



# Curriculum Vitae

## KALERVO KORPELA

### Date and place of birth

18<sup>th</sup> March 1971, Lohja, Finland

### Professional education

M. Sc. (Fire Safety Engineering) 1999 Helsinki University of Technology  
AA-class qualification for fire safety engineering 2006, FISE



### Language proficiency

Finnish (1), English (3), Swedish (3), German (4)  
(1=mother tongue, 2=excellent, 3=good, 4=fair)

### Professional background

Company / organization	Line of business	Years	Position
Finnish Rescue Association	Advice	1999	Fire safety engineer
Markku Kauriala Ltd.	Consulting, engineering	2000-2006	Project director
KK-Fireconsult Ltd.	Consulting, engineering	2006-	Director

### Memberships

Finnish Association of Fire Engineers (Suomen Paloinsinööriyhdistys ry)

### Professional training

Airflow modelling solutions for fire and HVAC engineers, AEA Technology, England, 2000  
3<sup>th</sup> International Conference on Performance-Based Codes and Fire Safety Design Methods, Lund, Sweden, 2000  
4<sup>th</sup> International Conference on Performance-Based Codes and Fire Safety Design Methods, Melbourne, Australia, 2002  
The CIB-CTBUH Conference on Tall Buildings, Kuala Lumpur, Malaysia, 2003  
5<sup>th</sup> International Tunnel Fire Safety Conference, London, England, 2005

### Publications

Fire Loads in Sport Halls, Palontorjuntateknikka, 4/1994

### Lectures

Fireloads in Office Buildings: 3<sup>th</sup> International Conference on Performance-Based Codes and Fire Safety Design Methods, Lund, Sweden, 2000

Fireloads in Office Buildings: Days of Finnish Fire Research, Seminar, Helsinki, Finland, 2000

Fire Safety Engineering in an Industrial Building (Case): Performance-Based Fire Safety Engineering in Buildings, Seminar, Helsinki, Finland, 2001

Truck Fire Modelling on a Car Park Level of a Ro-ro-ship and Possible Fire Safety Solutions: Seatech 2000+, Seminar of a technical research projects for ships, Turku, Finland, 2003

Fire Safety Engineering in a Shopping Center (an example building): Seminars of Ministry of Environment and Fire Research Council on Performance Based Fire Safety Engineering in Vaasa, Tampere, Helsinki and Joensuu, 2006



# Curriculum Vitae

## REFERENCE PROJECTS DURING WORK IN MARKKU KAURIALA LTD

Project	Year
Siuntio Golf Mansion, fire risk analysis and fire safety solutions , Siuntio	2000
Hartwall Lahti brewery and soft drink plant including new offices and laboratories fire risk analysis and fire safety solutions, Lahti, 100 000 m <sup>2</sup>	2000-2003
Vapo Energy, fire safety solution for a cutter silo, Alavus	2000
Iso Omena, commercial and office building and car park, Espoo, fire safety of structures	2000
Euromarket Lahti, Commercial building and car park, Lahti, fire safety of structures, escape routes, smoke exhaust, 20 000 m <sup>2</sup>	2000-2002
AS Maru, Kaubanduskeskus, Commercial building, Tallinn, Estonia, structural firesafety solutions	2000
Outokumpu Polarit Oy, maintenance hall, fire safety solutions, Tornio	2000
YIT-Building, Fenix Sirius, office building, Tampere,	2000
Airix Kaarina, car park under a cinema centre, smoke ventilation, Turku	2000
Kesko, shopping centre, smoke ventilation, Forssa, 7000 m <sup>2</sup>	2000-2001
Best Hall Oy, fire safety in Best Hall halls	2001
Sokos, Hotel, fire safety solutions, Salo, 8 000 m <sup>2</sup>	2001
BMW-house, car sales house, fire safety solutions, Espoo	2001
Forssan Osarakenne Oy, statement of fire safety of a fire door, Helsinki	2001
NK-Cables Oy, fire safety solutions in a cable tower, Vantaa	2001
Labsystems Oy, office house and ware house, fire safety solutions, Vantaa	2001
Kesko, City-Market, smoke ventilation and fire safety of structures, Vihti, 12 000 m <sup>2</sup>	2001-2002
Fortum, repair of a basement of Enegy House, fire safety solutions, Helsinki	2001
NCC Finland Oy, car park, smoke ventilation, Porvoo	2001
School of Kuoppanummi, fire safety solutions, Vihti, 12 000 m <sup>2</sup>	2001
VR, Eliel: hotel, office, supermarket and railway station building, Helsinki, fire safety solutions, 20 000 m <sup>2</sup>	2001-2003
JP-Terasto, Travel Centre, car park, fire safety solutions, Jyväskylä 10 000 m <sup>2</sup> .	2001-2002



# Curriculum Vitae

Espoon Tennistuki ry, Esport Arena, sports hall, fire safety solutions, Espoo 30 000 m <sup>2</sup>	2001-2004
Arabian Center, office and shopping centre, fire safety solutions, Helsinki 10 000 m <sup>2</sup> part	2001-2003
Safiiri, office house, structural fire safety, Espoo, 6 000 m <sup>2</sup>	2001-2002
Vierumäen teollisuus, drying house and storage of wood, Vierumäki	2001
Rautaruukki, indoor carting centre, fire safety solutions, Alahärmä, 9 000 m <sup>2</sup>	2001-2002
Jaakko Pöyry Oy, paper mill, fire safety solutions Langerbrugge, Belgium 50 000 m <sup>2</sup>	2001-2002
Structus Oy, office building, structural fire safety, Helsinki	2002
Euromarket Forssa, shopping centre, smoke ventilation, 5 000 m <sup>2</sup>	2002
Espoo City, Ruusutorppa school, fire safety solutions, Espoo	2002
Demaco Oy, Aralis-library, fire safety solutions, Helsinki	2002-2003
YIT, Laaksoalahti indoor football Arena, fire safety solutions, Espoo 8 000 m <sup>2</sup>	2002
Best Hall Oy, fire safety in Best Hall wood storages	2002
Seatech 2000+, firesafety of car park level of ships	2002-2003
Bauhaus Raisio, structural fire safety solutions, Raisio, 6 000 m <sup>2</sup>	2002
Visko Oy, sausage coat plant, smoke ventilation, Hanko	2002-2004
Suunnittelu-Kortes Oy, car ramp of exhibition centre, structural fire safety, Helsinki	2002
Veljekset keskinen Oy, shopping centre, fire safety solutions, Tuuri, 65 000 m <sup>2</sup>	2002-2006
Onvest Oy, fire loads in a ware house, Hyvinkää, 4 000 m <sup>2</sup>	2002
Elomatic, underground wastewater plant, smoke ventilation, Raisio, 20 000 m <sup>2</sup>	2002
Jaakko Pöyry Group, Litmalt, malting plant, fire safety solutions, Lithuania 6 000 m <sup>2</sup>	2002-2003
Stadium, sport shop, structural fire safety solutions, Espoo	2002
Espoo City, Juvanalmi school, fire safety solutions, Espoo	2002-2003
Schering, smoke ventilation in a laboratory, Turku	2003
Konewatt Oy, vehicle inspection centre of Turku, structural fire safety, Turku	2003



# Curriculum Vitae

Knauf Oy, design manual of suspended ceiling structure, fire safety	2003
Foster Wheeler, Stora Enso Kvarnsweden, power plant, structural fire safety, Borlänge, Sweden	2003
Kvärner Masa Yards, fire safety solutions in an atrium of a cruising ship, Turku	2003
A-rakennuttajat, fire load in one of Santen's ware houses, Tampere	2003
Fortum Oy, fire safety in a transformer building, Pyhäkoski	2003
YIT, structural fire safety of large sports hall in Joensuu, 18 000 m <sup>2</sup>	2003
Arkkitehtityöhuone, fire safety solutions in TNT logistical terminal, Turku	2003
Turun Juva Oy, Aftermath of a fire in a water tower, structural fire safety, Turku	2003
Forssan Osarakenne Oy, statement of a fire door, Helsinki	2003
As Oy Helsingin Sini, fire safety of partitioning glass structures in a residential building, Helsinki	2003
NCC, indoor football arena, fire safety solutions, Rauma, 8 000 m <sup>2</sup>	2003
UPM Kymmene, paper mill, structural fire safety and smoke ventilation, Changshu, China, 50 000 m <sup>2</sup>	2003
GNT Finland, logistic center, fire safety solutions, Norrköping, Sweden 14 000 m <sup>2</sup>	2003-2005
Jaakko Pöyry Oy, fire safety in transformer rooms, research	2003-2004
Maskun kalustetalo Oy, shopping centre, fire safety solutions, Masku, 8 000 m <sup>2</sup>	2003
Veljekset Keskinen Oy, "Outdoor sales buildings", fire safety solutions, 3 000 m <sup>2</sup>	2004
Suunnittelu-Kortes Oy, 5 <sup>th</sup> nuclear power plant, turbine hall, fire safety consultation for Kortes Consulting and Siemens PG, Olkiluoto, 18 000 m <sup>2</sup>	2004-2006
JP-Kakko Oy, 5 <sup>th</sup> nuclear power plant, nuclear island, fire safety consultation for Framatome ANP, Olkiluoto	2004-2005
Kone Oy, fire safety off a lift and lift shaft	2004
Hartela Oy, IF (insurance company) Tuku head quarter, smoke exhaust, fire safety solutions, 15 000 m <sup>2</sup>	2004-2005
Citec Engineering Oy Ab, Wärtsilä power station, Moe, Irak, fire safety of bearing structures and smoke exhaust, fire detectors, 3000 m <sup>2</sup>	2004
HUS Kiinteistöt Oy, Lohja hospital's new part, smoke exhaust, 5000 m <sup>2</sup>	2004
Tarveasunnot Oy, Patterikuja 17 apartment buildings fire safety	2004



# Curriculum Vitae

Tupolev office building including car park, Moskov Russia, fire safety of structures, fire compartments and smoke exhaust, 16 000 m <sup>2</sup>	2004
Sinebrychoff Oy, high storage building, Kerava, fire safety of structures, smoke exhaust, escape routes, 12 000 m <sup>2</sup>	2004-2005
Kurikan Muotopuriste Oy, Fire risk assessment, furniture factory, Kurikka	2004
Kvärner, Panna Händelö, power plant, Norrköping Sweden, fire safety of structures, smoke exhaust	2004-2005
MS-association, MS-building, fire safety of structures, smoke exhaust, escape routes, fire compartments, 8 000 m <sup>2</sup> , Helsinki	2004-2005
Paulig Oy, expansion of Columbus retail centre and car park, fire safety of structures, smoke exhaust, escape routes, fire compartments, 20 000 m <sup>2</sup> , Helsinki	2004-2005
NCC, Porttipuisto retail centre, smoke exhaust, 15 000 m <sup>2</sup> , Vantaa	2004-2005
Lemcon Oy, Kazan Arena, fire safety of structures, Kazan, Russia	2004
TVO, Central office's roof structure, fire safety of structures	2004
Ruukki Oy, Helkalax, balcony bearing structures, Espoo	2005
Lumon Oy, balcony bearing structures, Espoo	2005
YIT Rakennus Oy, YIT Service Centre, Vantaa, fire safety solutions 12 000 m <sup>2</sup>	2005
Aker FinnYards, Genesis Cruiser Ship, fire safety of an open atrium	2005
Sponda Oyj, Vantaan Honkatalo, logistic centre, renovation and expansion fire safety solutions, 12 000 m <sup>2</sup>	2005
Ruskeasuon Varikkokiinteistö Oy, preparation design, bus park and reparation hall, offices and sport hall, Helsinki, fire safety solutions 25 000 m <sup>2</sup>	2005-2007
Rauma City, Ice hockey hall expansion, fire safety solutions and smoke exhaust of the whole building, escape routes of the whole building, 10 000 m <sup>2</sup>	2005
Thermisol Oy, Insulation material of an agriculture building, Janakkala	2005
HOAS, Kumpulan Kiila, Helsinki, multi storey apartment building with wooden facades, fire safety solutions	2005
Skanska, Lahden Keijumetsä, Lahti, multi storey apartment building with wooden facades	2005
Arco Invest, Holiday City Tallinn, Estonia, hotel and spa and car park, fire safety solutions, 55 000 m <sup>2</sup>	2005-2006
Finnair, Finncatering, air plane food preparation plant, Vantaa, 4000 m <sup>2</sup>	2005



# Curriculum Vitae

NCC, Myyrmäki health centre, Vantaa, smoke exhaust	2005
Rakennus Gemini, Liukutie 15, Helsinki, logistic centre, expansion, fire safety solutions (including update of old part), 22 000 m <sup>2</sup>	2005
Varma, Varma-Salmisaari head quarters, Helsinki, office building and car park, 60 000 m <sup>2</sup>	2005-2009
Vantaan seurakunnat, Hämeenkylä church, smoke exhaust of basement storage	2005
Pontek Oy, Hyvinkää Ice Hockey Training hall, structural fire safety	2006
YIT Rakennus Oy, Herttoniemi car sales building, fire safety solutions	2006
Paulig Oy, Vuosaari new coffee roastery and offices, fire safety solutions, 30 000 m <sup>2</sup>	2006-2009
Parmaco Oy, Koy Vantaan ylästöntie, industrial hall, smoke exhaust	2006
Aker Yards / Kone Hissit, fire safety of a marine elevator trunk and staircase, Tallink NB 1356	2006
YIT Rakennus Oy, Helsinki, Shopping Center Columbus, statements on fire compartment doors and class walls	2006
Versowood Oy, Vierumäki, statement on a fire compartment wall of a wood storage	2006
Linnamäki Steel Oy, Auto-Berner Lappeenranta, structural fire safety	2006
YH-Rakennuttaja Oy, As Oy Sumujen silta and As Oy Sateenkaari, Helsinki, fire safety solutions of car parking spaces	2006
Varma / Demaco Oy, Arabiankeskus, statement on fire compartment glass walls	2006
Rockplan / Vuoli, Fire simulations of Provarinlahti road tunnel	2006
Kulttuurikeskus Korjaamo Oy / renovation of tram museum, fire safety solutions	2006



## REFERENCE PROJECTS CONSIDERING FIRE SAFETY DURING WORK IN KK-PALOKONSULTTI OY

### Dwelling houses:

As Oy Aurinkolahden Kanavatorni, Helsinki, statement on balcony structures	2007
As Oy Hansavalkama, , Espoo, project planning phase	2007
As Oy Iirislahdentie 14, Espoo, alteration work	2007
As Oy Isojärvenkuja 9, Espoo, fire safety of fire places	2007
As Oy Koivuviidantie 11, alteration work	2007
As Oy Malminrinne, Helsinki, alteration work	2007
As Oy Päivänkajontie, Espoo, alteration work	2007
Kadettitalo, Helsinki, fire doors and glazing on fire compartment structures	2008
Museokatu 11, Helsinki, adding an elevator to staircase and width of staircase	2008-2009
Ratakatu 29, Helsinki, adding an elevator to staircase and width of staircase	2008
As Oy Vantaan Kivivuorenlaki	2008-2009
As Oy Pohjoisranta 4, fire doors	2009
Armfeltintie 11, Helsinki, fire safety of a staircase	2010
Viikin puukerrostalot, fire technical specification and consultation	2010-2012
Martintorni, Vantaa, fire technical specification and consultation	2010-2011
Krogiuksentie 10, Helsinki,statement on distance between houses	2011
Kokonkulma, Kerava, design of smoke extraction in common areas	2011
Bulevardi 10, fire technical specification and consultation	2011-2012
Arabiankatu 4, fire technical specification and consultation	2011-2012
Hangon Grand, fire technical specification and consultation	2011-2012
As Oy Helsingin Kuusihovi, statement on glazing in a fire compartment wall	2012
As Oy Riontähti, statement on a fire compartment wall structure	2012
As Oy Venlankatu 6, statement on a casing for pipes and cables inside a staircase	2012
As Oy Espoon Kilonrinne, statement on structures in a fire compartment wall	2012
Lauttasaarentie 48, Helsinki, statement on structures in fire compartment walls	2012
Pohjoisranta 12, design of fire stops in fire compartment walls	2012
Perhelänkeskuksen asuintorni, Järvenpää, fire safety consultation in draft phase	2012
Tiimalasintie 5, Espoo, statement on distances between buildings	2012
Toukolankustaa, Helsinki, statements on fire compartment wall structures	2012
Tupalantien kortteli, Järvenpää, fire safety consultation in draft phase	2012



# Curriculum Vitae

## Hospitals rest homes and dwellings for assisted living

GSP Suunnittelu, rest homes, several in different areas of Finland	2007
Lapinlahti hospital, Helsinki, fire safety design of renovation and alterations	2007-2010
Louhela rest home, Vantaa, fire safety desing	2008-2009
Haahkapolku 3 rest home, Helsinki, fire safety design	2008-2009
Parainen health center, improvement of fire safety solutions	2008-2010
Malmkulla, rest home, Parainen, improvement of fire safety solutions	2008-2010
Peijas hospital, Vantaa, evacuation calculation for geriatric department	2008
Seinäjäki Y-building, hospital, 50000m <sup>2</sup> , fire safety design, evacuation design	2008-2012
Viherkoti, rest house, Espoo, fire safety design of renovation and alterations	2008-2009
Myllypuro health center, Helsinki, smoke extraction planning for basement, statements on fire compartment wall structures and doors in fire compartment walls	2009
TYKS, T-hospital, 50000m <sup>2</sup> , Turku, third party inspection for fire safety design	2010-2011
Tilkankatu 1, Helsinki, rest home, statement on fire compartment wall structures	2011
Kaski and Koukkusaari rest homes, Helsinki, statements on fire compartment wall structures	2011-2012
Kinapori, Helsinki, statement on fire compartment wall structures	2011-2012
Lehtisaari rest home and dwelling for assisted living, fire safety design	2011-2012
Naistenklinikka, hospital, Helsinki, renovation and enlargement, fire safety design	2011-2012
Riihikallio day care center, rest home and dwellings for assisted living, fire safety design	2011-2012
Meilahti hospital, Helsinki, smoke extraction design of underground Linac area	2012
Vaasa hospital, smoke extraction design for underground F and CT-buildings	2012

## Hotells and conference buildings

Airport Hotel Rantasipi, Vantaa, alteration and enlargement, fire safety design	2007-2008
Linnahotelli (KOy Vanhajämerä), hotel, Helsinki, alteration, fire safety design	2008
Siltasaarenkatu 14, Helsinki, alteration from offices to hotel, fire safety design	2008-2009





# Curriculum Vitae

## Schools

Helsinki university of technology, Physics department, Espoo, alteration, fire safety design	2007
Helsinki university of technology, Wood technology department, Espoo, alteration, fire safety design	2007
Adulta, Järvenpää, adult education school, alterations and renovation, fire safety design	2008-2009
Kariston service center, Lahti (school and library), fire safety design	2008
Herttoniemi primary school, Helsinki, renovation, fire safety design	2008-2009
Åshöjden primary school, Helsinki, renovation, fire safety design	2008-2013
Saunalahti school and day care center, Espoo, fire safety design	2008-2009
Mårtensbro school and day care center, Espoo, fire safety design	2009-2010
Brandö primary school, alteration and enlargement, fire safety design	2009-2011
Espoonlahti school, Espoo, renovation, fire safety design	2009-2012
Käpylän school, Helsinki, renovation, fire safety design	2009-2012
Kaisaniemi primary school, Helsinki, renovation, fire safety design	2010
Meilahti primary school, Helsinki, renovation, fire safety design	2010
Day care center Arkki, Vantaa, renovation, fire safety design	2010
Munksnäs junior high school, renovation, fire safety design	2011
Kulosaari quarter house, school and day care center, Helsinki, fire safety design	2011-2012
Pihlajamäki primary school, Helsinki, renovation, fire safety design	2011-2012
Sakarimäki school and day care center, Helsinki, alteration and enlargement, fire safety design	2011-2012
Hyvon, Salo, adult education school, alteration and enlargement, fire safety design	2011-2012
Åshöjdenin school, design of fire stops	2012
Itä-Pakila primary school and day care center Tammi, Helsinki, renovation and alteration fire safety design	2012
Myllypuro primary school, Helsinki, statement on structures in fire compartment walls	2012
Kirsti school, Espoo, statement on structures in fire compartment wall	2012
Minerva school, Helsinki, renovation, fire safety design	2012
Opinmäki school and day care center, Espoo, fire safety design	2012-2013
Vesala junior high school, Helsinki, alteration, fire safety design	2012
Viikinmäki Quarter house (school and day care center), Helsinki, fire safety design	2012

## Ships

Kone Marine, statements on fire safety of Monospace® elevators on 29 different ships	2007-2012
Aker Yards, statement on fire door structure for project NB1358	2008

## Traffic

Ruskeasuo bus depot, Helsinki, fire safety design	2005-2007
Vuoli-tunnel, Helsinki-Vantaa, statements on fire doors and smoke extraction simulations	2007
Espoo railway station, alteration and renovation, fire safety design	2008-2009
Ruohoparkki car park, Helsinki, statement on roof bearing structures	2009
Länsimetro, subway, fire safety consultation	2010-2012
Kokonkulma, Kerava, smoke extraction design of a car park	2011
Oulu travel center (railway station, bus station, shopping center, offices, dwellings, car park total 35000m <sup>2</sup> ), fire safety design	2011
Alberga car park, 15000 m <sup>2</sup> , Espoo, fire safety design	2011-2012
Kirkkonummi car park, fire safety consultation	2011-2012
Jokeri 2, Paloheinä tunnel, Helsinki, fire safety design	2011-2013
Sairaalaparkki, 14000m <sup>2</sup> car park, Lahti, fire safety design	2012
Sola Business Park, 9000m <sup>2</sup> car parkin basement, fire safety design	2011-2012



# Curriculum Vitae

## Commercial buildings

Delta-Auto Koskelo Car shop and repair, Espoo, fire safety design	2007
Kauppakeskus Centrum, Lahti, statement on fire door	2007
K-Citymarket, 15000m <sup>2</sup> Klaukkala, shopping center, fire safety design	2007
Liikekeskus Holma, 20000m <sup>2</sup> shopping center, Lahti, fire safety design	2007
Mikkeli Quarter 5, 15000m <sup>2</sup> , shopping center, offices, dwellings, fire safety design	2008-2009
Graanin shopping center, Mikkeli, 20000m <sup>2</sup> alteration and enlargement, fire safety design	2008
Hyvinkää Quarter 101, 35000m <sup>2</sup> , shopping center, offices, dwellings, car park, fire safety design	2008-2011
Veho Olari, car storage of a car sales buildinglaajennus (autovarasto), fire safety design	2008
ABC Lohja, 5000m <sup>2</sup> shopping center / service station, fire safety design	2008
Kodin Terra, 12000m <sup>2</sup> , Hämeenlinna, alteration and enlargement, fire safety design	2008-2009
Sokos Lahti, smoke extraction simulations	2008
LIDL Inkilänmäki, Kuopio, statement on fire safety	2008
Oulun Masku furniture store, stage 1, simulations and statement on steel structures	2008
Martintori total 15000m <sup>2</sup> shopping center, car park and dwellings, Vantaa, fire safety design	2008-2009
VW Center, car shop, Vantaa, alteration and enlargement, fire safety design	2008-2009
Audi Center, car shop, 16000m <sup>2</sup> , Vantaa, fire safety design	2008-2009
Veho Koivuhaka 2, car shop and car park, 30000m <sup>2</sup> , Vantaa, fire safety design	2008-2009
Jyväskylä Forum, shopping center and car park, 20000m <sup>2</sup> , renovation and alterations, fire safety design	2009-2010
Koivukylän CityMarket, Vantaa, statements on fire doors	2009
Ylivieskan Prisma, shopping center, 15000m <sup>2</sup> , fire safety design	2009-2010
Kuninkojan kotikeskus, Raisio, simulation and statement on bearing steel structures	2009
Raision Mylly, Prisman simulation and statement on bearing steel structures	2009
KCM Kivihaka, Vaasa, shopping center, 20000m <sup>2</sup> , fire safety design of enlargement	2009
Ideapark Kiiminki, 100000m <sup>2</sup> , shopping center, fire safety design in design phase	2009
Launeen Prisma, Lahti, 35000m <sup>2</sup> shopping center, simulations and statement on bearing steel structures of enlargement areas	2010
Kauppakeskus Karisma, shopping center, Lahti, simulations and statement on wooden ceiling	2010
Prisma Hyllykallio, Seinäjoki, shopping center and car park, 35000m <sup>2</sup> , fire safety design of enlargement and simulations for the whole building	2010-2012
Klinkkerikaari 12, Vantaa, smoke extraction design	2011-2012
Koskikeskus, Tampere, statement on smoke extraction dimensioning	2011
Otava book shop, Uudenmaankatu 10, Helsinki, fire safety design of alteration	2011
Ikea Kuopio, third party statement on fire safety design	2011
Porvoo art factory, shopping center, fire safety design	2011-2012
Ikano Kuopio, third party statements on fire safety design	2011-2012
Hartmann, Espoo, fire safety design	2012
KCM Joensuu, 15000m <sup>2</sup> shopping center, simulations and statement on wooden ceiling	2012
KCM Kokkola, shopping center, 20000m <sup>2</sup> , fire safety consultation	2012
Kokkolan Prisma, 20000m <sup>2</sup> , enlargement and alterations, fire safety consultation	2012

## Cultural buildings

Tram museum, Helsinki, alteration, fire safety design	2007
Suvilahti gas storage, Helsinki, change to cultural building, fire safety design	2011
Kulttuuritehdas korjaamo, Helsinki, alteration, fire safety design	2012
Porvoo art factory, statements on fire compartment structures on alteration areas	2012
Tikkurilan Silkki, statement on fire safety of a theatre	2012



# Curriculum Vitae

## Industrial buildings and storages

Fermion Oy, Hanko, alteration, fire safety design	2007
Pauligin new coffee roastery, Helsinki, 35000m <sup>2</sup> , fire safety design, roastery, storages and offices	2006-2009
Wood pellett factory, Hollola, fire safety design	2007
Rautaruukki, Kalajoki, 50000m <sup>2</sup> enlargement, fire safety design	2007
Rautaruukki, Raahe, statement on fire doors	2007
Rautaruukki, Ylivieska, 10000m <sup>2</sup> enlargement, fire safety design	2007
Visko Teepak, Hanko, alteration, fire safety design	2007
Saint Gobain, Ogre, Latvia, fire safety design in project planning phase	2008
RollingCenter, storage for Helsinki museum, Vantaa, fire safety design	2008
Schenker, 5000m <sup>2</sup> alcohol storage, Vantaa, fire safety design	2008
Transpoint Avanti, Lieto, logistic center, 15000m <sup>2</sup> , fire safety design	2008
Koskelan hospital, food center, Helsinki, fire safety design in project planning phase	2008-2009
KV2 Hakkila, Vantaa, smoke extraction plannin of food storages	2009
KOY Ruukintie 3, 6000m <sup>2</sup> enlargement for production and offices, Espoo, fire safety design	2009-2011
Toivonen Yhtiöt, Tampere, production and storages, fire safety design	2009-2010
GCT Tahkotie ja STC Viinikkala, Vantaa, storages and production spaces, 30000m <sup>2</sup> , fire safety design	2009-2010
Google, Hamina, fire safety consultation for changing and old paper mill to data center	2009-2011
Kotka Yacht Store, 14000m <sup>2</sup> , winter storage for yachts, fire safety design	2010-2011
EKE-Rakennus, Rasti 3, storages, 20000m <sup>2</sup> , fire safety design for design phase	2011
Tiilervalajantie 6, Espoo, smoke extraction design	2011
Ruukinmestarantie 10, Espoo, production and storages, fire technical specification	2011-2012
Vantaa waste power plant, third party inspection for fire safety design	2011-2012
Academica Viikki, data center, fire safety consultation	2012
Fazer bakery, Vaarala, fire safety consultation for alteration	2012
Fertilog Kotka, urea storage, 70000m <sup>2</sup> , statement on fire safety	2012
Heikkilän barn, Ilmajoki, third party statement on fire safety	2012
Mälaren, Sweden, power plant, fire safety consultation	2012
Planmeca, Helsinki, smoke extraction design	2012
Teollisuusneuvoksenkatu 6, fire safety design for alteration	2012
Värtan KVV8 power plant, Sweden, fire safety consultation	2012

## Office buildings

SP-Kiinteistöt, Kilon Ritari, 30000m <sup>2</sup> , alteration, fire safety design	2007-2009
Pohjoisesplanadi 33A, alteration, fire safety design	2007
Varma, Salmisaari offices and car park, Helsinki, fire safety design	2005-2009
Eteläesplanadi 18, fire safety design for project planning phase	2008
Salmisaarentalo, alteration and renovation, fire safety consultation	2008
Pilke, Rovaniemi, office building for ministry of wood, smoke extraction design	2009
Skanska Ruskeasuo, Helsinki, third party inspection for fire safety design	2010
Köydenpunojankatu 2, fire technical consultation on evacuation of canteen	2011
Hedengren, Lauttasaari, alteration, fire safety design	2011-2012
Porkkalantalo, fire safety consultation on smoke extraction and evacuation routes	2011-2012
Sairaalaparkki office building, Lahti, fire safety design	2012
Sola Business Park, 30000m <sup>2</sup> , Espoo, fire safety design	2011-2012



# Curriculum Vitae

## **Sports halls and similar**

Laune ice hockey hall, Lahti, statement on fire safety and evacuation simulation	2007
Skiing hall, Helsinki, fire safety design	2008-2009
Myllypuro football hall, Helsinki, fire safety design	2008-2009
Myllypuron ice sports center, fire safety consultation for project design phase	2009
Lappeenranta training ice hockey hall, fire safety design	2010
Ylöjärvi sports hall alteration and enlargement, fire safety consultation	2011
Elixia Tikkurila, gym building, alteration, fire safety consultation	2011-2012
Leppävaara swimming hall, enlargement and alteration, fire safety consultation	2011-2012

## **Other**

Statement for safety distance of Misa stove	2007
Finnforest, development project for wood construction	2009-2012
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