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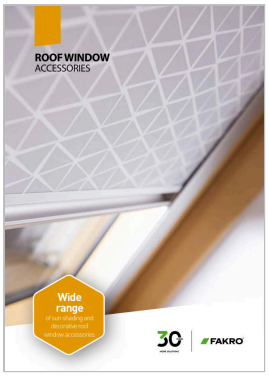
[logotip FAKRO]

KATALOG

Katalog: pribor za krovne prozore AMZ, ARZ, AJP, ARS, ARP, ARF, ARF Print, APS, APF, AMS, ZST, ZSZ

Originalna oznaka dokumenta: FA/44-/EN/12.04.2021/D043

Prevod uz katalog: tekst svake strane originala preveden je pored njene sličice. Fotografije i grafika nalaze se u originalu iza prevoda.



STRANA 1 ORIGINALA

PRIBOR ZA KROVNE PROZORE

Širok izbor pribora za zasjenjenje od sunca i dekorativnog pribora za krovne prozore

Oznake na crtežima

30 YEARS HOME SOLUTIONS	30 godina – rješenja za dom



STRANA 2 ORIGINALA

ZAŠTO KORISTITI PRIBOR ZA KROVNE PROZORE?

ZAŠTITA OD PREKOMJERNIH TOPLOTNIH DOBITAKA U PROSTORIJI

Spoljni pribor (spoljne tende i spoljne roletne) najbolje je sredstvo odbrane od neugodne toplote, jer efikasno štiti prostoriju od pregrijavanja tokom vrućih ljetnjih dana.



STRANA 3 ORIGINALA

DIZAJN ENTERIJERA

Unutrašnji pribor može dati završni pečat svakom uređenom potkrovlju.
Širok izbor vrsta, stilova i boja obezbjeđuje potpunu usklađenost sa izabranim dekorom i pomaže da se oblikuje karakter prostorije.

KONTROLA SVJETLOSTI

Pribor reguliše količinu i intenzitet svjetlosti koja ulazi u prostoriju. U jednom ekstremu možete imati potpuni mrak čak i za sunčanog dana, a u drugom možete jednostavno upotrijebiti zastor da spriječite odsjaj svjetlosti na ekranima računara i televizora.

ZAŠTITA OD UV ZRAČENJA

Pribor štiti od prodiranja UV zračenja u unutrašnjost i sprječava da oprema prostorije izblijedi ili požuti.

ZAŠTITA PRIVATNOSTI

FAKRO pribor za krovne prozore štiti unutrašnjost vašeg doma od pogleda posmatrača i obezbjeđuje osjećaj privatnosti.

LAKA UGRADNJA

Sav FAKRO pribor osmišljen je tako da se potpuno lako ugrađuje na naše prozore, što nije uvijek slučaj sa zastorima iz nekih izvora. Unutrašnji pribor ima garanciju od 2 godine i objedinjuje najviši standard funkcionalnosti i dizajna.

LAKO RUKOVANJE

Naš unutrašnji i spoljni pribor odlikuje se lakim rukovanjem. FAKRO ponuda obuhvata i pribor na električni pogon, opremljen Z-Wave modulom za udobno upravljanje daljinskim upravljačem ili zidnim prekidačem.



STRANA 4 ORIGINALA

ZAŠTITITE SE OD TOPLOTNIH DOBITAKA...

KOJI PRIBOR PRUŽA NAJBOLJU ZAŠTITU OD PREGRIJAVANJA?

Standard DIN 5034-1 definiše potrebne nivoe prirodne svjetlosti koje treba obezbijediti u unutrašnjim prostorijama. U njemu se navodi da prostorije treba zaštititi od pregrijavanja upotrebom spoljnog pribora (spoljne tende ili roletne), jer on pruža bolju zaštitu od unutrašnjih zastora.

KAKO TO IZGLEDA U PRAKSI?

FAKRO neprekidno analizira efikasnost svih vrsta pribora u zaštiti od toplotnih dobitaka kako bi poboljšao njihove performanse i povećao komfor korisnika. Izgradili smo osam identičnih prostorija kako bismo mogli da sprovodimo ispitivanja u vezi sa izloženošću sunčevom i UV zračenju, i opremili smo ih istim krovnim prozorima i različitim priborom. Tokom istraživanja prozori su bili zatvoreni, a temperatura je neprekidno mjerena na visini od jednog metra iznad poda u različitim tačkama; rezultati ovih ispitivanja prikazani su na grafikonu ispod.

Oznake na crtežima

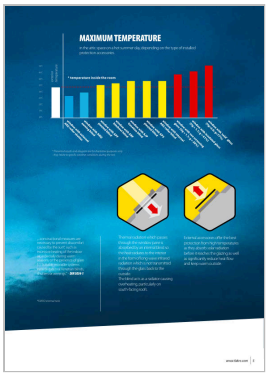
Fig. 1	Sl. 1 – 39% / 61%
Fig. 2	Sl. 2 – 63% / 27%
Fig. 3	Sl. 3 – 96% / 4%

Koeficijent sunčevog zračenja „g" pokazuje količinu sunčeve energije koja dospijeva do stakla i prodire u prostoriju. Što je veća vrijednost koeficijenta „g", prostorija se brže zagrijava. Spoljna tenda pruža do 8 puta efikasniju zaštitu u poređenju sa unutrašnjim roletnama za zamračenje.

8 puta efikasnije

Dokumentovana istraživanja* jasno pokazuju da spoljni pribor (spoljne tende i spoljne roletne) štiti od toplotnih dobitaka. Tende pružaju najbolju zaštitu, a ujedno su najisplativije i najpraktičnije. Mogu se koristiti i unutrašnji zastori, ali su oni uglavnom manje efikasni, a njihove glavne prednosti su smanjenje svjetlosti i unutrašnji dekor.

Propusnost sunčeve energije:
Slika 1: Prozor bez zastora g = 61% (0.61) prema EN 410
Slika 2: Prozor sa unutrašnjom roletnom za zamračenje g = 37% (0.37) prema EN 13363-1
Slika 3: Prozor sa tendom (zavisno od upotrijebljene tkanine) g = 4-14% (0.04 − 0.14) prema EN 13363-1



STRANA 5 ORIGINALA

MAKSIMALNA TEMPERATURA

u potkrovlju tokom vrućeg ljetnjeg dana, u zavisnosti od vrste ugrađenog zaštitnog pribora.

Oznake na dijagramu

- Osa temperature: 10°C, 15°C, 20°C, 25°C, 30°C, 35°C, 40°C, 45°C, 50°C
- spoljna temperatura
- * temperatura u prostoriji
- prozor sa spoljnom roletnom ARZ
- prozor sa tendom AMZ
- prozor sa plisiranom zavjesom APF
- prozor sa roletnom za zamračenje ARF
- prozor sa venecijanerom AJP
- prozor sa plisiranom zavjesom APS
- prozor sa unutrašnjom roletnom ARS
- prozor sa staklom za zaštitu od sunca (Ug = 1.1; g = 30%)
- prozor sa izolacionim staklom (Ug = 1.1; g = 61%)
- prozor sa „hladnim" staklom (Ug=2.6; g=77%)

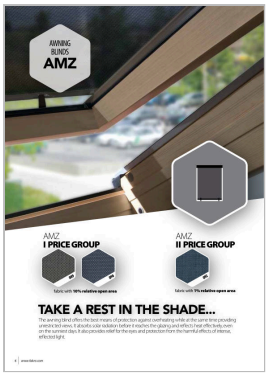
* Prikazani rezultati i dijagram imaju samo ilustrativni karakter – odnose se na određene vremenske uslove tokom ispitivanja.

„...potrebne su građevinske mjere da bi se spriječila neugodnost koju izaziva sunce*, kao što su prekomjerno zagrijavanje vazduha u prostoriji, naročito tokom toplih godišnjih doba, ili pojava blještavila [...]. Pogodni pokretni sistemi uključuju spoljne venecijanere, roletne ili tende." – **DIN 5034-1**

Toplotno zračenje koje prolazi kroz prozorsko staklo upija unutrašnji zastor, pa se toplota zrači u unutrašnjost u obliku dugotalasnog infracrvenog zračenja, koje se kroz staklo ne propušta nazad prema spolja.
Zastor djeluje kao radijator i izaziva pregrijavanje, naročito na krovovima okrenutim prema jugu.

Spoljni pribor pruža najbolju zaštitu od visokih temperatura jer upija sunčevo zračenje prije nego što ono dospije do zastakljenja, kao i znatno smanjuje protok toplote i zadržava toplotu napolju.

*Interna ispitivanja kompanije FAKRO



STRANA 6 ORIGINALA

SPOLJNE TENDE AMZ

AMZ – I CJENOVNA GRUPA

Šifre uzoraka: 089, 090

tkanina sa **10% relativne otvorene površine**

AMZ – II CJENOVNA GRUPA

Šifra uzorka: 092

tkanina sa **1% relativne otvorene površine**

ODMORITE SE U SJENCI...

Tenda pruža najbolju zaštitu od pregrijavanja, a istovremeno omogućava neometan pogled. Upija sunčevo zračenje prije nego što dospije do zastakljenja i efikasno odbija toplotu, čak i u najsunčanijim danima. Takođe daje odmor očima i štiti od štetnih efekata intenzivne, odbijene svjetlosti.



STRANA 7 ORIGINALA

AMZ Z-Wave, AMZ WiFi, AMZ Solar, AMZ Electro, AMB

8 puta efikasnije

Tenda AMZ izrađena je od izdržljive mreže otporne na vremenske uslove. Namotava se na osovinu sa oprugom i smješta u aluminijumsku kasetu montiranu iznad prozora. Ova konstrukcija omogućava lako rukovanje i obezbjeđuje veću površinu tkanine za efikasnije zasjenjenje prostorije.

KARAKTERISTIKE:

- Do 8 puta efikasnija zaštita od pregrijavanja u poređenju sa unutrašnjim zastorima.
- Efikasno zasjenjenje bez ograničavanja pogleda napolje.
- Lako rukovanje, jer prozor može dugo ostati prekriven bez potrebe da se tenda namotava.
- Zaštita od UV zračenja.
- Smanjena buka od kiše i grada kada je tenda spuštena.
- Optimalna zaštita od toplotnih dobitaka.
- Laka ugradnja, jer se tenda montira sa unutrašnje strane krova (jednostavnim odvrtanjem četiri vijka, postavljanjem tende i ponovnom upotrebom istih otvora).

UPRAVLJANJE:

- Tendom AMZ upravlja se rukom ili pomoću isporučene šipke za upravljanje.

Oznake na crtežima

NEW LINE	nova linija
AUTO	automatski rad

AMZ Z-WAVE

- Lako rukovanje ručnim daljinskim upravljačem ili zidnim prekidačem u bežičnom Z-Wave sistemu.
- Napaja se iz mrežnog napajanja 15V DC.
- Potpuno kompatibilna sa drugim Z-Wave uređajima i aparatima, uključujući krovni prozor FTP-V Z-Wave.

UPRAVLJANJE: Upravlja se daljinskim upravljačem ili zidnim prekidačem.

AMZ WIFI

- Lako upravljanje preko aplikacije wBox.
- Napaja se iz mrežnog napajanja 15V DC.
- Kompatibilna sa drugim uređajima koji rade u μWiFi tehnologiji.

UPRAVLJANJE: Upravlja se pametnim telefonom.

AMZ SOLAR

- Udobno i automatsko upravljanje tendom (inteligentni sistem upravlja tendom u zavisnosti od nivoa osunčanosti). Pri visokom nivou osunčanosti tenda se automatski spušta, a pri oblačnom vremenu ponovo se namotava.
- Napaja se solarnim baterijskim paketom.

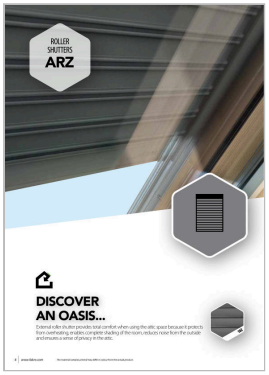
UPRAVLJANJE: Radi automatski ili se upravlja daljinskim upravljačem.

AMZ ELECTRO

- AMZ Electro 230 – priključak na električnu mrežu.
- AMZ Electro 24 – upravljačka jedinica 24V DC.

UPRAVLJANJE: Upravlja se zidnim prekidačem.

Tende tipa Solar treba postaviti na mjesta na kojima je solarni panel izložen direktnom suncu. Preporučuje se ugradnja tendi na krovovima okrenutim prema jugu, istoku i zapadu. Ugradnja na sjevernoj strani može dovesti do pražnjenja baterije i nemogućnosti upravljanja tendom.



STRANA 8 ORIGINALA

SPOLJNE ROLETNE ARZ

OTKRIJTE OAZU...

Spoljna roletna obezbjeđuje potpuni komfor pri upotrebi potkrovlja, jer štiti od pregrijavanja, omogućava potpuno zasjenjenje prostorije, smanjuje buku spolja i pruža osjećaj privatnosti u potkrovlju.

Šifra uzorka: 102

Odštampani uzorci materijala mogu se po boji razlikovati od stvarnog proizvoda.



STRANA 9 ORIGINALA

ARZ-H, ARZ Z-Wave, ARZ WiFi, ARZ Solar, ARZ Electro

Pošto se roletne postavljaju spolja, one pružaju efikasnu zaštitu od neželjenih toplotnih dobitaka. Aluminijumske lamele spojene su posebnim gumenim spojnicima radi veće otpornosti na vremenske uslove.

KARAKTERISTIKE:

- Efikasna zaštita od mučne toplote.
- Smanjenje gubitka toplote tokom zime do 15% (za prozor sa U-vrijednošću 1.3W/m²K).
- Potpuno zamračenje za potpunu privatnost.
- Zaštita od UV zračenja.
- Akustična zaštita od spoljne buke.
- Zaštita od pokušaja provale.

Pri ugradnji roletni na prozore u vertikalnim kombinacijama između prozora mora se zadržati razmak od najmanje 20 cm, dok se u horizontalnim kombinacijama taj razmak može smanjiti na 10 cm.

ARZ-H

UPRAVLJANJE: ARZ-H se pokreće isporučenom kurbom.

ARZ Z-WAVE

UPRAVLJANJE: ARZ u bežičnom Z-Wave sistemu upravlja se zidnim prekidačem ili daljinskim upravljačem i napaja se napajanjem od 15V DC.

ARZ WIFI

UPRAVLJANJE: ARZ u bežičnom WiFi sistemu upravlja se pametnim telefonom i napaja se napajanjem od 15V DC.

ARZ SOLAR

UPRAVLJANJE: ARZ Solar upravlja se daljinskim upravljačem. Solarna roletna opremljena je upravljačkom jedinicom i akumulatorom koji se napajaju solarnom ćelijom na roletni. Preporučuje se na mjestima gdje nije moguće dovesti napajanje.

ARZ ELECTRO

UPRAVLJANJE: ARZ Electro 230 – priključak na električnu mrežu, ARZ Electro 24 – upravljačka jedinica 24V DC. Roletnama ARZ Electro upravlja se zidnim prekidačem.

Roletne tipa Solar treba postaviti na mjesta na kojima je solarni panel izložen direktnom suncu. Preporučuje se ugradnja roletni na krovovima okrenutim prema jugu, istoku i zapadu. Ugradnja na sjevernoj strani može dovesti do pražnjenja baterije i nemogućnosti upravljanja roletnom.



STRANA 10 ORIGINALA

VENECIJANERI AJP

KONTROLA SVJETLOSTI U VAŠIM RUKAMA...

Venecijaner AJP je popularan pribor za krovne prozore koji može regulisati količinu svjetlosti i toplote koja ulazi u prostoriju. Ugao lamela može se mijenjati na tradicionalan način, radi promjene količine svjetlosti i uživanja u izuzetnom efektu koji se stvara u prostoriji.



STRANA 11 ORIGINALA

AJP Z-Wave

Venecijaner AJP štiti od pregrijavanja i može se koristiti za unapređenje dizajna enterijera. Venecijaner je smješten u aluminijumsku kasetu koja štiti od prodiranja svjetlosti sa strane.
Krilo prozora može se okretati i sa spuštenim venecijanerom.

KARAKTERISTIKE:

- Podešavanje lamela radi promjene količine i pravca svjetlosti koja ulazi u prostoriju.
- Unapređen dizajn enterijera.
- Djelimično smanjenje toplotnih dobitaka u prostoriji.
- Venecijaner se može fiksirati u bilo kom položaju.
- Zaštita od UV zračenja.
- Obezbjeđuje privatnost bez značajnog smanjenja prirodne svjetlosti u prostoriji.

UPRAVLJANJE:

- AJP se upravlja ručno. Za upravljanje venecijanerom koji je van domašaja dostupna je univerzalna šipka za upravljanje ZST.
- AJP u bežičnom Z-Wave sistemu upravlja se zidnim prekidačem ili daljinskim upravljačem i napaja se napajanjem od 15V DC.

Električni pogon venecijanera AJP u Z-Wave sistemu upravlja uglom lamela samo kada je prozor zatvoren.

Bočne aluminijumske vodilice omogućavaju potpuno zasjenjenje prostorije i drže lamele poravnatim.

Venecijanerom AJP Z-Wave upravlja se zidnim prekidačem ili daljinskim upravljačem.



STRANA 12 ORIGINALA

BOJE

VENECIJANERA AJP

I CJENOVNA GRUPA

Šifre uzoraka: 140, 167

Odštampani uzorci materijala mogu se po boji razlikovati od stvarnog proizvoda.

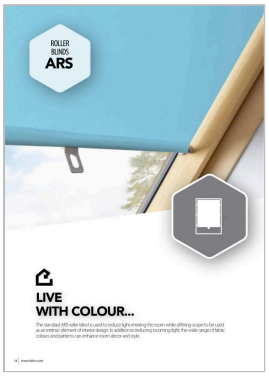


STRANA 13 ORIGINALA

II CJENOVNA GRUPA

Šifre uzoraka: 141, 143, 144, 145, 146, 147, 148, 149, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 164, 165

Odštampani uzorci materijala mogu se po boji razlikovati od stvarnog proizvoda.



STRANA 14 ORIGINALA

ROLETNE ARS

ŽIVITE U BOJI...

Standardna roletna ARS koristi se za smanjenje svjetlosti koja ulazi u prostoriju, a istovremeno se može upotrijebiti kao sastavni element dizajna enterijera. Pored smanjenja svjetlosti koja ulazi, širok izbor boja i šara tkanine može unaprijediti dekor i stil prostorije.



STRANA 15 ORIGINALA

ARS

Roletna ARS je tkanina namotana na osovinu sa oprugom. Isporučuje se sa atraktivnom aluminijumskom maskom koja elegantno skriva osovinu, a na krilu ima tri para kukica koje omogućavaju da se roletna fiksira u tim položajima.

KARAKTERISTIKE:

- Promjenjivo smanjenje svjetlosti koja ulazi.
- Širok izbor boja i šara za različite ukuse.
- Djelimična zaštita od toplotnih dobitaka.
- Može se fiksirati u tri različita položaja.
- Potpuna privatnost kada je zatvorena.

UPRAVLJANJE:

- ARS se upravlja ručno. Za upravljanje roletnom koja je van domašaja dostupna je univerzalna šipka za upravljanje ZST.

Aluminijumska maska koja skriva osovinu roletne

Kukica za fiksiranje roletne u jednom od tri položaja



STRANA 16 ORIGINALA

BOJE

ARS, ARP – I CJENOVNA GRUPA

Šifre uzoraka: 001, 007, 002, 216

ARS II, ARP – II CJENOVNA GRUPA

Šifre uzoraka: 240, 241, 015, 011, 242, 218, 203, 008, 243, 244, 219, 009, 245, 246, 266, 247, 010, 248, 222, 249, 204, 250, 012, 004, 014

Odštampani uzorci materijala mogu se po boji razlikovati od stvarnog proizvoda.



STRANA 17 ORIGINALA

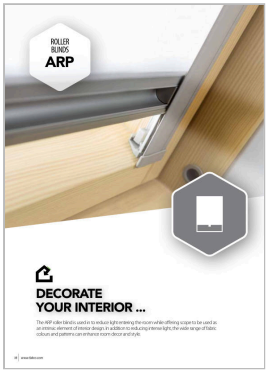
Šifre uzoraka: 223, 251, 254, 220, 267, 003, 217, 252, 253, 221, 013, 016, 268, 269, 270, 271, 272, 274, 273, 215, 278, 279, 280, 281, 282

ARS – II CJENOVNA GRUPA

Šifre uzoraka: 006, 225, 207, 206, 208

- Boja u sjenci
- Boja na svjetlu

Odštampani uzorci materijala mogu se po boji razlikovati od stvarnog proizvoda.



STRANA 18 ORIGINALA

ROLETNE ARP

UKRASITE SVOJ ENTERIJER ...

Roletna ARP služi za smanjenje svjetlosti koja ulazi u prostoriju, a istovremeno se može upotrijebiti kao sastavni element dizajna enterijera. Pored smanjenja intenzivne svjetlosti, širok izbor boja i šara tkanine može unaprijediti dekor i stil prostorije.



STRANA 19 ORIGINALA

ARP Z-Wave, ARP WiFi

Oznake na crtežima

AUTO automatski rad

Širok izbor boja i šara može se iskoristiti da se u velikoj mjeri unaprijedi estetika svake prostorije. Aluminijumske vodilice pokrivaju ivice tkanine i omogućavaju da se roletna postavi u bilo koji položaj.

KARAKTERISTIKE:

- Promjenjivo smanjenje svjetlosti koja ulazi.
- Širok izbor boja i šara za individualne ukuse.
- Djelimična zaštita od toplotnih dobitaka.
- Može se fiksirati u bilo kom položaju zahvaljujući bočnim vodilicama.
- Zaštita od UV zračenja.
- Obezbjeđuje potpunu privatnost.

UPRAVLJANJE:

- ARP se upravlja ručno. Za upravljanje roletnom koja je van domašaja dostupna je univerzalna šipka za upravljanje ZST.
- ARP u bežičnom Z-Wave sistemu upravlja se zidnim prekidačem ili daljinskim upravljačem, napajanje 15V DC.
- ARP u bežičnom µWiFi sistemu upravlja se pametnim telefonom, napajanje 15V DC.

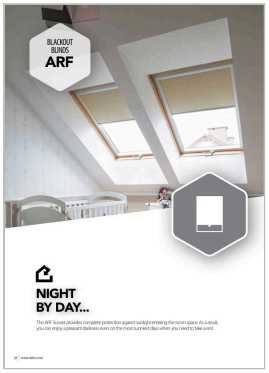
Upravljanje roletnama ARP Z-Wave i ARP WiFi moguće je samo kada je prozor zatvoren.

Električne roletne ARP dostupne su i u verziji Electro 24 na zahtjev – napajanje i upravljanje iz upravljačke jedinice 24V DC.

Aluminijumska maska koja skriva osovinu roletne

Bočne vodilice omogućavaju zaustavljanje roletne u bilo kom položaju

Roletnom ARP Z-Wave može se upravljati zidnim prekidačem ili daljinskim upravljačem

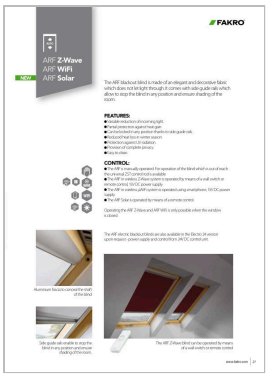


STRANA 20 ORIGINALA

ROLETNE ZA ZAMRAČENJE ARF

NOĆ TOKOM DANA...

ARF Sunset pruža potpunu zaštitu od prodiranja sunčeve svjetlosti u prostoriju. Zahvaljujući tome, možete uživati u ugodnom mraku čak i u najsunčanijim danima, kada vam je potreban odmor.



STRANA 21 ORIGINALA

ARF Z-Wave, ARF WiFi, ARF Solar

Oznake na crtežima

NEW	novo
AUTO	automatski rad

Roletna za zamračenje ARF izrađena je od elegantne i dekorativne tkanine koja ne propušta svjetlost. Isporučuje se sa bočnim vodilicama koje omogućavaju zaustavljanje roletne u bilo kom položaju i obezbjeđuju zasjenjenje prostorije.

KARAKTERISTIKE:

- Promjenjivo smanjenje svjetlosti koja ulazi.
- Djelimična zaštita od toplotnih dobitaka.
- Može se fiksirati u bilo kom položaju zahvaljujući bočnim vodilicama.
- Smanjen gubitak toplote tokom zime.
- Zaštita od UV zračenja.
- Obezbjeđuje potpunu privatnost.
- Lako se čisti.

UPRAVLJANJE:

- ARF se upravlja ručno. Za upravljanje roletnom koja je van domašaja dostupna je univerzalna šipka za upravljanje ZST.
- ARF u bežičnom Z-Wave sistemu upravlja se zidnim prekidačem ili daljinskim upravljačem, napajanje 15V DC.
- ARF u bežičnom µWiFi sistemu upravlja se pametnim telefonom, napajanje 15V DC.
- ARF Solar upravlja se daljinskim upravljačem.

Upravljanje roletnama ARF Z-Wave i ARF WiFi moguće je samo kada je prozor zatvoren.

Električne roletne za zamračenje ARF dostupne su i u verziji Electro 24 na zahtjev – napajanje i upravljanje iz upravljačke jedinice 24V DC.

Aluminijumska maska koja skriva osovinu roletne

Bočne vodilice omogućavaju zaustavljanje roletne u bilo kom položaju i obezbjeđuju zasjenjenje prostorije.

Roletnom ARF Z-Wave može se upravljati zidnim prekidačem ili daljinskim upravljačem



STRANA 22 ORIGINALA

BOJE ROLETNI ZA ZAMRAČENJE ARF

CJENOVNA GRUPA I

255, 055, 052, 051, 265

Odštampani uzorci materijala mogu se razlikovati po boji od stvarnog proizvoda.

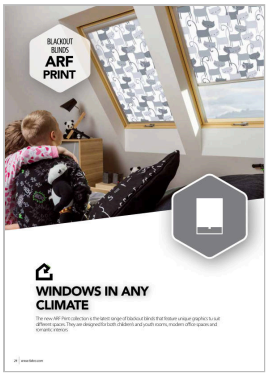


STRANA 23 ORIGINALA

CJENOVNA GRUPA II

053, 227, 231, 256, 257
054, 258, 057, 259, 260
261, 056, 232, 262, 058
059, 263, 264, 233, 226
239, 275, 276, 277

Odštampani uzorci materijala mogu se razlikovati po boji od stvarnog proizvoda.

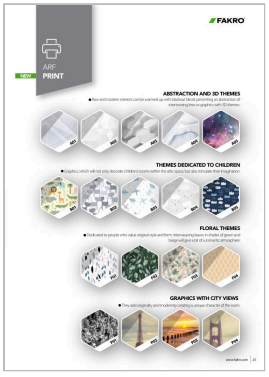


STRANA 24 ORIGINALA

ROLETNE ZA ZAMRAČENJE ARF PRINT

PROZORI U SVAKOJ KLIMI

Nova kolekcija ARF Print je najnovija linija roletni za zamračenje sa jedinstvenom grafikom prilagođenom različitim prostorima. Osmišljene su kako za dječje i omladinske sobe, tako i za savremene kancelarijske prostore i romantične enterijere.



STRANA 25 ORIGINALA

ARF PRINT – NOVO

APSTRAKCIJA I 3D TEME

- Sirovi i moderni enterijeri mogu postati topliji uz roletne za zamračenje koje prikazuju apstrakciju isprepletenih linija ili grafike sa 3D temama.

A01, A02, A03, A04, A05

TEME POSVEĆENE DJECI

- Grafike koje ne samo da će ukrasiti dječje sobe u potkrovlju, nego će i podsticati njihovu maštu.

B01, B02, B03, B04, B05

CVJETNE TEME

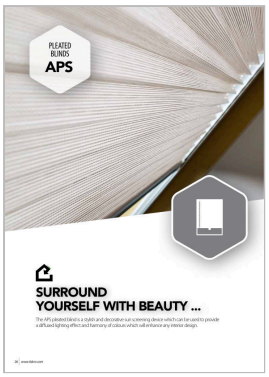
- Posvećene ljudima koji cijene originalan stil i oblik. Isprepleteno lišće u nijansama zelene i bež daće malo romantične atmosfere.

F01, F02, F03, F04

GRAFIKE SA POGLEDIMA NA GRAD

- Dodaju originalnost i modernost i stvaraju jedinstven karakter prostorije.

P01, P02, P03, P04



STRANA 26 ORIGINALA

PLISIRANE ZAVJESE APS

OKRUŽITE SE LJEPOTOM ...

Plisirana zavjesa APS je stilski i dekorativan uređaj za zaštitu od sunca koji se može koristiti za postizanje efekta raspršenog osvjetljenja i sklada boja, čime se oplemenjuje svaki enterijer.



STRANA 27 ORIGINALA

APS

Aluminijumske vodilice dostupne su u dvije boje – lakirana bijela i eloksirana srebrna.

KARAKTERISTIKE:

- Obezbjeđuje blagu, raspršenu svjetlost i sklad boja.
- Promjenljivo smanjenje količine svjetlosti koja ulazi.
- Djelimična zaštita od toplotnih dobitaka.
- Zahvaljujući bočnim vodilicama može se zaustaviti u bilo kom položaju.
- Sistem Top-down (odozgo prema dolje) – jednostavno rukovanje pomoću gornje i donje šipke.
- Zaštita od UV zračenja.
- Obezbjeđuje potpunu privatnost.

UPRAVLJANJE:

- Plisiranom zavjesom APS rukuje se ručno. Za rukovanje zavjesom koja je van dohvata dostupna je univerzalna šipka za upravljanje ZST.

Aluminijumske vodilice omogućavaju zaustavljanje zavjese u bilo kom položaju

Praktičan prihvat za prste za rukovanje zavjesom

Sistem Top-down (odozgo prema dolje) – jednostavno rukovanje pomoću gornje i donje šipke



STRANA 28 ORIGINALA

BOJE PLISIRANIH ZAVJESA APS

CJENOVNA GRUPA I

651, 652, 662

Odštampani uzorci materijala mogu se razlikovati po boji od stvarnog proizvoda.



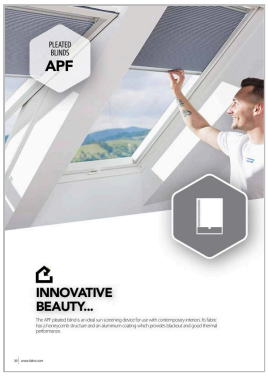
STRANA 29 ORIGINALA

CJENOVNA GRUPA II

653, 654, 655, 656, 657
658, 659, 660, 661, 665
663, 664, 674
673, 666, 667, 668, 669
670, 671, 672

Boja u sjenci
Boja na svjetlosti

Odštampani uzorci materijala mogu se razlikovati po boji od stvarnog proizvoda.



STRANA 30 ORIGINALA

PLISIRANE ZAVJESE APF

INOVATIVNA LJEPOTA...

Plisirana zavjesa APF je idealan uređaj za zaštitu od sunca za savremene enterijere. Njena tkanina ima saćastu strukturu i aluminijumski premaz koji obezbjeđuje zamračenje i dobre toplotne karakteristike.



STRANA 31 ORIGINALA

APF

Aluminijumske vodilice dostupne su u dvije boje – lakirana bijela i eloksirana srebrna.

KARAKTERISTIKE:

- Promjenljivo smanjenje količine svjetlosti koja ulazi.
- Djelimična zaštita od toplotnih dobitaka.
- Zahvaljujući bočnim vodilicama može se zaustaviti u bilo kom položaju.
- Sistem Top-down (odozgo prema dolje) – jednostavno rukovanje pomoću gornje i donje šipke.
- Zaštita od UV zračenja.
- Obezbjeđuje potpunu privatnost.

UPRAVLJANJE:

- Plisiranom zavjesom APF rukuje se ručno. Za rukovanje zavjesom koja je van dohvata dostupna je univerzalna šipka za upravljanje ZST.

Aluminijumske vodilice omogućavaju zaustavljanje zavjese u bilo kom položaju

Tkanina sa strukturom nalik saću i unutrašnjim aluminijumskim premazom

Sistem Top-down (odozgo prema dolje) – jednostavno rukovanje pomoću gornje i donje šipke



STRANA 32 ORIGINALA

BOJE PLISIRANIH ZAVJESA APF

Odštampani uzorci materijala mogu se razlikovati po boji od stvarnog proizvoda.



STRANA 33 ORIGINALA

CJENOVNA GRUPA I

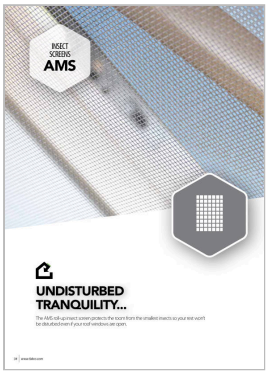
601

CJENOVNA GRUPA II

602, 607, 608
609, 604, 605
610, 613, 611
612, 603, 606

Boja u sjenci
Boja na svjetlosti

Odštampani uzorci materijala mogu se razlikovati po boji od stvarnog proizvoda.



STRANA 34 ORIGINALA

MREŽE PROTIV INSEKATA AMS

NEOMETAN MIR...

Rolo mreža protiv insekata AMS štiti prostoriju od i najsitnijih insekata, tako da vam odmor neće biti ometan čak ni kada su krovni prozori otvoreni.

STRANA 35 ORIGINALA

AMS

Mreža protiv insekata AMS jedini je FAKRO pribor za krovne prozore koji se montira na oblogu, a ne na prozor. Izrađena je od PVC-a presvučenog mrežicom i ima aluminijumske vodilice koje su dostupne u dvije boje – lakirana bijela i eloksirana srebrna.

KARAKTERISTIKE:

- Efikasna zaštita od komaraca i drugih insekata.
- Minimalno smanjenje prirodne svjetlosti.
- Može se ugraditi zajedno sa drugim unutrašnjim i spoljnim zastorima i tendama.

UPRAVLJANJE:

- Mrežom protiv insekata AMS rukuje se ručno. Za rukovanje mrežom koja je van dohvata dostupna je univerzalna šipka za upravljanje ZST.

Struktura mreže protiv insekata obezbjeđuje potpunu zaštitu od insekata

DIMENZIJE MREŽE PROTIV INSEKATA

ŠIRINA PROZORA [CM]	55	55	66	66	78	78	94	94	114	114	134	134
ŠIRINA UNUTRAŠNJE OBLOGE [CM], DRVENI I PVC PROZORI (2006-2020)	48,5	48,5	59,5	59,5	71,5	71,5	87,5	87,5	107,5	107,5	127,5	127,5
ŠIRINA UNUTRAŠNJE OBLOGE [CM], PVC PROZORI (2. KVARTAL 2020 – DO SADA)	49,5	49,5	60,5	60,5	72,5	72,5	88,5	87,5	108,5	108,5	128,5	128,5
MAKS. UNUTRAŠNJA VISINA OBLOGE [CM]	170	200	200	240	200	240	200	240	200	240	200	240



STRANA 36 ORIGINALA

BEŽIČNO UPRAVLJANJE Z-WAVE

NA DOHVAT RUKE...

Z-Wave je komunikaciona tehnologija posebno projektovana da omogući upravljanje i nadzor kako stambenih, tako i poslovnih objekata. Tehnologija Z-Wave obezbjeđuje najviši nivo kvaliteta i bezbjednosti dostupan u oblasti bežične tehnologije. Z-Wave sistem je jednostavan za ugradnju, proširivanje i upravljanje u svim fazama procesa izgradnje. Pošto sistem ne zahtijeva upotrebu električne razvodne table niti komunikacionih kablova između električnih proizvoda, trošak ugradnje je znatno smanjen, kako u pogledu trajanja ugradnje, tako i u pogledu količine materijala potrebnog za završetak instalacije.

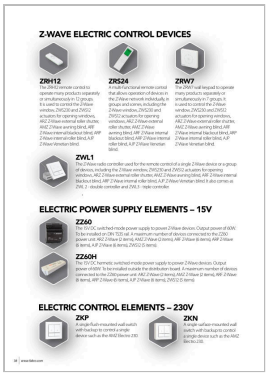


STRANA 37 ORIGINALA

FAKRO proizvodi opremljeni modulom **Z-Wave** integrisani su u napredno tehnološko rješenje sistema FAKRO smartHome i mogu se lokalno kontrolisati putem daljinskog upravljača.

FAKRO proizvodi opremljeni modulom **Z-Wave** rade zajedno sa FIBARO uređajima. Uz upravljačku jedinicu FIBARO Home Center 2 korisnik može da napravi pametni dom kojim se, pomoću pametnog telefona, može upravljati sa bilo kog mjesta na svijetu.

Sistem FAKRO smartHome (FSH) može se integrisati sa proizvodima drugih proizvođača u okviru jedne aplikacije. U sistem FSH mogu se dodati i drugi uređaji opremljeni modulom Z-Wave, kao što su rasvjeta, grijanje ili različite vrste senzora, kao što su senzori vjetra, kiše, dima, smoga ili ugljen-monoksida. Čak 600 kompanija iz cijelog svijeta nudi više od 2100 „pametnih proizvoda“ za upotrebu u Z-Wave mreži koji povećavaju komfor života miliona ljudi u mnogim aspektima njihovog života.


Z-WAVE ELECTRIC CONTROL DEVICES

ZRH12

ZRS24

ZRW7

ZWL1

ELECTRIC POWER SUPPLY ELEMENTS – 15V

ZZ60

ZZ60H

ELECTRIC CONTROL ELEMENTS – 230V

ZKP

ZKN

STRANA 38 ORIGINALA

Z-WAVE ELEKTRIČNI UREĐAJI ZA UPRAVLJANJE

ZRH12

Daljinski upravljač ZRH12 za upravljanje većim brojem proizvoda pojedinačno ili istovremeno u 12 grupa. Koristi se za upravljanje Z-Wave prozorom, aktuatorima ZWS230 i ZWS12 za otvaranje prozora, spoljnom roletnom ARZ Z-Wave, spoljnom tendom AMZ Z-Wave, unutrašnjom roletnom za zamračenje ARF Z-Wave, unutrašnjom roletnom ARP Z-Wave i venecijanerom AJP Z-Wave.

ZRS24

Višefunkcionalni daljinski upravljač koji omogućava upravljanje uređajima u Z-Wave mreži pojedinačno, u grupama i scenama, uključujući Z-Wave prozor, aktuatore ZWS230 i ZWS12 za otvaranje prozora, spoljnu roletnu ARZ Z-Wave, spoljnu tendu AMZ Z-Wave, unutrašnju roletnu za zamračenje ARF Z-Wave, unutrašnju roletnu ARP Z-Wave i venecijaner AJP Z-Wave.

ZRW7

Zidna tastatura ZRW7 za upravljanje većim brojem proizvoda pojedinačno ili istovremeno u 7 grupa. Koristi se za upravljanje Z-Wave prozorom, aktuatorima ZWS230 i ZWS12 za otvaranje prozora, spoljnom roletnom ARZ Z-Wave, spoljnom tendom AMZ Z-Wave, unutrašnjom roletnom za zamračenje ARF Z-Wave, unutrašnjom roletnom ARP Z-Wave i venecijanerom AJP Z-Wave.

ZWL1

Z-Wave radio kontroler koji se koristi za daljinsko upravljanje jednim Z-Wave uređajem ili grupom uređaja, uključujući Z-Wave prozor, aktuatore ZWS230 i ZWS12 za otvaranje prozora, spoljnu roletnu ARZ Z-Wave, spoljnu tendu AMZ Z-Wave, unutrašnju roletnu za zamračenje ARF Z-Wave, unutrašnju roletnu ARP Z-Wave i venecijaner AJP Z-Wave. Dostupan je i kao ZWL 2 – dvostruki kontroler i ZWL3 – trostruki kontroler.

ELEKTRIČNI ELEMENTI ZA NAPAJANJE – 15V

ZZ60

Impulsna jedinica za napajanje 15V DC za napajanje Z-Wave uređaja. Izlazna snaga 60W. Ugrađuje se na DIN TS35 šinu. Maksimalan broj uređaja povezanih na jedinicu za napajanje ZZ60: ARZ Z-Wave (2 kom.), AMZ Z-Wave (2 kom.), ARF Z-Wave (6 kom.), ARP Z-Wave (6 kom.), AJP Z-Wave (6 kom.), ZWS12 (5 kom.).

ZZ60H

Hermetička impulsna jedinica za napajanje 15V DC za napajanje Z-Wave uređaja. Izlazna snaga 60W. Ugrađuje se van razvodne table. Maksimalan broj uređaja povezanih na jedinicu za napajanje ZZ60: ARZ Z-Wave (2 kom.), AMZ Z-Wave (2 kom.), ARF Z-Wave (6 kom.), ARP Z-Wave (6 kom.), AJP Z-Wave (6 kom.), ZWS12 (5 kom.).

ELEKTRIČNI ELEMENTI ZA UPRAVLJANJE – 230V

ZKP

Pojedinačni podžbukni zidni prekidač sa rezervnom funkcijom (backup) za upravljanje jednim uređajem, kao što je AMZ Electro 230.

ZKN

Pojedinačni nadžbukni zidni prekidač sa rezervnom funkcijom (backup) za upravljanje jednim uređajem, kao što je AMZ Electro 230.



STRANA 39 ORIGINALA

BEŽIČNO UPRAVLJANJE WIFI

Tehnologija µWiFi je rješenje namijenjeno prenosu podataka u zahtjevnom okruženju. Odlikuju je otpornost na smetnje, velika propusnost i mogućnost povezivanja uređaja na postojeće infrastrukturne mreže zasnovane na standardnim WiFi pristupnim tačkama (očuvana je povratna kompatibilnost sa WiFi standardom).

Tehnologija µWiFi omogućava povezivanje sa svim uređajima direktno i putem postojeće WiFi mreže (npr. u privatnim kućama, preduzećima). Pored toga, cloud arhitektura koju obezbjeđuje Blebox.eu omogućava korisniku da upravlja uređajima sa bilo kog mjesta na svijetu putem interneta – potrebna je samo WiFi mreža sa pristupom internetu na koju su moduli povezani.

PREDNOSTI:

- WiFi sistem je jednostavan za ugradnju, proširivanje i upravljanje. Može se koristiti u bilo kojoj fazi eksploatacije objekta. Dodatna prednost je mogućnost daljinskog pristupa uređajima preko rutera.
- Ugradnja sistema ne zahtijeva upotrebu nikakvih komandnih panela niti povezivanje kablovima između električnih uređaja, što očigledno smanjuje troškove i vrijeme ugradnje i obezbjeđuje maksimalan komfor pri radu sa sistemom. Svim uređajima u WiFi sistemu upravlja se putem pametnog telefona. Aplikacija koju obezbjeđuje proizvođač omogućava korisniku da kreira scene i rasporede.
- Rad sistema zasniva se na tome da upravljački uređaj, npr. pametni telefon, šalje signal ruteru, koji zatim distribuira signale pojedinačnim uređajima. Kvar jednog uređaja ne utiče na rad ostalih uređaja. Svi funkcionalni uređaji i dalje su dostupni daljinski i lokalno.

WiFi pribor radi sa servisom Google Assistant, što znači da se njime može upravljati glasom putem aplikacije. Aplikacija Google Assistant omogućava kreiranje virtuelnog uređaja Google Home i upravljanje FAKRO proizvodima u WiFi verziji pomoću aplikacije wBox.

WiFi proizvodi rade sa servisom Google Assistant, a zahvaljujući aplikaciji Google Home korisnik može upravljati uređajima pomoću asistenta kao što je zvučnik Google Home. Google Home omogućava kreiranje pametnog doma povezivanjem uređaja mnogih proizvođača, uključujući FAKRO WiFi, pomoću aplikacije wBox. Ta aplikacija omogućava korisniku da upravlja FAKRO WiFi proizvodima sa bilo kog mjesta na svijetu.



STRANA 40 ORIGINALA

ZST ZSZ

FAKRO nudi produžive šipke za upravljanje za otvaranje i zatvaranje krovnih prozora i zastora koji mogu biti van dohvata.

ŠIPKE ZA UPRAVLJANJE KROVNIM PROZORIMA I PRIBOROM

ŠIPKA ZA UPRAVLJANJE ZST

Univerzalna teleskopska šipka za upravljanje ZST omogućava korisniku da otvara i zatvara prozore i zastore postavljene na visini. Može se koristiti sa zastorima ARS, ARP, ARF, APS, APF i AJP i sa mrežom protiv insekata AMS. Standardna dužina šipke je 119 cm, ali se može produžiti na 134, 162, 190 ili 218 cm. Nastavak ZSP omogućava dodatno produženje na 246, 274, 302 ili 330 cm.

ŠIPKA ZSZ

ZSZ je aluminijumska šipka okruglog oblika za otvaranje i zatvaranje visoko ugrađene tende AMZ, koja se isporučuje sa šipkom od 80 cm. Standardna dužina šipke ZSZ je 150 cm.

STRANA 41 ORIGINALA

IZBOR PRIBORA

Da biste izabrali pravu veličinu i vrstu pribora, prvo morate znati tip krovnog prozora i njegove dimenzije. Oni se nalaze na natpisnoj pločici koja je postavljena na krilu prozora.

Pribor FAKRO dostupan je putem:

- FAKRO prodajne mreže krovnih prozora
- Namjenskih internet prodavnica
- Najboljih prodavnica koje nude pribor za prozore

Upotreba originalnog FAKRO pribora iz ovog kataloga pomaže da se zadrži **10-godišnja garancija** na vaše krovne prozore.

Napomena: uzorci boja u ovom katalogu mogu se razlikovati od stvarne tkanine.
Za detalje se obratite svom FAKRO predstavniku.

tip i dimenzije

FAKRO nudi širok izbor spoljnih tendi i pribora prilagođenih različitim izvedbama krovnih prozora. Spoljna tenda i unutrašnji pribor ugrađeni na istom FAKRO krovnom prozoru čine komplet pribora koji obezbjeđuje maksimalan komfor života u potkrovlju. Štite prostoriju od prekomjerne toplote i svjetlosti, a dodatno oplemenjuju enterijer.

UNUTRAŠNJI PRIBOR

	FTS, FTP, FTU	FTT U5*, FPT U5*	FTT U6, FTT U8 Thermo	PTP, PTP-V	FPP-V, FPU-V preSelect	PPP-V preSelect	FEP	FY P-V	PY P-V	FDY-V gornje krilo	FDY-V donje krilo	FGH-V gornje krilo	FGH-V donje krilo	BD_, BVP, BXP	FTP/D, FTU/D	FXP, FXU	FWR FWL	FWP
AJP venecijaner	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+ (3)	+
AJP Z-Wave venecijaner	+	+	—	+	+	+	+	+	+	+	—	+	—	—	+	—	+ (3)	+
ARS roletna	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
ARP roletna	+	+	+	+	+	+	+	+	+	+	+	—	+	+	+	+	+ (3)	+
ARP Z-Wave, ARP WiFi roletna	+	+	—	+	+	+	+	+	+	+	—	—	—	—	+	—	+ (3)	+

PREVOD NA CRNOGORSKI JEZIK (NESLUŽBENI)
Ovo nije originalni dokument proizvođača. Mjerodavan je original, priložen iza prevoda: fakro-catalogue-roof-windows-accessories-en.pdf.

	FTS, FTP, FTU	FTT U5*, FPT U5*	FTT U6, FTT U8 Thermo	PTP, PTP-V	FPP-V, FPU-V preSelect	PPP-V preSelect	FEP	FYP-V	PYP-V	FDY-V gornje krilo	FDY-V donje krilo	FGH-V gornje krilo	FGH-V donje krilo	BD_, BVP, BXP	FTP/D, FTU/D	FXP, FXU	FWR FWL	FWP
ARF roletna za zamračenje	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+ (3)	+
ARF SOLAR roletna za zamračenje	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+ (3)	+
ARF Z-Wave, ARF WiFi roletna za zamračenje	+	+	—	+	+	+	+	+	+	+	—	+	—	—	+	—	+ (3)	+
APS plisirana zavjesa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+ (3)	+
APF plisirana zavjesa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+ (3)	+
AMS mreža protiv insekata	+	+	+	+	+	+	+	+	+	+ (1)	+ (1)	—	—	—	+ (1)	+ (1)	+	+

SPOLJNI PRIBOR

	FTS, FTP, FTU	FTT U5*, FPT U5*	FTT U6, FTT U8 Thermo	PTP, PTP-V	FPP-V, FPU-V preSelect	PPP-V preSelect	FEP	FYP-V	PYP-V	FDY-V gornje krilo	FDY-V donje krilo	FGH-V gornje krilo	FGH-V donje krilo	BD_, BVP, BXP	FTP/D, FTU/D	FXP, FXU	FWR FWL	FWP
AMZ, AMZ New Line spoljna tenda	+	+	+	+	+	+	—	+	+	+	+ (4)	+	+ (4)	—	+	+ (4)	—	—
AMZ Z-Wave, AMZ Solar, AMZ WiFi spoljna tenda	+	+	+	+	+	+	—	+	+	+ (4)	+ (4)	+ (4)	+ (4)	—	+	+ (4)	+ (3,4,5)	+ (3,4,5)
AME spoljna tenda	—	—	—	—	—	—	+	—	—	—	—	—	—	—	—	—	—	—
AMB spoljna tenda	—	—	—	—	—	—	—	—	—	—	—	—	—	+	—	—	—	—
ARZ-H spoljna roletna	+	—	—	—	+	—	—	+ (4)	—	+ (4)	—	+ (4)	—	—	+ (2)	—	—	—
ARZ Z-Wave, ARZ Solar, ARZ WiFi spoljna roletna	+	+	+	+	+	+	—	+ (4)	+ (4)	+ (4)	+ (4)	+ (4)	—	—	+ (2)	+ (4)	—	—
ARK Z-Wave, ARK Solar spoljna roletna	—	—	—	—	—	—	+	—	—	—	—	—	—	—	—	—	—	—

* – unutrašnji pribor izrađen po narudžbi, standardni spoljni pribor
(1) – za oblogu za kombinaciju dužine do 230 cm
(2) – uz zadržavanje razmaka od 20 cm između prozora
(3) – ugradnju na prozore za evakuaciju sa bočnim otvaranjem preporučuje se povjeriti FAKRO servisu
(4) – izrađuje se po posebnoj narudžbi, ograničena primjena
(5) – dostupno samo u verziji Solar



STRANA 44 ORIGINALA

www.fakro.com

FAKRO zadržava pravo izmjene specifikacija u bilo kom trenutku.

FA/44-/EN/12.04.2021/D043

ROOF WINDOW
ACCESSORIES



Wide range
of sun shading and decorative roof window accessories

30 YEARS
HOME SOLUTIONS

FAKRO®

WHY USE ROOF WINDOW ACCESSORIES?







PROTECTION AGAINST EXCESSIVE HEAT GAIN INSIDE

External accessories (awning blinds and roller shutters) are the best means of defense against bothersome heat as they effectively protect the room from overheating on hot summer days.



INTERIOR DESIGN

Internal accessories can put the finishing touches on any loft conversion.
The wide range of types, styles and colours ensures complete harmony with your chosen décor and helps shape a room's character.



CONTROL OF LIGHT

Accessories regulate the amount and intensity of light entering the room. At one extreme, you can have total darkness, even on a sunny day while at the other you can simply use a blind to prevent light reflection on computer and TV screens.



PROTECTION AGAINST UV RADIATION

Accessories protect against UV rays penetration inside, preventing the room furnishings from fading or yellowing.



PROTECTION OF PRIVACY

FAKRO roof window accessories protect your house interior against viewers and ensure a feeling of privacy.



EASE OF INSTALLATION

All FAKRO accessories are designed for total ease of installation with our windows, something which is not always the case with blinds from some sources. Internal accessories come with a 2-year warranty and combine the highest standard of functionality and design.



EASE OF USE

Our internal and external accessories are characterized by their ease of use. The FAKRO range also includes electrically operated accessories which are equipped with a Z-Wave module for comfortable control via a remote or wall switch.

PROTECT YOURSELF FROM HEAT GAIN...

WHICH ACCESSORIES PROVIDE THE BEST PROTECTION FROM OVERHEATING?

DIN 5034-1 covers the required levels of natural light which should be provided to interiors. It says that rooms should be protected from overheating through the use of external accessories (awning or shutter blinds) as they provide better protection than internal blinds.

HOW DOES IT LOOK IN PRACTICE?

FAKRO continually analyses all accessories for their efficiency of protection against heat gain in order to improve their performance and enhance user comfort. We have built eight identical room environments to enable us to carry out tests in relation to solar and UV exposure and equipped them with the same roof windows and different accessories. Windows have been closed during the research and the temperature was constantly measured one metre above the floor at different points and these test results are reflected in the graph below.

Fig. 1

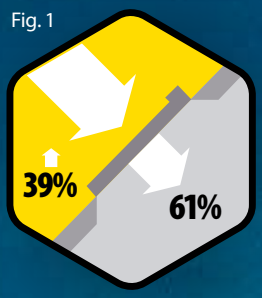


Fig. 2

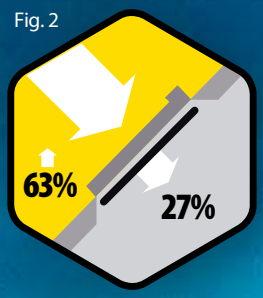
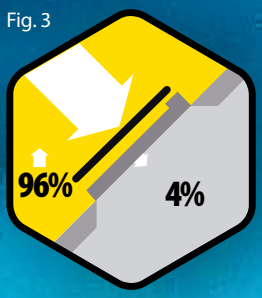


Fig. 3



Solar radiation coefficient 'g' informs about the amount of solar energy reaching the glass which penetrates into the room. The higher value of 'g' coefficient, the room heats up faster. The external awning blind offers up to 8 times more effective protection in comparison with internal blackout blinds.

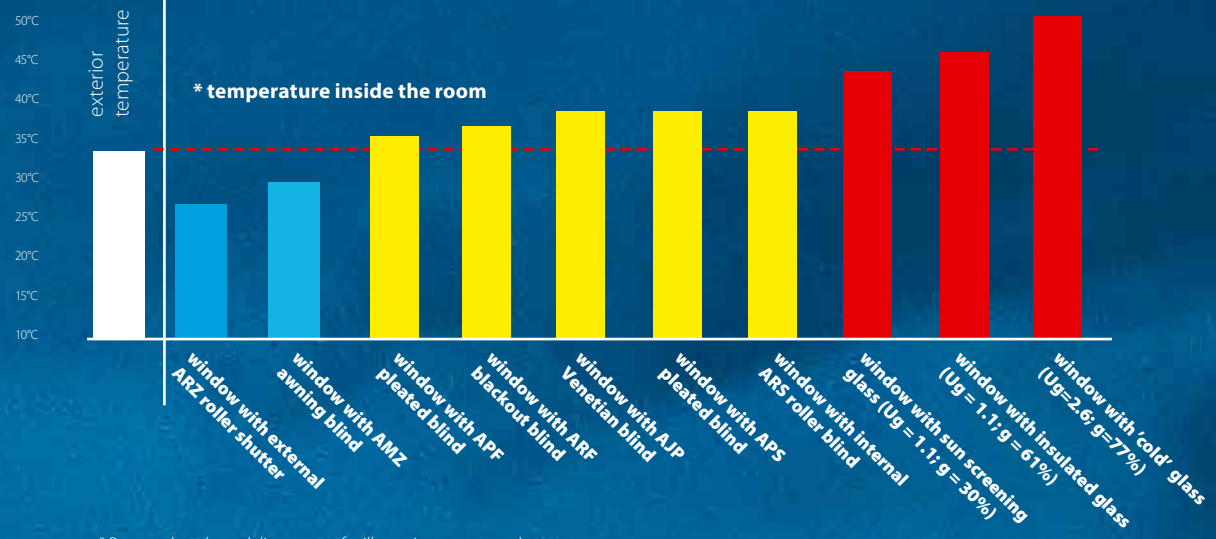
8 times more effective

Documented research* clearly shows that external accessories (awning blinds and roller shutters) protect against heat gain. Awning blinds provide the best means of protection as well as being the most cost-effective and practical. Internal blinds can also be used but are generally less effective, their main benefits being light reduction and internal decoration.

Solar energy transmittance:
Figure 1: Window without blinds g = 61% (0.61) as per EN 410
Figure 2: Window with internal blackout blind g = 37% (0.37) as per EN 13363-1
Figure 3: Window with awning blind (depending on the fabric used) g = 4-14% (0.04 – 0.14) as per EN 13363-1

MAXIMUM TEMPERATURE

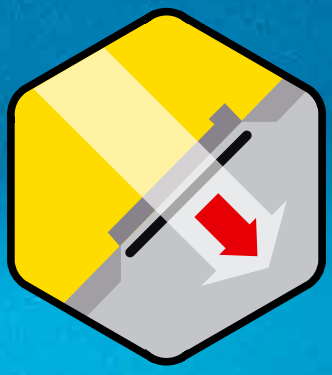
in the attic space on a hot summer day, depending on the type of installed protection accessories.



** Presented results and diagram are for illustrative purposes only - they relate to specific weather conditions during the test.*

„...constructional measures are necessary to prevent discomfort caused by the sun*, such as excessive heating of the indoor air, especially during warm seasons, or the presence of glare [...]. Suitable movable systems include external Venetian blinds, shutters or awnings." - ***DIN 5034-1***

**FAKRO internal tests*

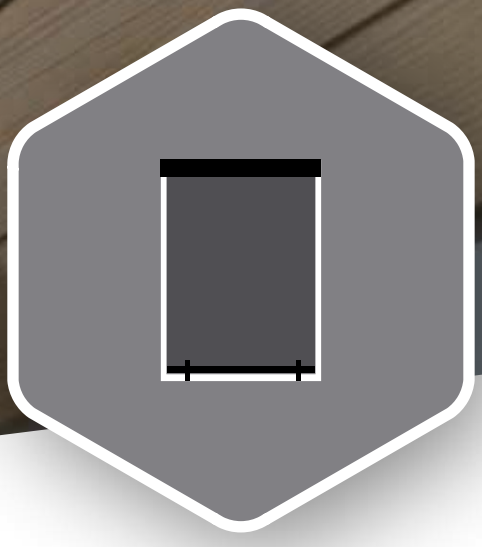


Thermal radiation which passes through the window pane is absorbed by an internal blind so the heat radiates to the interior in the form of long wave infrared radiation which is not transmitted through the glass back to the outside.
The blind acts as a radiator causing overheating, particularly on south-facing roofs.

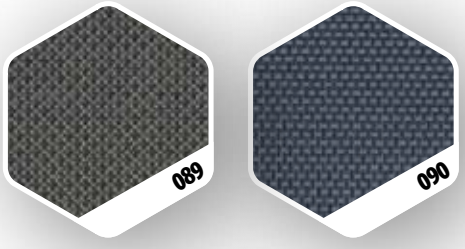


External accessories offer the best protection from high temperatures as they absorb solar radiation before it reaches the glazing as well as significantly reduce heat flow and keep warm outside.

AWNING
BLINDS
AMZ



AMZ
I PRICE GROUP



fabric with **10% relative open area**

AMZ
II PRICE GROUP



fabric with **1% relative open area**

TAKE A REST IN THE SHADE...

The awning blind offers the best means of protection against overheating while at the same time providing unrestricted views. It absorbs solar radiation before it reaches the glazing and reflects heat effectively, even on the sunniest days. It also provides relief for the eyes and protection from the harmful effects of intense, reflected light.

AMZ **Z-Wave**
AMZ **WiFi**
AMZ **Solar**
AMZ **Electro**
AMB

8 times more effective

The AMZ awning blind is made of durable, weather-resistant mesh. It is rolled up on a spring-loaded shaft and inserted in an aluminium cassette mounted above the window. This design stands behind ease of operation and provides a wider fabric area to shade the interior more effectively.

FEATURES:

- Up to 8 times more effective protection against overheating compared to internal blinds.
- Effective shading without restricting views to the outside.
- Ease of operation as the window can be covered for long periods without the need to roll the blind up.
- Protection against UV radiation.
- Reduced noise from rain and hail when rolled down.
- Optimum protection against heat gain.
- Ease of installation as the blind is mounted from the inside of the roof (by simply unscrewing four screws, fitting the blind and then reusing the same holes).

CONTROL:

- The AMZ blind is operated by hand or by using the control rod provided.

AMZ



AMZ NEW LINE



AMZ Z-WAVE



- Ease of operation by hand-held remote or wall switch in wireless Z-Wave system.
- Powered by 15V DC mains supply.
- Fully compatible with other Z-Wave devices and appliances including the FTP-V Z-Wave roof window.

CONTROL:

- Operated via a remote control or wall switch.

AMZ WIFI



- Easy operation via wBox app.
- Powered by 15V DC mains supply.
- Compatible with other devices operating in µWiFi technology.

CONTROL:

- Operated using smartphone.

AMZ SOLAR



- Comfortable and automatic operation of the blind (intelligent system controls the blind depending on the insolation level). High levels trigger the blind to unroll automatically, while in cloudy weather it rolls back up.
- Powered by solar battery pack.

CONTROL:

- Automatically operated or via a remote control.

AMZ ELECTRO



- AMZ Electro 230 - mains connection.
- AMZ Electro 24 - 24V DC control unit.

CONTROL:

- Operated via a wall switch.

The Solar type awning blinds should be fitted in places with the solar panel positioned to direct sun exposure. It is recommended to install awnings on south, east and west-facing roofs. Installation in the north side may result in battery discharge and the inability to operate the blind.

ROLLER SHUTTERS

ARZ



DISCOVER AN OASIS...

External roller shutter provides total comfort when using the attic space because it protects from overheating, enables complete shading of the room, reduces noise from the outside and ensures a sense of privacy in the attic.



The material samples printed may differ in colour from the actual product.

ARZ-H
ARZ **Z-Wave**
ARZ **WiFi**
ARZ **Solar**
ARZ **Electro**

As roller shutters are fitted outside they provide effective protection from undesired heat gain. Aluminium slats are joined by means of a special rubber connector to increase weather resistance.

FEATURES:

- Effective protection against burdensome heat.
- Reduction of heat loss during winter by up to 15% (for a window with a U-value of 1.3W/m^{2}K).
- Complete blackout for total privacy.
- Protection against UV radiation.
- Acoustic protection against external noise.
- Protection against break-in attempts.

When installing roller shutters on windows in vertical combinations a minimum 20 cm must be maintained between windows, while in horizontal combinations this distance may be reduced to 10 cm.

ARZ-H



CONTROL:

- The **ARZ-H** is operated by means of crank handle supplied.

ARZ Z-WAVE



CONTROL:

- The **ARZ** in wireless **Z-Wave** system is operated by wall switch or remote and powered by 15V DC supply.

ARZ WIFI



CONTROL:

- The **ARZ** in wireless **WiFi** system is operated using smartphone and powered by 15V DC supply.

ARZ SOLAR



CONTROL:

- The **ARZ Solar** is operated by means of a remote control. The Solar roller shutter is equipped with a control unit and accumulator which are powered by a solar cell on the shutter. Recommended in places where it is not possible to run power supply.

ARZ ELECTRO



CONTROL:

- **ARZ Electro 230** - mains connection,
- **ARZ Electro 24** - 24V DC control unit.

The **ARZ Electro** roller shutters are operated by means of a wall switch.

The Solar type roller shutters should be fitted in places with the solar panel positioned to direct sun exposure. It is recommended to install shutters on south, east and west-facing roofs. Installation in the north side may result in battery discharge and the inability to operate the shutter.

VENETIAN
BLINDS
AJP



LIGHT CONTROL IN YOUR HANDS...

The AJP Venetian blind is a popular roof window accessory which can control the amount of light and heat entering the room. The angle of slats can be changed in the traditional way to vary the amount of light and let us enjoy remarkable effect created within the room.

AJP **Z-Wave**

The AJP Venetian blind protects against overheating and can be used to enhance interior design. The blind is enclosed by an aluminium cassette which protects against light infiltration down the sides.
The window sash can also be turned with the blind down.

FEATURES:

- Adjustment of slats to change the amount and direction of light entering the room.
- Enhanced interior design.
- Partial reduction of heat gain in the room.
- The blind can be locked in any position.
- Protection against UV radiation.
- Provision of privacy without significant reduction of natural light within the room.

CONTROL:

- The AJP is manually operated. For operation of the blind which is out of reach the universal ZST control rod is available.
- The AJP in wireless Z-Wave system is operated by a wall switch or remote control powered by 15V DC supply.

The electric drive of the AJP Venetian blind in a Z-Wave system controls the angle of slats only when the window is closed.





Side aluminium guide rails enable a complete shading of the room and keep the slats in line.



The AJP Z-Wave Venetian blind is operated by means of a wall switch or remote control.

COLOURS

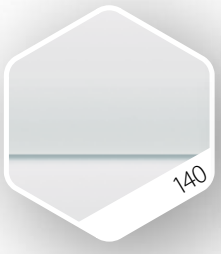
OF VENETIAN BLINDS AJP

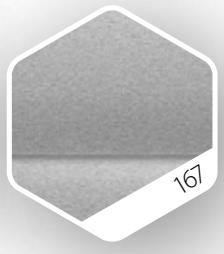






I PRICE GROUP





 The material samples printed can differ in colour from the actual product.

II PRICE GROUP



ROLLER
BLINDS
ARS



LIVE WITH COLOUR...

The standard ARS roller blind is used to reduce light entering the room while offering scope to be used as an intrinsic element of interior design. In addition to reducing incoming light, the wide range of fabric colours and patterns can enhance room decor and style.

ARS

The ARS roller blind is a fabric wound on a spring-loaded shaft. It comes with an attractive aluminium fascia which elegantly conceals the shaft and has three pairs of hooks placed in the sash to enable the blind to be locked in these positions.

FEATURES:

- Variable reduction of incoming light.
- Wide range of colours and patterns to suit varied tastes.
- Partial protection against heat gain.
- Can be locked in three different positions.
- Provision of complete privacy when closed.

CONTROL:

- The ARS is manually operated. For operation of the blind which is out of reach the universal ZST control rod is available.



Aluminium fascia to conceal the shaft of the blind

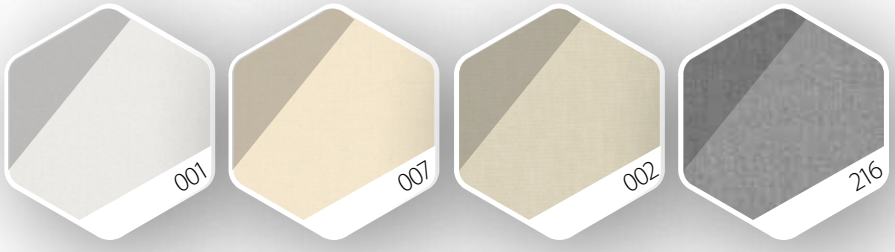


Hook to lock the blind in one of three positions



COLOURS

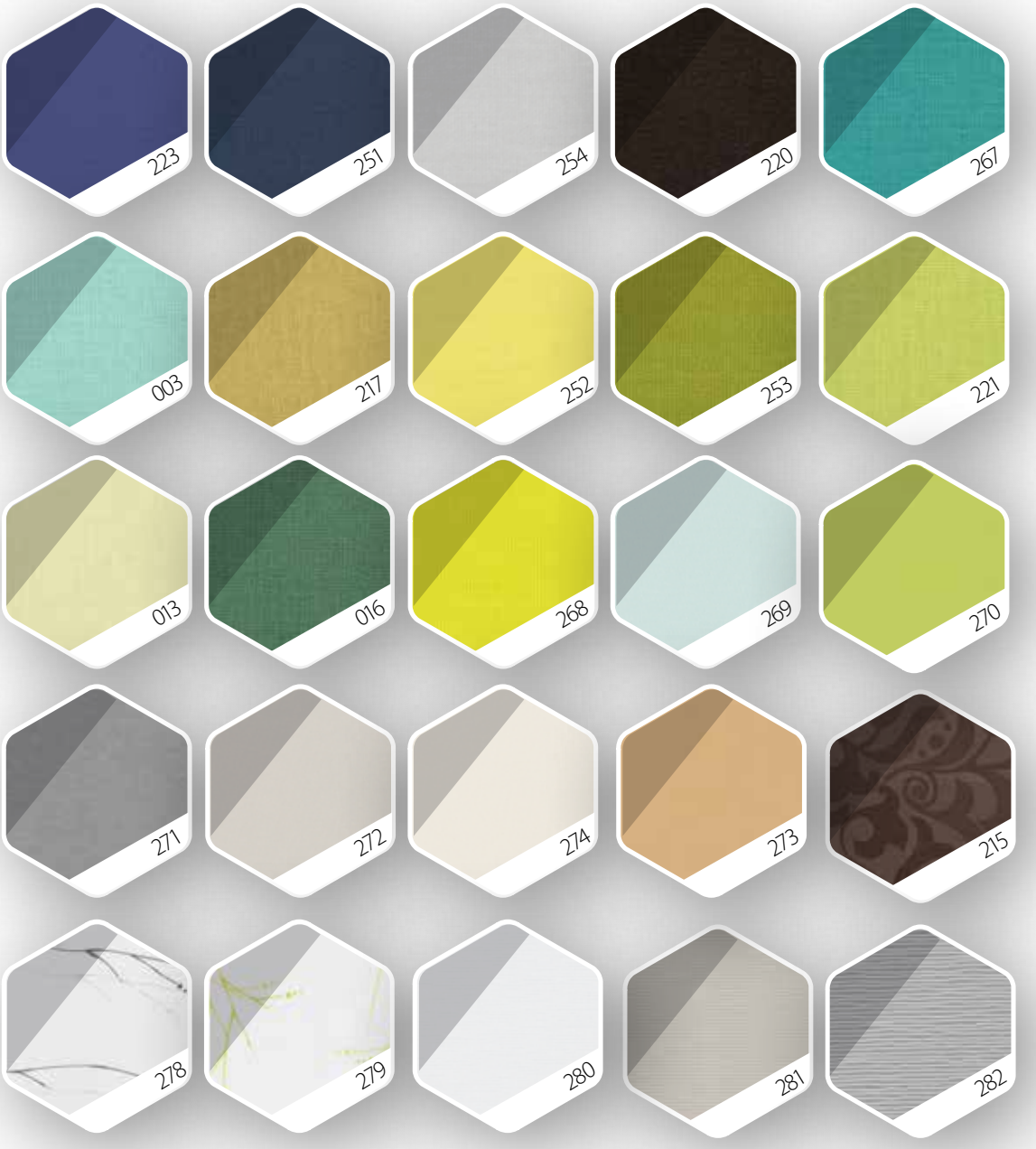
ARS, ARP **I PRICE GROUP**



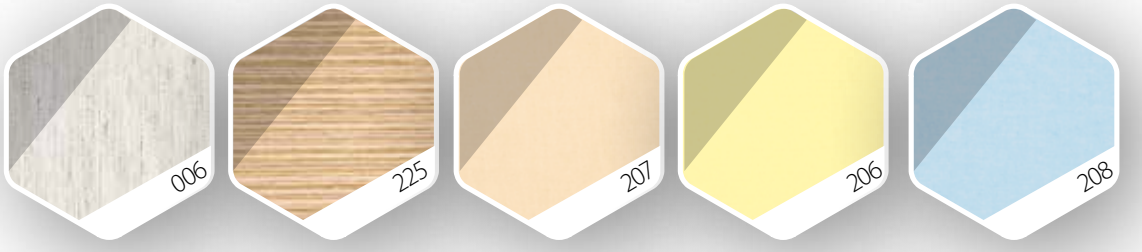
ARS II, ARP **II PRICE GROUP**



The material samples printed can differ in colour from the actual product.



ARS **II PRICE GROUP**





Colour in the shade

Colour in the light

The material samples printed can differ in colour from the actual product.

ROLLER
BLINDS
ARP



DECORATE YOUR INTERIOR ...

The ARP roller blind is used in to reduce light entering the room while offering scope to be used as an intrinsic element of interior design. In addition to reducing intense light, the wide range of fabric colours and patterns can enhance room decor and style.

AUTO

ARP **Z-Wave**
ARP **WiFi**

The wide range of colours and patterns can be used to greatly enhance the aesthetics of any room. Aluminium guide rails cover the fabric edges and enable the blind to be set in any position.

FEATURES:

- Variable reduction of incoming light.
- Wide range of colours and patterns to suit individual tastes.
- Partial protection against heat gain.
- Can be locked in any position thanks to side guide rails.
- Protection against UV radiation.
- Provision of complete privacy.

CONTROL:



- The ARP is manually operated. For operation of the blind which is out of reach the universal ZST control rod is available.
- The ARP in wireless Z-Wave system is operated by means of a wall switch or remote control,15V DC power supply.
- The ARP in wireless µWiFi system is operated using smartphone, 15V DC power supply.

Operating the ARP Z-Wave and ARP WiFi is only possible when the window is closed.

The ARP electric roller blinds are also available in the Electro 24 version upon request - power supply and control from 24V DC control unit.



Aluminium fascia to conceal the shaft of the blind



Side guide rails enable to stop the blind in any position



The ARP Z-Wave blind can be operated by means of a wall switch or remote control

BLACKOUT
BLINDS
ARF



NIGHT BY DAY...

The ARF Sunset provides complete protection against sunlight entering the room space. As a result, you can enjoy a pleasant darkness even on the most sunniest days when you need to take a rest.

NEW

ARF **Z-Wave**
ARF **WiFi**
ARF **Solar**

The ARF blackout blind is made of an elegant and decorative fabric which does not let light through. It comes with side guide rails which allow to stop the blind in any position and ensure shading of the room.

FEATURES:

- Variable reduction of incoming light.
- Partial protection against heat gain.
- Can be locked in any position thanks to side guide rails.
- Reduced heat loss in winter season.
- Protection against UV radiation.
- Provision of complete privacy.
- Easy to clean.

CONTROL:

- The ARF is manually operated. For operation of the blind which is out of reach the universal ZST control rod is available
- The ARF in wireless Z-Wave system is operated by means of a wall switch or remote control, 15V DC power supply.
- The ARF in wireless µWiFi system is operated using smartphone, 15V DC power supply.
- The ARF Solar is operated by means of a remote control.

Operating the ARF Z-Wave and ARF WiFi is only possible when the window is closed.

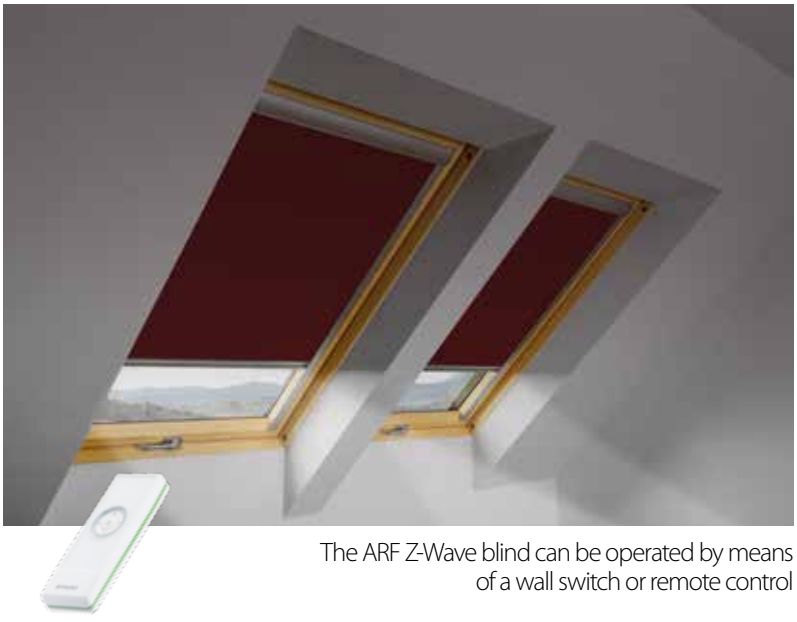
The ARF electric blackout blinds are also available in the Electro 24 version upon request - power supply and control from 24V DC control unit.



Aluminium fascia to conceal the shaft of the blind



Side guide rails enable to stop the blind in any position and ensure shading of the room.



The ARF Z-Wave blind can be operated by means of a wall switch or remote control

COLOURS

OF BLACKOUT BLINDS ARF



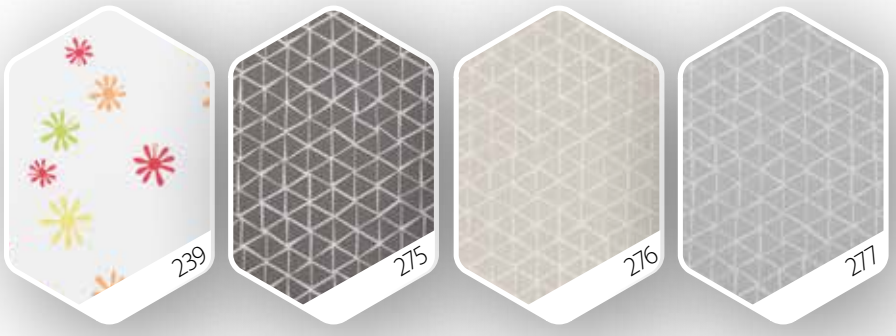
I PRICE GROUP



 The material samples printed can differ in colour from the actual product.

II PRICE GROUP





The material samples printed can differ in colour from the actual product.



BLACKOUT BLINDS

ARF PRINT

WINDOWS IN ANY CLIMATE

The new ARF Print collection is the latest range of blackout blinds that feature unique graphics tu suit different spaces. They are designed for both children's and youth rooms, modern office spaces and romantic interiors

NEW

ARF
PRINT

ABSTRACTION AND 3D THEMES

● Raw and modern interiors can be warmed up with blackout blinds presenting an abstraction of intertwining lines or graphics with 3D themes.



THEMES DEDICATED TO CHILDREN

● Graphics, which will not only decorate children's rooms within the attic space, but also stimulate their imagination.



FLORAL THEMES

● Dedicated to people who value original style and form. Interweaving leaves in shades of green and beige will give a bit of a romantic atmosphere.



GRAPHICS WITH CITY VIEWS

● They add originality and modernity creating a unique character of the room.



PLEATED BLINDS

APS



SURROUND YOURSELF WITH BEAUTY ...

The APS pleated blind is a stylish and decorative sun screening device which can be used to provide a diffused lighting effect and harmony of colours which will enhance any interior design.

APS

Aluminium guide rails are available in two colour versions – lacquered white and anodised silver.

FEATURES:

- Provision of soft, diffused light and harmony of colours.
- Variable reduction of incoming light.
- Partial protection against heat gain.
- Can be locked in any position thanks to side guide rails.
- Top-down system - easy operation by means of an upper and lower bar.
- Protection against UV radiation.
- Provision of complete privacy.

CONTROL:

- The APS blind is manually operated. For operation of the blind which is out of reach the universal ZST control rod is available.



Aluminium guide rails enable to stop the blind in any position



Convenient finger grip to operate the blind



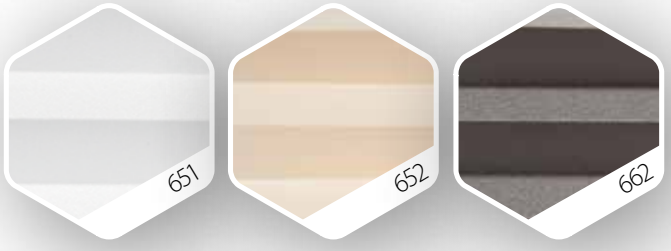
Top-down system - easy operation by means of the upper and lower bar

COLOURS

OF PLEATED BLINDS APS



I PRICE GROUP



 The material samples printed can differ in colour from the actual product.

II PRICE GROUP







Colour in the shade

Colour in the light

The material samples printed can differ in colour from the actual product.

PLEATED
BLINDS

APF



INNOVATIVE BEAUTY...

The APF pleated blind is an ideal sun screening device for use with contemporary interiors. Its fabric has a honeycomb structure and an aluminium coating which provides blackout and good thermal performance.

APF

Aluminium guide rails are available in two colour versions – lacquered white and anodised silver.

FEATURES:

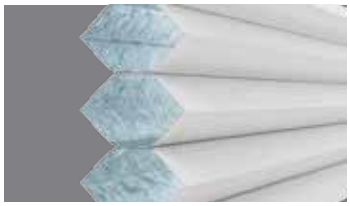
- Variable reduction of incoming light.
- Partial protection against heat gain.
- Can be locked in any position thanks to side guide rails.
- Top-down system - easy operation by means of an upper and lower bar.
- Protection against UV radiation.
- Provision of complete privacy.

CONTROL:

- The APF blind is manually operated. For operation of the blind which is out of reach the universal ZST control rod is available.



Aluminium guide rails enable to stop the blind in any position



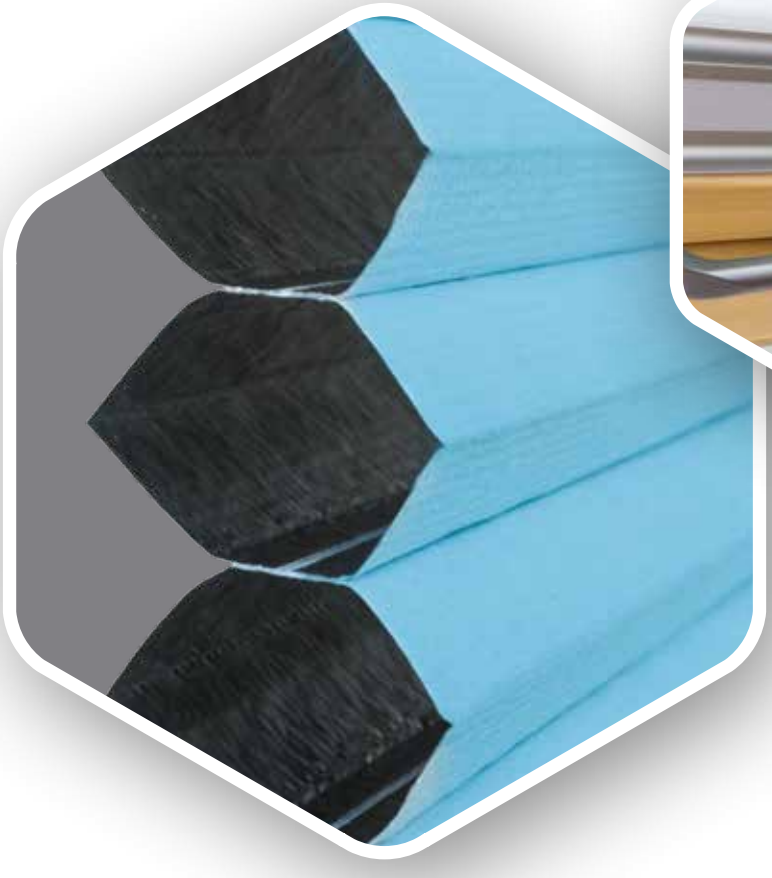
Fabric with the structure resembling honey-comb and internal aluminium coating



Top-down system - easy operation by means of the upper and lower bar

COLOURS

OF PLEATED BLINDS APF





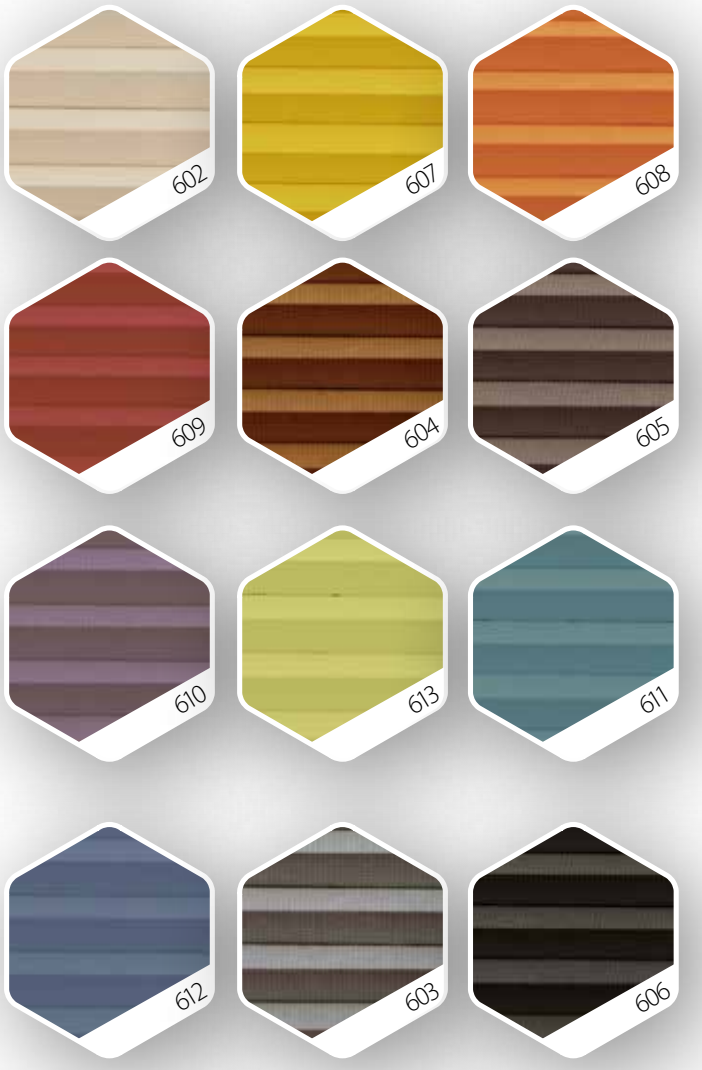


The material samples printed can differ in colour from the actual product.

I PRICE GROUP



II PRICE GROUP

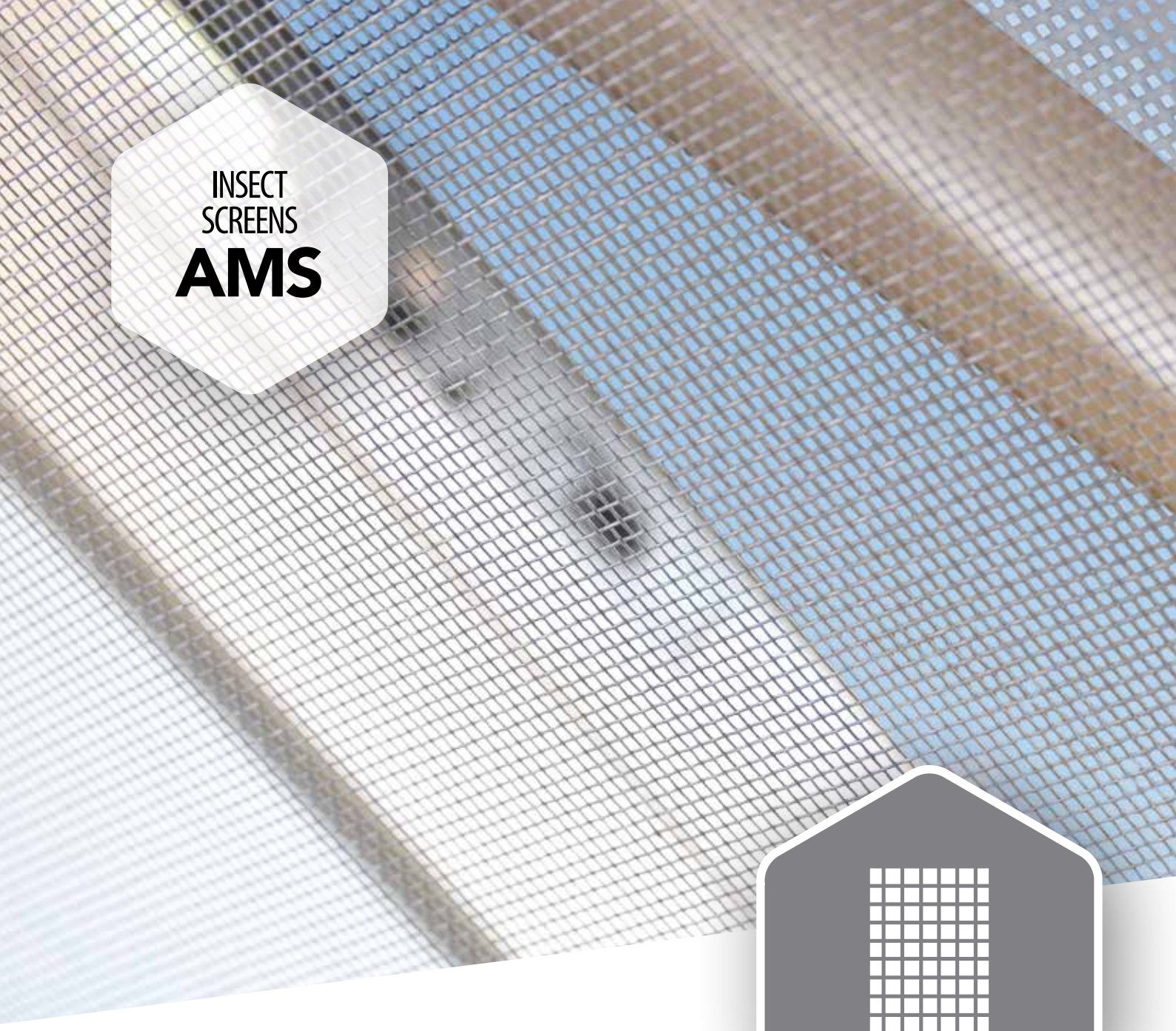




Colour in the shade

Colour in the light

The material samples printed can differ in colour from the actual product.



INSECT SCREENS

AMS

UNDISTURBED TRANQUILITY...

The AMS roll-up insect screen protects the room from the smallest insects so your rest won't be disturbed even if your roof windows are open.

AMS

The AMS insect screen is the only FAKRO roof window accessory that is mounted onto the lining, not the window. It is made of mesh-coated PVC and has aluminium guide rails which are available in two colour versions – lacquered white and anodised silver.

FEATURES:

- Effective protection against mosquitoes and other insects.
- Minimum reduction of natural light.
- Can be installed with other internal and external blinds and awnings.

CONTROL:

- The AMS insect screen is manually operated. For operation of the screen which is out of reach the universal ZST control rod is available.

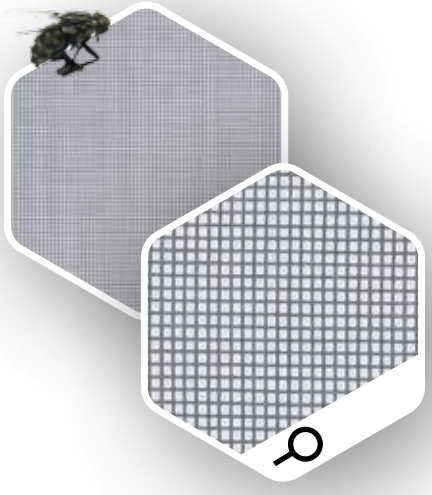




Insect screen structure ensures full protection against insects

INSECT SCREEN DIMENSIONS

WINDOW WIDTH [CM]	55	55	66	66	78	78	94	94	114	114	134	134
INTERNAL LINING WIDTH [CM] WOODEN AND PVC WINDOWS (2006-2020)	48,5	48,5	59,5	59,5	71,5	71,5	87,5	87,5	107,5	107,5	127,5	127,5
INTERNAL LINING WIDTH [CM] PVC WINDOWS (2ND QUARTER 2020 - TILL PRESENT)	49,5	49,5	60,5	60,5	72,5	72,5	88,5	87,5	108,5	108,5	128,5	128,5
MAX. LINING INTERNAL HEIGHT [CM]	170	200	200	240	200	240	200	240	200	240	200	240





WIRELESS
CONTROL

Z-WAVE



WITHIN YOUR REACH...

The Z-Wave is a communication technology that is specially designed to allow the control and monitoring of both residential and commercial buildings. The Z-Wave technology provides the highest level of quality and safety available in the field of wireless technology. The Z-Wave system is easy to install, develop and manage at all stages of the building process. As the system does not require the use of an electrical switchboard or communication cables between the electric products, the cost of fitting is greatly reduced both in terms of the time taken to fit, and the amount of materials required to complete the installation.

FAKRO smartHome



FAKRO products equipped with the **Z-Wave** module are integrated into an advanced technological solution of FAKRO smartHome system and can be operated locally via a remote control.



FAKRO products equipped with the **Z-Wave** module work in conjunction with FIBARO devices. Using the FIBARO Home Center 2 Control Unit the user can create a smart home that can be controlled by means of a smartphone from any place in the world.

The FAKRO smartHome system (FSH) can be integrated with products offered by other manufacturers within one application. Other devices equipped with the Z-Wave module such as lighting, heating or different types of sensors such as wind, rain, smoke, smog or carbon monoxide can also be added to the FSH System. As many as 600 companies form around the world offer more than 2100 "smart products" for use within the Z-Wave network that enhance the comfort of living for millions of people in many aspects of their lives.

WORKS WITH FIBARO®



Z-WAVE ELECTRIC CONTROL DEVICES



ZRH12

The ZRH12 remote control to operate many products separately or simultaneously in 12 groups. It is used to control the Z-Wave window, ZWS230 and ZWS12 actuators for opening windows, ARZ Z-Wave external roller shutter, AMZ Z-Wave awning blind, ARF Z-Wave internal blackout blind, ARP Z-Wave internal roller blind, AJP Z-Wave Venetian blind.



ZRS24

A multi-functional remote control that allows operation of devices in the Z-Wave network individually, in groups and scenes, including the Z-Wave window, ZWS230 and ZWS12 actuators for opening windows, ARZ Z-Wave external roller shutter, AMZ Z-Wave awning blind, ARF Z-Wave internal blackout blind, ARP Z-Wave internal roller blind, AJP Z-Wave Venetian blind.



ZRW7

The ZRW7 wall keypad to operate many products separately or simultaneously in 7 groups. It is used to control the Z-Wave window, ZWS230 and ZWS12 actuators for opening windows, ARZ Z-Wave external roller shutter, AMZ Z-Wave awning blind, ARF Z-Wave internal blackout blind, ARP Z-Wave internal roller blind, AJP Z-Wave Venetian blind.



ZWL1

The Z-Wave radio controller used for the remote control of a single Z-Wave device or a group of devices, including the Z-Wave window, ZWS230 and ZWS12 actuators for opening windows, ARZ Z-Wave external roller shutter, AMZ Z-Wave awning blind, ARF Z-Wave internal blackout blind, ARP Z-Wave internal roller blind, AJP Z-Wave Venetian blind. It also comes as ZWL 2 - double controller and ZWL3 - triple controller.

ELECTRIC POWER SUPPLY ELEMENTS – 15V



ZZ60

The 15V DC switched-mode power supply to power Z-Wave devices. Output power of 60W. To be installed on DIN TS35 rail. A maximum number of devices connected to the ZZ60 power unit: ARZ Z-Wave (2 items), AMZ Z-Wave (2 items), ARF Z-Wave (6 items), ARP Z-Wave (6 items), AJP Z-Wave (6 items), ZWS12 (5 items).



ZZ60H

The 15V DC hermetic switched-mode power supply to power Z-Wave devices. Output power of 60W. To be installed outside the distribution board. A maximum number of devices connected to the ZZ60 power unit: ARZ Z-Wave (2 items), AMZ Z-Wave (2 items), ARF Z-Wave (6 items), ARP Z-Wave (6 items), AJP Z-Wave (6 items), ZWS12 (5 items).

ELECTRIC CONTROL ELEMENTS – 230V



ZKP

A single flush-mounted wall switch with backup to control a single device such as the AMZ Electro 230.



ZKN

A single surface-mounted wall switch with backup to control a single device such as the AMZ Electro 230.



WIRELESS CONTROL WIFI

The µWiFi technology is a solution dedicated to the data transmission in harsh environment. It is characterized by resistance to interference, high throughput and the ability to connect devices to existing infrastructure networks based on standard WiFi Access Points (backward compatibility with WiFi standard has been preserved).

The µWiFi technology allows for connections with all devices directly and using the existing WiFi network (eg. private homes, businesses). In addition, the cloud architecture provided by Blebox.eu enables the user to control devices from anywhere in the world via the Internet - only a WiFi network with Internet access is required to which the modules are included.

ADVANTAGES:

- The WiFi system is easy to install, expand and manage. It can be used at any stage of the building's operation. An additional benefit is the ability to obtain a remote access to devices via a router.
- Installation of the system does not require the use of any control panels or connecting cables between electrical devices, which clearly cuts down costs and installation time and ensures maximum comfort of operating the system. All devices in the WiFi system are operated via a smartphone. The application provided by the manufacturer enables the user to create scenes and schedules.
- Operation of the system consists in the fact that a control device, eg smartphone sends a signal to the router which then distributes signals to individual devices. Failure of one device does not affect the operation of other devices. All functional devices are still available remotely and locally.

WiFi accessories work with Google Assistant, which means that they can be controlled by voice using the app. The Google Assistant application allows to create a virtual Google Home and manage FAKRO products in the WiFi version using the wBox app.

WiFi products work with Google Assistant and thanks to the Google Home app the user can control devices with an assistant such as Google Home speaker. Google Home allows to create a smart home by connecting devices from many manufacturers, including FAKRO WiFi using the wBox app. This application enables the user to control FAKRO WiFi products from anywhere in the world.

works with the Google Assistant

ZST
ZSZ

FAKRO offers extendable control rods for opening and closing roof windows and blinds which may be out of reach.

CONTROL RODS FOR OPERATING ROOF WINDOWS AND ACCESSORIES



CONTROL ROD ZST

The universal ZST telescopic control rod enables the user to open and close windows and blinds at high level. It can be used with the ARS, ARP, ARF, APS, APF and AJP blinds and AMS insect screen. The standard rod length is 119 cm but this can be extended to 134, 162, 190 or 218 cm. The ZSP extension can further extend this to 246, 274, 302 or 330 cm.



ROD ZSZ

The ZSZ is a round-shaped aluminium bar for opening and closing highly fitted AMZ awning blind which is supplied with an 80 cm rod. The standard length of the ZSZ is 150 cm.

CHOOSING ACCESSORIES

In order to select the right size and type of accessory you must first ensure you know the roof window type and its dimensions. These are to be found on a data plate which is mounted on the window sash.
FAKRO accessories are available via:

- FAKRO roof windows sales chain
- Dedicated online stores
- Best stores offering accessories for windows

Using original FAKRO accessories from this catalogue helps maintain the **10-year warranty** of your roof windows.

Please note: colour swatches in this catalogue may differ from the actual fabric.
Consult your FAKRO representative for details.



type and dimensions



FAKRO offers a wide range of external awning blinds and accessories adapted to different roof window designs. The external awning blind and internal accessory fitted on the same FAKRO roof window create a set of accessories providing a maximum comfort of living in the attic space. They protect the room against excessive heat and light, additionally enhancing interior design.

INTERNAL ACCESSORIES

	FTS, FTP, FTU	FTT U5*, FPT U5*	FTT U6, FTT U8 Thermo	PTP, PTP-V	FPP-V, FPU-V preSelect	PPP-V preSelect	FEP	FYP-V	PYP-V	FDY-V top sash	FDY-V botom sash	FGH-V top sash	FGH-V botom sash	BD_, BVP, BXP	FTP/D, FTU/D	FXP, FXU	FWR FWL	FWP
AJP Venetian blind	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+[3]	+
AJP Z-Wave Venetian blind	+	+	—	+	+	+	+	+	+	+	—	+	—	—	+	—	+[3]	+
ARS roller blind	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
ARP roller blind	+	+	+	+	+	+	+	+	+	+	+	—	+	+	+	+	+[3]	+
ARP Z-Wave, ARP WiFi roller blind	+	+	—	+	+	+	+	+	+	+	—	—	—	—	+	—	+[3]	+
ARF blackout blind	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+[3]	+
ARF SOLAR blackout blind	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+[3]	+
ARF Z-Wave, ARF WiFi blackout blind	+	+	—	+	+	+	+	+	+	+	—	+	—	—	+	—	+[3]	+
APS pleated blind	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+[3]	+
APF pleated blind	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+[3]	+
AMS insect screen	+	+	+	+	+	+	+	+	+	+[1]		—		—	+[1]	+[1]	+	+

EXTERNAL ACCESSORIES

AMZ, AMZ New Line awning blind	+	+	+	+	+	+	—	+	+	+	+[4]	+	+[4]	—	+	+[4]	—	—
AMZ Z-Wave, AMZ Solar, AMZ WiFi awning blind	+	+	+	+	+	+	—	+	+	+[4]	+[4]	+[4]	+[4]	—	+	+[4]	+[3,4,5]	+[3,4,5]
AME awning blind	—	—	—	—	—	—	+	—	—	—	—	—	—	—	—	—	—	—
AMB awning blind	—	—	—	—	—	—	—	—	—	—	—	—	—	+	—	—	—	—
ARZ-H roller shutter	+	—	—	—	+	—	—	+[4]	—	+[4]	—	+[4]	—	—	+[2]	—	—	—
ARZ Z-Wave, ARZ Solar, ARZ WiFi roller shutter	+	+	+	+	+	+	—	+[4]	+[4]	+[4]	+[4]	+[4]	—	—	+[2]	+[4]	—	—
ARK Z-Wave, ARK Solar roller shutter	—	—	—	—	—	—	+	—	—	—	—	—	—	—	—	—	—	—

*- internal accessories made to order, standard external accessories
[1] - for lining for combination up to 230 cm long
[2] - retaining 20 cm distance between windows
[3] - installation for side hung escape windows recommended to be performed by FAKRO service
[4] - made to special order, limited application
[5] - available in Solar version only







www.**fakro.com**

FAKRO reserves the right to change specifications at any time.

FA/44-/EN/12.04.2021/**0043**

Neslužbeni prevod na crnogorski jezik

Neslužbeni prevod na crnogorski jezik, Ymalko Montenegro. Mjerodavan je originalni dokument: fakro-catalogue-roof-windows-accessories-en.pdf, https://www.fakro.com/att/LOCAL/catalogs/products/FAKRO_roof_windows-accessories.pdf.

Dokument: „Katalog FAKRO pribora za krovne prozore (ME)“

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Datum prevoda: 01.10.2026.