

References

Wyssen Avalanche Control AG



Safety through **innovation**



Alta Ski Area



Place: Alta, Utah

Country: USA

Protected Object(s):

Ski Resort

Installed Systems:

14x Avalanche Tower LS12-5

Year:

Installation 2021 - 2023

Future:

5 more towers are planned for 2025!

Andermatt-Sedrun Sport AG

SkiArena
ANDERMATT  SEDRUN

Place: Andermatt, UR

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

6x Avalanche Tower LS12-5

WAC.3[®] operational software:
Cockpit, Assessment, Explosives,
Helicopter control via digital
radio device

Year:

Installation since 2003

*Photo credits: © Andermatt-Sedrun
Sport AG*

Anglo American División Los Bronces



Place: Los Bronces

Country: Chile

Protected Object(s):

Copper Open Pit Mine

Installed Systems:

43x Avalanche Tower LS12-5

7x GINA® Geophones in
Avalanches

9x LIA® Laser Scanner

Construction:

Construction installation of all
Wyssen RACS in high altitude

Year: Installed in 2018-2023



ASFINAG

A|S|F|i|N|A|G

Place: Flachauwinkl, Salzburg

Country: Austria

Protected Object(s):

A10 Tauern Highway

Installed Systems:

3x Avalanche Tower LS12-5

1x Weather station

1x LIA® Laser Scanner

1x Stand Alone Weather station

Year:

Installed in 2020



ASTRA

Lawinendienst 2TG - Brückenbaustelle Simplonpass



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Bundesamt für Strassen ASTRA


Place: Airolo TI, Göschenen UR
Simplon pass VS

Country: Switzerland

Protected Object(s):

Road, Construction site
second tube Gotthard, Bridge
construction site

Installed Systems:

1x Avalanche Tower LS12-5
IDA® Infrasonnd Detection System
WAC.3® operational Software:
Cockpit and Assessment
Safety Concept from  **geoformer**
INGENIEURE, GEOLOGEN, PLANER

Year:

Installed in 2021 and 2022

Photo credits: © Andrea Dotta



**avalanche
control**

Arosa Bergbahnen AG



Lässt Herzen höher schlagen.

Place: Arosa, GR

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

4x Avalanche Tower LS12-5

WAC.3[®] operational software:
Cockpit and Explosives

Year:

Installed in 2020 and 2021

Photo credits: © Arosa Tourismus, Nina Mattli

Avers Skibetriebs AG



Place: Cresta (Avers), GR

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

1x Avalanche Tower LS12-5

2x Weather Station

WAC.3® Cockpit

Year:

Installed in 2017 and 2020

Photo credits: © demateo.com

Berg- & Skilift Hochsöll GmbH & Co. KG



Söll

Place: Söll, Tyrol

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

1x Avalanche Tower LS12-5

Year:

Installed in 2012

*Photo credits: © Berg- & Skilift Hochsöll
GmbH & Co. KG*

Bergbahn AG Kitzbühel

The KitzSki logo consists of the word "KitzSki" in a white, bold, sans-serif font, set against a solid red rectangular background.

Place: Kitzbühel, Tyrol

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

4x Avalanche Tower LS12-5

Year:

Installed in 2015 and 2018

Photo credits: © KitzSki_werlberger

Bergbahnen Engstligenalp AG

Adelboden
Engstligenalp

Place: Adelboden, BE

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

2x Avalanche Tower LS12-5

1x Bomb Tramway

Year:

Installed in 2000 and 2015

Remark:

The very first Avalanche Tower installed worldwide!

Bergbahnen Hohsaas AG

Saas-Grund
Hohsaas Bergbahnen

Place: Saas-Grund, VS

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

WAC.3[®] operational Software:
Cockpit, Assessment,
Explosives, Helicopter control

Year:

Installed in 2021

Photo credits: © Bergbahnen Hohsaas AG

Bergbahnen Kühtai GmbH & Co KG



Place: Kühtai, Stubai Alps

Country: Austria

Protected Object(s):

Access Roads and Ski Resort

Installed Systems:

3x Avalanche Tower LS12-5

Year:

Installed in 2013 and 2018

Bergbahnen Obertauern GmbH



Place: Obertauern

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

8x Avalanche Tower LS12-5

3x Signal horn

Year:

Installed in 2012 and 2013

Photo credits: © Bergbahnen Obertauern GmbH

Bergbahnen Samnaun AG & Gemeinde Samnaun



Place: Samnaun, GR

Country: Switzerland

Protected Object(s):

Ski Resort, Road and
Residential Area

Installed Systems:

90x Avalanche Tower LS12-5
1x Avalanche Tower LS24-5 in
test

WAC.3[®] operational software:
Cockpit, Assessment,
Piste inspection

Year:

Installation since 2001

Bergbahnen See Ges.m.b.H.



Place: See, Paznaun Valley

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

5x Avalanche Tower LS12-5

1x Signal horn

Year:

Installed in 2016 and 2022

Photo credits: © www.bergbahn.com

Bergbahnen Silvretta Galtür GmbH & CO Kg

SILVAPARK.AT



Place: Galtür, Tyrol

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

4x Avalanche Tower LS12-5

Year:

Installed in 2009, 2011, 2016

*Photo credits: © Bergbahnen Silvretta
Galtür GmbH & Co Kg*

Canadian National Railway Company



Place: Valemount

Country: Canada

Protected Object(s):

Railway

Installed Systems:

2x Avalanche Tower LS12-5

Year:

Installed in 2019-2022

Clearance of former ammunition storage Mitholz VBS

Place: Kandergrund, BE
(Mitholz)

Country: Switzerland

Protected Object(s):
Construction site / clearance
of former ammunition storage

Installed Systems:
WAC.3[®] Cockpit

Year:
Installed in 2023

Codelco Andina



Place: Los Andes, V Región

Country: Chile

Protected Object(s):

Copper Open Pit Mine

Installed Systems:

51x Avalanche Tower LS12-5

8x SARA®, 12x GINA®, 4xLIA®

WAC.3® operational software:
Cockpit, Assessment and Explosives

Construction:

Construction installation of 33x
Wyssen RACS in high altitude

Services:

Winter operation in Andina Mine
2018-2024

Year: Installed in 2018-2024

Colorado Department of Transportation, CDOT



Place: Lizard Head Pass, CO

Country: USA

Protected Object(s):

Highway 145

Installed Systems:

5x Avalanche Tower LS12-5

Year:

Installed in 2020

Future:

3 more Towers are planned for 2025 and 12 additional in 2026!

Photo credits: © Roz Reynolds

Commune d'Evolène



Place: Evolène, VS
Country: Switzerland

Protected Object(s):
Residential area and road

Installed Systems:
5x Avalanche Tower LS24-5
1x LIA® Laser Scanner
WAC.3® operational Software:
Cockpit, Helicopter control

Year:
Installed in 2023

Future:
Total Tower project: 16x Avalanche
Towers LS24-5 (2020-2032)

Comune di Acquarossa



Place: Acquarossa, IT
Country: Switzerland
Operator: Amici del Nara

Protected Object(s): Ski Resort,
Residential area (holiday huts)

Installed Systems:

4x Avalanche Tower LS12-5

3x LIA® Laser Scanner

1x Weather Station

1x Camera

WAC.3® operational Software:
Cockpit, Helicopter control,
Communication

Year: Installation since 2021

Photo credits:

© Belinzona e Valli Turismo Luca Crivelli

Davos Klosters Mountains



Place: Davos/Klosters, GR
Country: Switzerland

Protected Object(s):
Ski Resort

Installed Systems:

13x Avalanche Tower LS12-5
1x Avalanche Tower LS24-5
2x Mini Towers LS6-5
1x Bomb tramway

WAC.3[®] operational software:
Cockpit, Assessment, Helicopter control,
Explosives

Year: Installation since 1974

Remark:

The very first installed bomb
tramway in 1974

Diavolezza



Place: Pontresina, GR

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

1x Avalanche Tower LS12-5

WAC.3[®] operational software:
Cockpit , Explosives, Helicopter
control

Year:

Installed in 2003

Engadin St. Moritz Mountains



Place: St. Moritz, GR

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

5x Avalanche Tower LS12-5

2x Bomb Tramway

WAC.3[®] operational software:
Cockpit, Helicopter control

Year:

Installed in 2008, 2018, 2021

Fisser Bergbahnen GmbH (Serfaus-Fiss-Ladis)



Place: Fiss, Tyrol

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

5x Avalanche Tower LS12-5

1x Weather station

1x Wind sensor

1x LIA® Laser Scanner

WAC.3® Cockpit

Year:

Installed in 2016 - 2020

Photo credits: © Fisser Bergbahnen GmbH

Fügen Bergbahnen Ges.m.b.H & Co KG



Place: Fügen im Zillertal

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

5x Avalanche Tower LS12-5

Year:

Installed in 2015

Photo credits: © rieder - zillertal.at

Gargellner Bergbahnen GmbH & Co KG



Place: Gargellen, Vorarlberg
Country: Austria

Protected Object(s):
Ski Resort

Installed Systems:

WAC.3[®] operational software:
Cockpit, Assessment, Explosives
Helicopter control, NxD

Year:
Installed in 2023

*Photo credits: © Gargellner Bergbahnen GmbH & Co KG,
Sebastian Leitner*

Gasteiner Bergbahnen

www.skigastein.com



Place: Gasteiner Valley

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

6x Avalanche Tower LS12-5

Year:

Installed in 2006, 2007,
2008, 2012

Gemeinde Davos



Place: Davos, GR

Country: Switzerland

Protected Object(s):

Road, Railway, Settlement area

Installed Systems:

8x Avalanche Tower LS12-5

1x LIA[®] Laser Scanner

6x GINA[®] Geophones in Avalanches

1x Webcam

WAC.3[®] operational software:
Cockpit, Assessment, Explosives

Year:

Installed in 2010, 2017, 2019

Gemeinde Disentis



GEMEINDE/VISCHNAUNCA
DISENTIS/MUSTÉR

Place: Disentis, GR

Country: Switzerland

Protected Object(s):

Infrastructure

Installed Systems:

WAC.3[®] operational software:
Cockpit and Assessment

Year:

Installed in 2023

Photo credits: © Simon Cathomen

Gemeinde Frutigen



Place: Frutigen, BE

Country: Switzerland

Protected Object(s):

Road

Installed Systems:

2x GINA® Geophones in
Avalanches

1x Alert system

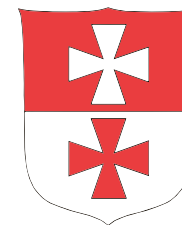
WAC.3® Cockpit

Year:

Installed in 2018 and 2019

Photo credits: © Gemeinde Frutigen

Gemeinde Goms



GEMEINDE
GOMS

Place: Gluringen, VS

Country: Switzerland

Protected Object(s):

Road and Railway

Installed Systems:

8x Avalanche Tower LS12-5

4x IDA® Infrasound Detection System

1x GINA®, 1x SARA®

WAC.3® operational Software:

Cockpit and Assessment

Safety Concept from  **geoformer**
INGENIEURE, GEOLOGEN, PLANER

Raphael Imsand and the avalanche
warning service

Year:

Installed in 2008 - 2009, 2015 - 2020

Photo credits: © RSD Goms



**avalanche
control**

Gemeinde Ischgl



Place: Ischgl, Tyrol

Country: Austria

Protected Object(s):

Road, Edge of Settlement area

Installed Systems:

8x Avalanche Tower LS12-5

1x LARA® Long range
avalanche radar

Year:

Installed in 2011

Photo credits: © Christian Schmid

Gemeinde Kappl



Place: Kappl, Tyrol

Country: Austria

Protected Object(s):

Road, Edge of Settlement area

Installed Systems:

3x Avalanche Tower LS12-5

1x LARA® Long range
avalanche radar

Year:

Installed in 2013

*Photo credits: © Tourismusverband
Paznaun - Ischgl*

Gemeinde Kaunertal



Place: Kaunertal, Tyrol

Country: Austria

Protected Object(s):

Road

Installed Systems:

1x Avalanche Tower LS12-5

1x LARA® Long range
avalanche radar

Year:

Installed in 2012

*Photo credits: © TVB Tiroler Oberland
Kaunertal / Martin Lugger*

Gemeinde Klosters-Serneus



Gemeinde
Klosters-Serneus

Place: Klosters-Serneus, GR

Country: Switzerland

Protected Object(s):

Roads and residential area

Installed Systems:

6x Avalanche Tower LS12-5

1x Weather station

Year:

Installed in 2012

Photo credits: © Destination Davos Klosters

Gemeinde Maishofen



Place: Maishofen
Country: Austria
Operator: Land Salzburg
(Stäßenmeisterei Pinzgau)

Protected Object(s):
Road

Installed Systems:
2x Avalanche Tower LS12-5
1x Signal horn

Year:
Installed in 2019

Photo credits: © Gemeinde Maishofen

Gemeinde Pontresina



Gemeinde Pontresina
Vschinauncha da Puntraschigna

Place: Pontresina, GR

Country: Switzerland

Protected Object(s):

Road and Settlement Area

Installed Systems:

10x Avalanche Tower LS12-5

3x LIA® Laser Scanner

2x Wind Station

2x Webcam

WAC.3® Cockpit

Year:

Installation since 2020

Gemeinde Prato-Leventina and Gemeinde Quinto



Place: Prato Leventina
and Quinto, TI

Country: Switzerland

Protected Object(s):

Road, Railway

Installed Systems:

3x Avalanche Tower LS12-5

1x IDA[®] Infrasound Detection System

WAC.3[®] operational software:
Cockpit and Assessment

Year:

Installation since 2015

Gemeinde Scuol



CUMÜN DA SCUOL

Place: Scuol, GR

Country: Switzerland

Protected Object(s):

Road

Installed Systems:

WAC.3[®] operational software:
Cockpit, Assessment

Year:

Installed in 2020 and 2021

Gemeinde Tschagguns



Place: Tschagguns, Vorarlberg

Country: Austria

Protected Object(s):

Road & Residential Area

Installed Systems:

WAC.3[®] operational software:
Cockpit, Assessment, NxD

Year:

Installed in 2023

Photo credits: © Simon Vorhammer

Gemeinde Tujetsch



Place: Tujetsch, GR

Country: Switzerland

Protected Object(s):

Road, Railway

Installed Systems:

3x Avalanche Tower LS12-5

Year:

Installed in 2010

Photo credits: © Gemeinde Tujetsch

Gemeinde Walenstadt



Place: Walenstadt, SG

Country: Switzerland

Protected Object(s):

Road, Residential area

Installed Systems:

7x Avalanche Tower LS12-5

WAC.3[®] operational software:

Cockpit, Communication,
Explosives

Year:

Installations since 2021

Gemeinde Zuoz



Place: Zuoz, GR

Country: Switzerland

Protected Object(s):

Road, Residential area

Installed Systems:

9x Avalanche Tower LS12-5

1x LIA® Laser Scanner

1x Wind station

1x Weather station

WAC.3® operational software

Cockpit, Assessment, Helicopter control, Communication

Year:

Installed in 2013, 2020, 2021

Glacier 3000



GLACIER 3000

High level experience.

Place: Les Diablerets, VD

Country: Switzerland

Protected Object(s):

Road

Installed Systems:

2x Avalanche Tower LS12-5

Year:

Installed in 2017

Photo credits: © Glacier 3000

KITZSTEINHORN

Gletscherbahn Kaprun AG



Place: Kaprun

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

14x Avalanche Tower LS12-5

5x Mini Tower LS6-5

Year:

Installation since 2007

Photo credits: © GBK

Golm Silvretta Lünsersee Tourismus GmbH



Place: Golm, Vorarlberg

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

7x Mini Tower LS6-5

WAC.3[®] operational software:
Cockpit, Assessment,
Explosives, NxD

Year:

Installed in 2023

Gondelbahn Kandersteg-Oeschinensee



Place: Kandersteg, BE

Country: Switzerland

Protected Object(s):

Ski Resort, Hiking Trail

Installed Systems:

1x Avalanche Tower LS12-5

Year:

Installed in 2012

Hinterstoder-Wurzeralm Bergbahnen AG



WURZER^{ALM}

Place: Wurzeralm

Country: Austria

Protected Object(s):
Ski Resort

Installed Systems:

2x Avalanche Tower LS12-5

4x Mini Tower LS6-5

1x Weather station

1x LIA® Laser Scanner

1x Signal horn

Year:

Installed in 2019 and 2023

illwerke vkw AG

illwerke vkw
Energie für Generationen.

Place: Schruns

Country: Austria

Protected Object(s):

Access Road

Installed Systems:

3x Avalanche Tower LS12-5

Year:

Installed in 2012

JUNGFRAU - TOP OF EUROPE

Jungfrau Ski Region



Place: Grindelwald, BE
Country: Switzerland

Protected Object(s):

Railway, Ski Resort, the famous int. Lauberhorn Race in Wengen

Installed Systems:

9x Avalanche Tower LS12-5

1x Avalanche Tower LS24-5

1x LIA® Laser Scanner

WAC.3® operational software:

Cockpit, Explosives, Helicopter control, Piste inspection, Accidents

Year:

Installation since 2002

Photo credits: © JUNGFRAU - TOP OF EUROPE



Kaunertaler Gletscherbahnen GmbH



Place: Kaunertal, Tyrol

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

24x Avalanche Tower LS12-5

6x Weather stations

Year:

Installed in 2021 and 2022

*Photo credits: © TVB Tiroler Oberland Kaunertal,
Severin Wegener*

Kleinwalsertaler Bergbahn AG



Place: Riezlern
(Kanzelwand)

Country: Austria

Protected Object(s):
Ski Resort

Installed Systems:
4x Avalanche Tower LS12-5

Year:
Installed in 2019 and 2021

*Photo credits: © Oberstdorf Kleinwalsertal
Bergbahn AG*

Klosters-Madrisa Bergbahnen AG



MADRISA
GENIESSE DEN MOMENT

Place: Klosters, GR

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

1x Avalanche Tower LS12-5

WAC.3[®] operational software:
Cockpit, Assessment, Explosives,
Helicopter control and integration
of external avalanche systems

Year:

Installation since 2022

Photo credits: © Klosters-Madrisa Bergbahnen AG

KSM Mining ULC

KSM MINING ULC
A SUBSIDIARY OF SEABRIDGE GOLD INC.

Place: KSM Project, BC

Country: Canada

Monitored Object(s):

Remote Valley

Installed Systems:

2x IDA® Infrasonnd Detection
System

2x monitoring cameras

Year:

Installed in 2021 and 2023

Lauchernalp Bergbahnen



Place: Lauchernalp, VS

Country: Switzerland

Protected Object(s):

Road and winter hiking trail

Installed Systems:

1x Avalanche Tower LS24-5

WAC.3® operational software:

Cockpit, Assessment,

Explosives, Piste inspection

Year:

Installed in 2023

Lenzerheide Bergbahnen AG



Place: Lenzerheide, GR

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

3x Avalanche Tower LS12-5

4x Bomb tramway

WAC.3® Cockpit

Year:

Installation since 2003

Lötschental, VS



Place: Lötschental, VS
(Communities Blatten, Wiler,
Kippel, Ferden)

Country: Switzerland

Protected Object(s):
Road, Residential area

Installed Systems:
1x IDA® Infrasonnd Detection
System
2x GINA® Geophones in
Avalanches
WAC.3® Cockpit

Year:
Installed in 2021

Marktgemeinde Rauris



LAND
SALZBURG

Place: Rauris
Country: Austria
Operator: Land Salzburg
(Staßenmeisterei Pinzgau)

Protected Object(s):
Road

Installed Systems:
1x Avalanche Tower LS12-5
1x Signal horn

Year:
Installed in 2019

Matterhorn Gotthard Bahn Oberalppass



Place: Oberalppass, GR-UR

Country: Switzerland

Protected Object(s):
Railway

Installed Systems:

4x Avalanche Tower LS12-5

1x LIA[®] Laser Scanner

WAC.3[®] operational software:
Cockpit and Assessment

Year:

Installation since 2021

Mattertal, VS



Place: Mattertal, VS
(Community Randa,
Täsch, St. Niklaus)

Country: Switzerland

Protected Object(s):
Road, Railway, Residential area

Installed Systems:
16x Avalanche Tower LS12-5
1x IDA® Infrasonic Detection system
2x LIA® Laser Scanner
WAC.3® operational software:
Cockpit, Assessment, Helicopter
control

Year:
Installation since 2004

Ministry of Transportation and Infrastructure MoTI, BC



Ministry of
Transportation
and Infrastructure



Place: Trans-Canada Highway,
Rocky Mountain District

Country: Canada

Protected Object(s):
Road, Buildings

Installed Systems:
11x Avalanche Tower LS12-5

Year:
Installed in 2016-2018

Future
2 more towers will be installed in
2024

Newmont Corporation

An aerial photograph of a rugged mountain landscape. In the foreground, a steep, rocky slope descends towards a road that winds through the terrain. The slope is covered with patches of green vegetation and exposed brown rock. In the background, a deep valley opens up, revealing a calm lake nestled between more snow-capped mountains under a clear blue sky.

Place: Brucejack mine

Country: Canada

Protected Object(s):

Road

Installed Systems:

12x Avalanche Tower LS12-5

Year:

Installed in 2019



NVRM



Place: Nendaz, Veysonnaz,
Siviez, Mt-Fort, VS

Country: Switzerland

Protected Object(s):
Ski resort

Installed Systems:
WAC.3[®] operational software:
Cockpit, Explosives, Helicopter
control

Year:
Installation since 2023

Parks Canada



Place: Glacier National Park

Country: Canada

Protected Object(s):

Road, Railway

Installed Systems:

5x Avalanche Tower LS12-5

1x LIA[®] Laser Scanner

1x Weather Station

13x IDA[®]

4x LARA[®]

WAC.3[®] Cockpit

Year:

Installed in 2017-2020

Parks Canada



Place: Yoho National Park

Country: Canada

Protected Object(s):

Road, Railway

Installed Systems:

3x Avalanche Tower LS12-5

Year:

Installed in 2019 - 2020

Pitztaler Gletscherbahn GmbH & CO KG

 **PITZTAL**
**GLETSCHER
RIFFLSEE**

Place: St. Leonhard
im Pitztal

Country: Austria

Protected Object(s):
Ski Resort

Installed Systems:
3x Avalanche Tower LS12-5
1x Mini Tower LS6-5
1x Weather Station

Year:
Installed in 2002 and 2021

Pro Lucmagn



Place: Lukmanierpass,
GR-TI

Country: Switzerland

Protected Object(s):
Road

Installed Systems:

2x Avalanche Tower LS12-5

WAC.3[®] operational Software:
Cockpit, Assessment, Helicopter
control

Year:

Installations since 2021

Rhätische Bahn RhB



Rhätische Bahn

Place: Val Bever, Sassal
Masone (Bernina pass),
Muot, Bergün GR

Country: Switzerland

Protected Object(s):
Railway

Installed Systems:
10x Avalanche Tower LS12-5
1x LIA® Laser Scanner
WAC.3® operational Software:
Cockpit, Assessment

Year:
Installation since 2014


RSD Fully



Place: Commune de Fully, VS

Country: Switzerland

Protected Object(s):
Road and settlement area

Installed Systems:
WAC.3[®] operational Software:
Cockpit and Assessment
Safety Concept from  **geoformer**
INGENIEUR, GEOLOGEN, PLANER

Year:
Installed in 2022

Photo credits: © Cheseaux Gaylord

Saastal Bergbahnen AG und Gemeinde Saas-Fee



Place: Saas-Fee, VS

Country: Switzerland

Protected Object(s):

Ski Resort, Residential area

Installed Systems:

8x Avalanche Tower LS12-5

1x Bomb Tramway

WAC.3[®] operational software:
Cockpit, Assessment, Explosives,
Helicopter control, Piste
inspection

Year:

Installation since 1994

Schilthornbahn AG



Place: Mürren, BE

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

6x Avalanche Tower LS12-5

2x Bomb tramway

WAC.3[®] operational software:
Cockpit, Explosives, Helicopter
control, Accidents

Year:

Installation since 1992

Photo credits: © Schilthornbahn AG

Seilbahn Komperdell GmbH (Serfaus-Fiss-Ladis)



Place: Serfaus, Tyrol

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

5x Avalanche Tower LS12-5

3x Mini Tower LS6-5

Year:

Installed in 2011-2017

Photo credits: © Andreas Kirschner

Silvrettaseilbahn AG, Ischgl



Place: Ischgl, Tyrol
Country: Austria

Protected Object(s):
Ski Resort

Installed Systems:
74x Avalanche Tower LS12-5
1x Weather station
3x Temperature sensors
WAC.3® operational Software:
Cockpit, Assessment, Explosives
and Helicopter control

Year:
Installation since 2009

Skiliftgesellschaft Hochfügen GmbH

HOCHFÜGEN
ZILLERTAL

Place: Fügen, Tyrol

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

1x Avalanche Tower LS12-5

Year:

Installed in 2015

Skiliftgesellschaft links der Breitach GmbH & CO KG, Ifen



Place: Riezlern

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

1x Avalanche Tower LS12-5

2x Mini Tower LS6-5

Year:

Installed in 2016 and 2019

*Photo credits: © Oberstdorf Kleinwalsertal
Bergbahn*

Skizentrum St. Jakob i.D. GmbH & Co KG



Place: St. Jakob i.D.

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

1x Mini Tower LS6-5

Year:

Installed in 2023

Photo credits: © Skizentrum St. Jakob i.D. GmbH & Co KG

Snowbird



Place: Snowbird, LCC Utah

Country: USA

Protected Object(s):

Ski Resort

Installed Systems:

17x Avalanche Tower LS12-5

Year:

Installation 2021 - 2023

Future:

6 more Towers are planned for 2025!

Photo credits: © Chris Bremer, Snowbird, Utah

Solitude Mountain Resort



Place: Solitude, BCC Utah

Country: USA

Protected Object(s):

Ski Area

Installed Systems:

4x Avalanche Tower LS12-5

Year:

Installation 2022 - 2023

Future:

2 more Towers are planned for 2024!

Photo credits: © Solitude Mountain Resort

Sportbahnen Melchsee-Frutt



Place: Kerns, OW

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

3x Avalanche Tower LS12-5

2x Mini Towers LS6-5

Year:

Installed in 2017 - 2020

Photo credits: © Sportbahnen Melchsee-Frutt

Stadtgemeinde Saalfelden



Place: Saalfelden
Country: Austria
Operator: Land Salzburg
(Stäßenmeistererei Pinzgau)

Protected Object(s):
Road

Installed Systems:
3x Avalanche Tower LS12-5

Year:
Installed in 2023

Photo credits: © Stadtgemeinde Saalfelden

Stubai Bergbahnen



Place: Neustift, Tyrol

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

7x Avalanche Tower LS12-5

Year:

Installed in 2002 and 2013

Télé Marécottes S.A. et Commune de Salvan



TÉLÉ MARÉCOTTES
vallée du trient

Place: Les Marécottes, VS

Country: Switzerland

Protected Object(s):

Residential Area, Ski Resort

Installed Systems:

4x Avalanche Tower LS12-5

Year:

Installed in 2004 - 2021

Photo credits: © Nicolas Falquet

Téléovronnaz SA



Place: Ovronnaz, VS

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

10x Avalanche Tower LS12-5

1x Avalanche Tower LS24-5

WAC.3[®] operational Software:
Cockpit, Explosives, Helicopter
control

Year:

Installed in 2001-2018

Tiefbauamt Kanton Bern



Place: Guttannen, BE

Country: Switzerland

Protected Object(s):

Road

Installed Systems:

1x IDA® Infrasonnd Detection System

WAC.3® operational software:
Cockpit and Assessment

Year:

Installed in 2018

Remark:

Operated by the Community
of Guttannen from 2018-2021

Tiefbauamt Kanton Graubünden



Place: Bernina and Maloja pass -
Sils, Gonda, Samnaun and
Zernez Street, GR

District: 3 Samedan, 4 Scuol,
6 Ilanz

Country: Switzerland

Protected Object(s):
Road, Settlement area

Installed Systems:
30x Avalanche Tower LS12-5
3x LIA® Laser Scanner
2x Webcams
WAC.3® operational software:
Cockpit, Assessment, Explosives

Year:
Installation since 2001

TITLIS Bergbahnen



Place: Engelberg, OW

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

4x Avalanche Tower LS12-5

2x Mini Tower LS6-5

1x Bomb Tramway

WAC.3® operational software:
Cockpit, Explosives, Helicopter control,
Piste inspection

Year:

Installation since 1987

Photo credits: © TITLIS Bergbahnen

TIWAG

Tiroler Wasserkraft AG



TIWAG

Place: Kühtai, Tyrol

Country: Austria

Protected Object(s):

Access Road

Installed Systems:

23x Avalanche Tower LS12-5

2x Weather station

5x Signal horn

Year:

Installed in 2019 - 2021

Utah Department of Transportation, UDOT



Place: Alta, UT

Country: USA

Protected Object(s):

Road and town

Installed Systems:

13x Avalanche Tower LS12-5

2x LIA® Laser Scanner

Year:

Installation 2017 - 2021

Future:

14 more Towers are planned for 2024!

Photo credits: © UDOT's LCC Avalanche Team

Vallée du Trient



VALLÉE DU TRIENT
espace mont-blanc

Place: Vallée du Trient, VS


Country: Switzerland

Protected Object(s):

Road, Cross-Country Circuit,
Hiking Trail

Installed Systems:

WAC.3[®] operational Software:
Cockpit and Assessment

Safety Concept from  **geoformer**
INGENIEUR, GÉOLOGES, PLANISTES
in collaboration with Jean-Luc Lugon

Year:

Installed in 2019

Photo credits: © Vallée du Trient

Weisse Arena Bergbahnen AG

WEISSE ARENA GRUPPE

Place: Laax, GR

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

5x Avalanche Tower LS12-5

1x Mini-Tower LS6-5

Year:

Installation since 2021

Photo credits: © LAAX / Danuser Gaudenz

Weißsee Gletscherwelt



Place: Uttendorf

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

1x Avalanche Tower LS12-5

Year:

Installed in 2010

Zauchensee Liftgesellschaft Benedikt Scheffer GmbH



Place: Zauchensee

Country: Austria

Protected Object(s):

Access Road

Installed Systems:

1x Avalanche Tower LS12-5

1x Signal horn

1x LIA® Laser Scanner

Year:

Installed in 2019

zb Zentralbahn AG



Place: Brienergrat, BE

Country: Switzerland

Protected Object(s):

Railway, Road, Residential Area

Installed Systems:

WAC.3[®] operational Software:

Cockpit and 2x Assessment

Integration of external avalanche
detection systems

Year: Installed in 2021

Remark:

in collaboration with the
community of Brienz &
department of transportation
canton bern

Zermatt Bergbahnen AG



Place: Zermatt, VS

Country: Switzerland

Protected Object(s):

Railway, Ski Resort

Installed Systems:

55x Avalanche Tower LS12-5

1x Avalanche Tower LS24-5

1x PETRA® People Tracking
Radar

1x LIA® Laser Scanner

WAC.3® operational software:
Cockpit, Explosives, Helicopter
control

Year: Installation since 2004

Photo credits: © Christian Pfammatter

Safety through innovation



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