

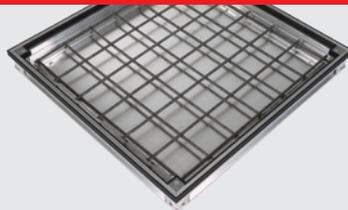
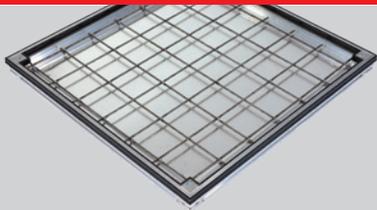
ACO Access

Uniclass L217241 + L217242
Cl/SfB (52.9)

- ACO UniFace™
- AL SHALLOW VINYL
- AL VINYL



Image supplied courtesy of Altro – integrated floor and wall solutions



ACO UniFace™ VINYL

Aluminium access covers for welded vinyl flooring



Introduction to the ACO Group

Throughout the world ACO branded drainage, access covers and surface water management systems are recognised for their innovative design, high quality manufacture, environmental excellence and industry leading performance.

Today the ACO Group has a research and production base that reaches across four continents. This unmatched resource pioneers the development of solutions that are tailored to individual applications, meeting the need for high performance, sustainable products that deliver optimum value throughout their operational life.

ACO Technologies plc

ACO operates as ACO Technologies plc in the United Kingdom. Founded over 30 years ago, the company has grown quickly on a reputation for design innovation and customer service.

ACO Access is a division of ACO Technologies plc, dedicated to providing market leading access covers with outstanding customer service and support.



ACO Access

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ACO UniFace™ AL SHALLOW VINYL Recessed Access Cover Range

High quality aluminium single recessed floor covers designed for 2-4mm thick flexible vinyl floor finishes, where a durable welded sealed joint is required between the floor finish and access cover. Integral weldable PVC trim supplied fitted to the cover and frame ensures vinyl floor installation is quick and simple. Its 50mm frame depth makes it ideal where installation depths are restricted. Suitable for pedestrian, trolley and light duty car/van traffic applications. Wide range of size options available for clear openings of between 200mm and 1200mm. All covers fitted with EPDM liquid, odour and dust seals as standard with four point stainless steel locking.

Ideal applications

- ▶ Hospitals
- ▶ Offices
- ▶ Residential
- ▶ Leisure facilities
- ▶ Swimming pools

Suitable flooring types

- ▶ Vinyl flooring
- ▶ Vinyl safety flooring

Options

- ▶ ACO UniFace™ AL SHALLOW VINYL manual lift single recessed access covers

FEATURES

Reinforcement provided for long term durability and performance

Integral 5mm wide weldable PVC cover and frame trim for sealed and durable floor joining

Two lifting/locking keys and installation manual provided with each access cover

50mm deep light weight aluminium frame and cover construction.

High performance triple EPDM seals for liquid, odour and dust-tight applications

Elegant 4mm aluminium edges blend discreetly with floor finishes

Easy removal with four corner locking/lifting positions and stainless steel locking bolts and dust caps as standard

FACTA Class	Gross Laden Vehicle Weight (GLVW)
	Up to 5 tonnes

ACO UniFace™ AL SHALLOW VINYL - Aluminium single recessed access covers



Product code	Clear opening (AxB) (mm)	Overall Frame Size (Cx D) (mm)	Overall Frame Height (mm)	Internal Tray Depth (mm)	Weight (kg)	GLVW (Tonnes)	Max. wheel load	
							Pneumatic Tyre (Tonnes)	Solid Tyre (Tonnes)
107260	200 x 200	310 x 310	50	47	3.2	5	1.5	N/A
107261	300 x 300	410 x 410	50	47	4.6	5	1.5	N/A
107262	400 x 400	510 x 510	50	47	5.9	5	1.5	N/A
107263	450 x 450	560 x 560	50	47	6.4	5	1.5	N/A
107264	500 x 500	610 x 610	50	47	7.5	5	1.5	N/A
107265	600 x 400	710 x 510	50	47	7.2	5	1.5	N/A
107266	600 x 450	710 x 560	50	47	7.6	5	1.5	N/A
107267	600 x 600	710 x 710	50	47	9.1	5	1.5	N/A
107268	635 x 635	745 x 745	50	47	11.6	5	1.5	N/A
107269	700 x 700	810 x 810	50	47	12.7	5	1.5	N/A
107270	750 x 600	860 x 710	50	47	10.1	5	1.5	N/A
107271	750 x 750	860 x 860	50	47	13.6	5	1.5	N/A
107272	800 x 600	910 x 710	50	47	10.5	5	1.5	N/A
107273	800 x 800	910 x 910	50	47	16.1	5	1.5	N/A
107274	900 x 600	1010 x 710	50	47	11.5	5	1.5	N/A
107275	900 x 900	1010 x 1010	50	47	19.0	5	1.5	N/A
107276	1000 x 600	1110 x 710	50	47	12.4	5	1.5	N/A
107277	1000 x 800	1110 x 910	50	47	19.1	5	1.5	N/A
107278	1000 x 1000	1110 x 1110	50	47	22.1	5	1.5	N/A
107279	1200 x 600	1310 x 710	50	47	13.8	5	1.5	N/A

* Declared load tested FACTA AA filled with grade C35/45 concrete to allow a 2-4mm depth for vinyl flooring material.



ACO UniFace™ AL SHALLOW VINYL - Cover spares

Product code	Description	Weight (kg)
415571	Lifting/locking key set (2 x Keys)	0.2
416959	Locking screw and dust cap set (4 x screws and dust caps)	0.1



Note: All dimensions and weights shown are subject to tolerances and are for guidance purposes only.

ACO UniFace™ AL VINYL Recessed Access Cover Range

ACO UniFace™ AL VINYL range of aluminium recessed covers designed for 2-4mm thick flexible vinyl floor finishes, where a durable welded sealed joint is required. Integral weldable PVC trim supplied fitted to the cover and frame ensures vinyl floor installation is quick and simple. With a frame depth of 73mm and available in either FACTA load class AA or AAA, its ideal for pedestrian, vehicle, trolley and light duty pallet truck traffic. Wide range of size options available for clear openings of between 200mm and 1200mm. All covers fitted with EPDM liquid, odour and dust seals as standard with four point stainless steel locking.

Ideal applications

- ▶ Hospitals
- ▶ Schools
- ▶ Offices
- ▶ Residential
- ▶ Leisure facilities
- ▶ Swimming pools
- ▶ Factories

Suitable flooring types

- ▶ Vinyl flooring
- ▶ Vinyl safety flooring

Options

- ▶ ACO UniFace™ AL VINYL manual lift single recessed access covers

FEATURES

Reinforcement provided for long term durability and performance

Integral 5mm wide weldable PVC cover and frame trim for sealed and durable floor joining

Two lifting/locking keys and installation manual provided with each access cover

73mm deep light weight aluminium frame and cover construction.

High performance triple EPDM seals for liquid, odour and dust-tight applications

Elegant 4mm aluminium edges blend discreetly with floor finishes

Easy removal with four corner locking/lifting positions and stainless steel locking bolts and dust caps as standard

FACTA Class	Gross Laden Vehicle Weight (GLVW)
AA 	Up to 5 tonnes
AAA 	Up to 10 tonnes

ACO UniFace™ AL VINYL - Aluminium single recessed access covers



GS Product code	Clear opening (AxB) (mm)	Overall Frame Size (CxD) (mm)	Overall Frame Height (mm)	Internal Tray Depth (mm)	Weight (kg)	GLVW (Tonnes)	Max. wheel load	
							Pneumatic Tyre (Tonnes)	Solid Tyre (Tonnes)
107220	635 x 635	743 x 743	73	69	12.6	5	1.5	N/A
107221	675 x 675	783 x 783	73	69	13.4	5	1.5	N/A
107222	700 x 700	808 x 808	73	69	13.6	5	1.5	N/A
107223	750 x 750	858 x 858	73	69	15.4	5	1.5	N/A
107224	800 x 800	908 x 908	73	69	17.2	5	1.5	N/A
107225	900 x 900	1008 x 1008	73	69	20.2	5	1.5	N/A
107226	1000 x 800	1108 x 908	73	69	20.3	5	1.5	N/A
107227	1000 x 1000	1108 x 1108	73	69	23.4	5	1.5	N/A

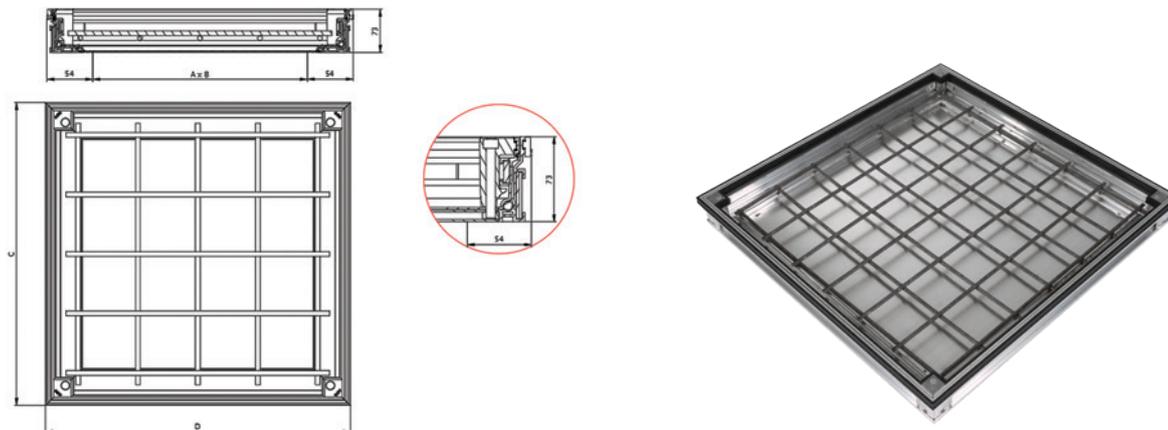
* Declared load tested FACTA AA filled with grade C35/45 concrete to allow a 15mm depth for flooring material.



ACO UniFace™ AL VINYL - Aluminium single recessed access covers

GS Product code	Clear opening (AxB) (mm)	Overall Frame Size (CxD) (mm)	Overall Frame Height (mm)	Internal Tray Depth (mm)	Weight (kg)	GLVW (Tonnes)	Max. wheel load	
							Pneumatic Tyre (Tonnes)	Solid Tyre (Tonnes)
107228	200 x 200	308 x 308	73	69	4.0	10	2.5	0.5
107229	300 x 300	408 x 408	73	69	6.1	10	2.5	0.5
107230	400 x 400	508 x 508	73	69	7.8	10	2.5	0.5
107231	450 x 450	558 x 558	73	69	8.4	10	2.5	0.5
107232	500 x 500	608 x 608	73	69	9.8	10	2.5	0.5
107233	600 x 400	708 x 508	73	69	9.2	10	2.5	0.5
107234	600 x 450	708 x 558	73	69	10.0	10	2.5	0.5
107235	600 x 600	708 x 708	73	69	12.2	10	2.5	0.5
107236	750 x 600	858 x 708	73	69	13.2	10	2.5	0.5
107237	800 x 600	908 x 708	73	69	13.5	10	2.5	0.5
107238	900 x 600	1008 x 708	73	69	15.5	10	2.5	0.5
107239	1000 x 600	1108 x 708	73	69	16.7	10	2.5	0.5
107240	1200 x 600	1308 x 708	73	69	19.1	10	2.5	0.5

* Declared load tested to FACTA class AAA filled with grade C35/45 concrete to allow a 2-4mm depth for vinyl flooring material.



ACO UNiFace AL VINYL - Cover spares

Product code	Description	Weight (kg)
406630	Lifting/locking key set (2 x Keys)	0.2
407191	Locking screw and dust cap set (4 x screws and dust caps)	0.1

Note: All dimensions and weights shown are subject to tolerances and are for guidance purposes only.



Installation Guide

ACO provides the following installation recommendations and guide as a suitable method of installing ACO UniFace™ Vinyl single floor access covers. However, customers should ensure the minimum dimensions and installation guidance provided are suitable for the intended application and place of installation. Further engineering advice may be required.

Installation should be made using acceptable levels of workmanship and according to the National Code of Practice (UK BS 8000-0:2014) series of standards.

ACO floor access covers are intended for horizontal installations so that the upper surface of the cover and frame are either flush or slightly below (approximately 2mm) the surrounding finished floor/pavement level. It is recommended that covers remain fitted to their frame at all times during installation. If not there is a

possibility the cover will not fit correctly after installation.

We do not recommend the use of our access covers in applications where the temperature will exceed 70°C.

Care must be taken if any surface of the cover or frame may come into contact with installation materials such as high alkaline mortars, concrete, grouts or additives which may react adversely with metallic materials. If in any doubt we recommend that all contact surfaces are primed prior to installation with a suitable barrier paint e.g. bitumastic paint for steel or zinc chromate paint for aluminium.

Mortar and concrete specifications

To enable covers to carry their intended service loads the following minimum material specifications must be used or exceeded.

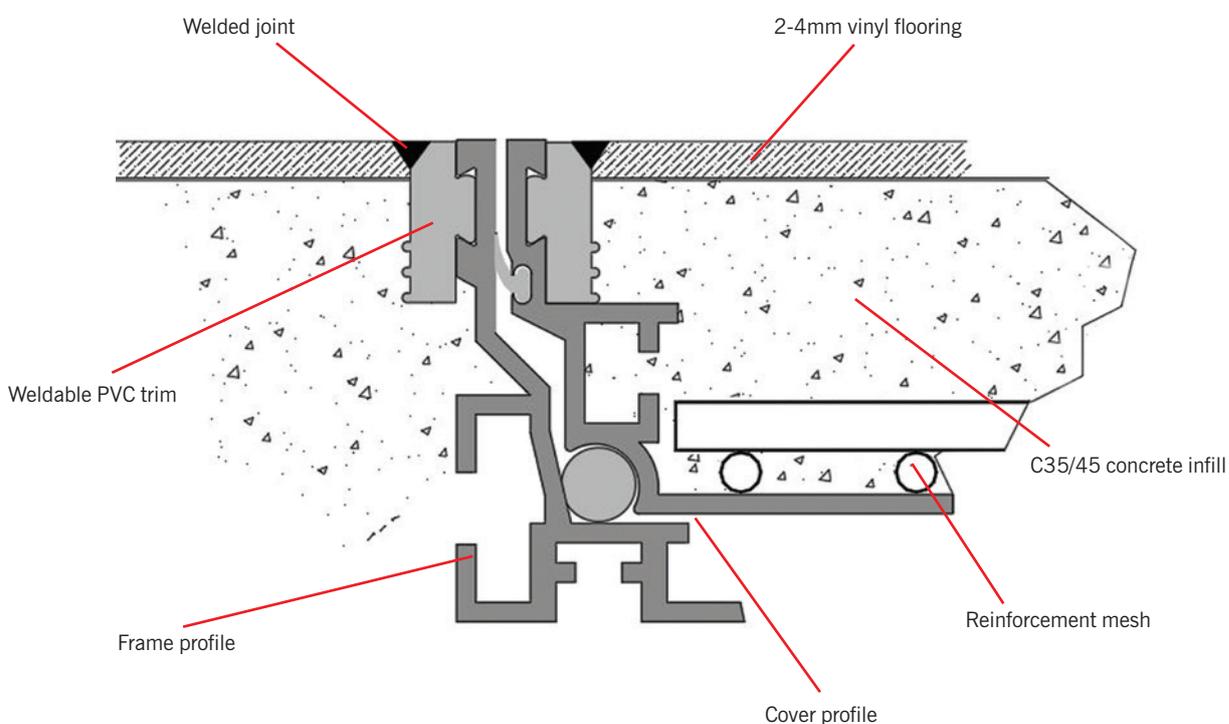
Frame bedding mortar—minimum class M6 to BS EN 998-2:2016.

Frame haunch and recessed cover structural infill concrete—minimum grade C35/45 concrete to BS EN 206:2013 (maximum aggregate size 10mm). Recommended slump S2 or S3.

If access covers are to be used in a wet area, waterproofing additives may be required. Fast-curing cementitious mortars or concrete may be used as long as the performance is at least equivalent to those stated above.

The concrete specified above must not be replaced by screed.

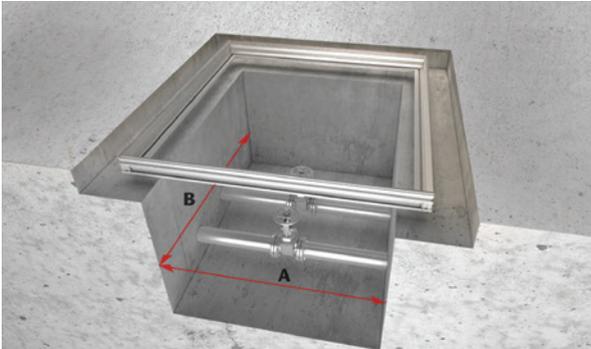
INSTALLATION DETAIL



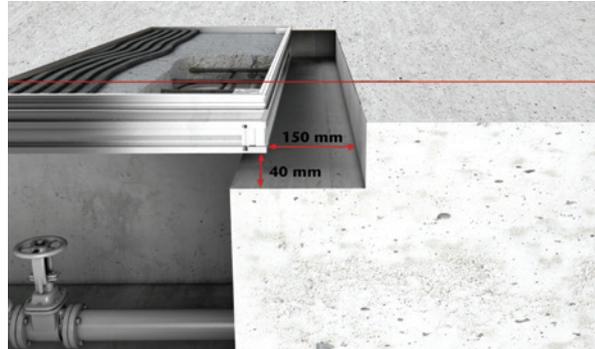
BIM downloads available

ACO access cover BIM files for Autodesk® Revit are available to download from www.aco.co.uk/accesscovers

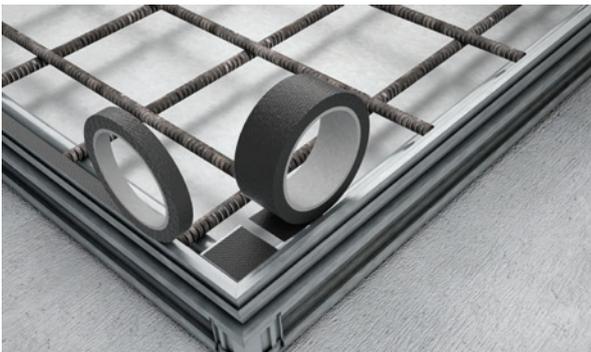
INSTALLATION STEPS



Step 1: Check that the shaft size is not larger than the clear opening of the access cover.



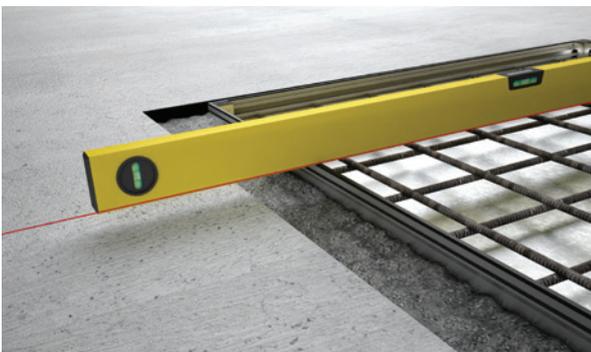
Step 2: A minimum rebate of 150mm wider than the over frame size and 40mm deeper than the over frame height of the access cover is to be provided for bedding and haunch material.



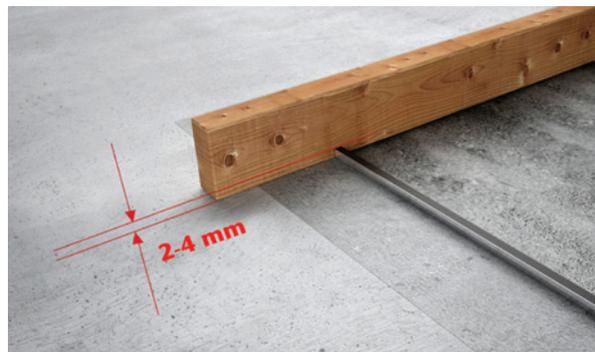
Step 3: Ensure upper surfaces of the cover and frame, weldable PVC trim, joints and locking areas are protected from accidental spillages or ingress of installation materials. This will help reduce the need for cleaning prior to vinyl floor welding or at the end of the installation.



Step 4: Lay a mortar bed of minimum 40mm thickness all around the shaft opening the full width of the frame.



Step 5: Bed and level to the access cover and frame centrally over the shaft opening ensuring the top edges of the access cover and frame are at the finished vinyl floor level. When tapping down to level use a piece of wood to protect the upper surfaces. Ensure the frame is fully supported by the mortar with no voids. Allow mortar to sufficiently harden.



Step 6: Ensure the reinforcement provided is placed at the bottom of the cover. Haunch the frame fully with concrete (min 150mm wide) and fully fill the cover to within 2-4mm of its upper surface to suit the thickness of vinyl flooring to be installed. Vibrate concrete where necessary to ensure no voids and the weldable PVC trim is fully supported.

INSTALLATION STEPS



Step 7: Allow the concrete to sufficiently harden and dry out. Remove tape protection. The cover can now be opened with the lifting/locking keys provided. Point any gaps in the bedding under the frame if required. Refit the cover. The vinyl floor finish can now be fitted and welded to the PVC trim attached to the frame and cover as per the manufacturer's instructions.



Step 8: Once the final floor has been fully installed, remove any excess adhesive or grout from around the cover and frame. Open the cover with the lifting/locking keys provided. Clean all surfaces and ensure the sealing areas of the cover and rubber seals are free from debris. Lubricate all seals with a suitable silicone grease.



Step 9: Refit the cover and check there is an even gap between the cover and frame. Insert all locking screws and hand tighten to securely lock the cover. Refit all locking screw dust caps. Once the materials have fully cured, the access cover is now ready for use and service loads. Retain all spare parts, the installation and maintenance booklet and lifting/locking keys for future use.



Installation guide available in video format. Please visit www.aco.co.uk/accesscovers



To download our general Installation, Operation and Maintenance Guide go to www.aco.co.uk/access-cover-guides.

For further advice regarding the installation, operation or maintenance of our ACO UniFace™ and UniTop™ floor access covers please contact the ACO Access Technical Team on +44 (0)1462 810431 or email actechnical@aco.co.uk.

For quick access to our installation, operation and maintenance guide, scan:



Specification clause

Recessed Access Covers

Floor access covers shall be ACO UniFace™ (insert cover type as appropriate e.g. AL SHALLOW VINYL) Aluminium recessed units as supplied by ACO Access.

All units to have liquid and odour seals, socket head securing bolts with dust caps and supplied with* sets of locking/lifting keys. Covers shall be FACTA class* and tested to the FACTA specification for fabricated access covers. Sizes shall be shown on drawing no.....*.

Installation shall be in accordance with the manufacturer's printed instructions using acceptable levels of workmanship and according to the National Code of Practice (UK BS 8000-0: 2014 series of standards).

Covers to be manufactured and supplied by ACO Access, a division of ACO Technologies plc, ACO Business Park, Hitchin Road, Shefford, Bedfordshire SG17 5TE Tel. 01462 816666.

† **Delete non-appropriate information**

* **Insert appropriate information**

NBS Specifications

ACO Access Covers for Building Applications should be specified in section P30/301 for single covers and P31/370 for multipart covers. Assistance in completing this clause can be found in the ACO Access entry in NBS Plus, or please contact the ACO Access Technical Team.

Note: Specifications in NBS format are available to download from www.thenbs.com or www.aco.co.uk/accesscovers

Recycled content

ACO Technologies aims to incorporate as much recycled material as is practicable in its manufactured products. Typically aluminium materials contain 20%-25% recycled content, steel and stainless steel materials contain 50%-60% recycled content.

The ACO UniFace™ AL VINYL floor access covers are intended for a long service life with low maintenance to reduce the need to recycle, but when eventually they are no longer needed, 100% of the aluminium, steel and stainless steel used can be recycled.

Test Reports

ACO floor access covers are tested to the FACTA specification for fabricated access covers.

As members of the Fabricated Access Cover Trade Association (FACTA) all ACO floor access covers use FACTA classifications to assist specifiers in the correct selection of our products.

Further information concerning specifications or to request copies of our test reports, please contact the ACO Access Technical Team on 01462 810431 or by emailing actechnical@aco.co.uk.



General information

ACO access products are subject to weight and dimensional tolerances. The weights and dimensions shown in this document are for guidance purposes only. The appearance of products shown in our company documentation are for illustration purposes only.

ACO Technologies plc

- ACO Access
- ACO Building Drainage
- ACO Water Management
Civils + Infrastructure
Building + Landscape
- ACO Sport
- ACO Wildlife



ISO 9001
FM 13502



ISO 14001
EMS 538781



OHSAS 18001
OHS 524145



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The ACO Group: A strong family you can depend on.

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