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| ARK [®] zip 65mm - twin skin | – acou | stic roo | of: 29-c- | ARK-Sys-C | 9/2016 | | | | p 2 of 5 |
|---|--------------------|----------|------------------|-----------|--------|-------|-------|-------|----------|
| ARK®zip 65mm - system p | erforma | ance d | ata: 80 |)mm h | nalter | | | | |
| U value | W/m ² K | 0.22 | 0.21 | 0.20 | 0.19 | 0.18 | 0.17 | 0.16 | 0.15 |
| Spacer depth (excluding 30mm top hat stool) | mm | 160 | 170 | 180 | 190 | 200 | 210 | 230 | 250 |
| Insulation roll size | mm | 200 | 210 | 220 | 240 | 250 | 260 | 280 | 300 |
| Compressed insulation depth/ cavity depth | mm | 180 | 190 | 200 | 210 | 220 | 230 | 250 | 270 |
| Insulation lambda value | W/mK | 0.040 | 0.040 | 0.040 | 0.040 | 0.040 | 0.040 | 0.040 | 0.040 |
| Depth of roof | mm | 265 | 275 | 285 | 295 | 305 | 315 | 335 | 345 |
| Weight of roof (0.9mm AL) | kg/m ² | 13.9 | 14.1 | 13.0 | 14.3 | 14.4 | 14.5 | 14.8 | 14.9 |
| Weight of roof (0.7mm steel) | kg/m ² | 18.3 | 18.4 | 17.4 | 18.7 | 18.8 | 18.9 | 19.2 | 19.3 |
| Bracket brace required? | | No | No | No | No | No | No | No | No |
| | | | | | | | | | |
| U value | W/m ² K | 0.14 | 0.13 | 0.12 | 0.12 | 0.11 | 0.10 | T | |
| Spacer depth (excluding 30mm top hat stool) | mm | 270 | 290 | 290 | 310 | 340 | 350 | | |
| Insulation roll size | mm | 320 | 350 | 350 | 370 | 400 | 410 | | |
| Compressed insulation depth/ cavity depth | mm | 290 | 310 | 310 | 330 | 360 | 370 | | |
| Insulation lambda value | W/mK | 0.040 | 0.040 | 0.037 | 0.040 | 0.040 | 0.037 | | |
| Depth of roof | mm | 365 | 375 | 375 | 375 | 395 | 445 | | |
| Weight of roof (0.9mm AL) | kg/m ² | 15.1 | 15.3 | 15.3 | 15.3 | 15.5 | 16.1 | | |
| Weight of roof (0.7mm steel) | kg/m ² | 19.5 | 19.6 | 19.6 | 19.6 | 19.9 | 20.5 | | |
| Bracket brace required? | | Yes | Yes | Yes | Yes | Yes | Yes | | |

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| ARK [®] zip 65mm - twin skin - | | | | | | () | | | p 3 of 5 |
|---|--------------------|--------|---------|-------|--------|---------|--------|----------|----------|
| ARK [®] zip 65mm - system pe | ertorma | nce da | ata: 14 | 10mm | halter | · (chec | ck ava | ilabilit | :y) |
| U value | W/m ² K | 0.25 | 0.23 | 0.22 | 0.21 | 0.20 | 0.19 | 0.18 | 0.17 |
| Spacer depth (excluding 30mm top hat stool) | mm | 90 | 100 | 110 | 120 | 130 | 140 | 160 | 170 |
| Insulation roll size | mm | 190 | 200 | 210 | 220 | 240 | 250 | 270 | 280 |
| Compressed insulation depth/ cavity depth | mm | 170 | 180 | 190 | 200 | 210 | 220 | 240 | 250 |
| Insulation lambda value | W/mK | 0.040 | 0.040 | 0.040 | 0.040 | 0.040 | 0.040 | 0.040 | 0.040 |
| Depth of roof | mm | 265 | 275 | 285 | 295 | 305 | 315 | 335 | 345 |
| Weight of roof (0.9mm AL) | kg/m ² | 13.9 | 14.1 | 13.0 | 14.3 | 14.4 | 14.5 | 14.8 | 14.9 |
| Weight of roof (0.7mm steel) | kg/m ² | 18.3 | 18.4 | 17.4 | 18.7 | 18.8 | 18.9 | 19.2 | 19.3 |
| Bracket brace required? | | No | No | No | No | No | No | No | No |
| | • | • | • | | | | | | |
| U value | W/m ² K | 0.16 | 0.15 | 0.14 | 0.13 | 0.12 | 0.11 | T | |
| Spacer depth (excluding 30mm top hat stool) | mm | 190 | 200 | 200 | 200 | 220 | 270 | | |
| Insulation roll size | mm | 300 | 310 | 310 | 310 | 330 | 390 | | |
| Compressed insulation depth/ cavity depth | mm | 270 | 280 | 280 | 280 | 300 | 350 | | |
| Insulation lambda value | W/mK | 0.040 | 0.040 | 0.037 | 0.032 | 0.032 | 0.032 | | |
| Depth of roof | mm | 365 | 375 | 375 | 375 | 395 | 445 | | |
| Weight of roof (0.9mm AL) | kg/m ² | 15.1 | 15.3 | 15.3 | 15.3 | 15.5 | 16.1 | | |
| Weight of roof (0.7mm steel) | kg/m ² | 19.5 | 19.6 | 19.6 | 19.6 | 19.9 | 20.5 | | |
| Bracket brace required? | | No | No | No | No | No | Yes | | |

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| ARK [®] zin 65 | mm - twin skin – acoustic roof: 29-c-ARK-Sys-09/2016 p 4 of mm - system data |
|----------------------------------|---|
| | |
| Non-fragility | Non Fragile Class B to ACR[M]001. Refer to ARK product data sheet 30-ARK-Prod |
| Fire properties | Insulation is EuroClass A1 to BS EN ISO 13501-1, non combustible Liner Class 0, Topsheet Class AA to National Standards (Refer to ARK product data sheets 09-ARK-Prod and 30-ARK-Prod) |
| Minimum pitch | Nominal 1.5°. |
| Guarantees and Warranties | ARK Silver and ARK Gold. Refer to ARK technical data sheet 05-ARK-Tech "Warranties and guarantees" |
| wairanties | Neler to Ark technical data sheet of Ark-rech Warranties and guarantees |
| Curve options | Natural curve to 40m minimum radius. Factory curve radius is profile and material dependent, consult ARK |
| Fasteners, sealants | Refer to ARK product data sheets 09-ARK-Prod-ARKzip 65.400&430 and 30-ARK-Prod-ARKliner perfo |
| Airtightness | ARKzip systems with a sealed vcl are inherently airtight and contribute to low building air leakage rates. Th vcl is the air barrier and vapour control layer and has sealed side and end laps and robust sealing at eaves, ridge and verge. Penetrations (SVP etc) must be sealed into the vcl as well as into the outer sheet. The mos robust vcl is a self adhesive membrane with self sealing laps and the ability to bond to perimeters and penetrations. These tend to be the most resistant to damage and better in the long term. |
| Installation key requirements | Insulation must be dry when covered by the outer sheet. Insulation must fill the insulation cavity with minimal gaps around the spacer Fasteners for liner and spacer brackets are carbon steel self drillers and must have 15/16mm diameter sealed washers Liner fixings are in every trough at end laps, ridges and eaves, alternate troughs at intermediate purlins. Exposed fasteners are 304 grade stainless steel with coloured heads and 16mm diameter sealer washers, or aluminium rivets. Spacer brackets must have 2 fasteners per bracket. Halter brackets have 2No 304 grade stainless steel fasteners plus an isolating EPDM seal. Spacer brackets max 300mm from joggle joint Isolate aluminium from galvanised steel The vcl must be sealed all round, including over and under fillers bedded in sealant ARKzip requires a single fixed point per sheet, normally at the ridge or crown of a curved roof. Zip sheets as laid. Increase halter gauge by 5mm for natural curve sheets (Note impact on module if rooflights to be installed Set zipping tool to 20mm rib top diameter Close ribs by hand pliers at each sheet end before zipping. Protect pre-painted sheet finishes with a rib cloth |



| ARK [®] zip 65 | p 5 of 5 p 5 of 5 |
|-------------------------|--|
| ARK [®] zip 65 | omm - system data |
| Rooflights | In-plane and barrel vault site assembled triple skin GRP rooflight. Note- applies only to 65.400 profile for module to match liner at 400mm cover width 2.4kg/m2 inner and outer GRP, 4 wall polycarbonate internal layer, Class B non-fragility, U=1.3W/m ² K Partner company Brett Martin Daylight Systems, <u>www.daylightsystems.com</u> |
| Insulation | Earthwool Ecose FactoryClad 40/37/32 glass mineral wool quilt to BS EN 13162BS and BS3533:1981, non- combustible Euroclass A1 to BS EN ISO 13501-1 Partner company Knauf Insulation Ltd, <u>www.knaufinsulation.co.uk</u> Acoustic batts, RW3 White or black T/F Partner company Rockwool Ltd <u>www.rockwool.co.uk</u> |
| Roof safety | Partner company Latchways plc, <u>www.latchways.com</u> |
| systems | Partner company QBM Distributors Ltd, <u>www.qbmdistributors.co.uk</u> |
| Fasteners | Partner company EJOT UK Ltd, <u>www.ejot.co.uk</u> Partner company SFS intec Ltd, <u>www.sfsintec.biz/uk</u> Partner company Woodall Fastening Systems Ltd, <u>www.techscrew.com</u> Partner company QBM Distributors Ltd, <u>www.qbmdistributors.co.uk</u> |
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