

# GW

## DD-LTH + ELTH

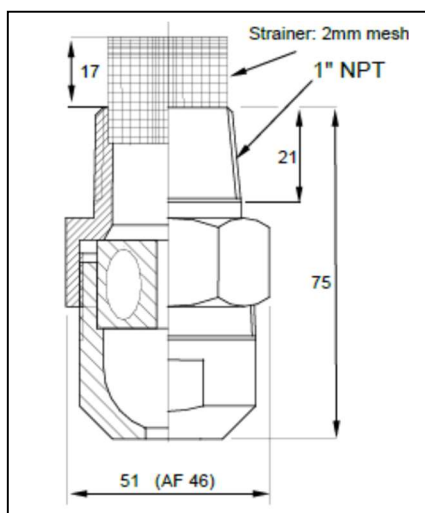
### ATRIUM, EXTRA LONG THROW



GW SPRINKLER A/S

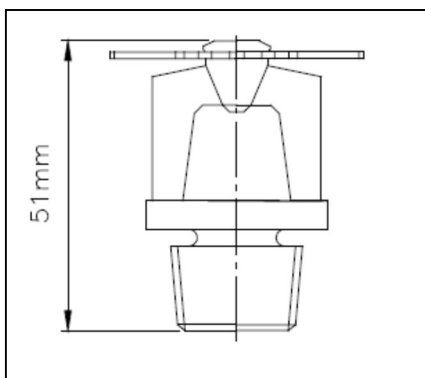
Large open spaces with excessive ceiling heights, like Atriums in modern buildings, are challenging when it comes to fire protection. Due to physical and aesthetical restrictions ceiling mounted sprinklers are not desired, which calls for alternative solutions. Ordinary horizontal sidewall sprinklers do not have the spray capacity to provide the super extended coverage required to reach the centre of an atrium space.

To overcome this challenge GW offers a solution using two specialized nozzles in combination to provide horizontal spray coverage up to 13m from the wall. If fitted on opposite walls, the GW DD-LTH+ELTH combination can protect open spaces up to 26m diameter/ wall-to-wall distance.



#### ELTH

TYPE	Extra Long Throw Horizontal (ELTH)
MATERIAL	DZR Brass
FINISH	Chrome plated
THREAD	1" NPT male
K-FACTOR	49 (metric) *
WORKING PRESSURE	min. 2,0 bar *
RTI	Open Nozzle
INSTALLATION ANGLE	20° up from horizontal
INSTALLATION HEIGHT	0,5 – 1,0 m above LTH-nozzle
SPACING	2,5m (max.)



#### DD-LTH

TYPE	DD - Long Throw Horizontal (LTH)
MATERIAL	Brass
FINISH	Chrome plated
THREAD	1/2" BSPT male
K-FACTOR	80 (metric) *
WORKING PRESSURE	min. 2,0 / max.3,5 bar *
RTI	Open Nozzle
INSTALLATION ANGLE	Horizontal (0°)
SPACING	2,5m (max.) for OH 5mm/min.

\*) Spray Foot Print @ 2,0 to 3,5 bar and nozzle K-factor has been specification tested and verified by Factory Mutual (FM).

The right is reserved to vary or modify any specifications without prior notice.

#### GW SPRINKLER A/S

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Data sheet no.: 140084

Data sheet: **GW DD-LTH + ELTH**  
**(ATRIUM)**

Date:

Page 1 of 4

07 January 2021

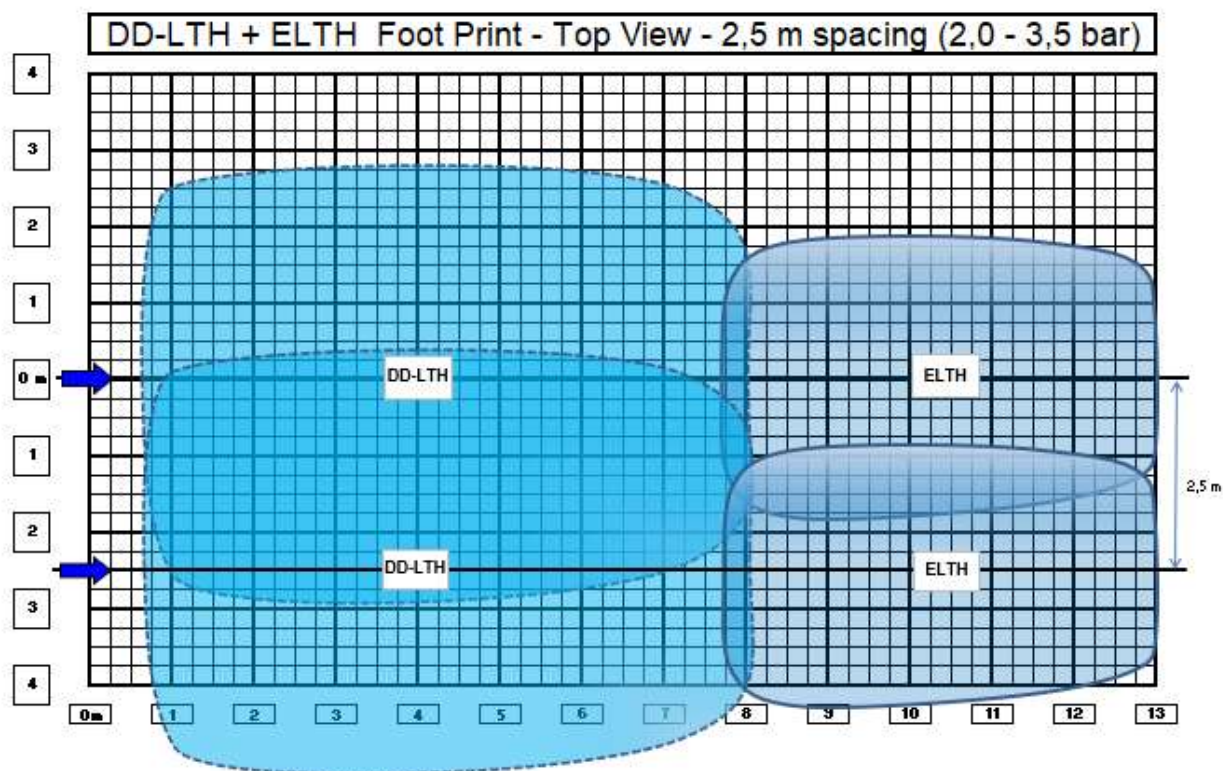
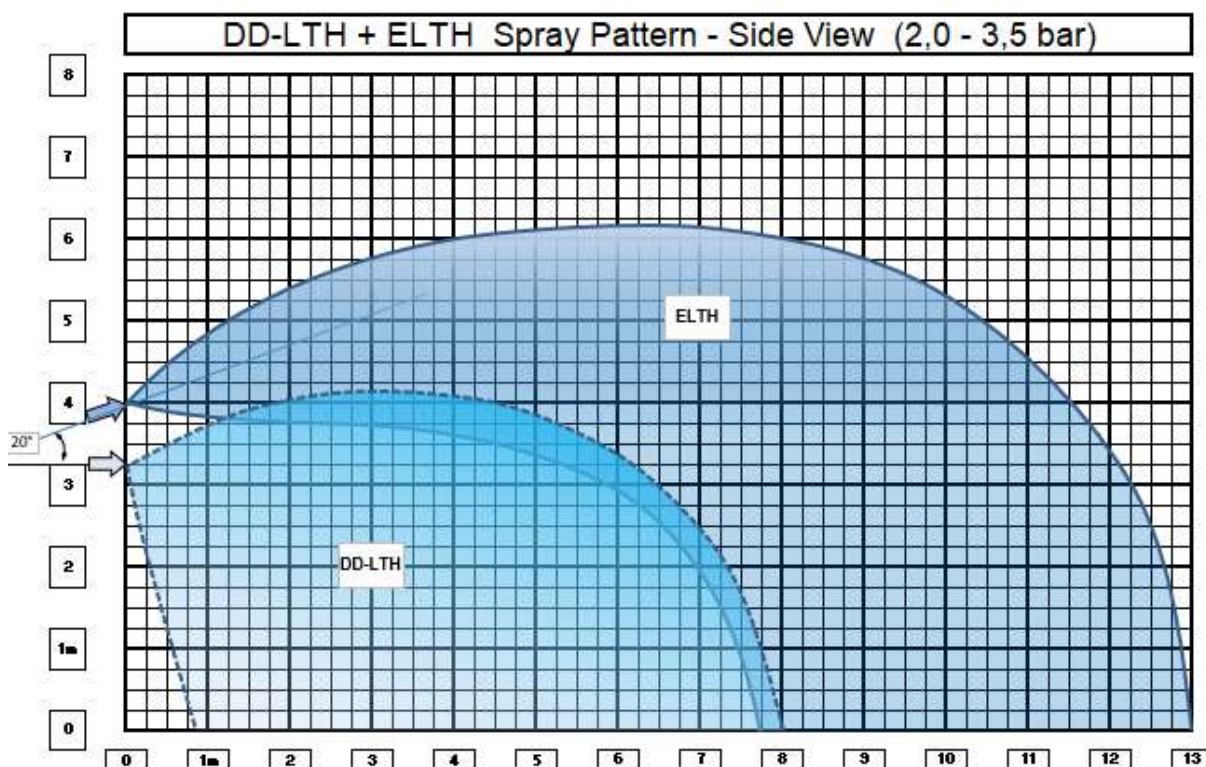
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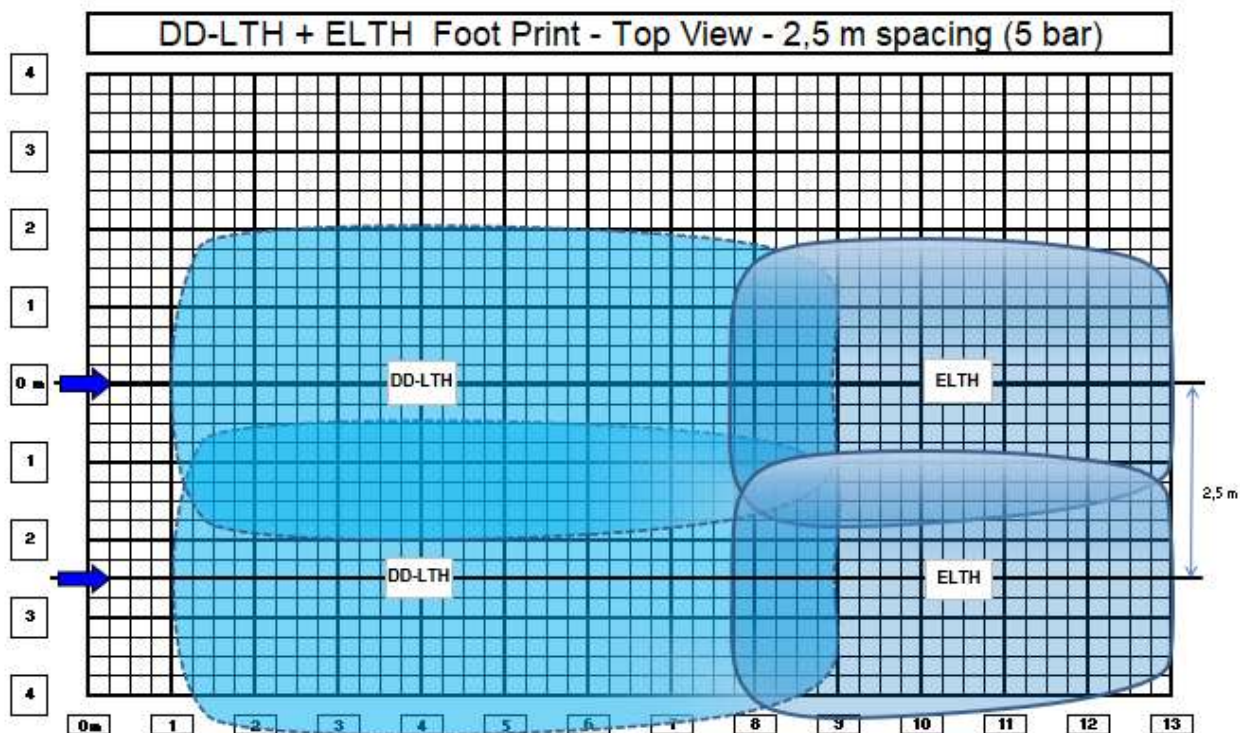
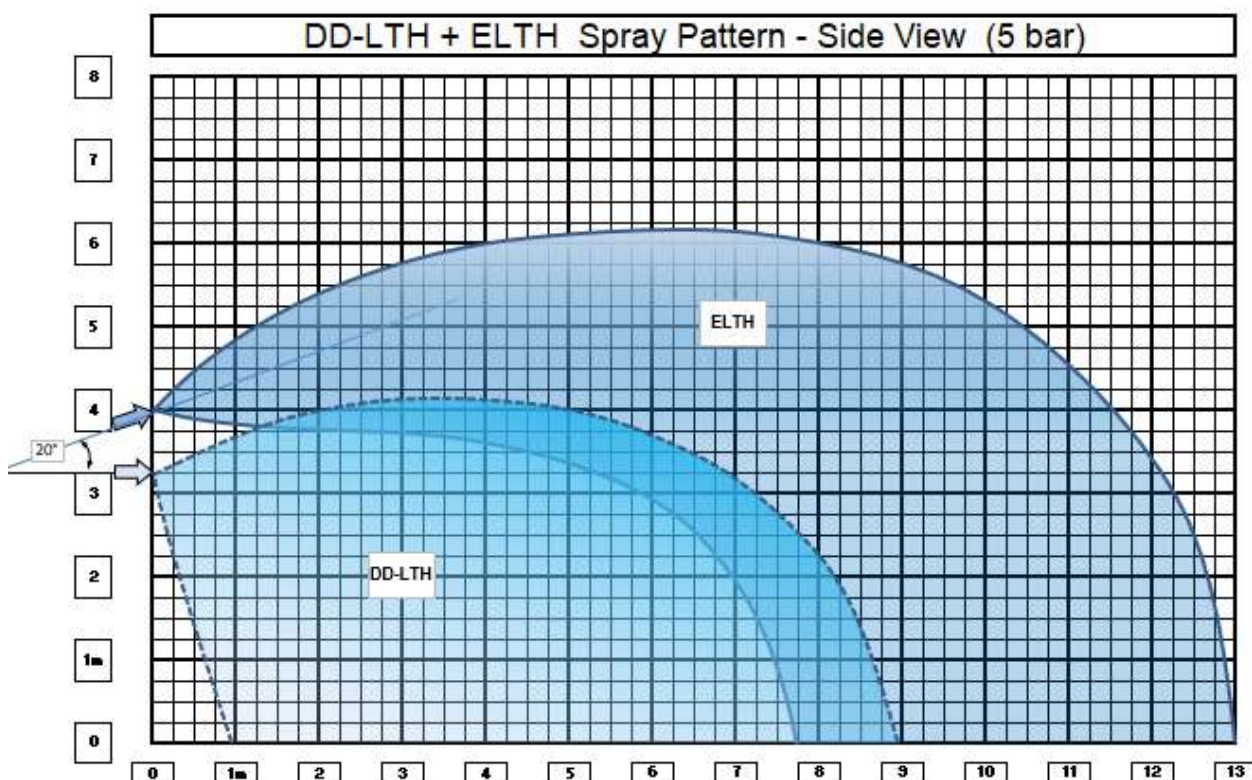
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Page 3 of 4

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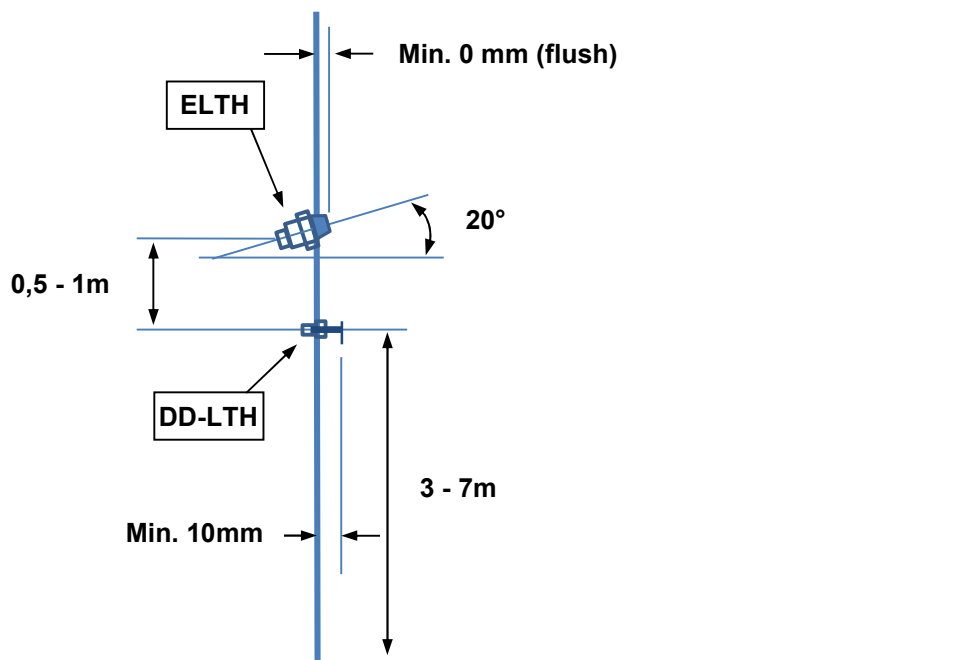


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#### INSTALLATION:



The DD-LTH and ELTH nozzles are installed in pair and with a horizontal spacing of 2,5m. The ELTH nozzle is located vertically above the DD-LTH nozzle. The DD-LTH nozzle is installed horizontally, and the ELTH nozzle is angled 20° up from horizontal to provide max. throw.

If required, for aesthetical appearance, the nozzles can be installed recessed so that the DD-LTH deflector protrudes min. 10mm. from the wall, and ELTH orifice is flush with the wall surface.

The DD-LTH / ELTH open nozzle combination is ideal for zone divided protection of large spaces where a definite number of nozzles are activated individually to combat fire only in the zone detected at risk.

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