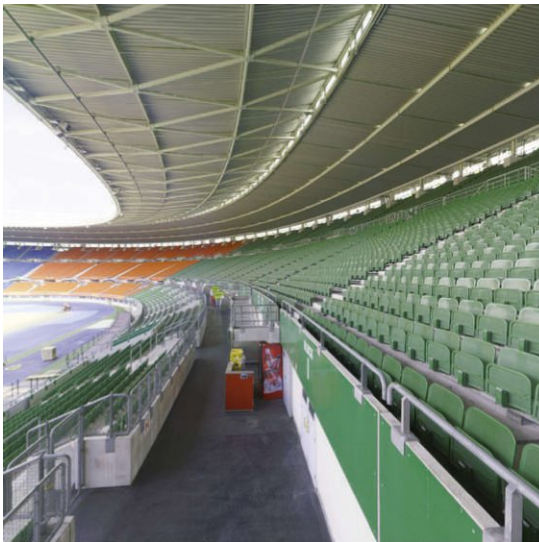
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

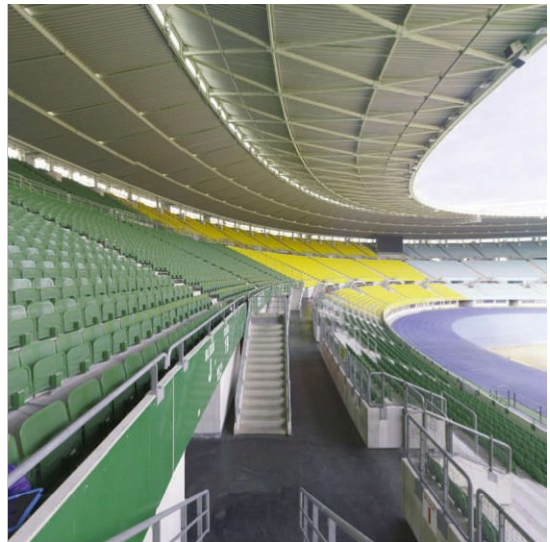
$X = -136670.1204$

$Y = 130161.92883$

$Z = 9714.29068$



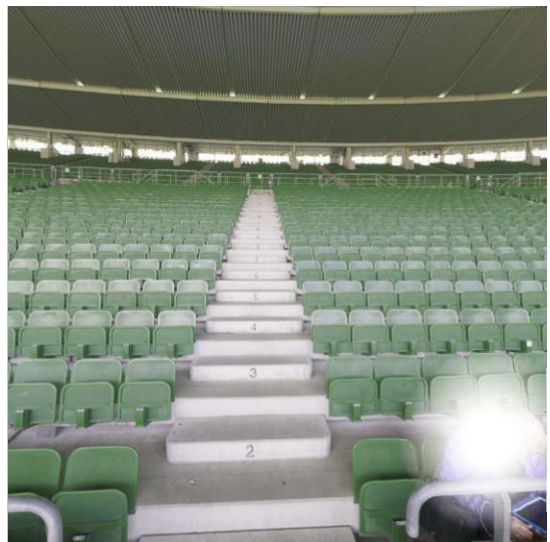
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_106_0.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_106_1.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_106_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_106_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_106_4.jpeg

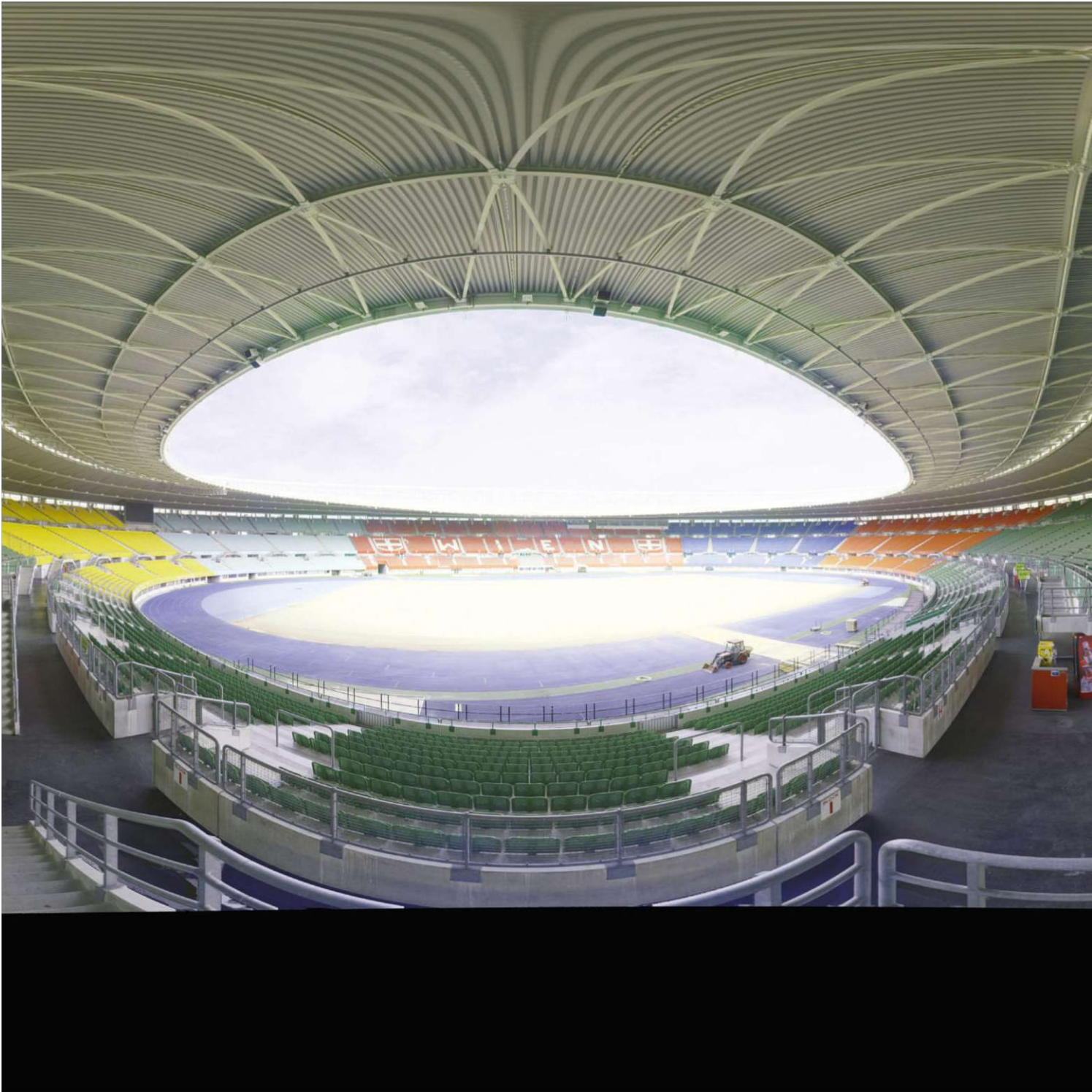


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_106_5.jpeg

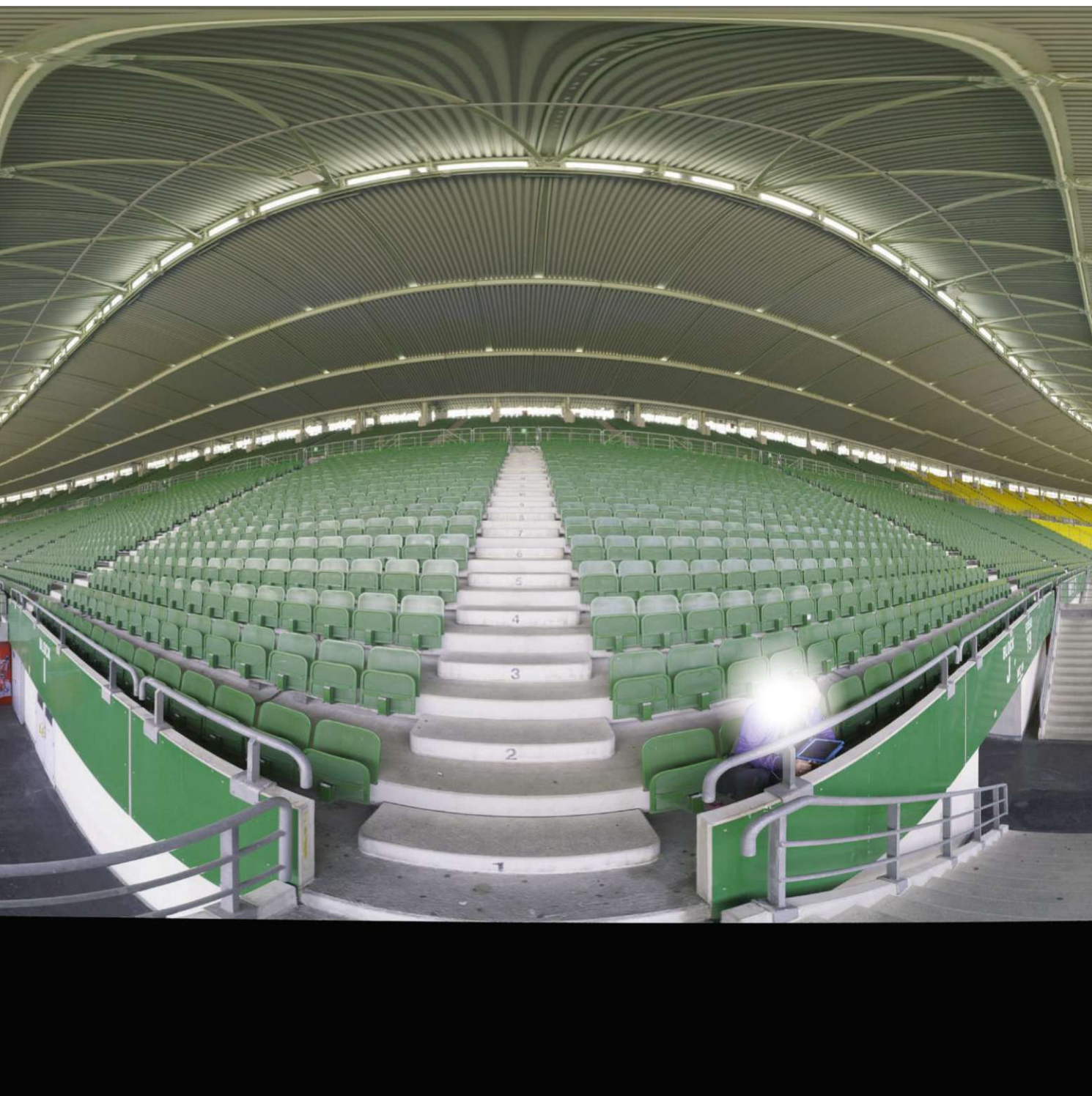
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_106.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

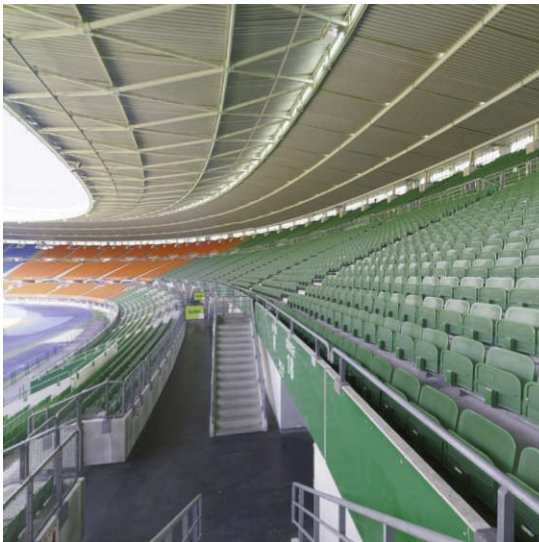
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

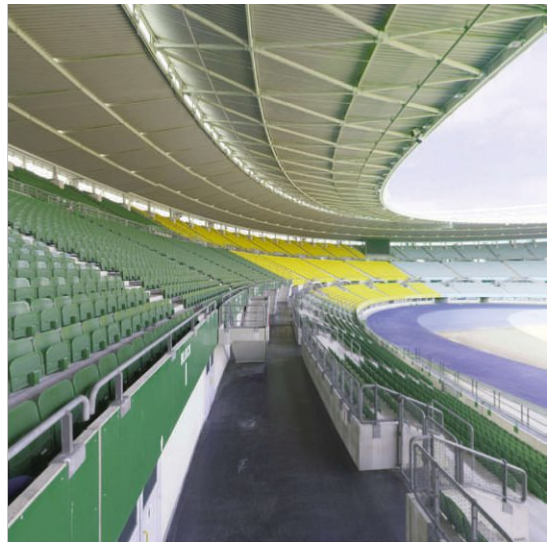
X = -146474.37709

Y = 131370.82111

Z = 9715.78605



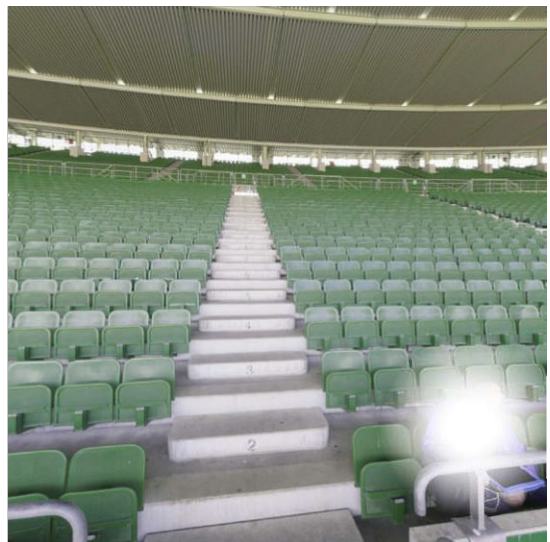
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_107_0.jpeg



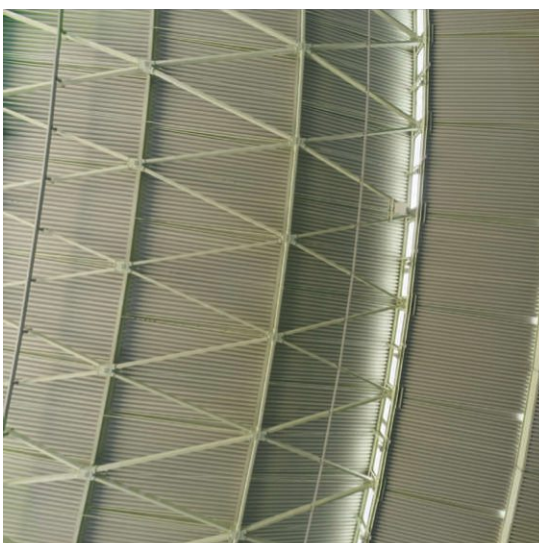
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_107_1.jpeg



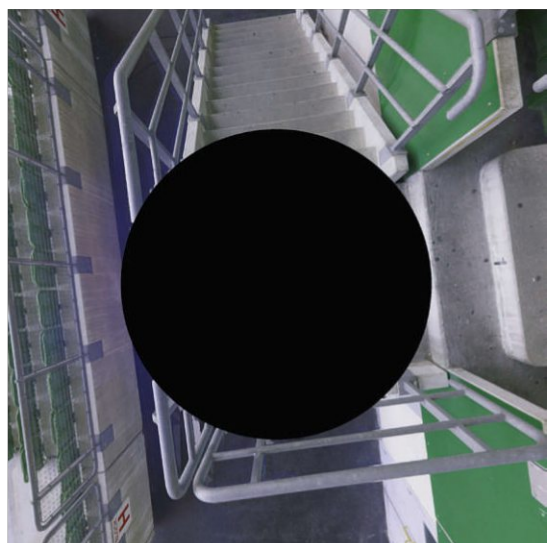
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_107_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_107_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_107_4.jpeg

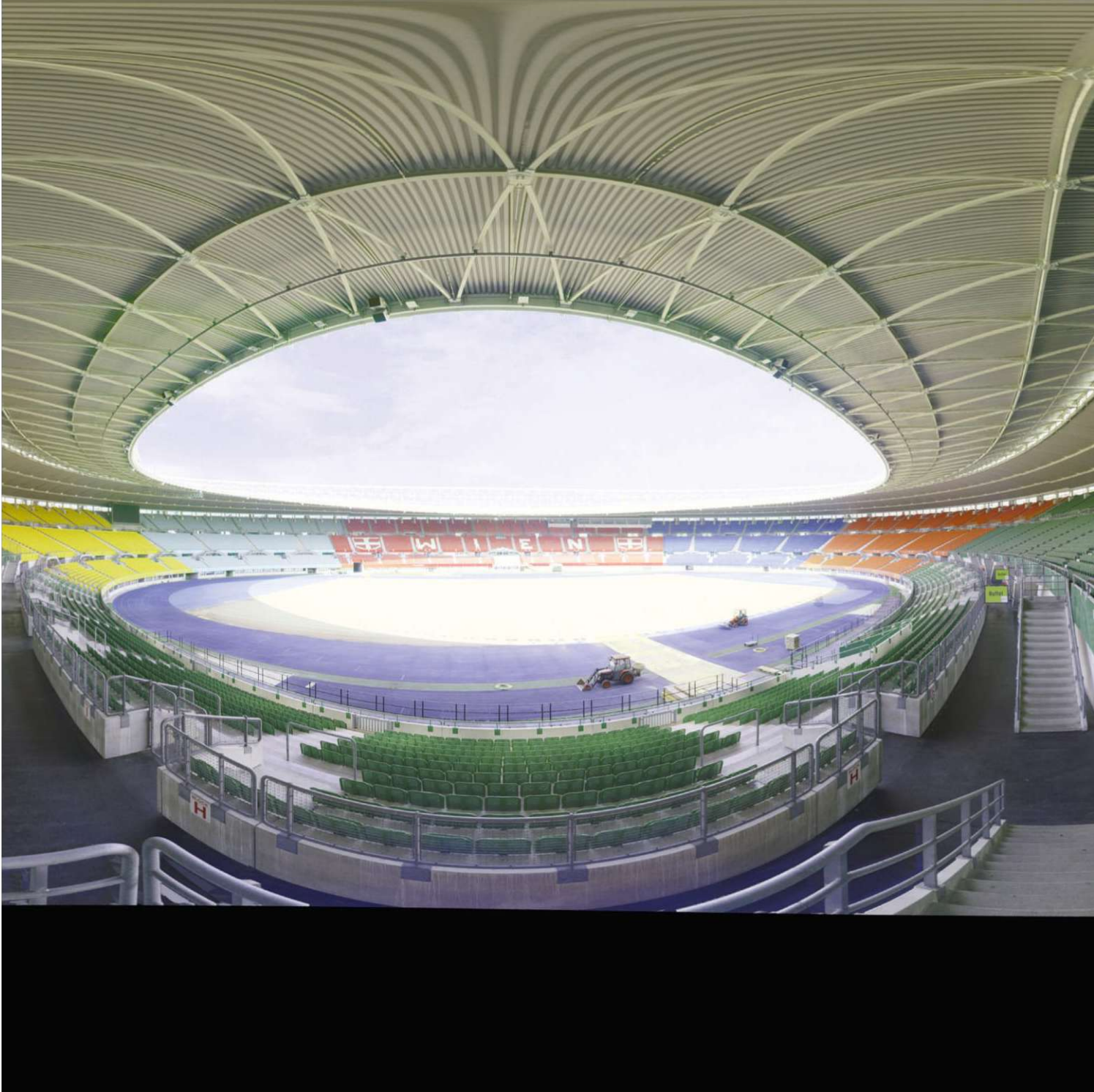


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_107_5.jpeg

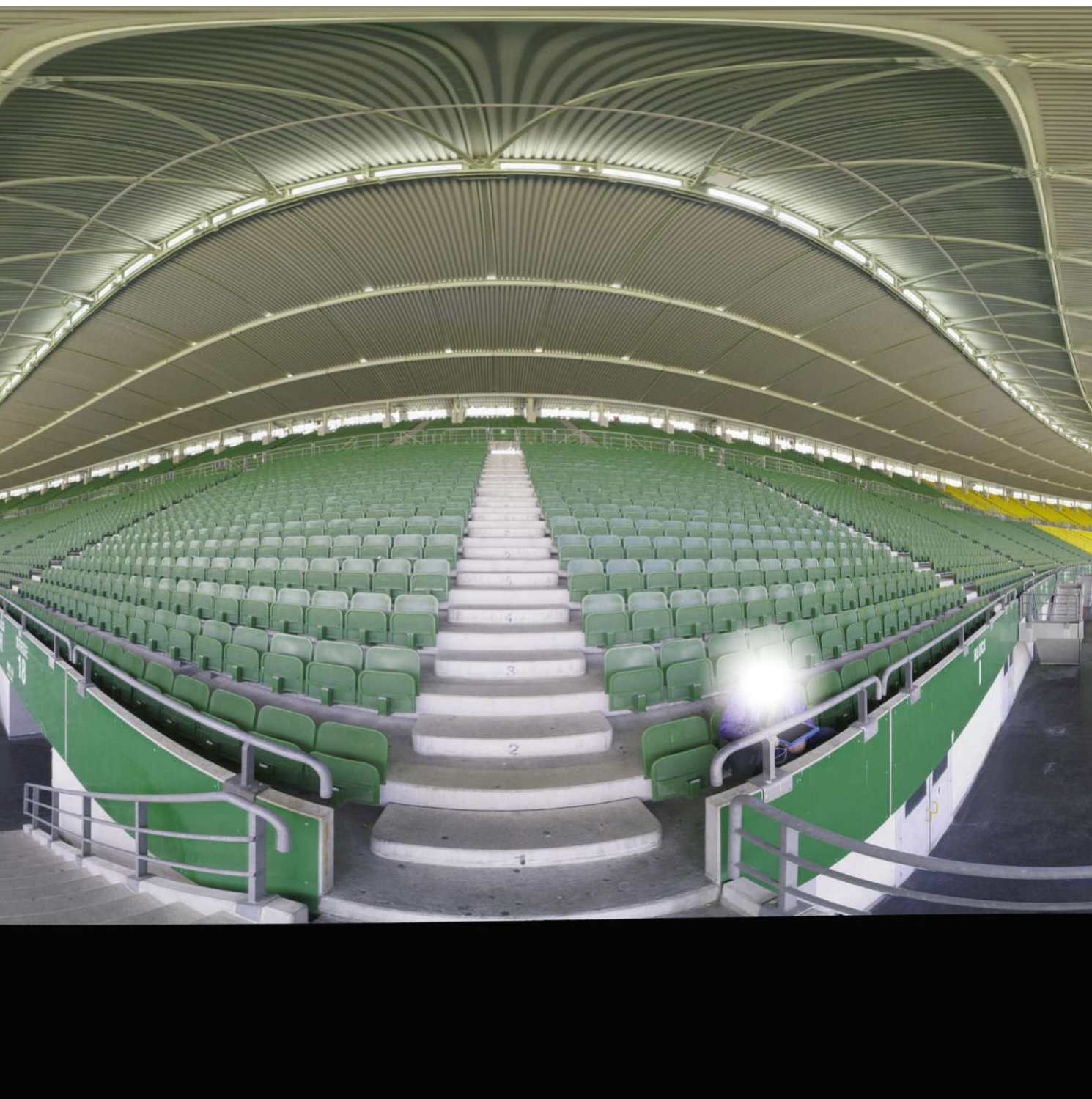
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_107.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

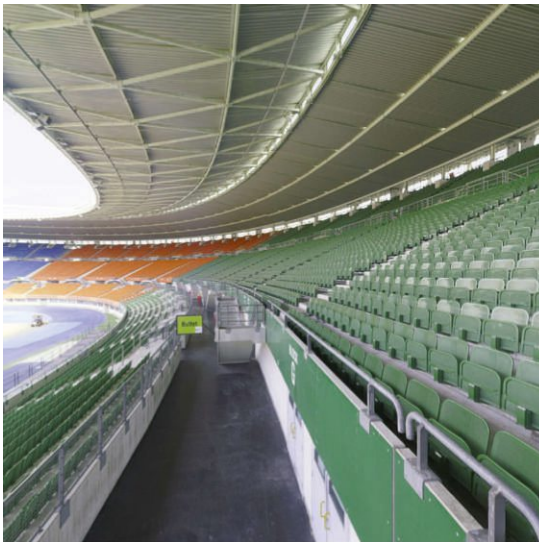
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

$X = -158272.97018$

$Y = 132135.08023$

$Z = 9725.152$



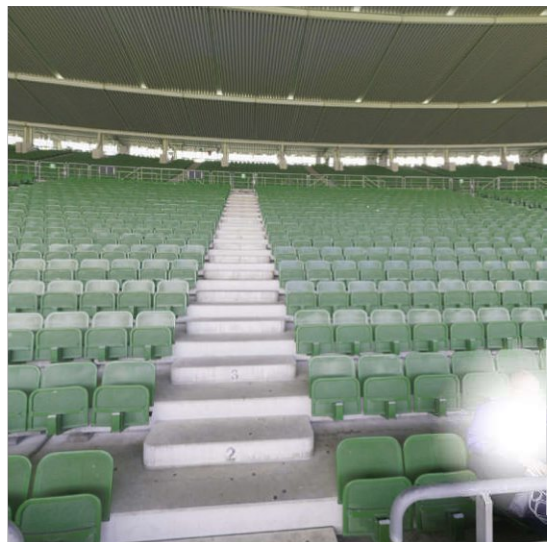
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_108_0.jpeg



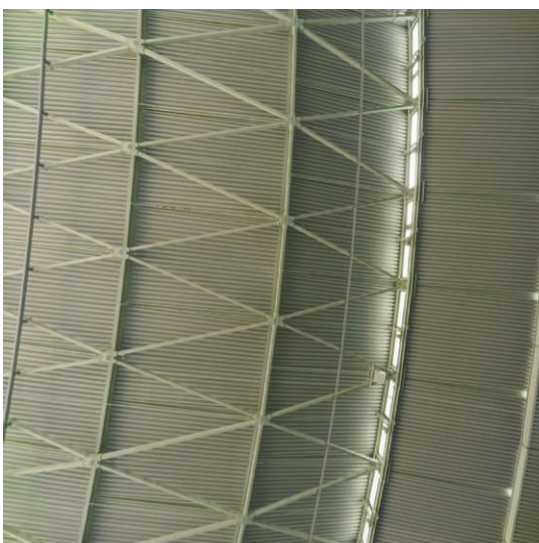
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_108_1.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_108_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_108_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_108_4.jpeg

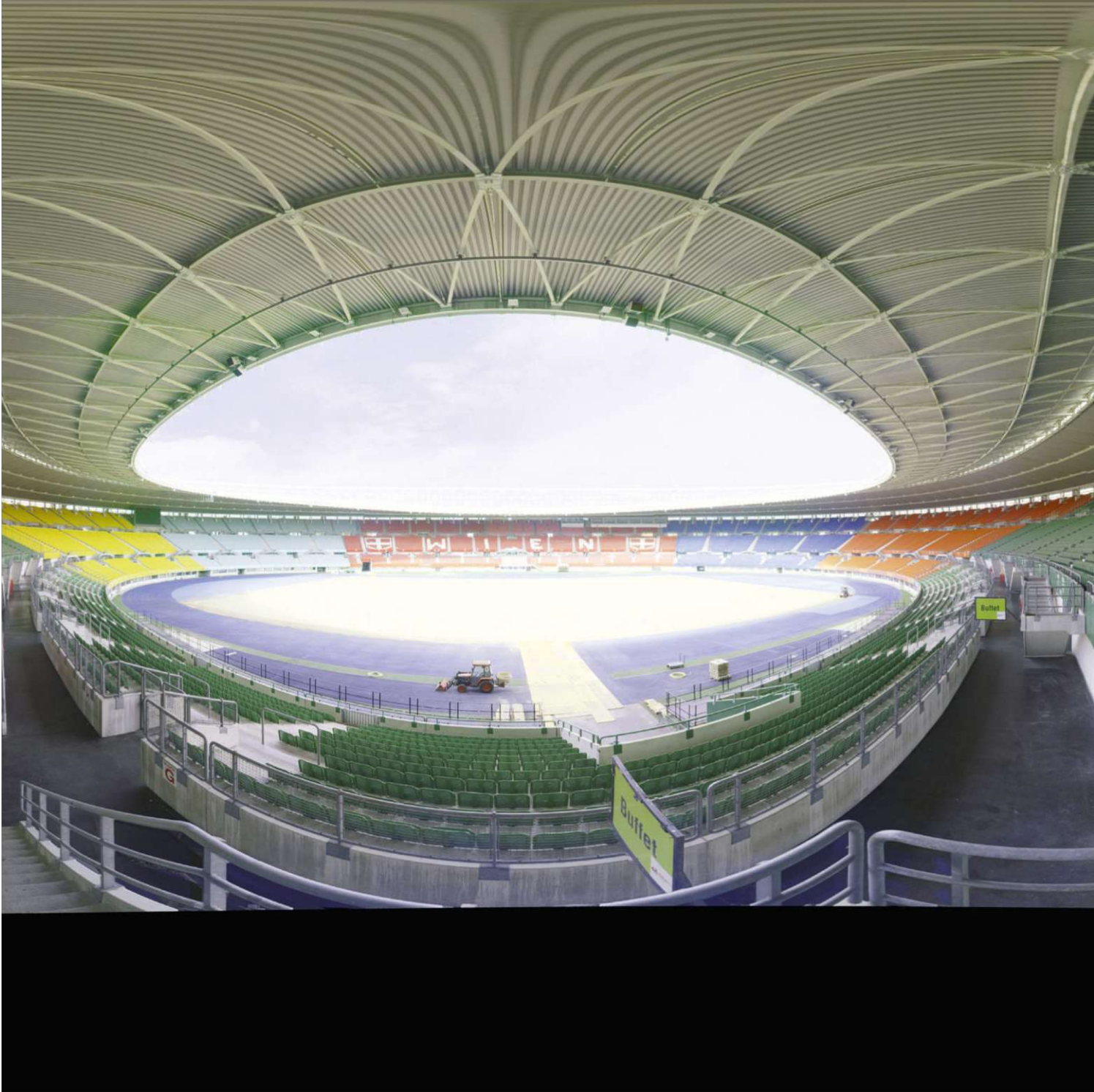


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_108_5.jpeg

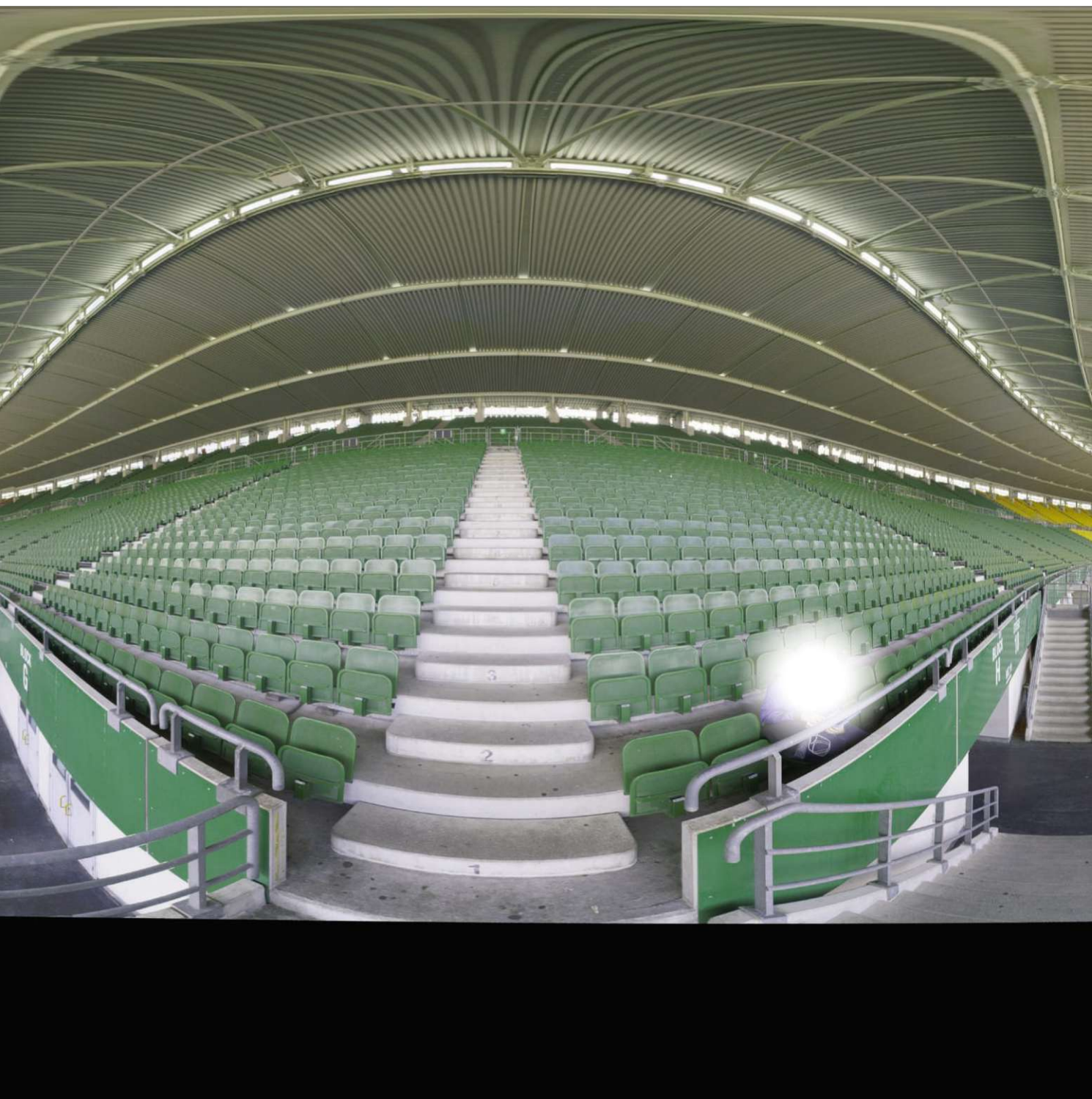
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_108.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

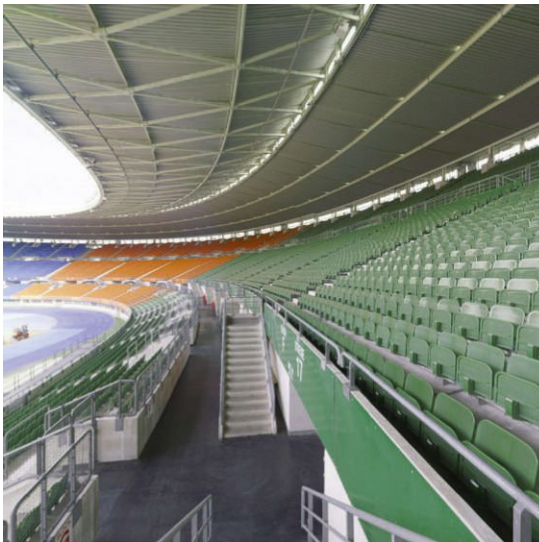
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

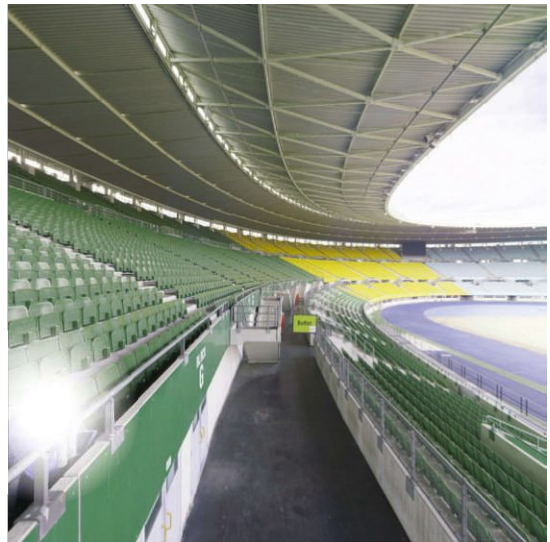
X = -168174.4992

Y = 131888.80146

Z = 9741.24569



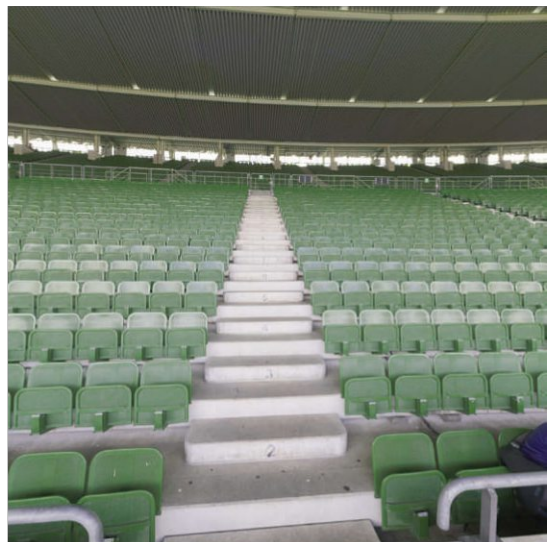
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_109_0.jpeg



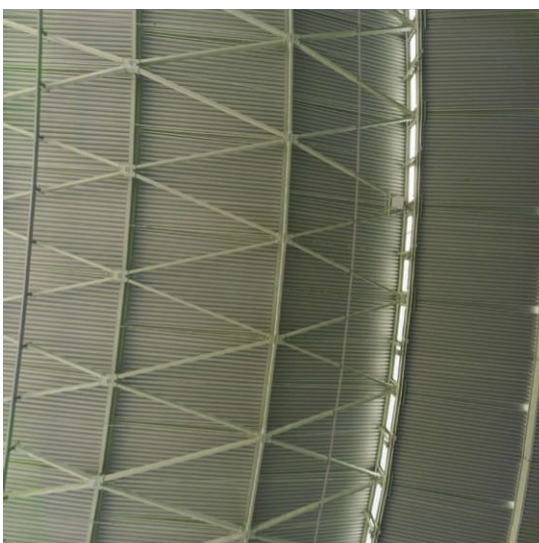
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_109_1.jpeg



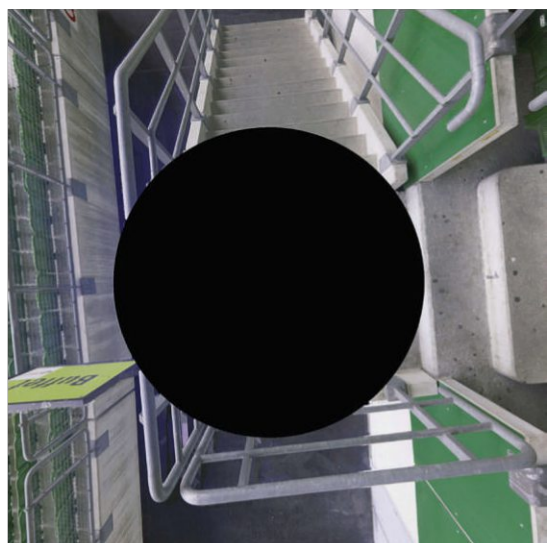
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_109_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_109_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_109_4.jpeg

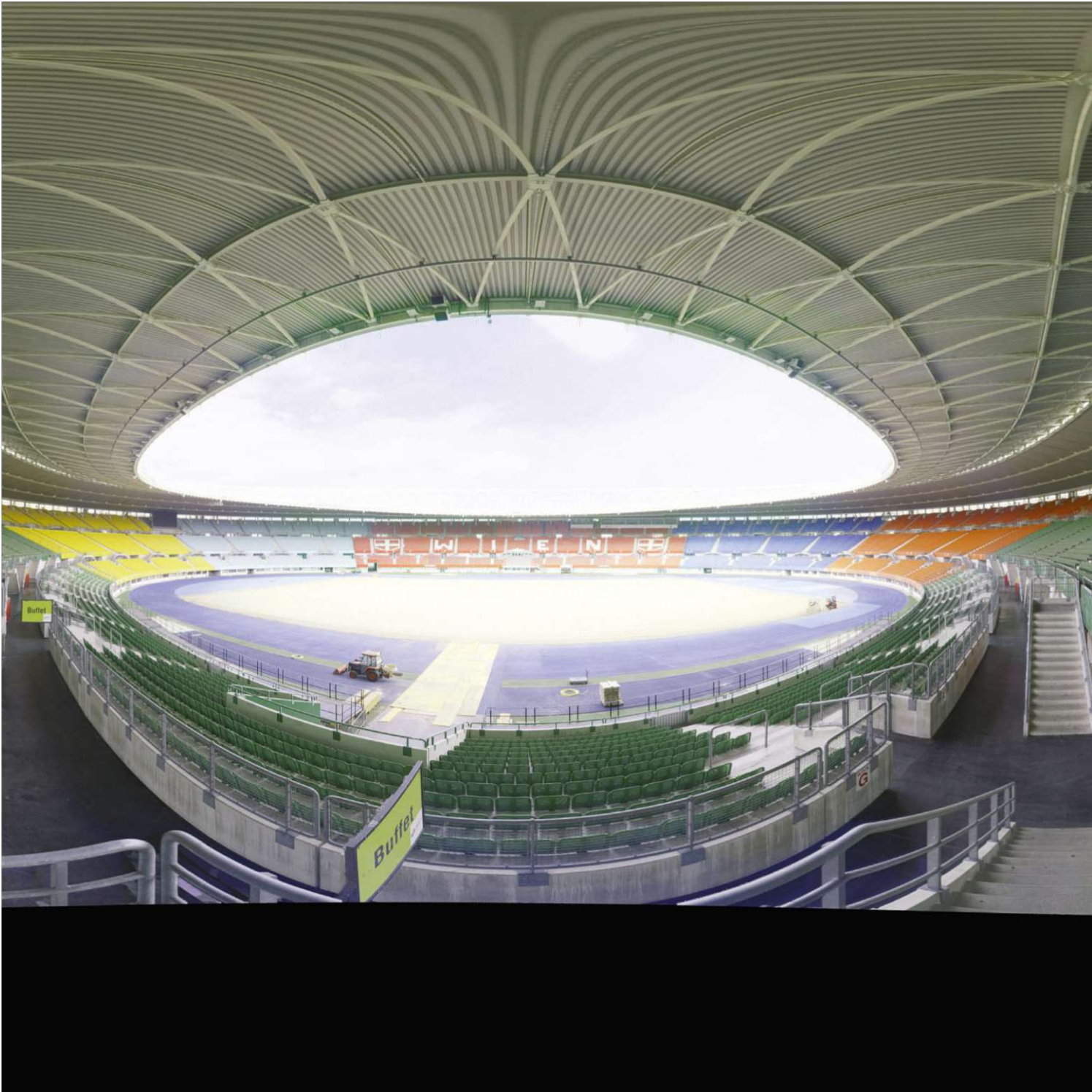


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_109_5.jpeg

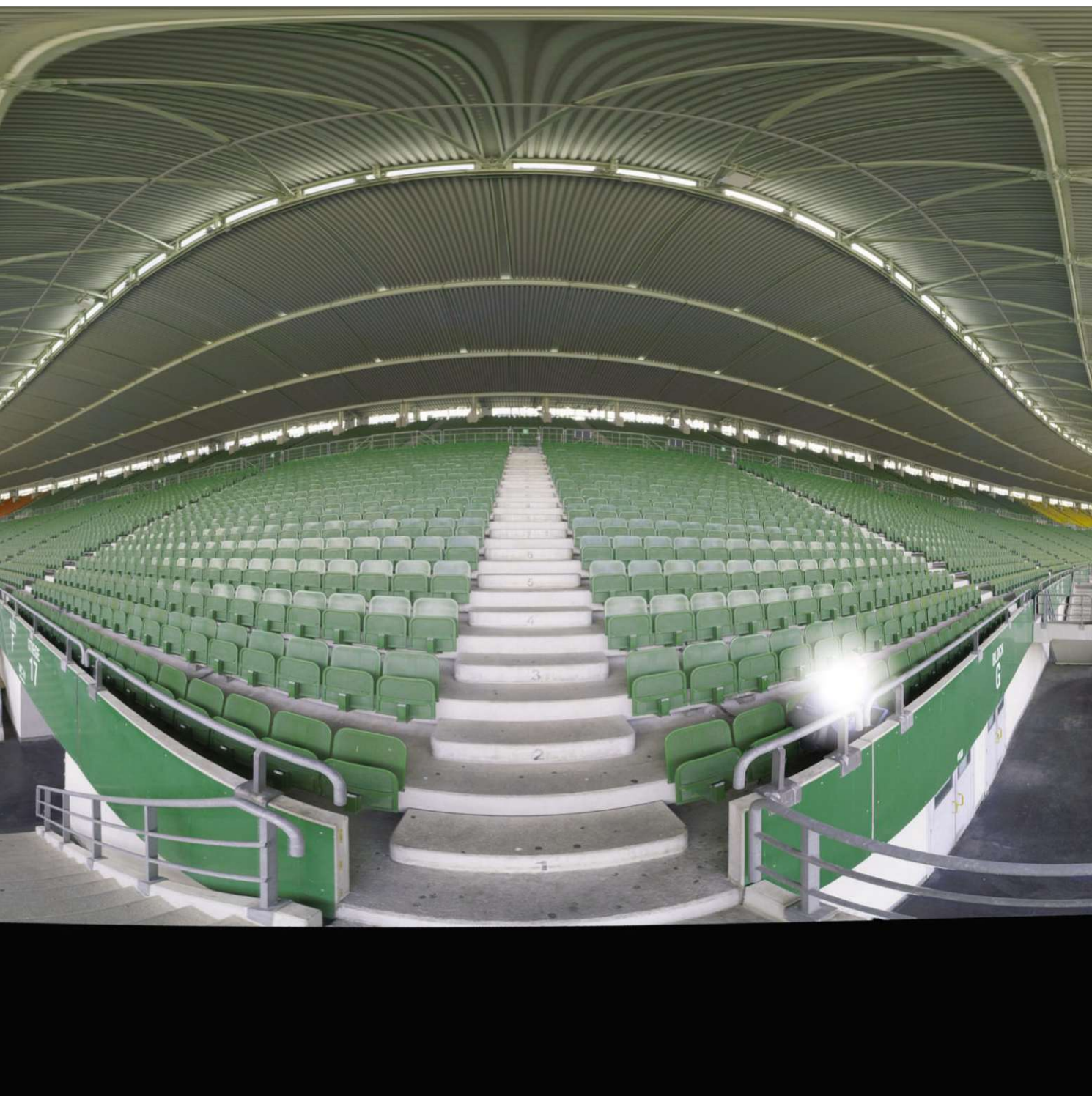
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_109.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

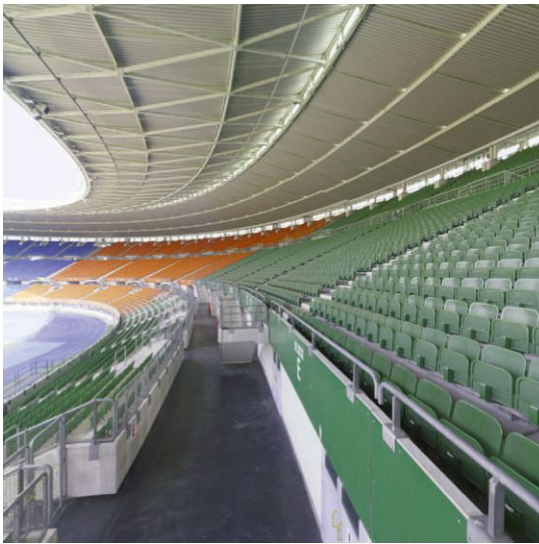
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

X = -179904.14407

Y = 130766.36758

Z = 9728.26666



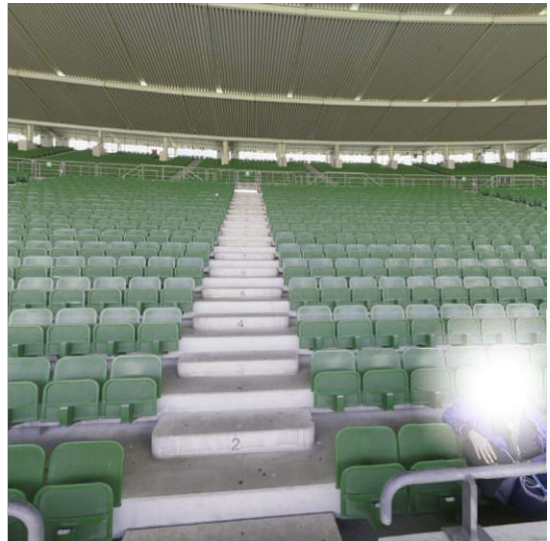
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_110_0.jpeg



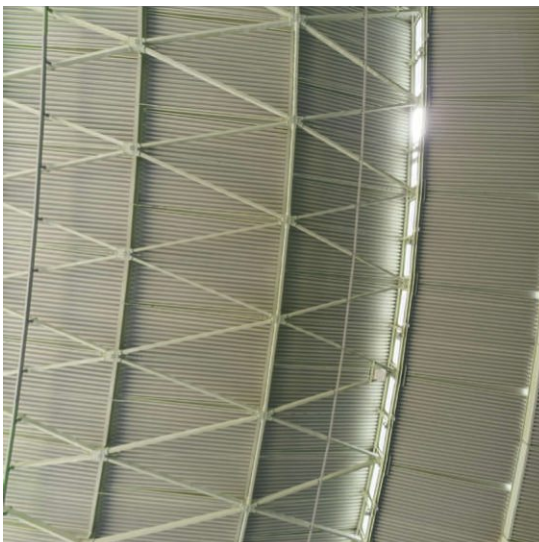
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_110_1.jpeg



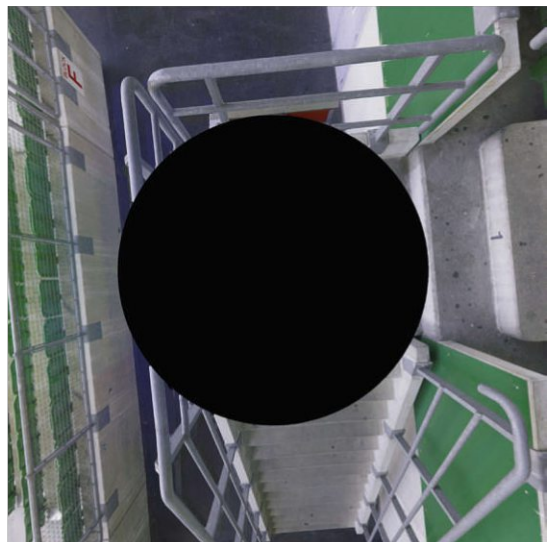
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_110_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_110_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_110_4.jpeg

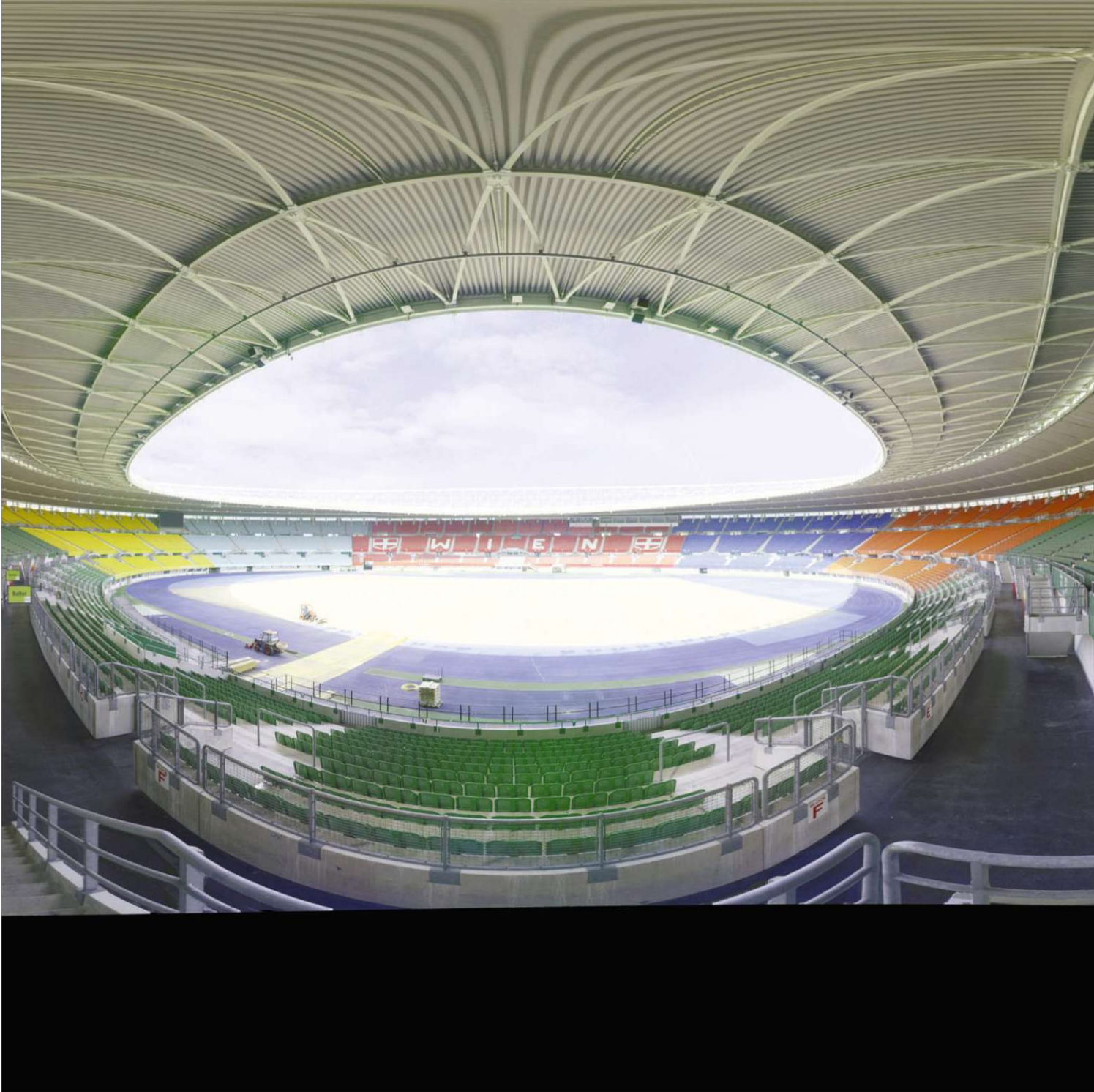


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_110_5.jpeg

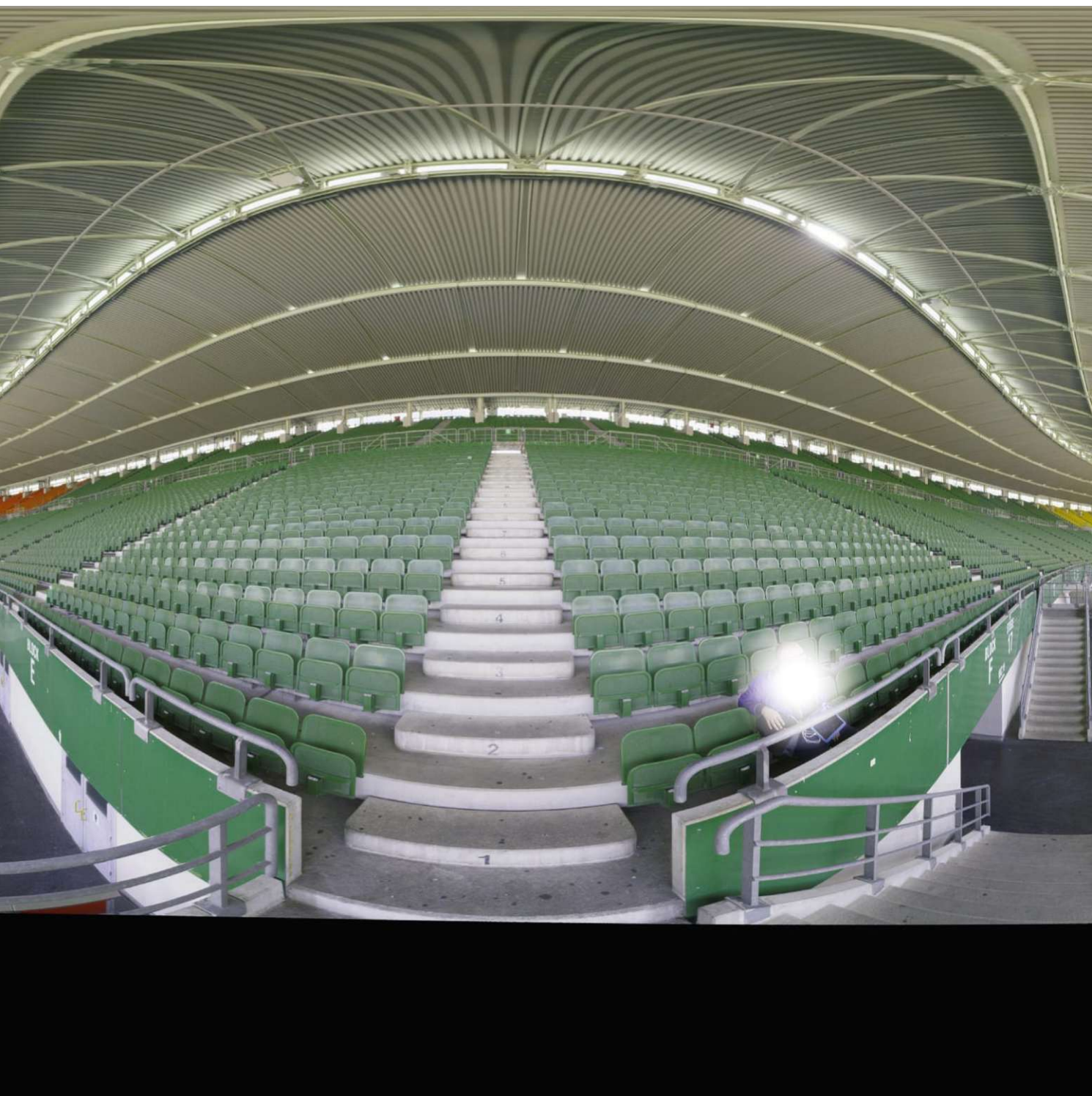
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_110.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

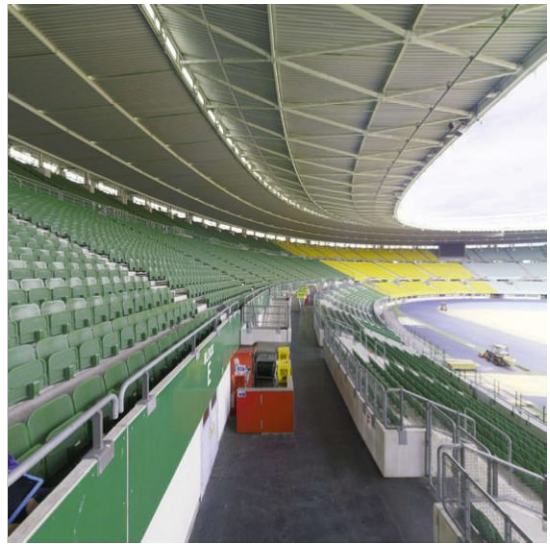
X = -189609.01437

Y = 129200.40462

Z = 9735.65619



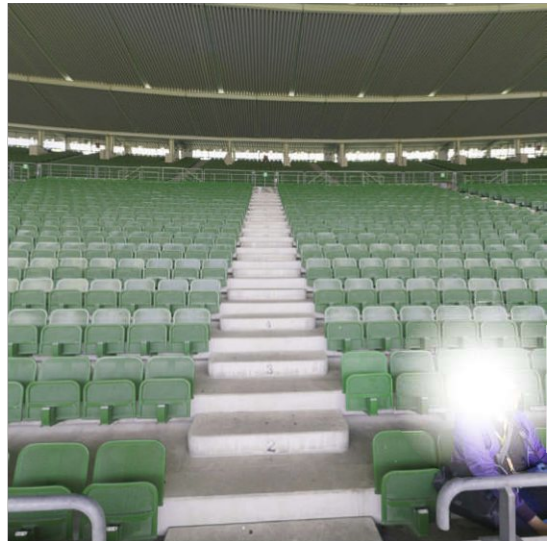
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_111_0.jpeg



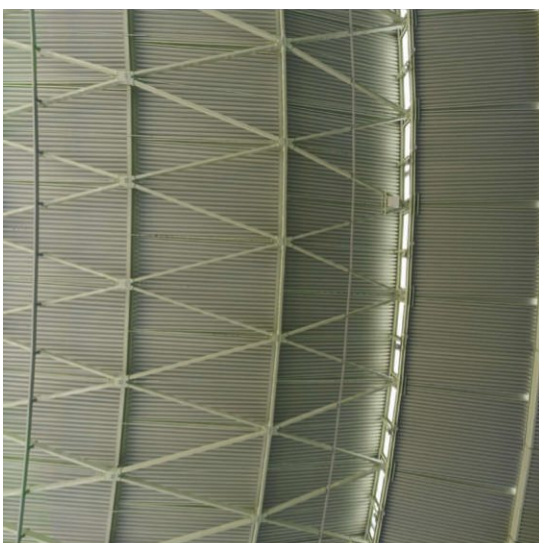
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_111_1.jpeg



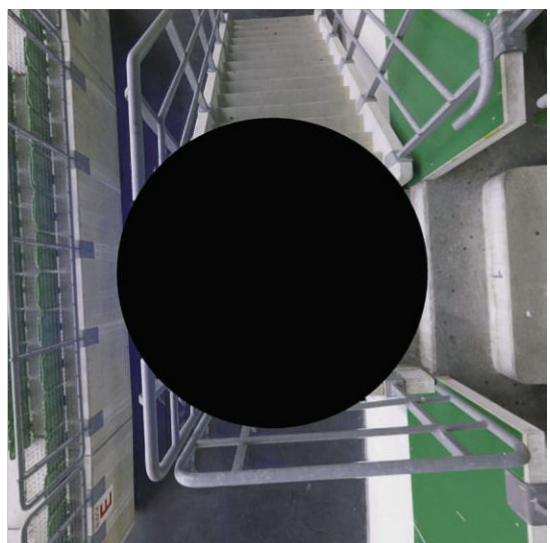
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_111_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_111_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_111_4.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_111_5.jpeg

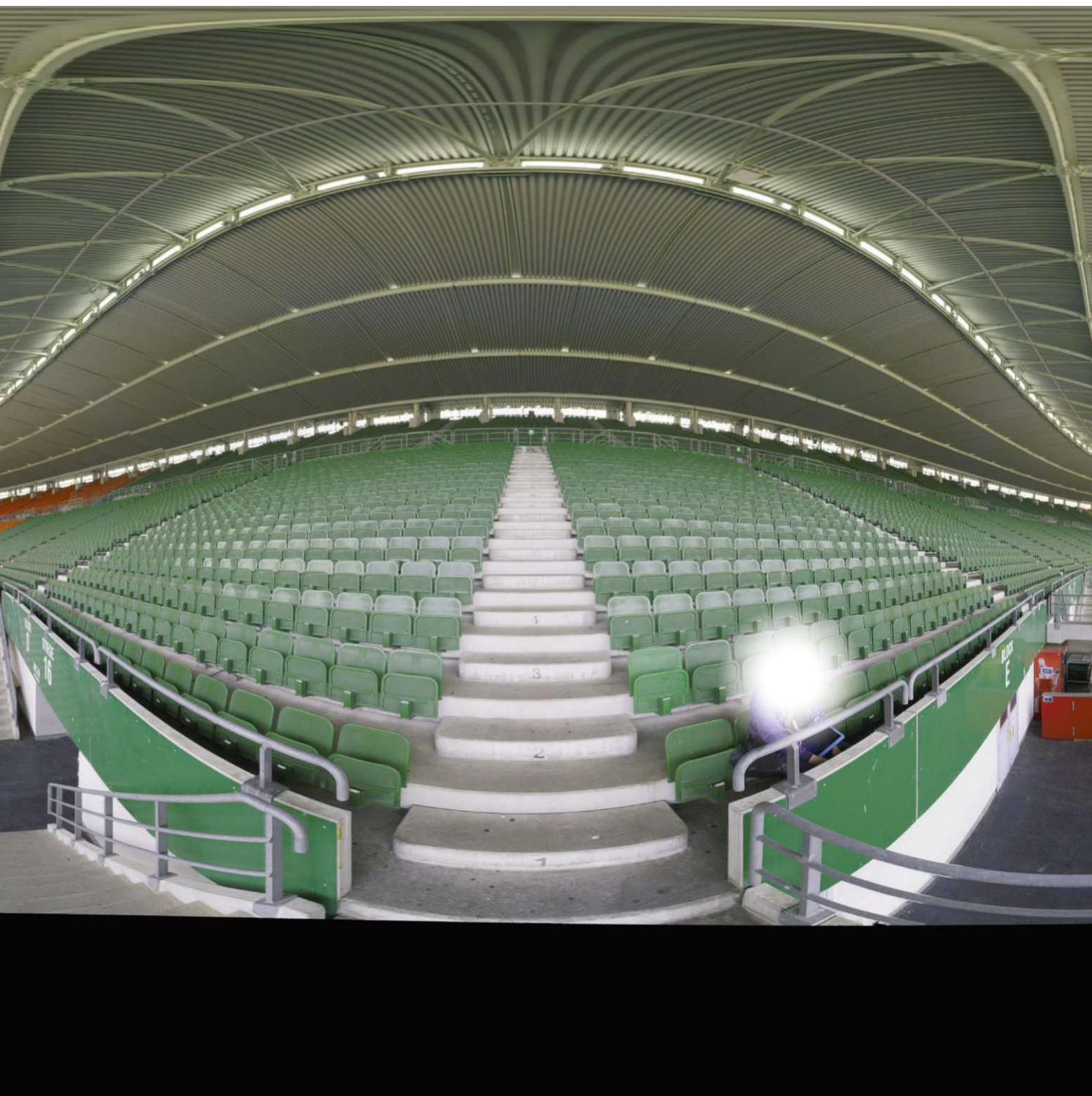
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_111.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

$X = -201079.47126$

$Y = 126416.61782$

$Z = 9740.4242$



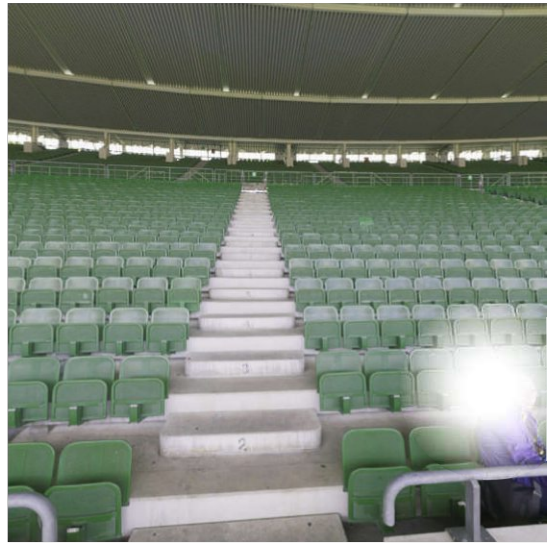
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_112_0.jpeg



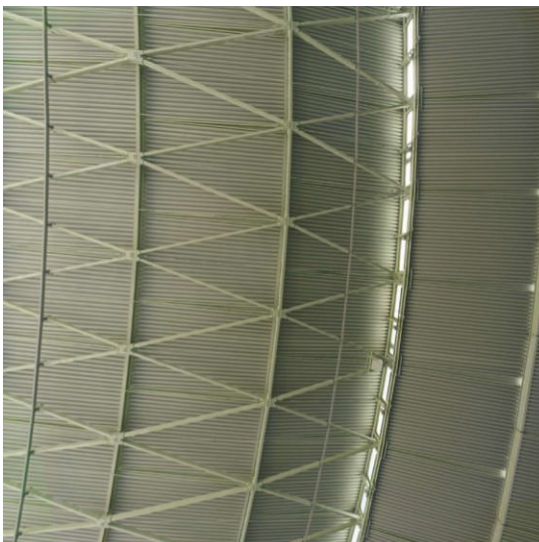
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_112_1.jpeg



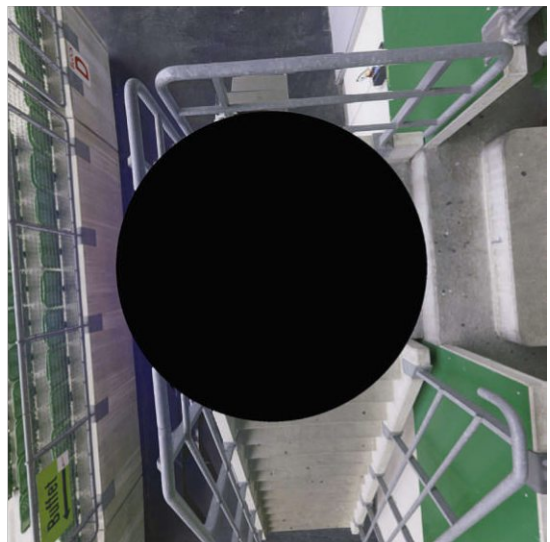
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_112_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_112_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_112_4.jpeg

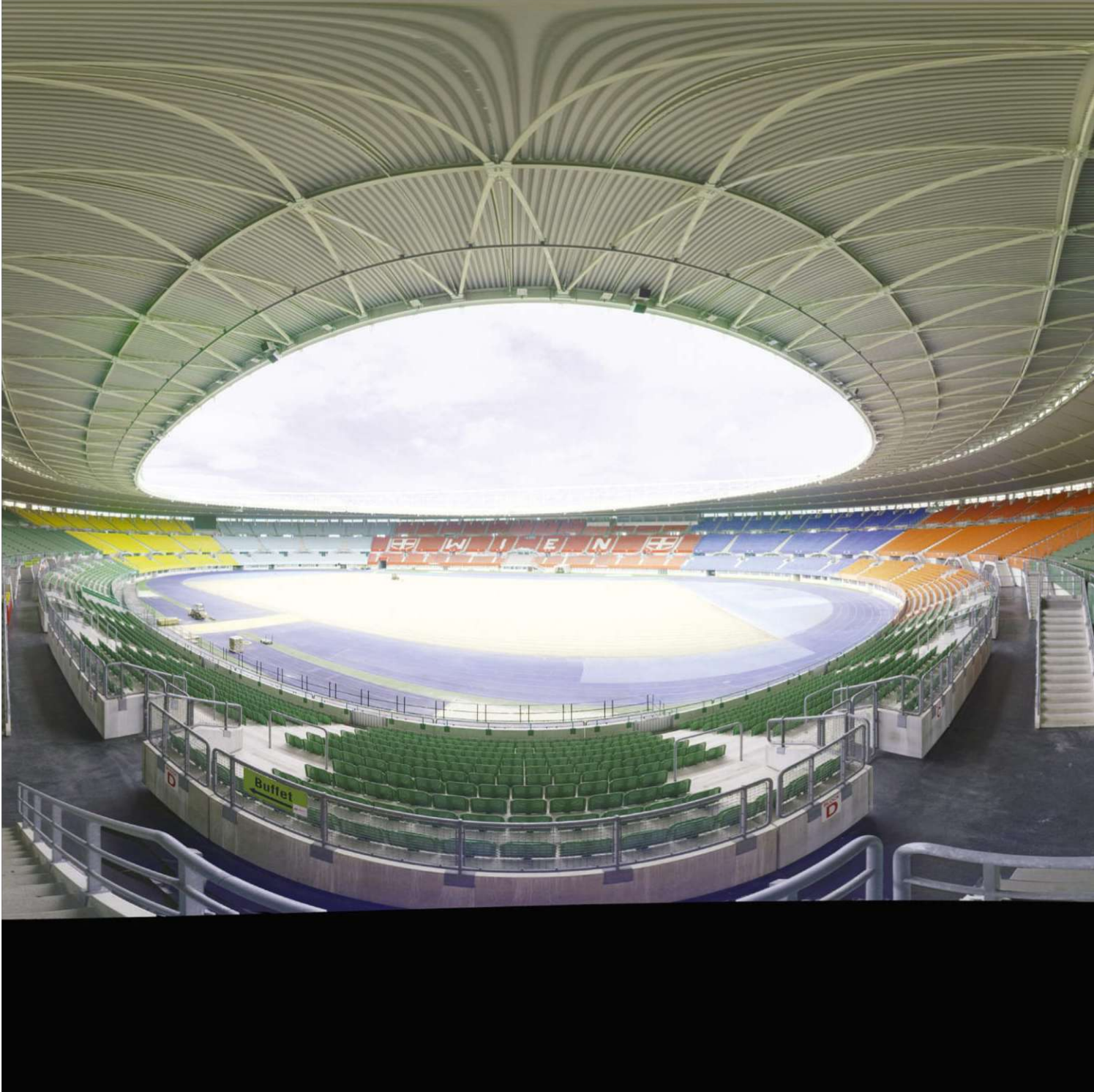


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_112_5.jpeg

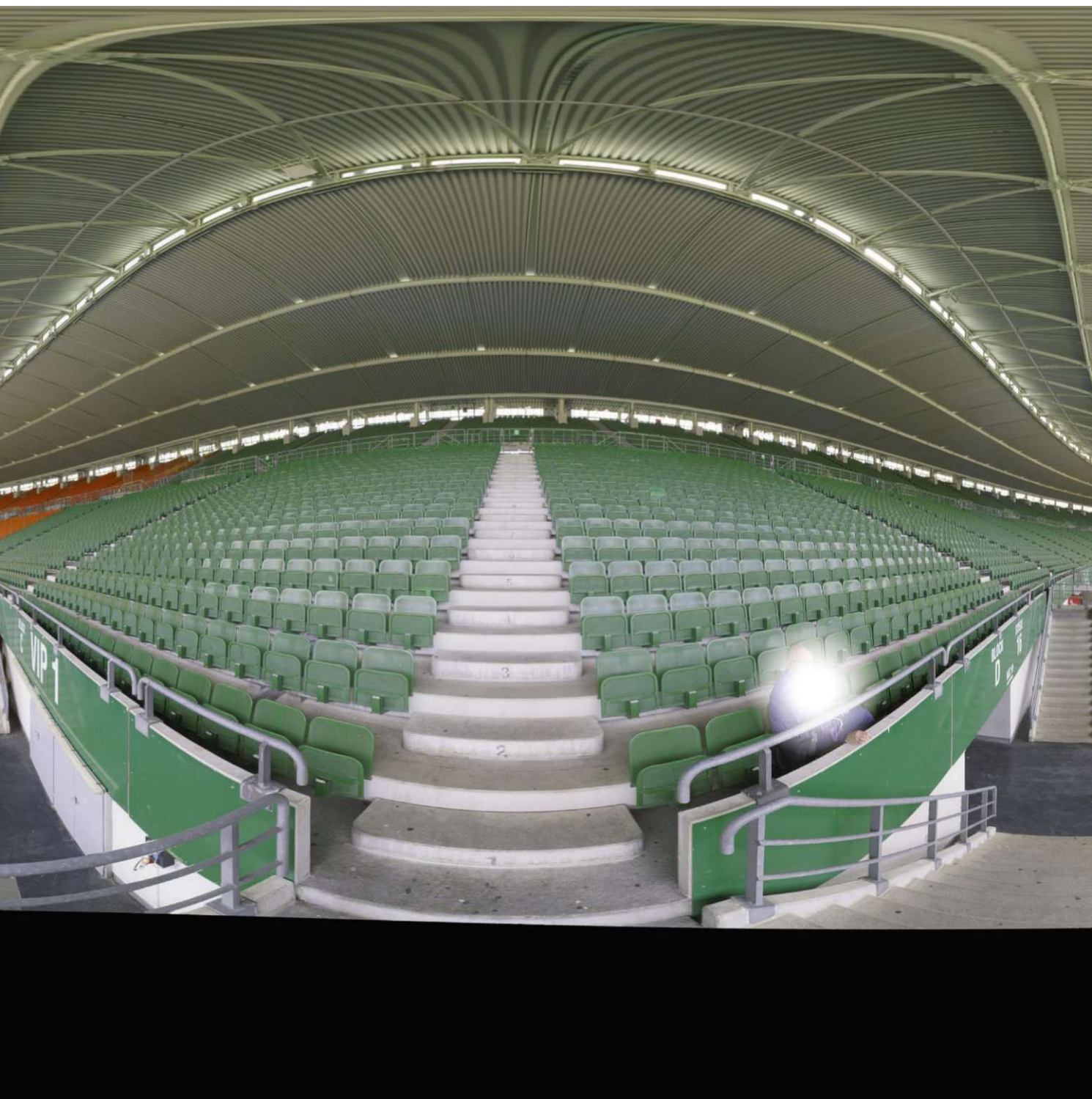
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_112.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

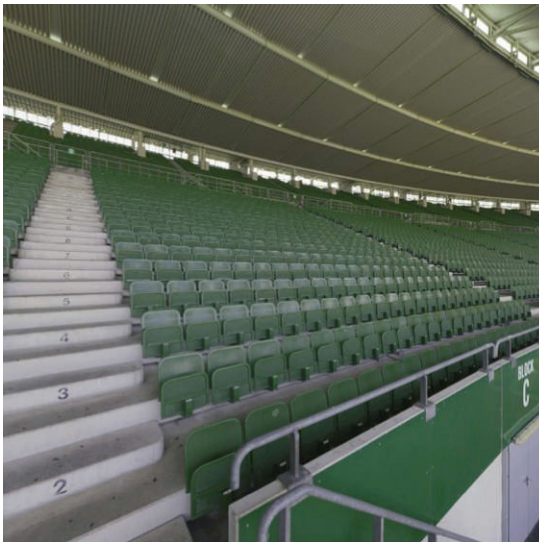
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

X = -212650.16537

Y = 122584.35496

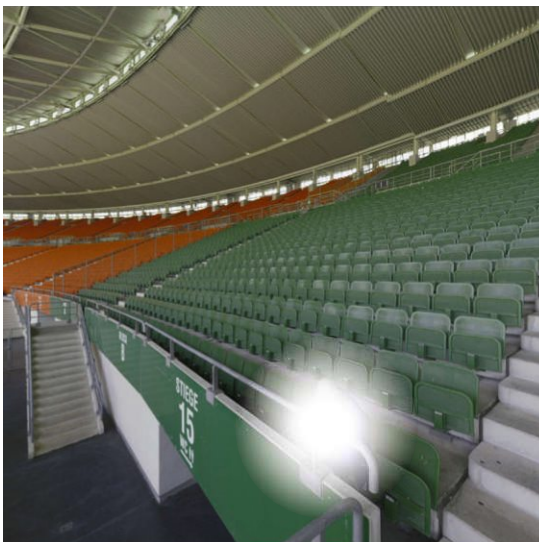
Z = 9750.83301



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_113_0.jpeg



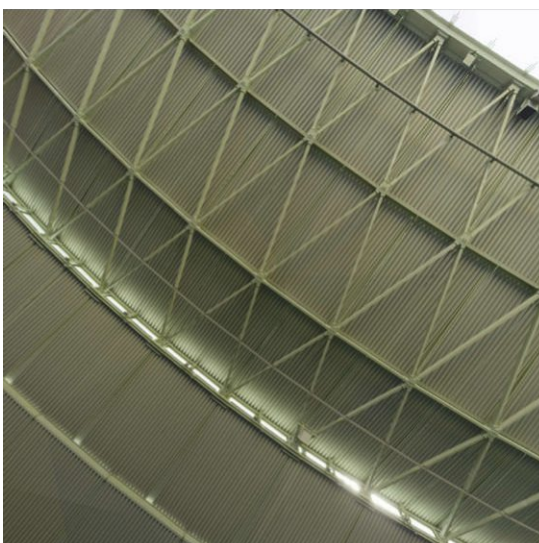
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_113_1.jpeg



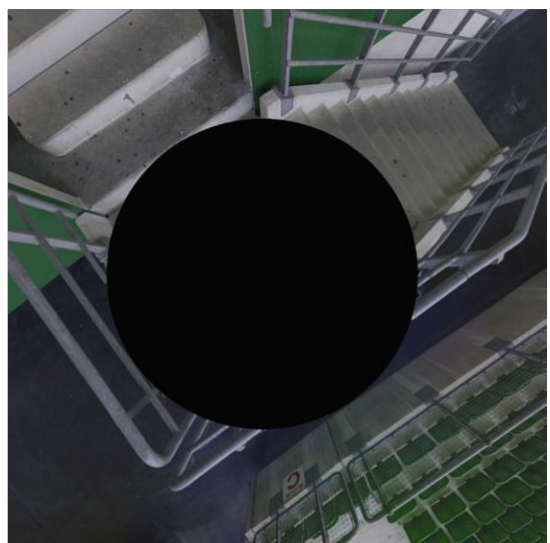
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_113_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_113_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_113_4.jpeg

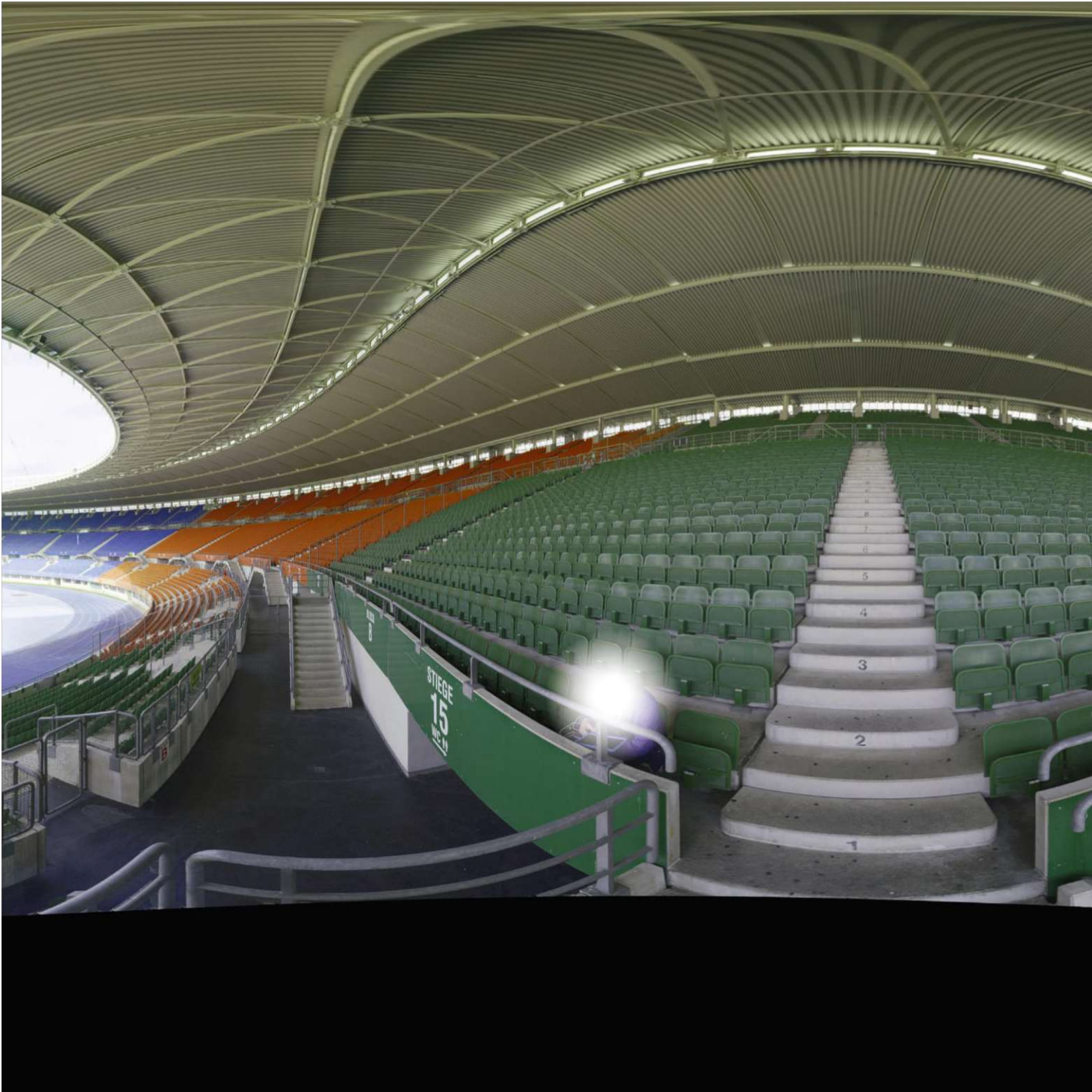


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_113_5.jpeg

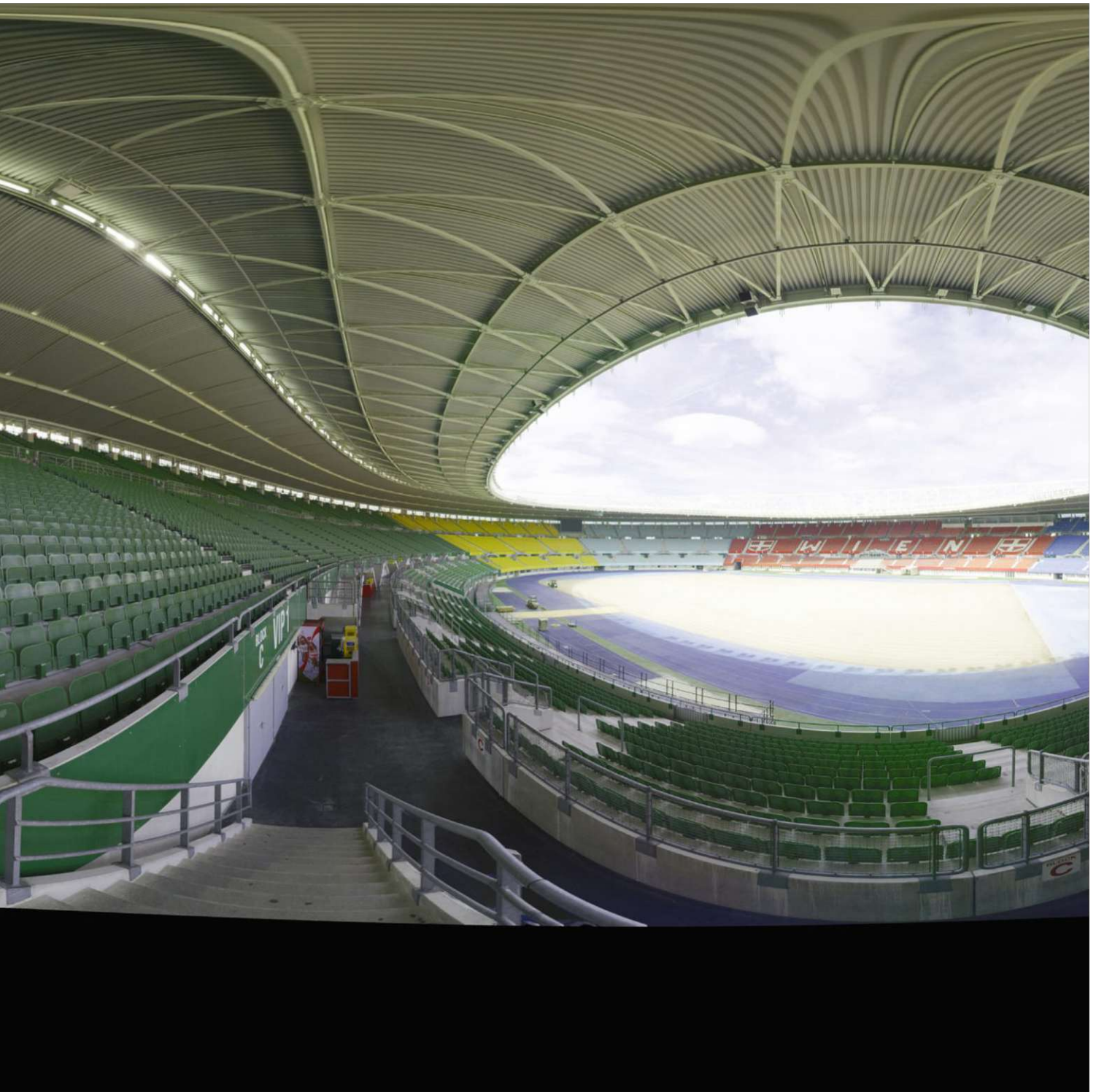
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_113.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

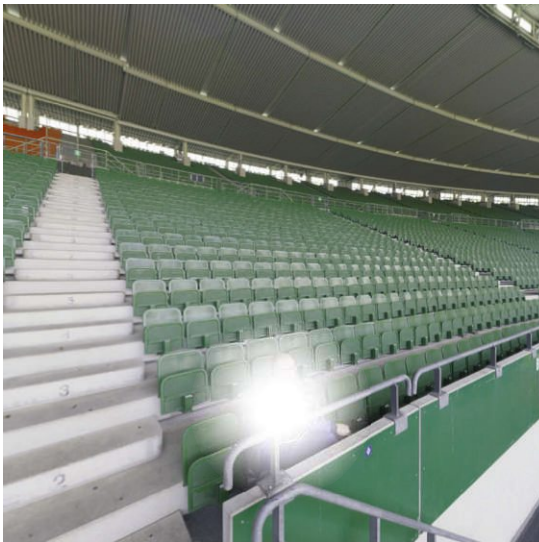
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

$X = -224647.66233$

$Y = 116924.62037$

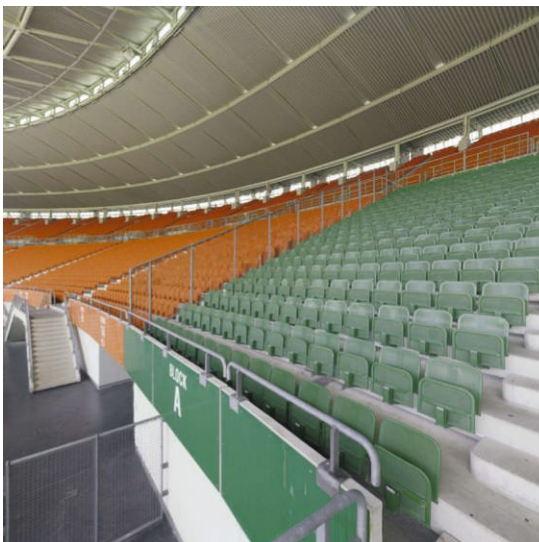
$Z = 9730.48635$



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_114_0.jpeg



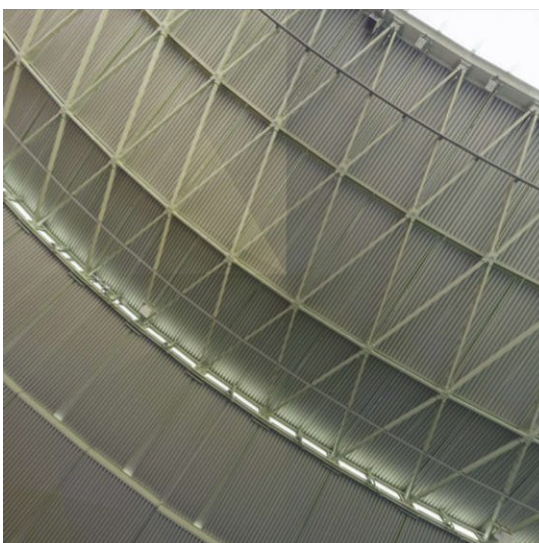
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_114_1.jpeg



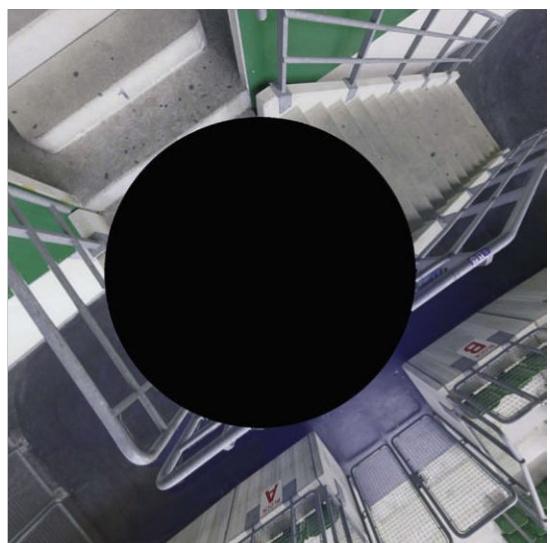
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_114_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_114_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_114_4.jpeg

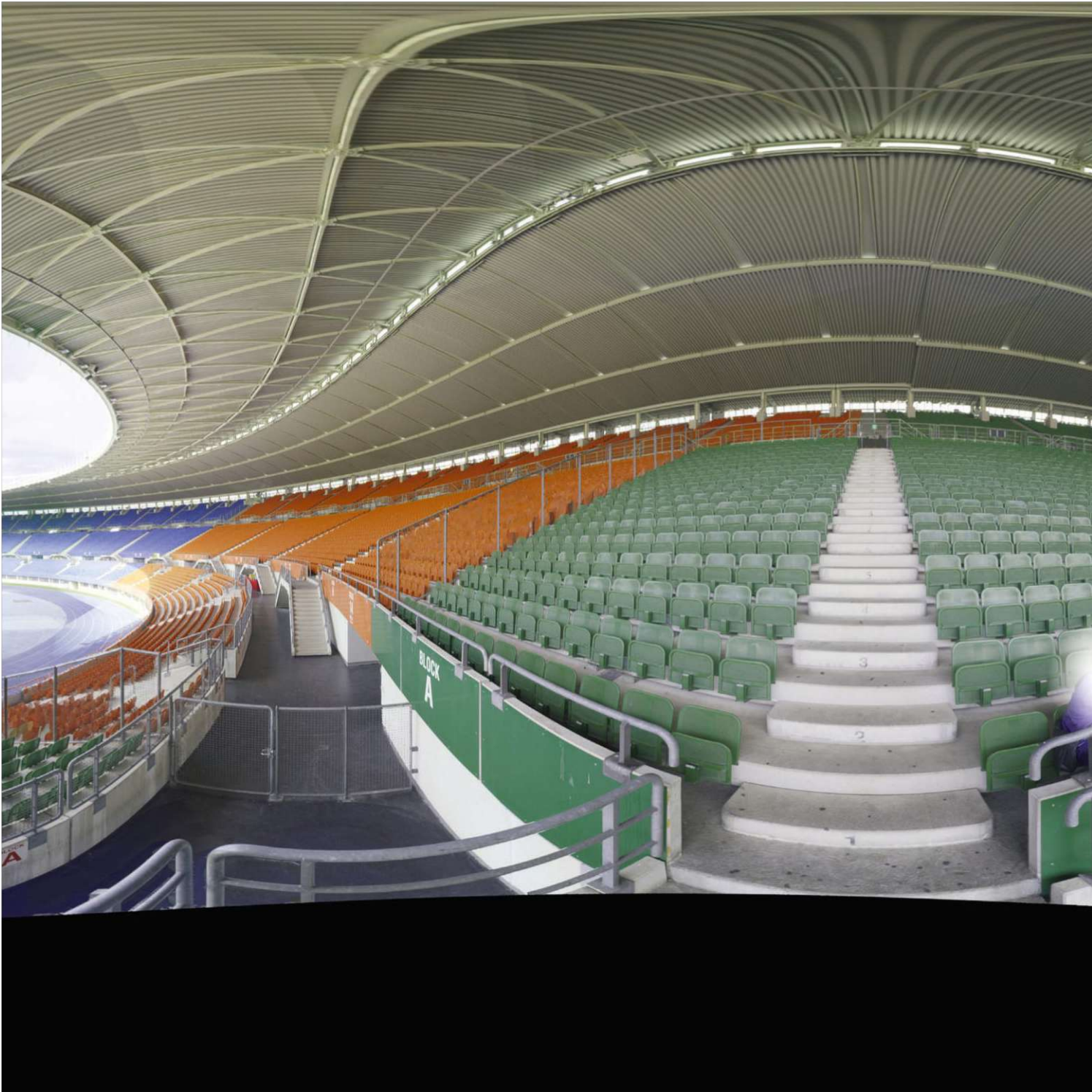


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_114_5.jpeg

DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_114.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

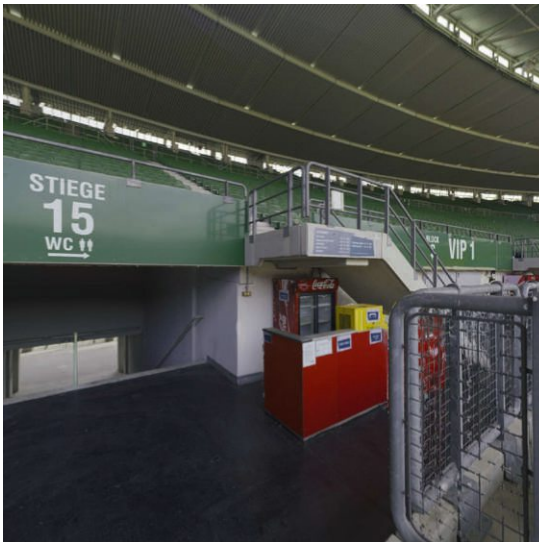
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

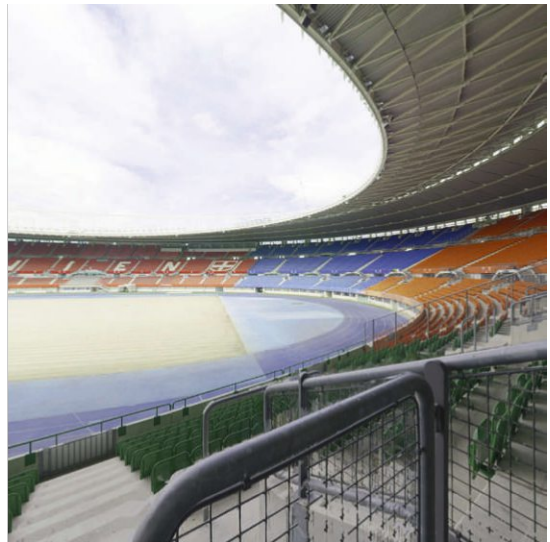
$X = -214522.28225$

$Y = 118670.32262$

$Z = 7246.54313$



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_115_0.jpeg



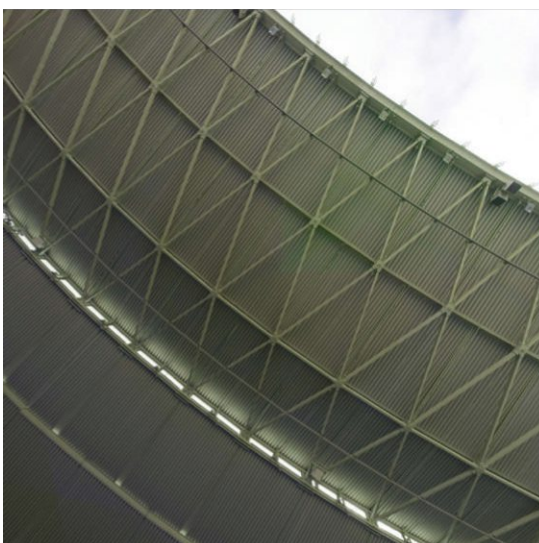
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_115_1.jpeg



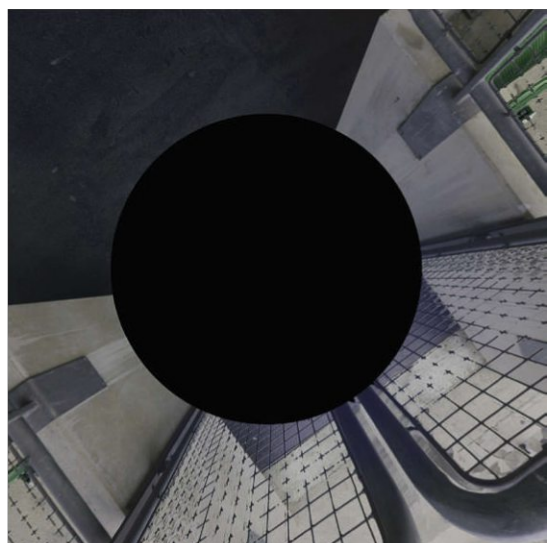
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_115_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_115_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_115_4.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_115_5.jpeg

DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_115.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

$X = -195449.96739$

$Y = 126557.71355$

$Z = 7267.42064$



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_116_0.jpeg



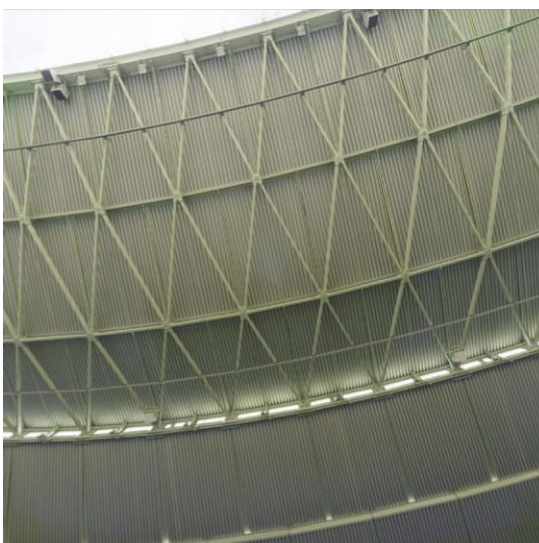
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_116_1.jpeg



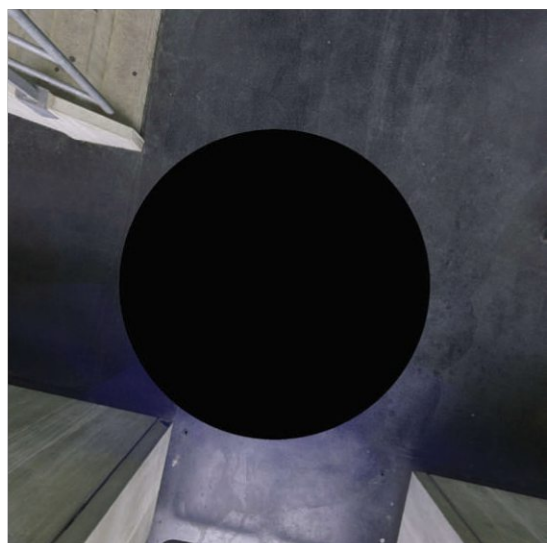
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_116_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_116_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_116_4.jpeg

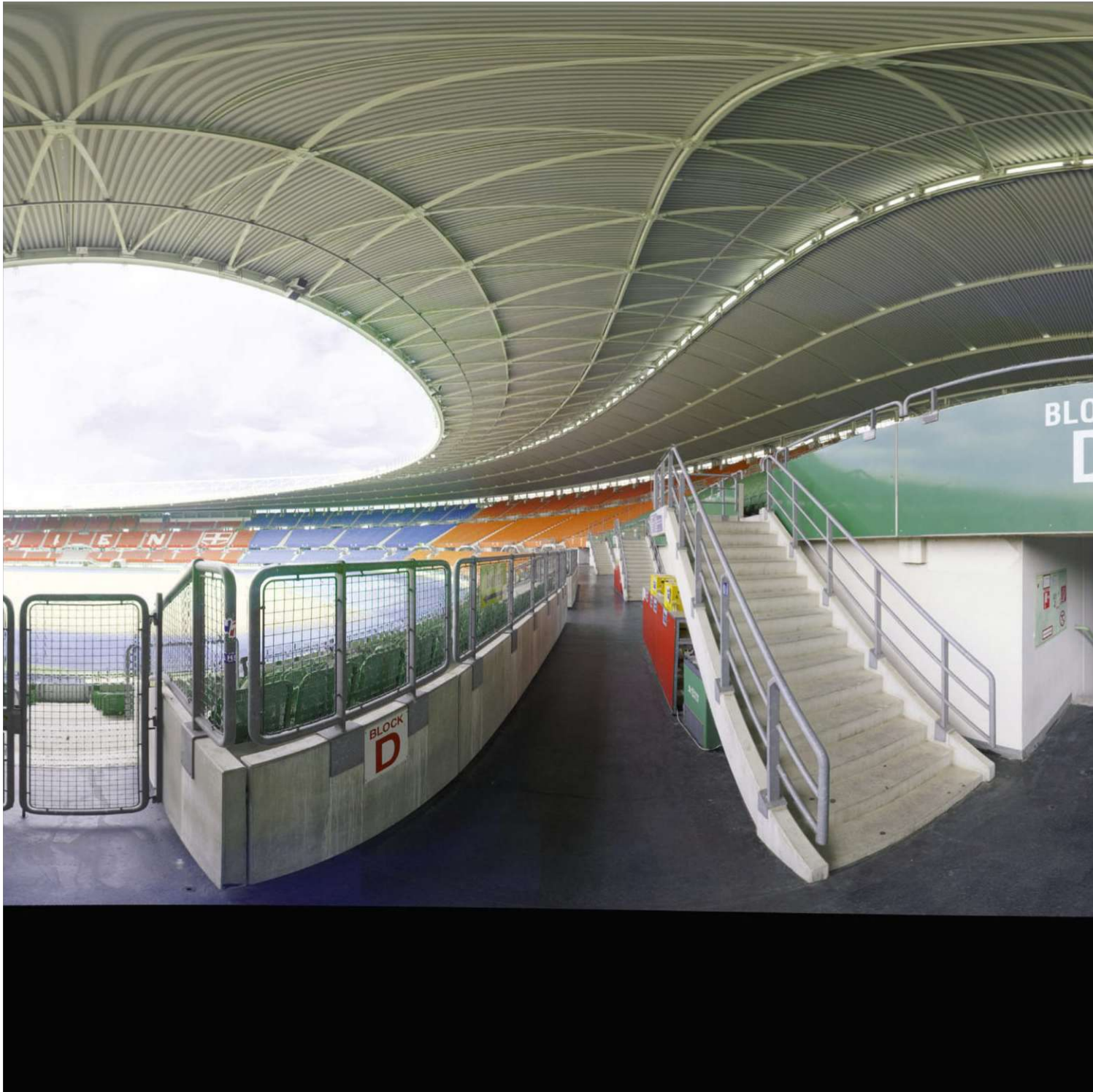


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_116_5.jpeg

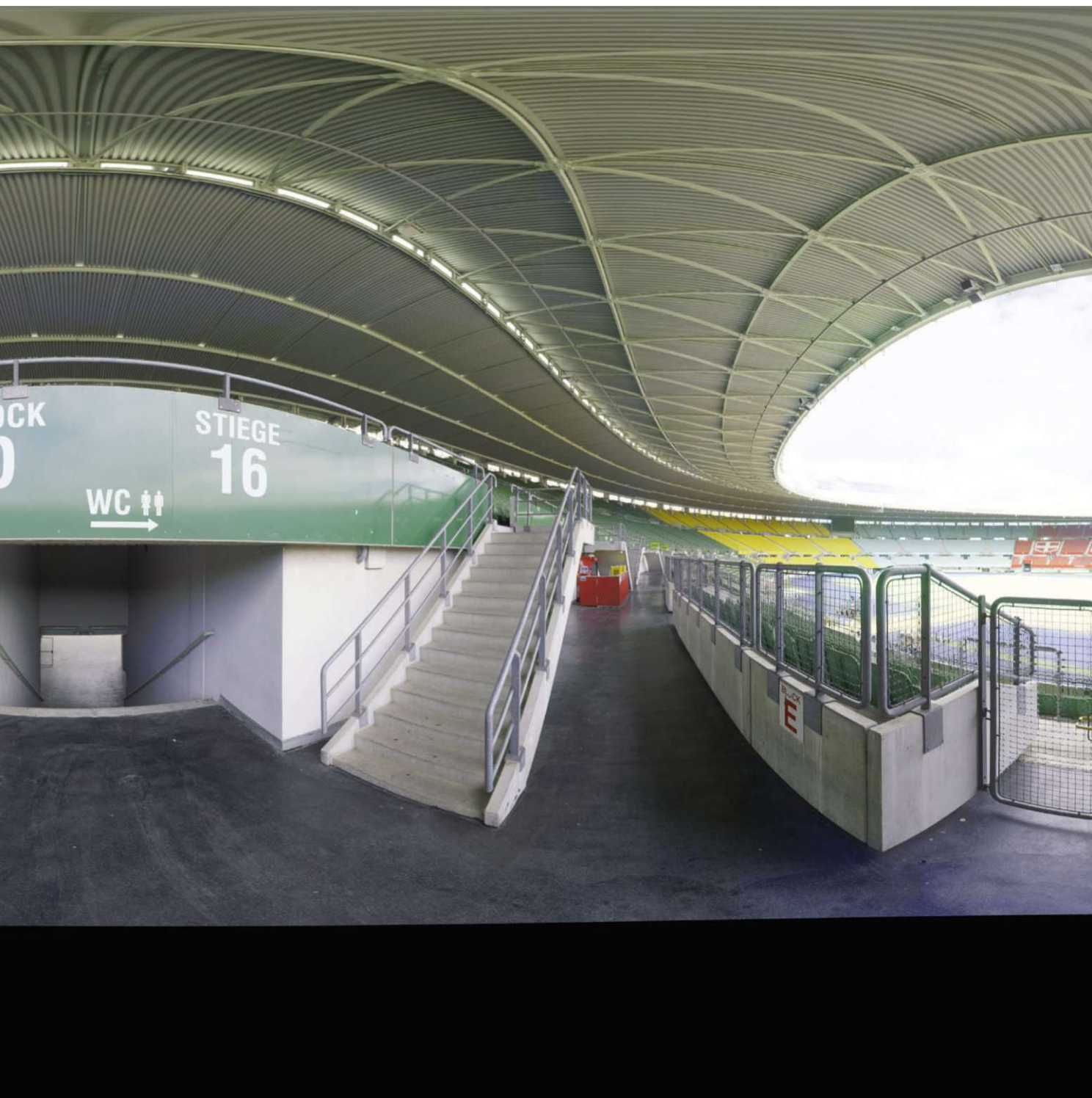
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_116.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

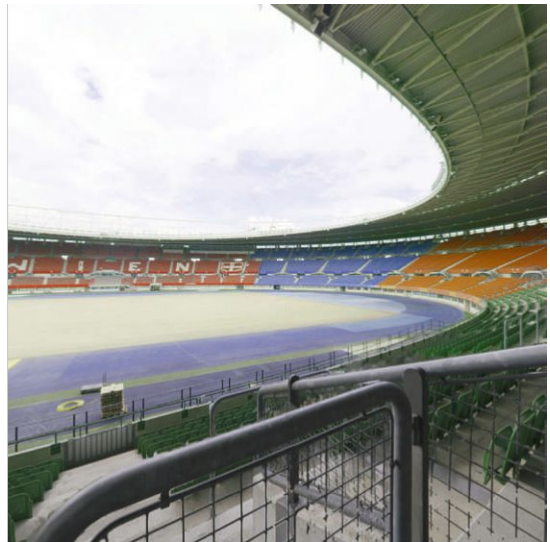
X = -173885.53677

Y = 128438.51481

Z = 7242.1115



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_117_0.jpeg



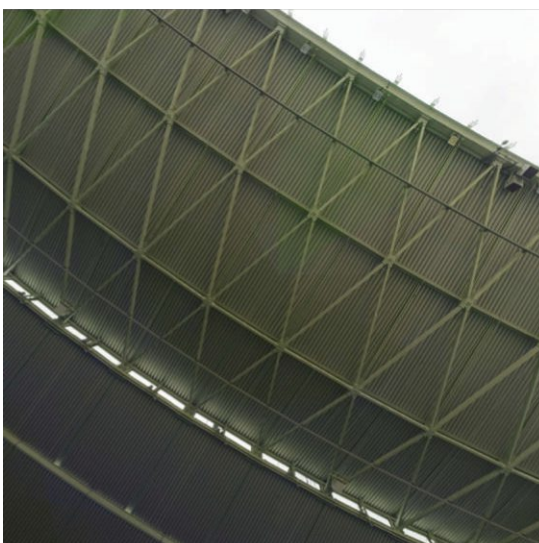
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_117_1.jpeg



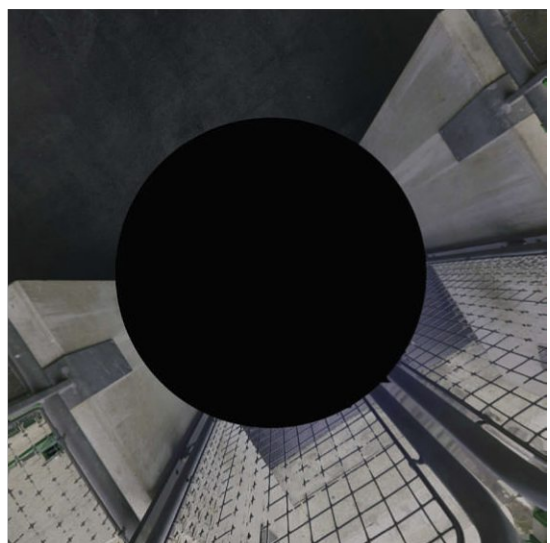
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_117_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_117_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_117_4.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_117_5.jpeg

DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_117.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

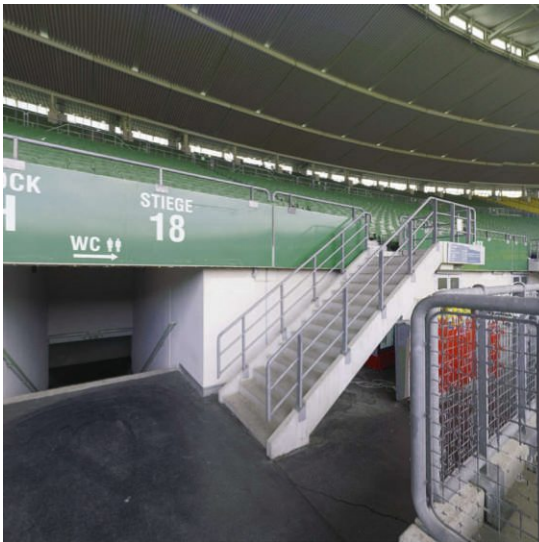
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

$X = -152601.45863$

$Y = 128747.4242$

$Z = 7255.72302$



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_118_0.jpeg



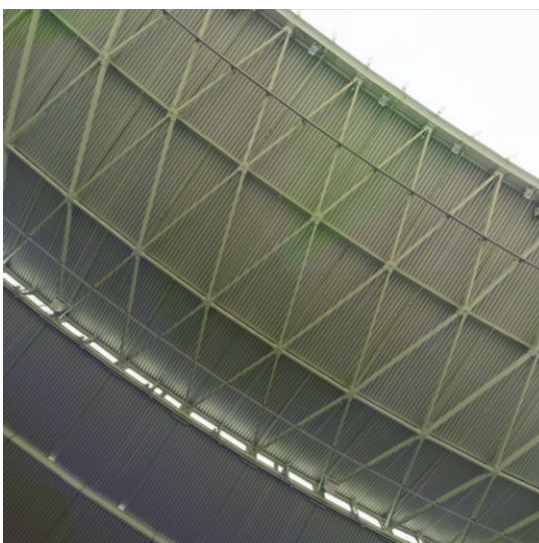
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_118_1.jpeg



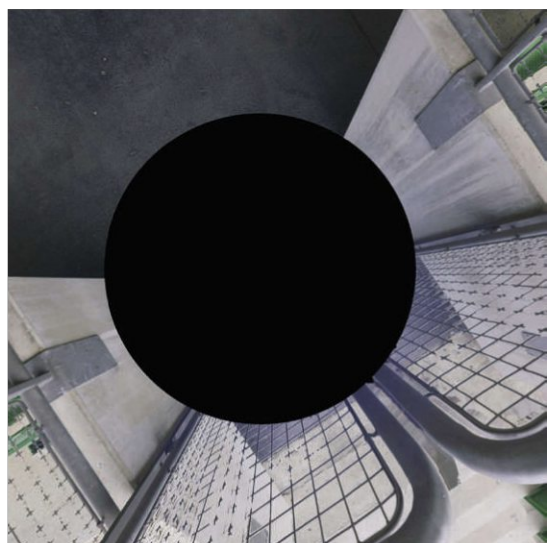
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_118_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_118_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_118_4.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_118_5.jpeg

DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_118.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

X = -131581.87075

Y = 126057.32721

Z = 7278.85441



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_119_0.jpeg



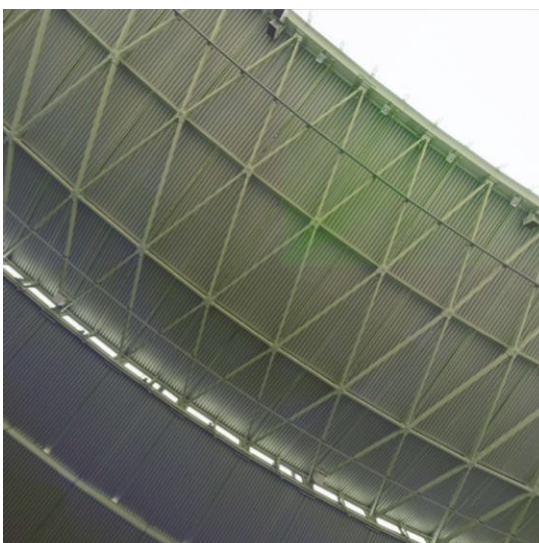
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_119_1.jpeg



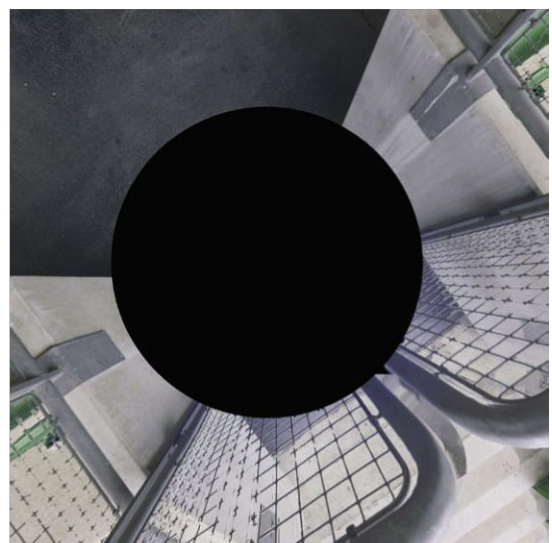
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_119_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_119_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_119_4.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_119_5.jpeg

DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_119.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

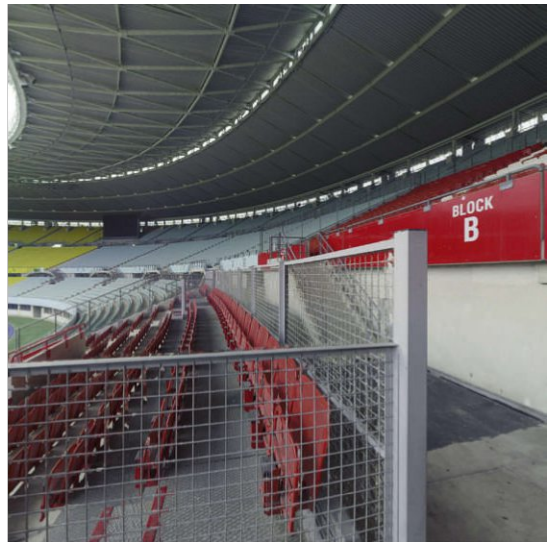
$X = -109259.52389$

$Y = -5736.83394$

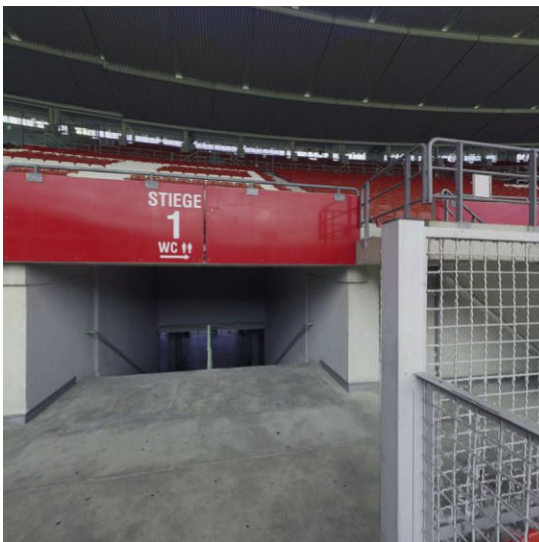
$Z = 7206.60379$



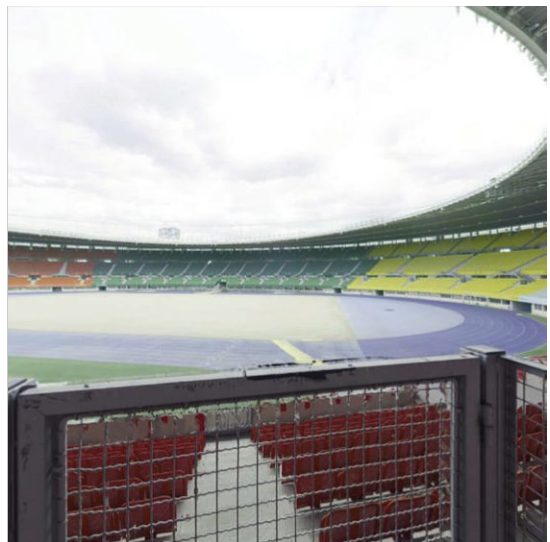
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_120_0.jpeg



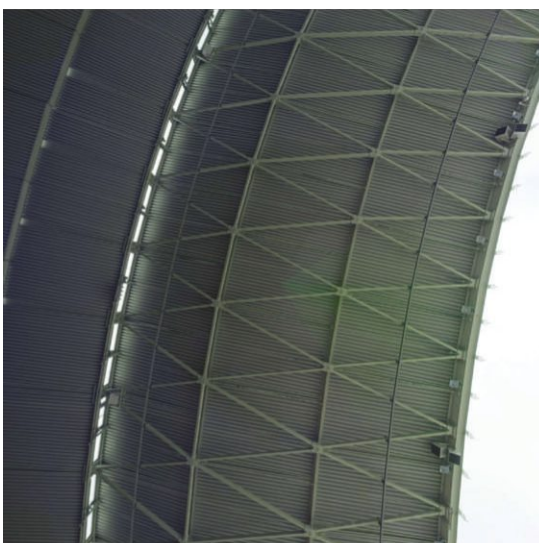
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_120_1.jpeg



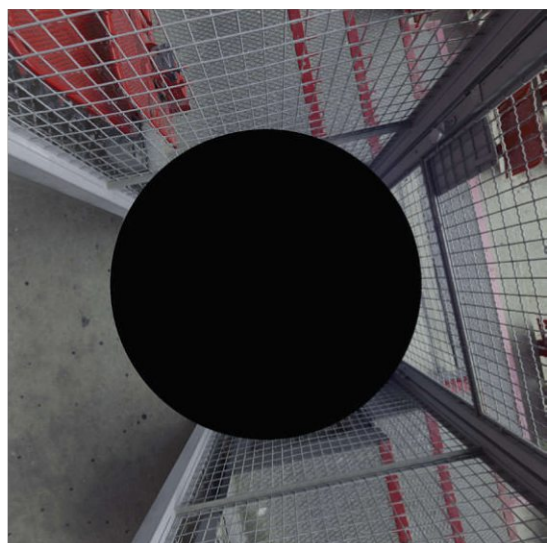
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_120_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_120_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_120_4.jpeg

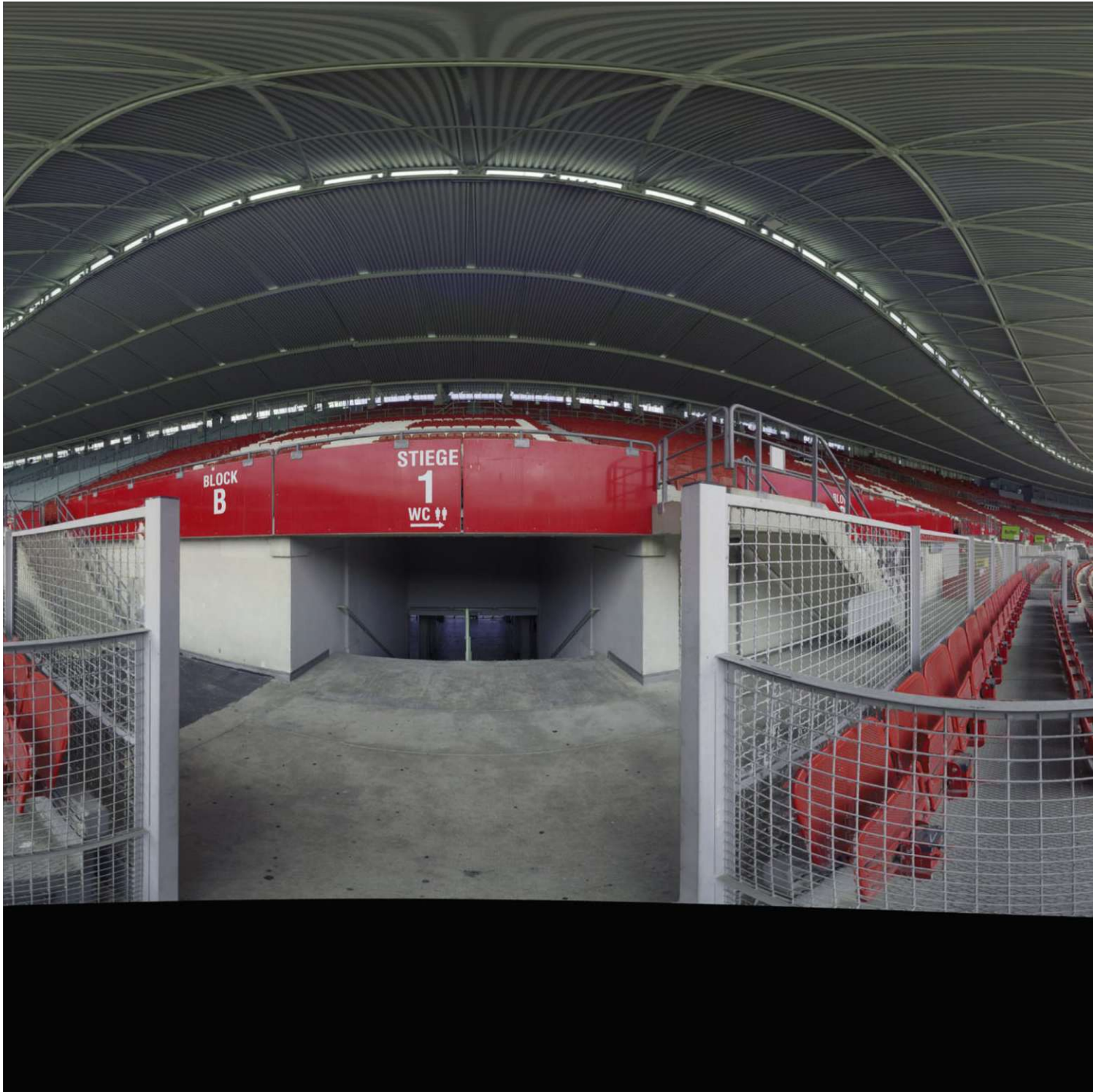


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_120_5.jpeg

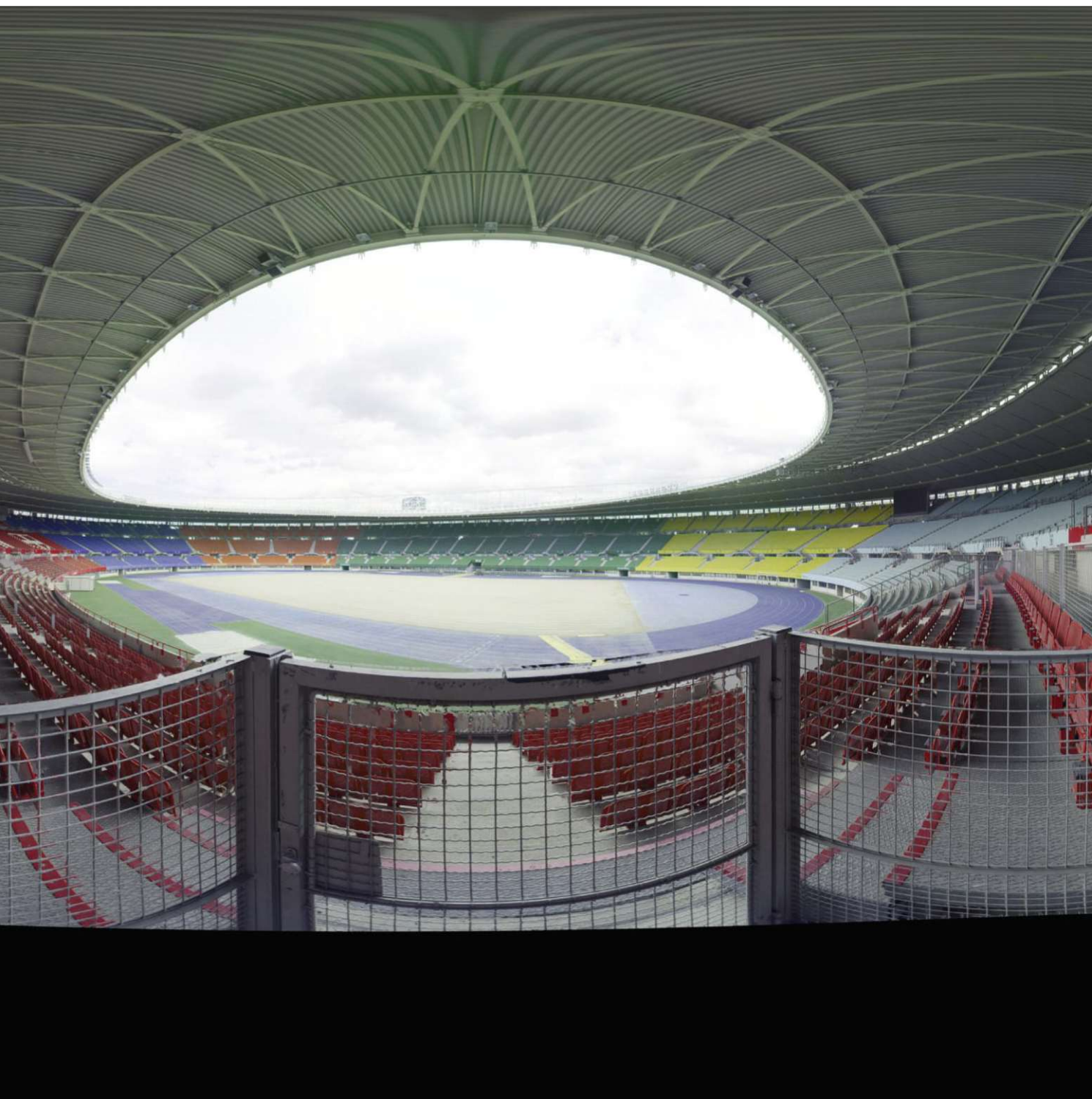
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_120.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

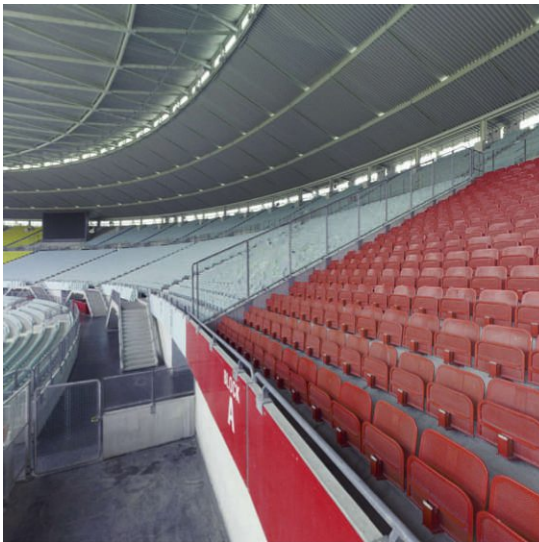
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

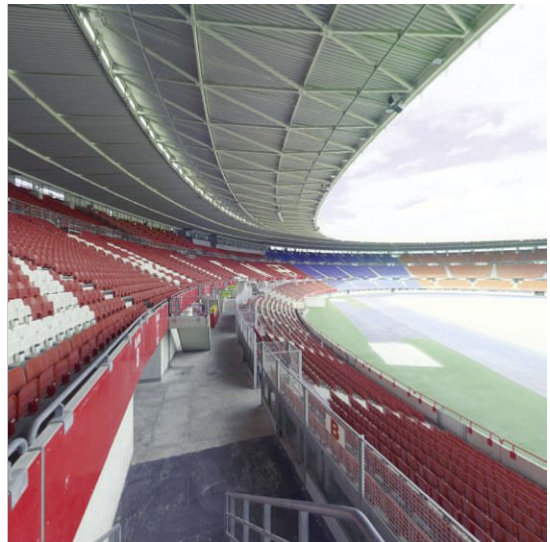
X = -98958.13932

Y = -4304.32716

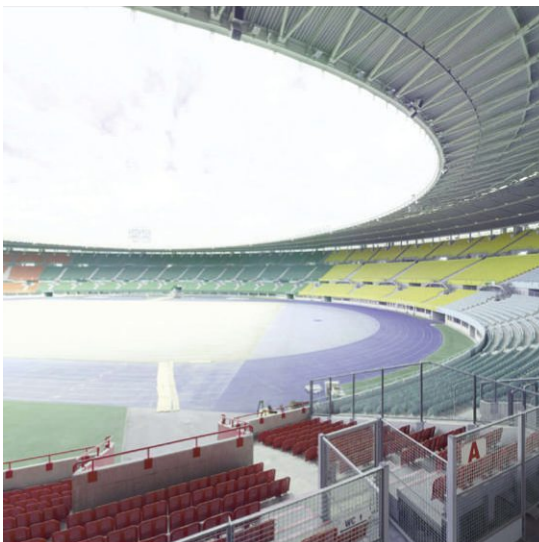
Z = 9733.70413



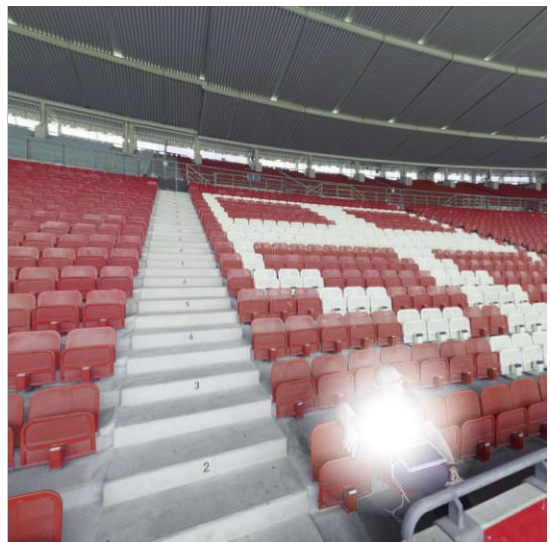
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_121_0.jpeg



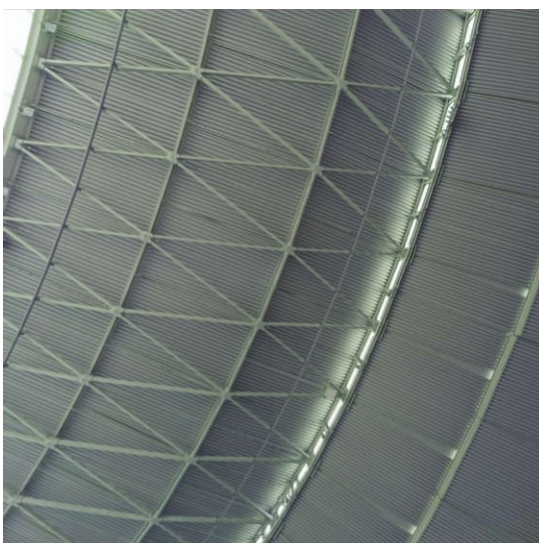
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_121_1.jpeg



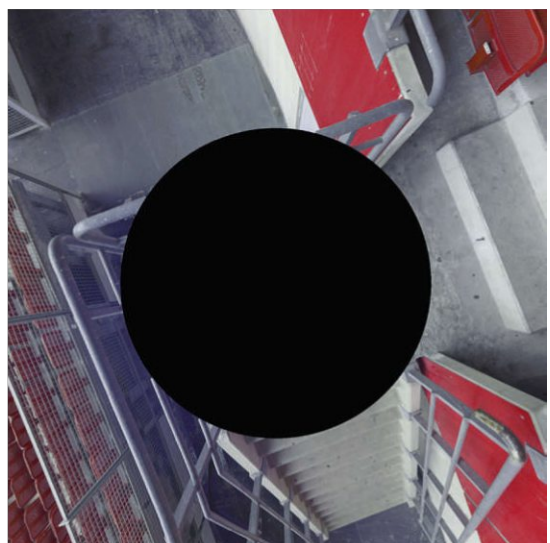
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_121_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_121_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_121_4.jpeg

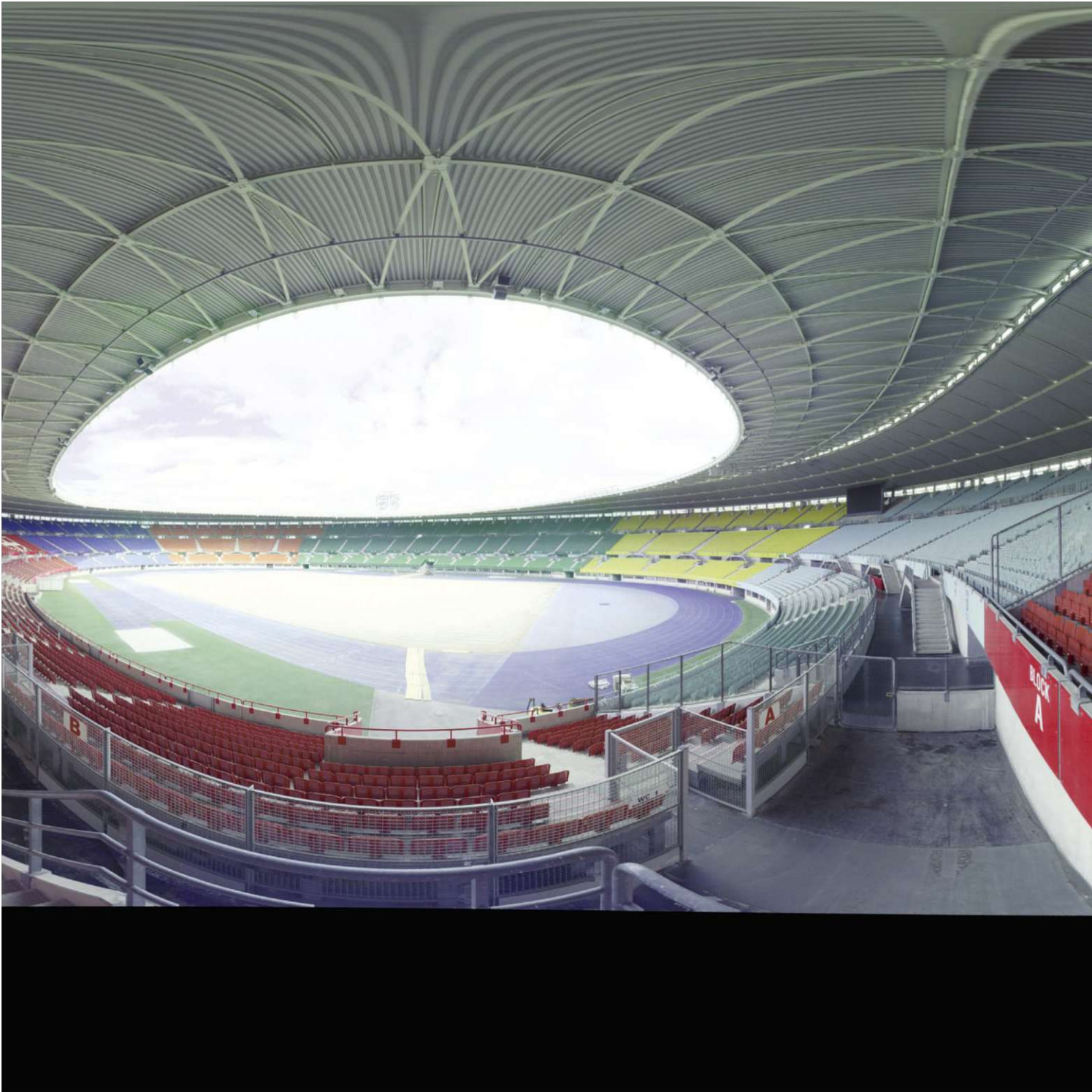


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_121_5.jpeg

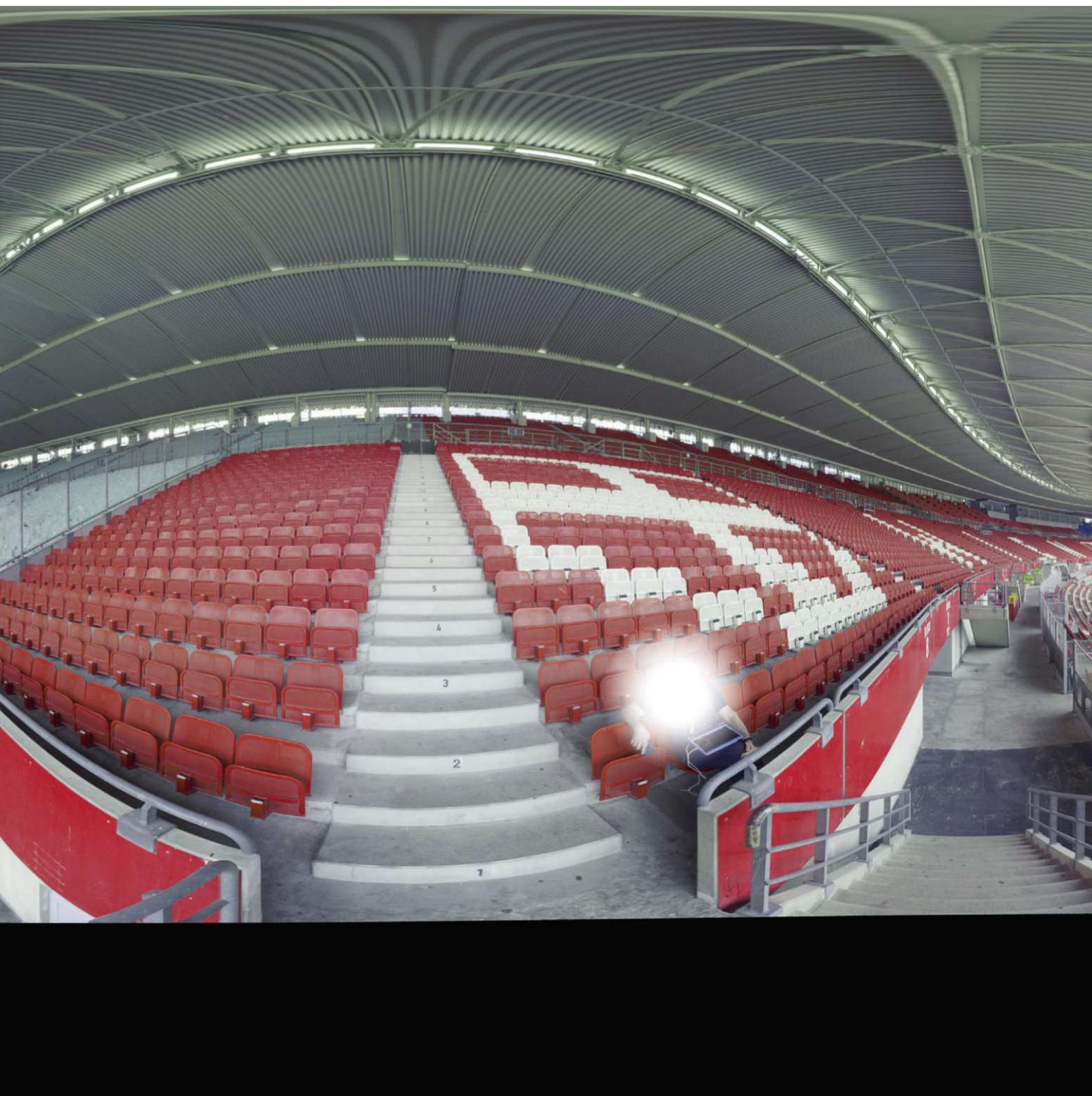
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_121.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

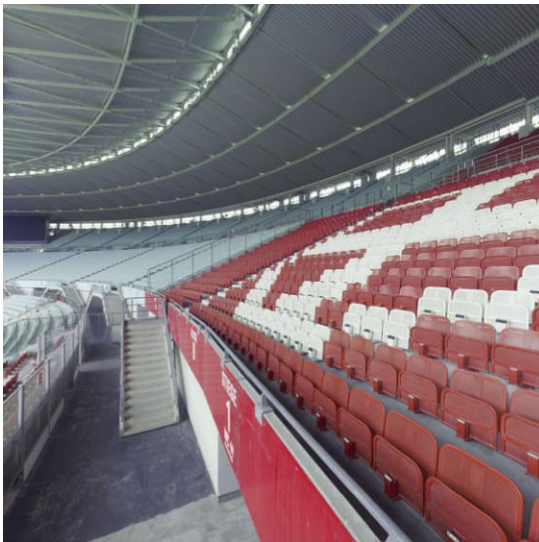
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

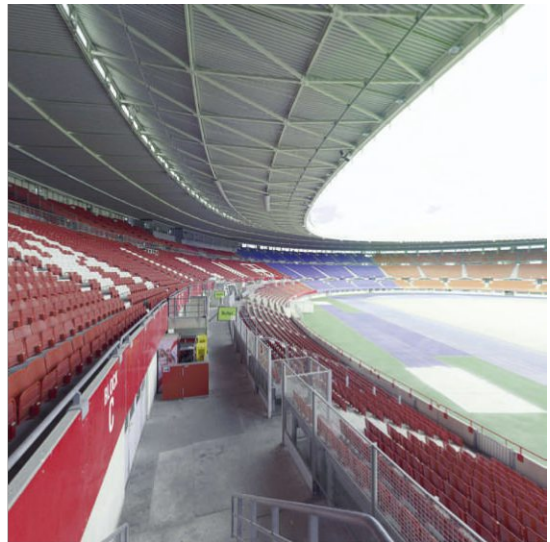
X = -110539.82741

Y = -9812.25017

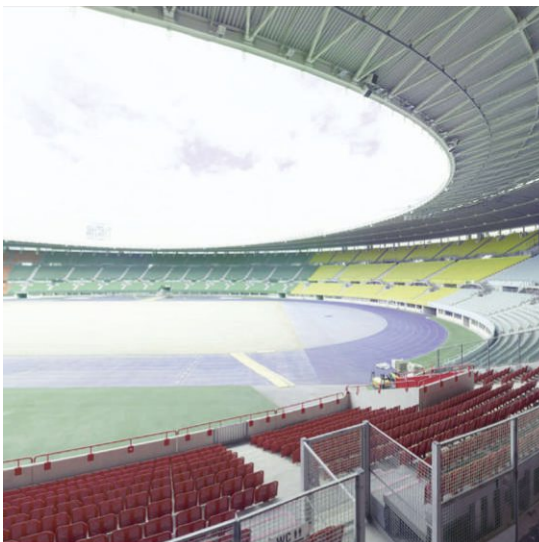
Z = 9731.70557



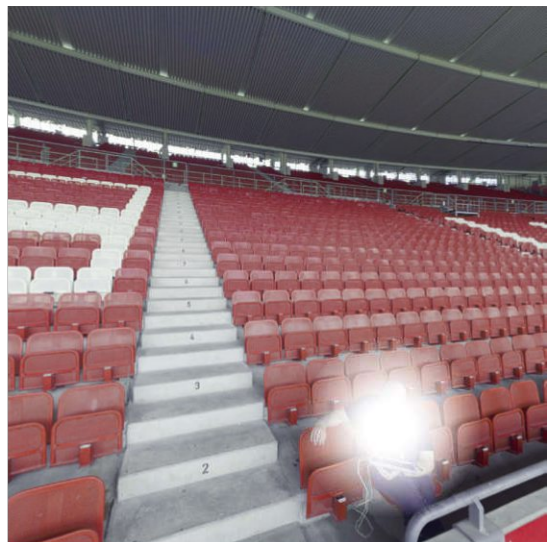
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_122_0.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_122_1.jpeg



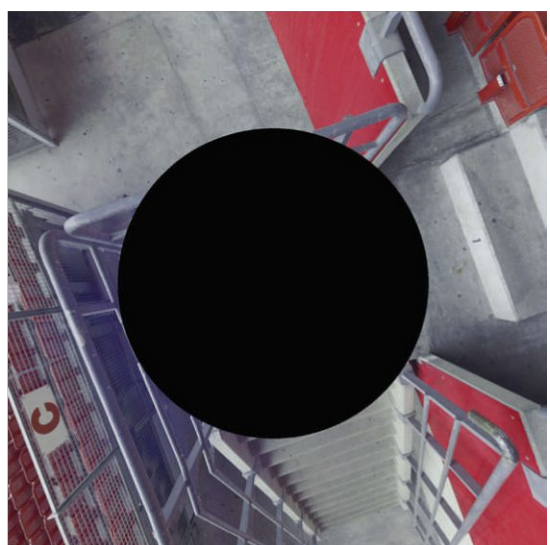
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_122_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_122_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_122_4.jpeg

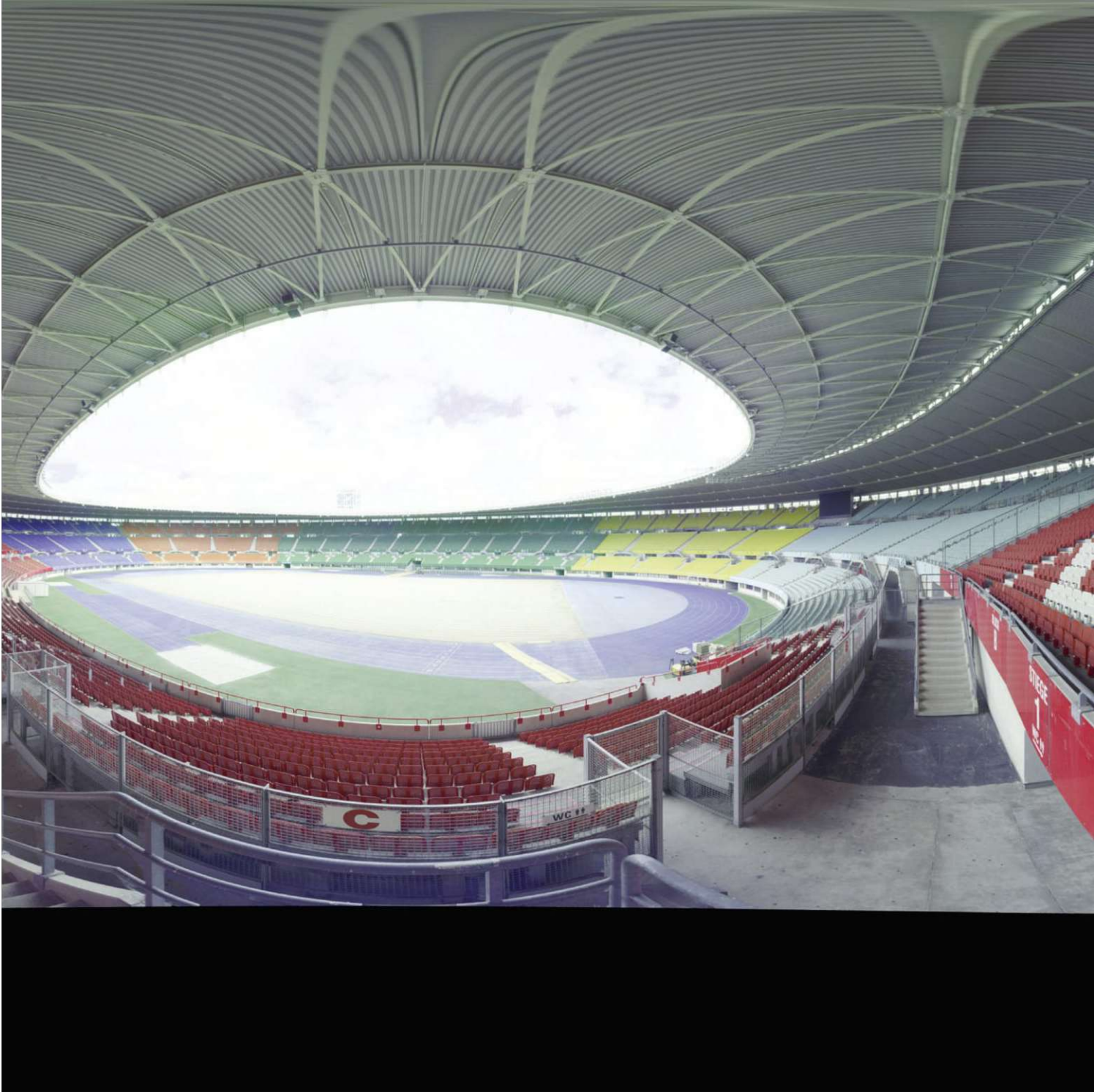


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_122_5.jpeg

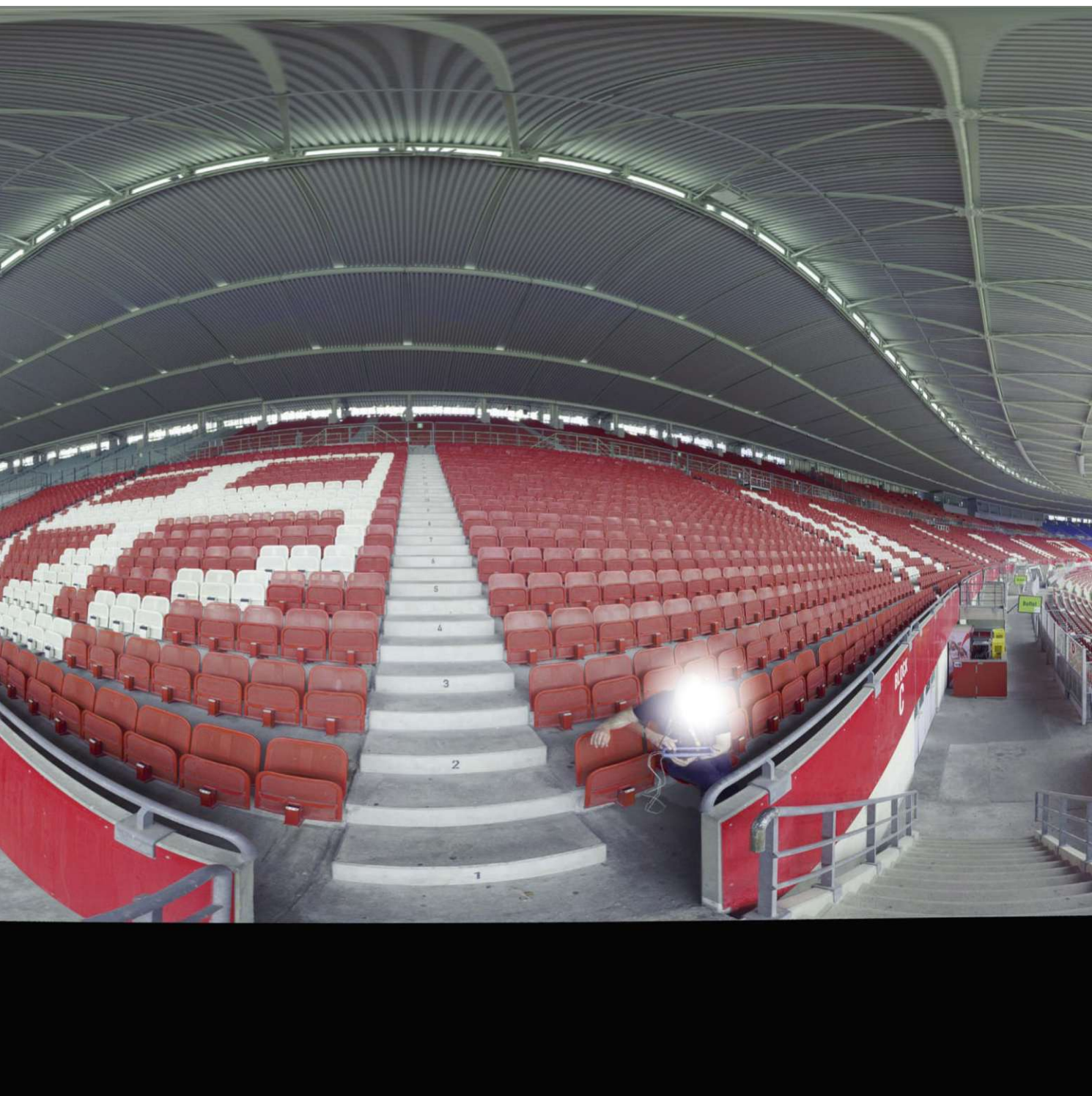
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_122.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

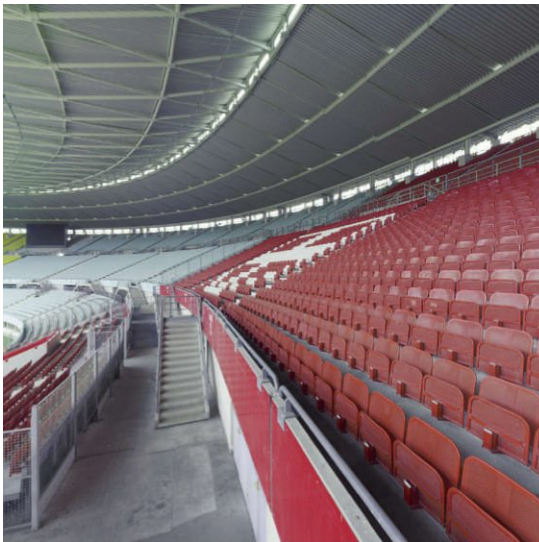
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

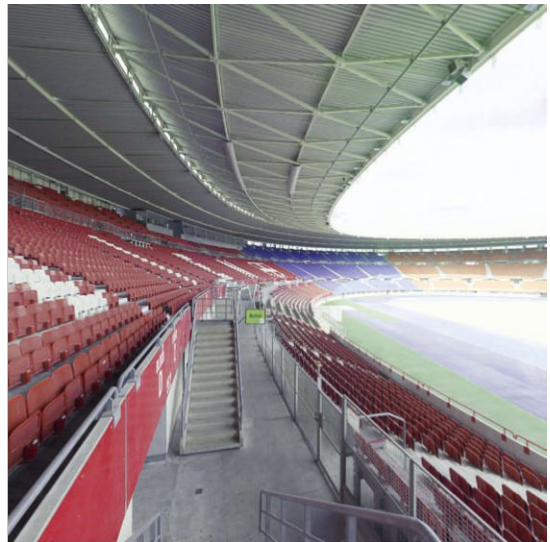
$X = -122702.98323$

$Y = -13898.04388$

$Z = 9734.19642$



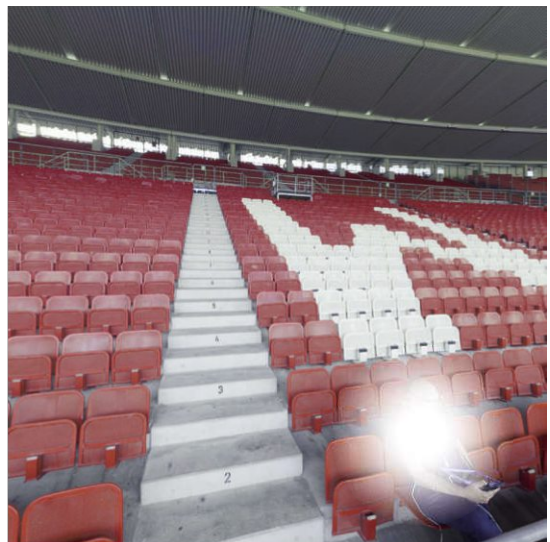
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_123_0.jpeg



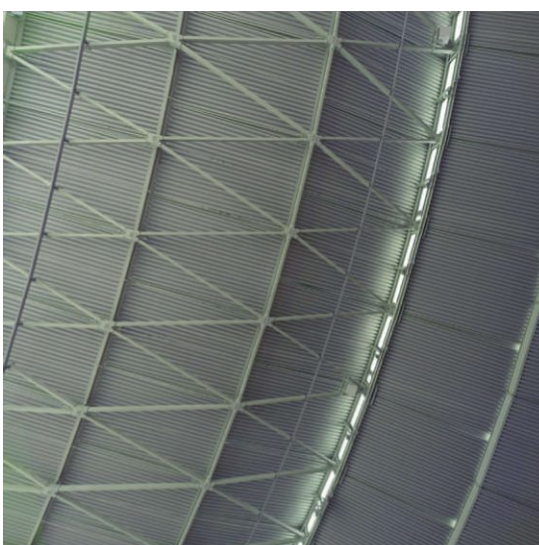
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_123_1.jpeg



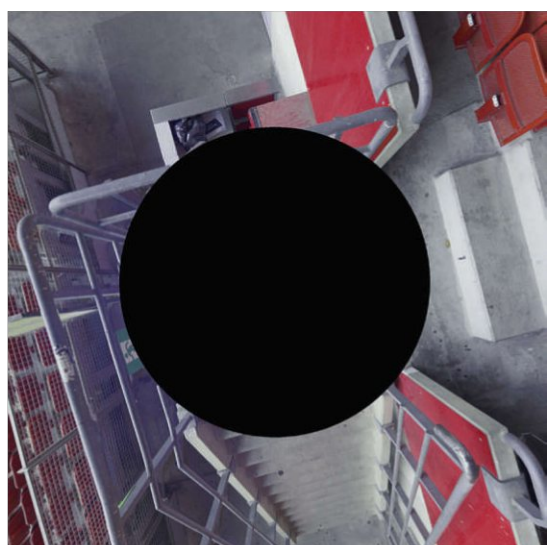
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_123_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_123_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_123_4.jpeg

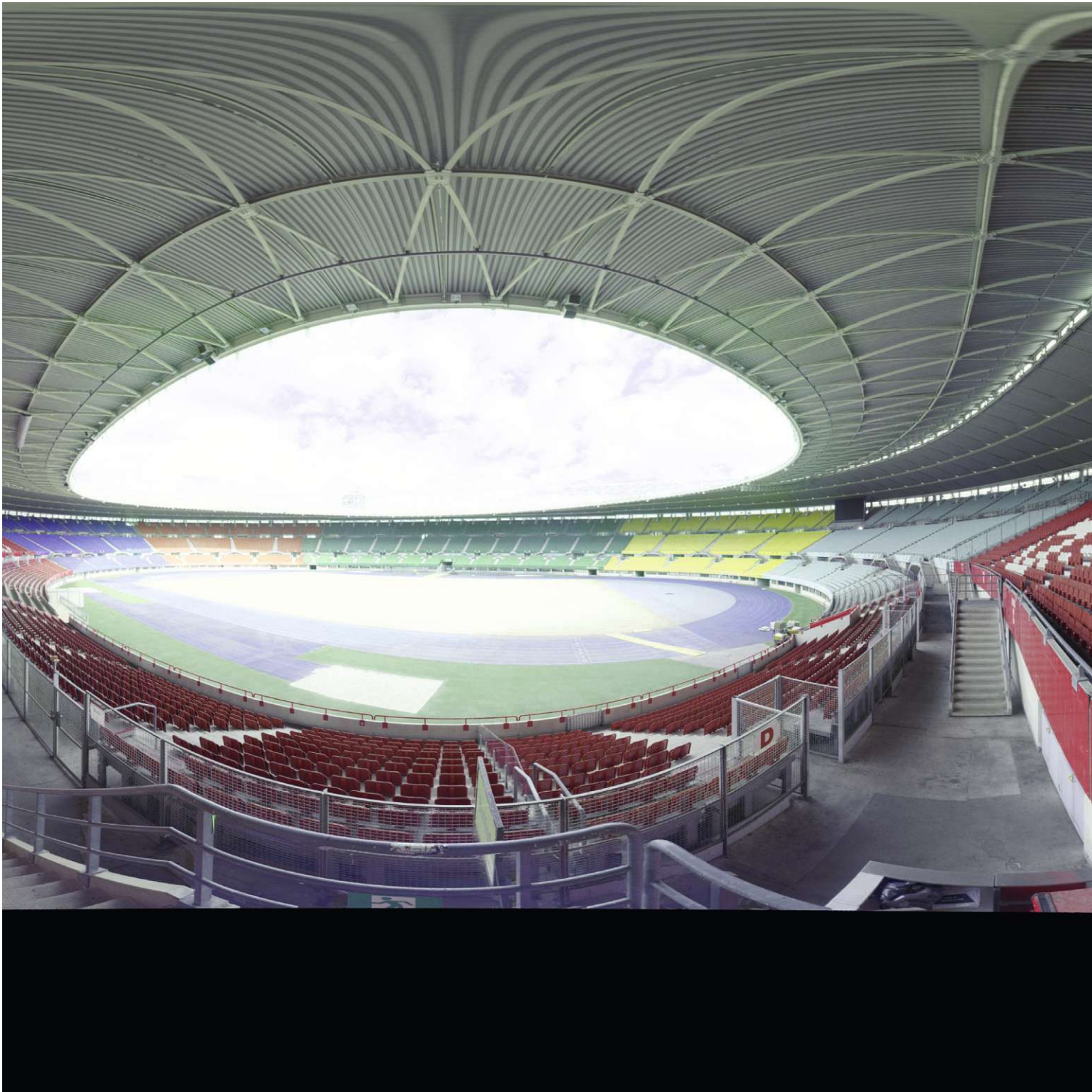


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_123_5.jpeg

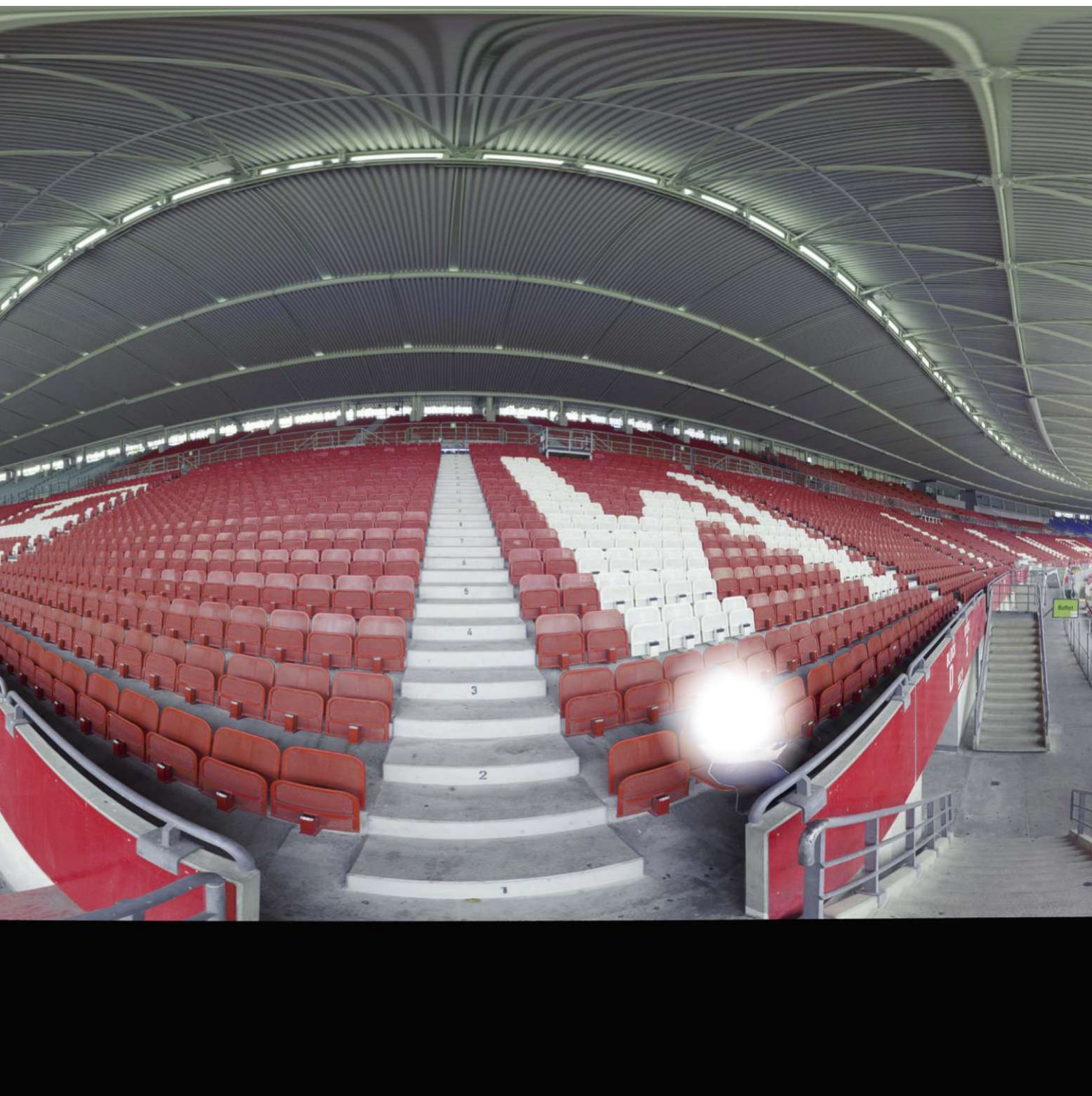
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_123.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

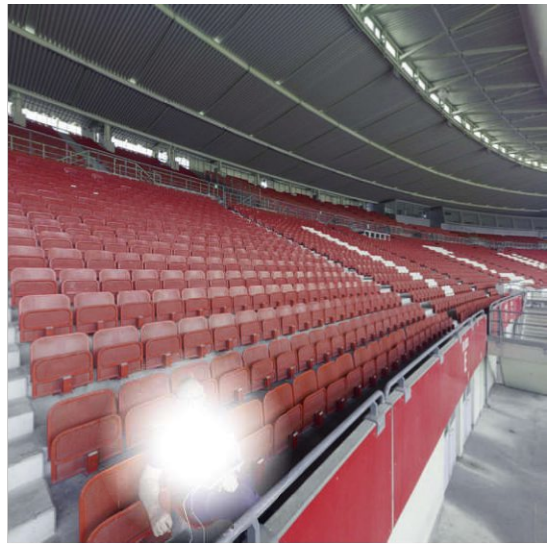
$X = -133658.42116$

$Y = -16465.43511$

$Z = 9735.25271$



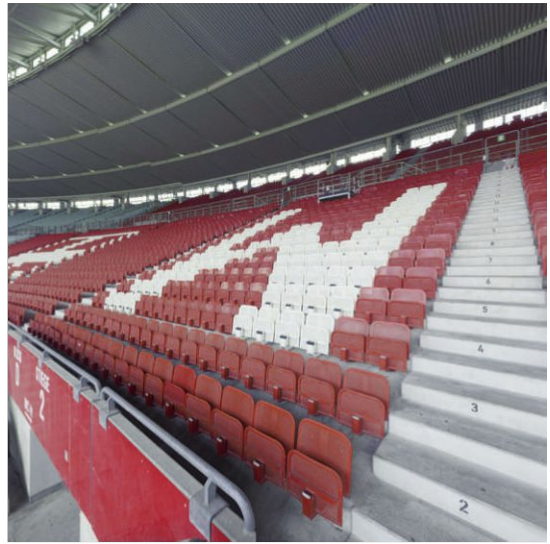
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_124_0.jpeg



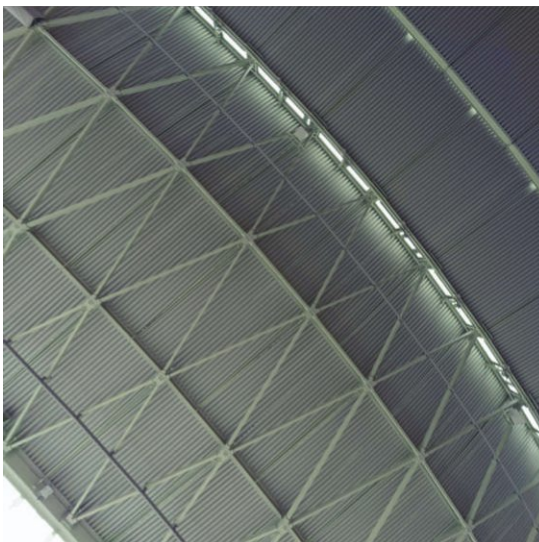
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_124_1.jpeg



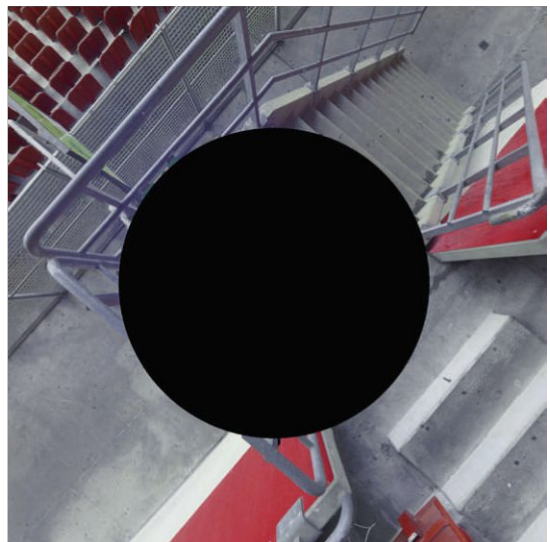
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_124_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_124_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_124_4.jpeg

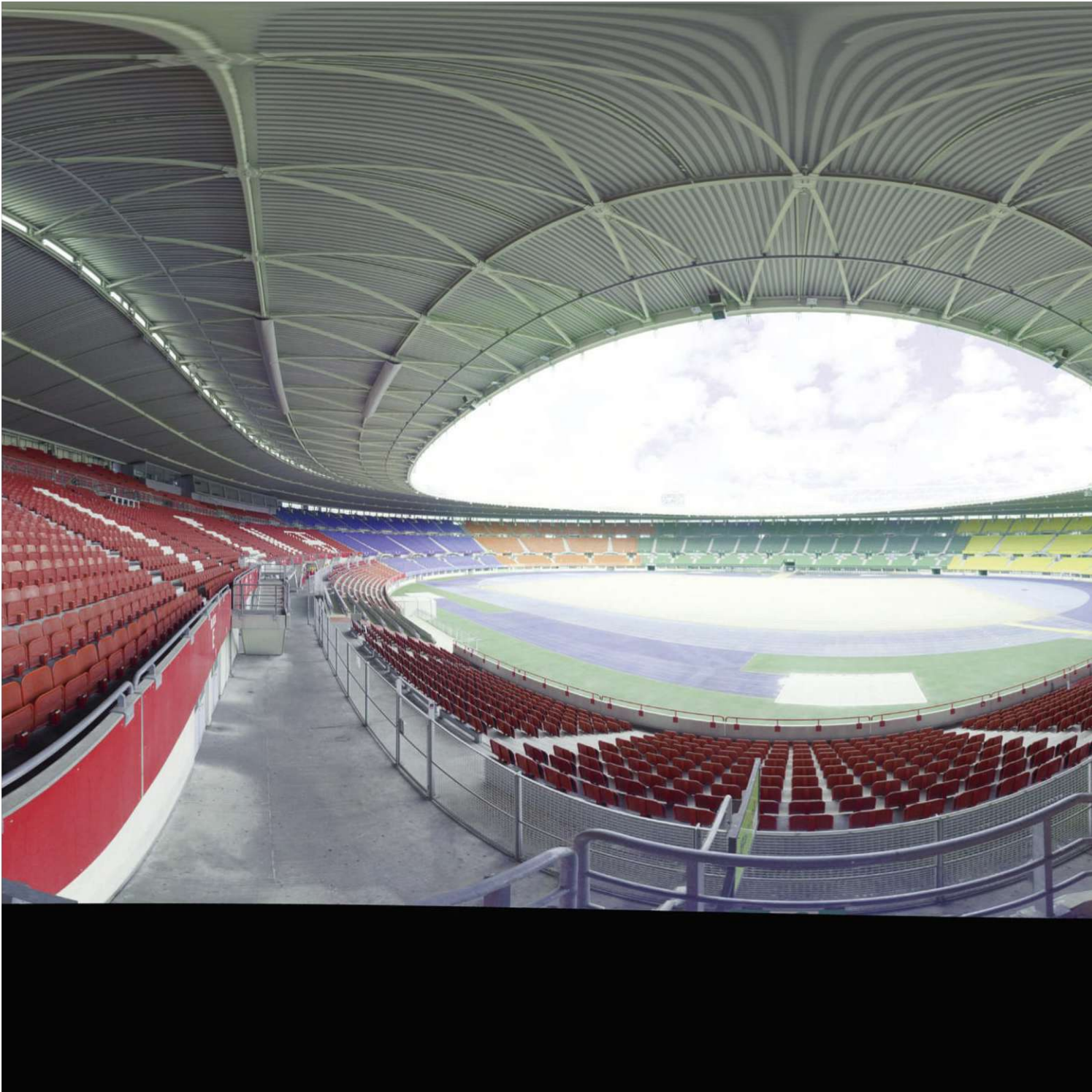


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_124_5.jpeg

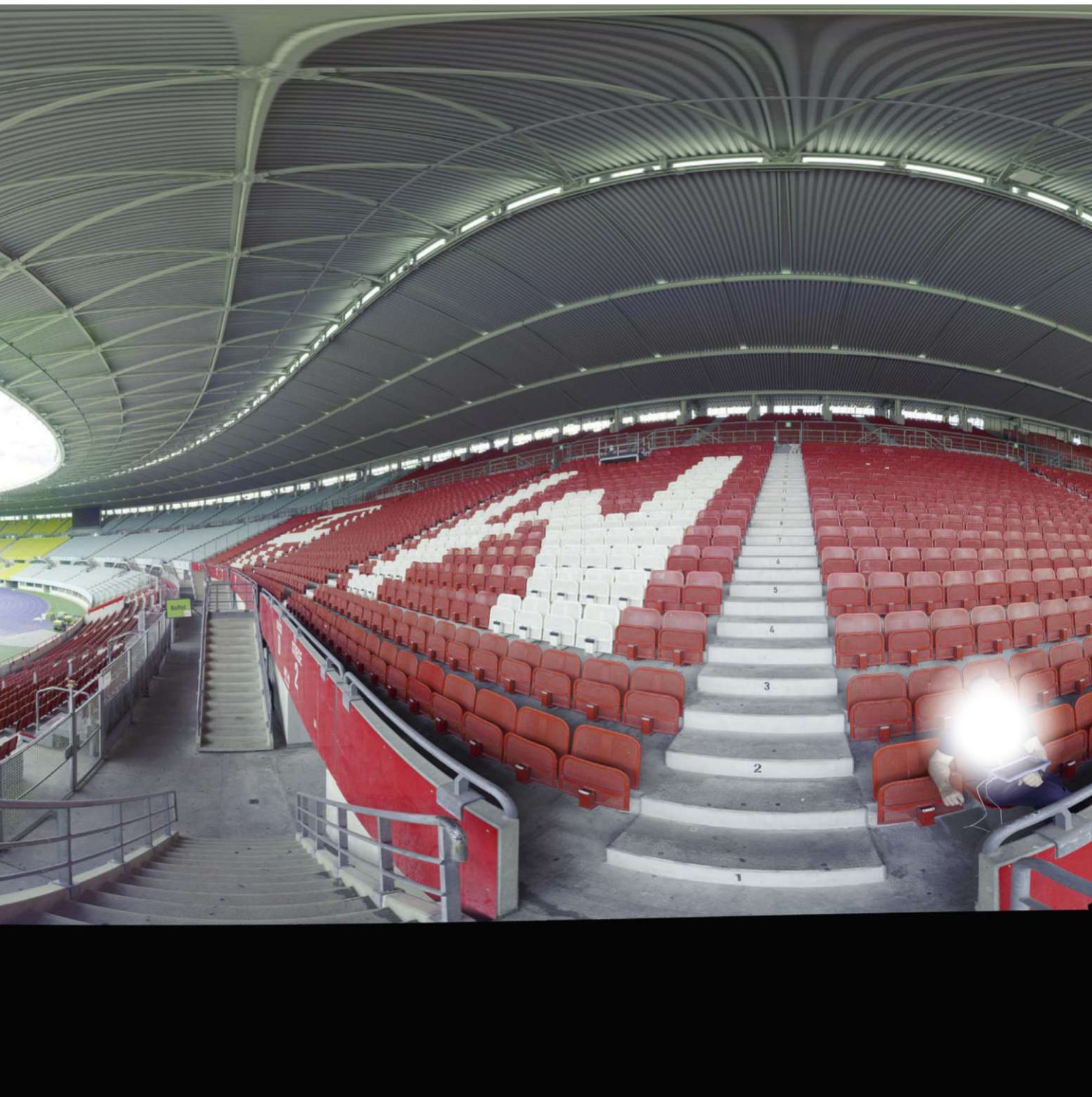
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_124.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN

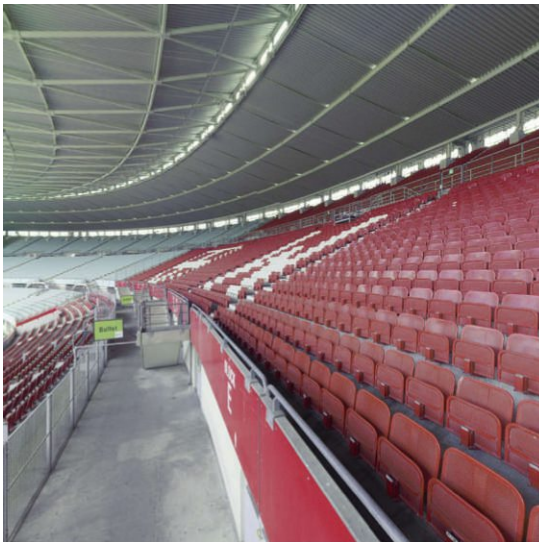
Standpunkt Messung | Koordinaten

3DReshaper camera external parameters

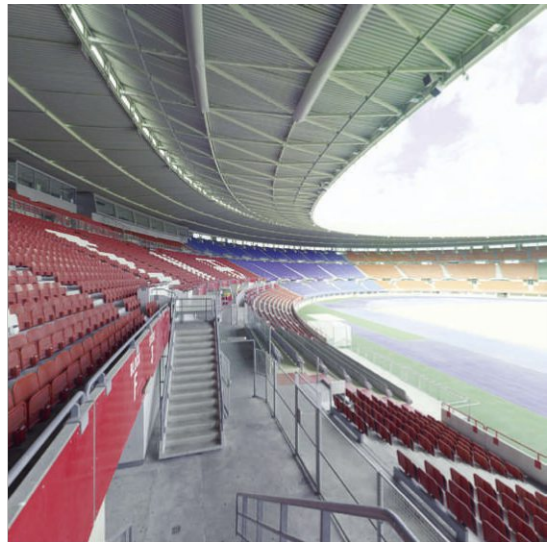
X = -143976.47511

Y = -18193.63891

Z = 9733.17686



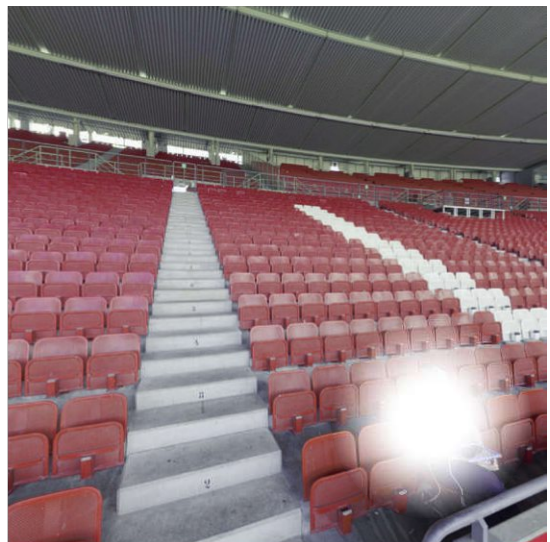
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_125_0.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_125_1.jpeg



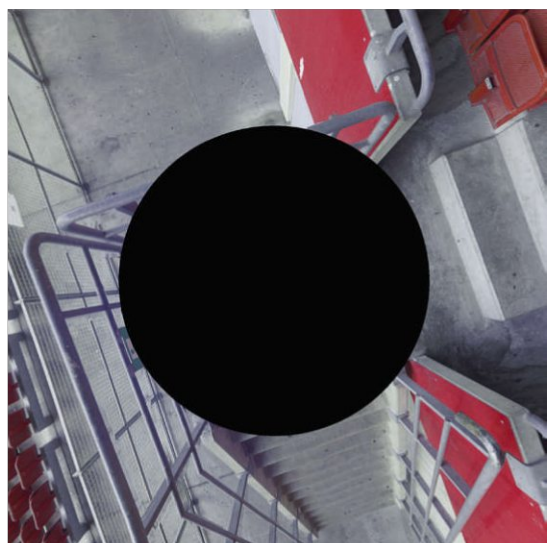
X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_125_2.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_125_3.jpeg



X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_125_4.jpeg

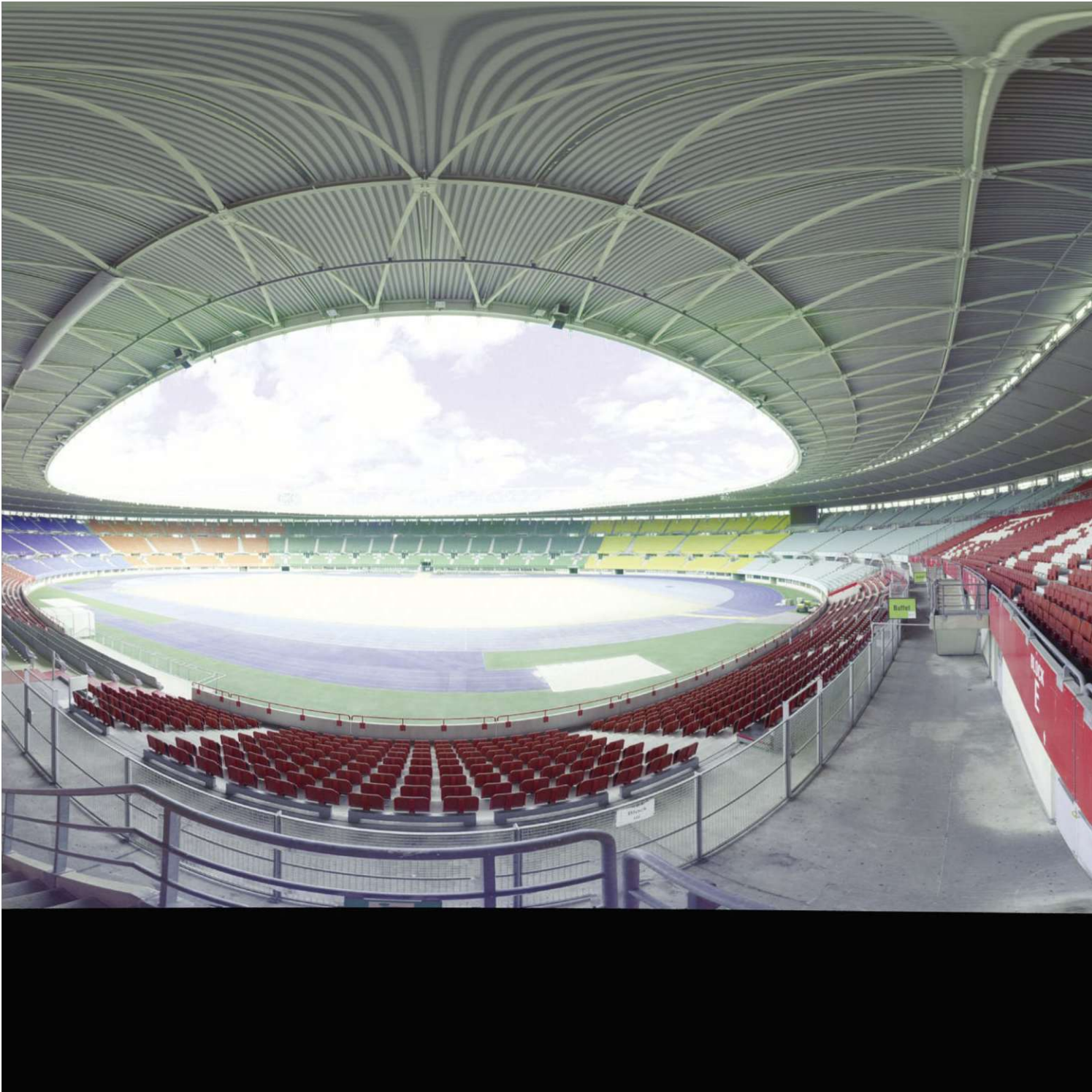


X_03_EHS_TRIBÜNEN_201223_03_EHS_TRIBÜNEN_125_5.jpeg

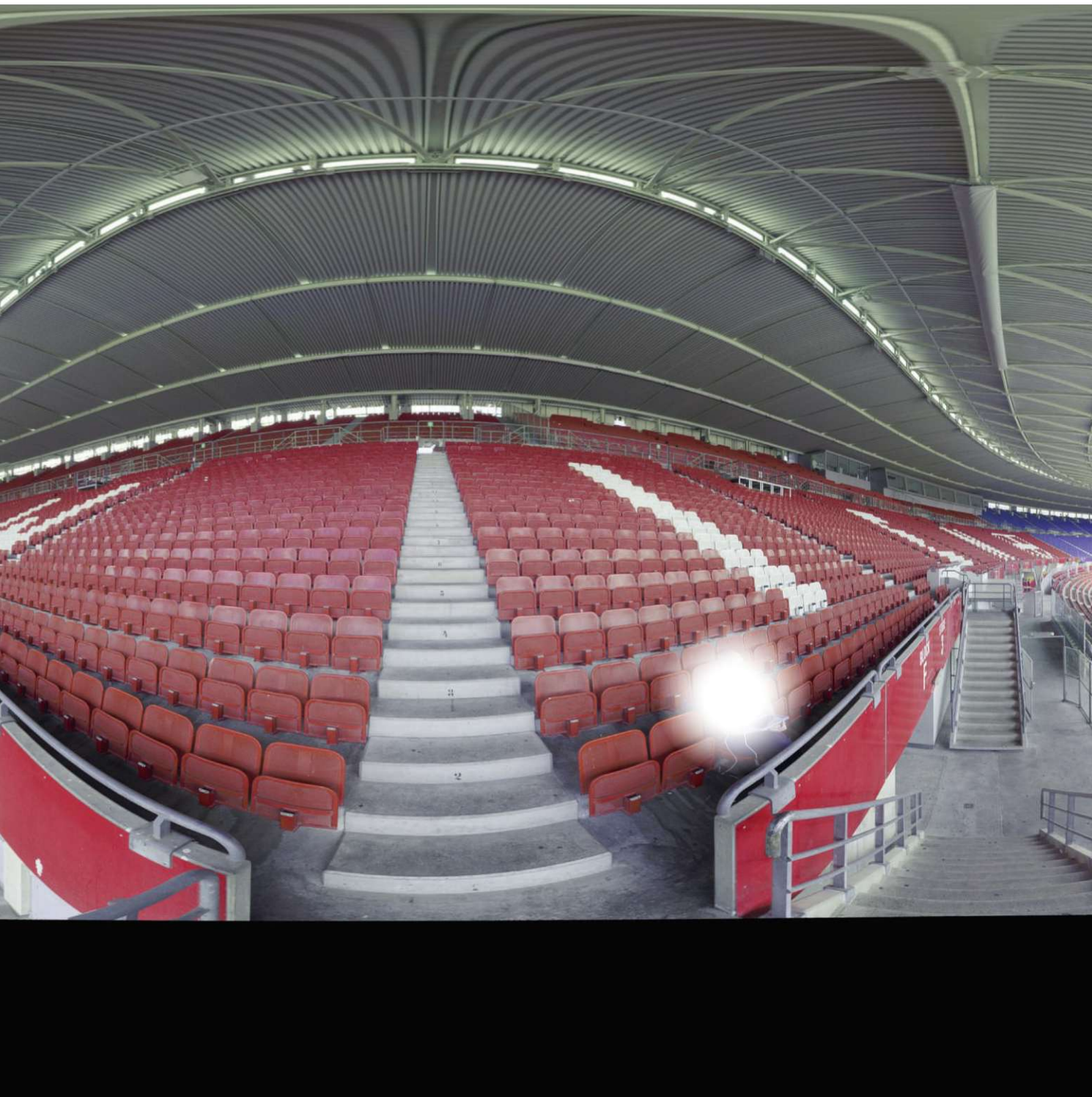
DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN



03_EHS_TRIBÜNEN_125.jpg



DAS WIENER ERNST HAPPEL STADION

KAPITEL 3_Buch 4b | 3D BESTANDSVERMESSUNG UND FOTODOKUMENTATION

EHS_TRIBÜNEN