HEROS DAYLIGHT SCHOOL

SPACE REQUIREMENTS

number of students 400 students ; 4 academic years 100 students / academic year 25 students / class TOTAL: 16 classes

OHS standard / Arbonorm $2 \text{ m}^2/\text{student} + 3,5 \text{ m}^2/\text{teacher} = 53,5 \text{ m}^2 minimum}$

--> HEROS concept ± 60 m² minimum

division disciplines

pavilion

- technics & entrepreneurship [project space, student stores/horeca]

ground level

- science [physics, chemistry, biology, care] - art & music [drawing, crafts, music, drama]

first level

- languages [dutch, english, french, german]

second level

- social science [geography, history, sociology, economy]

PROGRAM HEROS SCHOOL

GROUND LEVEL +0

Exterior

- 1. bicycle storage
- parking 3. distribution

Entrance

4. reception

- 5. toilet men
- 6. toilet women

Science

- storage 8. biology & care
- 9. physics & chemistry

Art & Music

- 10. exposition space
- 11. art 12. music

- Sporttribune / Aula
- 13. changing room boys 14. changing room girls
- 15. tribune sport / performance

Facilies

- 16. lodge concierge
- 17. toilets men/women/disabled 18. food/drink corner
- 19. kitchen
- 20. technical space (i.a. energy storage)

Solar Pavilion

21. charging point electric vehicles

- 22. project space students23. student stores

FIRST LEVEL +3750

- Sporttribune / Aula 24. playing tables
- 25. toilets

26. storage

- Languages
- 27. coffee / drinks
- 28. library 29. classrooms languages
- 30. reading nets / hammocks

Teachers & Staff

- 31. relax / lunch area
- 32. repro
- 33. toilet 34. administration

SECOND LEVEL +7510

- Social Science 35. flexible learning garden
- (divided into 4 zones)

Teachers & Staff

36. meeting room 37. office 38. office









hot-cold storage in the ground

 existing hot-cold storage (beneath the adjacent grass field)





REUSE EXISTING BUILDING #39

- façades

- foundation
- ducting systems

PAVILION SOLAR/DAYLIGHT ROOF

- zone north: charging point electric vehicles
- zone middle: project space students
- zone south: student stores





Daylight School 1:50



Façade detail 2 1:10





SUNFLOWER MOTION diagonal grid



0.87 Threshold 0.20 Tolerance 0.83 Threshold 0.25 Tolerance

0.87 Threshold 0.20 Tolerance



LOTUS MOTION diagonal grid





0.90 Threshold 0.25 Tolerance





0.85 Threshold 0.25 Tolerance





0.90 Threshold 0.25 Tolerance

REBOUND



REFLECTION







 	21
 	22
 	23

24

25

rebound

- 1 Yale Center for British Art Connecticut, United States TH: 0.75 - TO: 0.03
- 2 *Centro das Artes Casa das Mudas* Madeira, Portugal TH: 0.93 - TO: 0.07
- *3 Pajol Sports Centre* Paris, France TH: 0.74 - TO: 0.08
- **4** *Beyeler Foundation* Riehen, Switzerland TH: 0.88 - TO: 0.02
- **5** *Rotterdam Central Station* Rotterdam, The Netherlands TH: 0.88 - TO: 0.07
- 6 Museo dei Maestri IUAV Sala Aldo Rossi Venice, Italy TH: 0.89 - TO: 0.05
- 7 *Museo Provincial de Zamora* Zamora, Spain TH: 0.75 - TO: 0.09
- 8 Congress Centre of Aragón Expo 2008 Zaragoza, Spain TH: 0.82 - TO: 0.06

reflection

- 9 *Casa das Histórias Paula Rego* Cascais, Portugal TH: 0.86 - TO: 0.04
- **10** *Contemporary Art Centre* Córdoba, Spain TH: 0.68 - TO: 0.06
- **11** Herning Museum of Contemporary Art Herning, Denmark TH: 0.86 - TO: 0.03
- **12** *Fernando Botero Library Park* Medellín, Colombia TH: 0.65 - TO: 0.06
- **13** Herz Jesu Kirche Munich, Germany TH: 0.65 - TO: 0.06

- **14** Nottingham Contemporany Nottingham, Great Britain TH: 0.95 - TO: 0.04
- **15** *Musée de l'Orangerie* Paris, France TH: 0.95 - TO: 0.04
- **16** CGAC . Centro Galego de Arte Contemporâne Santiago de Compostela, Spain TH: 0.87 - TO: 0.05
- **17** *Kimbell Art Museum* Texas, United States TH: 0.86 - TO: 0.05
- **18** *Gym Hall TNW* Utrecht, The Netherlands TH: 0.93 - TO: 0.07
- **19** Nordic Pavilion Venice Biennale Venice, Italy
- TH: 0.75 TO: 0.04 **20** *Museo dei Maestri IUAV Sala Aldo Rossi* Venice, Italy TH: 0.98 - TO: 0.02

filtration

- **21** *Kunsthaus Bregenz* Bregenz, Austria TH: 0.75 - TO: 0.06
- **22** *Kirchner Museum Davos* Davos, Austria TH: 0.89 - TO: 0.05
- **23** *Museum La Congiunta* Giornico, Switzerland TH: 0.70 - TO: 0.04
- 24 Guggenheim Helsinki Design Competition Helsinki, Finland TH: 0.78 - TO: 0.04
- 25 Sammlung Goetz Munich, Germany TH: 0.93 - TO: 0.08
- 26 Daylight House Yokohama, Japan TH: 0.80 - TO: 0.05

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