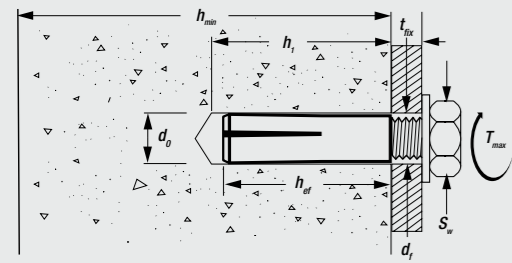
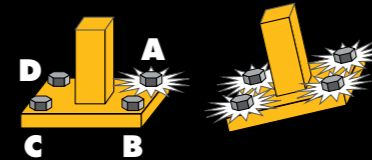


LOADING DATA



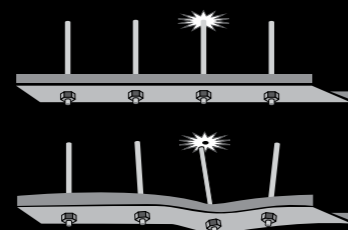
OPTION 7 APPLICATION

FOR SINGLE FASTENINGS IN UNCRACKED CONCRETE



PART 6 APPLICATION

FOR REDUNDANT SYSTEMS IN CRACKED CONCRETE



UNCRACKED CONCRETE

Type	Size	drill Ø d ₀ [mm]	d _f [mm]	h _{nom} [mm]	h ₁ [mm]	e [mm]	T _{max} [Nm]	h _{min} [mm]	edge c _{min} [mm]	spacing s _{min} [mm]	N _{rec} [kN]	V _{rec} [kN]
Technical data in uncracked concrete, ETA option 7 [ETA-13/0057], steel grade 8.8												
DM-LIP-PRO, DM-PRO, DM-SS-PRO	M6*	8	7	25	26	11	4	80	150	200	2.1	1.7
DM-LIP-PRO, DM-PRO, DM-SS-PRO	M8	10	9	30	32	13	8	120	100	70	3.9	3.3
DM-LIP-PRO, DM-PRO, DM-SS-PRO	M10	12	12	40	42	17	15	120	130	100	3.6	3.6
DM-LIP-PRO, DM-PRO, DM-SS-PRO	M12	16	14	50	53	22	35	130	170	120	4.1	4.1
DM-LIP-PRO, DM-PRO, DM-SS-PRO	M16	20	18	65	68	30	60	160	200	160	4.1	8.2
DM-LIP-PRO, DM-PRO, DM-SS-PRO	M20*	25	22	80	85	32	120	180	240	200	8.5	17

* No ETA for uncracked concrete, option 7

CRACKED CONCRETE

Type	Size	drill Ø d ₀ [mm]	d _f [mm]	h _{nom} [mm]	h ₁ [mm]	e [mm]	T _{max} [Nm]	h _{min} [mm]	edge c _{min} [mm]	spacing s _{min} [mm]	N _{rec} [kN]	V _{rec} [kN]
Technical data in cracked concrete, ETA part 6 [ETA-13/0056]												
DM-LIP-PRO, DM-PRO, DM-SS-PRO	M6	8	7	25	26	11	4	80	150	200	0.6	0.6
DM-LIP-PRO, DM-PRO, DM-SS-PRO	M8	10	9	30	32	13	8	120	130	100	0.6	0.6
DM-LIP-PRO, DM-PRO, DM-SS-PRO	M10	12	12	40	42	17	15	130	170	120	1.4	1.4
DM-LIP-PRO, DM-PRO, DM-SS-PRO	M12	16	14	50	53	22	35	160	200	160	1.7	1.7

ONLINE ANCHOR DESIGN SOFTWARE



- Fully featured and easy to use interface
- Easy 5 step anchor design with 3D modelling of fastening
- Professional specification of DEWALT fastenings to ETA guidelines
- Customised anchor design facility

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DISCLAIMER FOR RECOMMENDATIONS, INFORMATION AND USE OF DATA

The recommendations, information and data contained in this manual are put together with the greatest care and accuracy possible. It is based on principles, equations and safety factors set out in the technical documentation of DEWALT Anchors & Fasteners, Inc. that are believed to be correct and current as of June 1, 2014. The information and data is subject to change after such date as DEWALT Anchors & Fasteners, Inc. reserves the right to change the designs, materials and specifications of the products in this manual without notice.

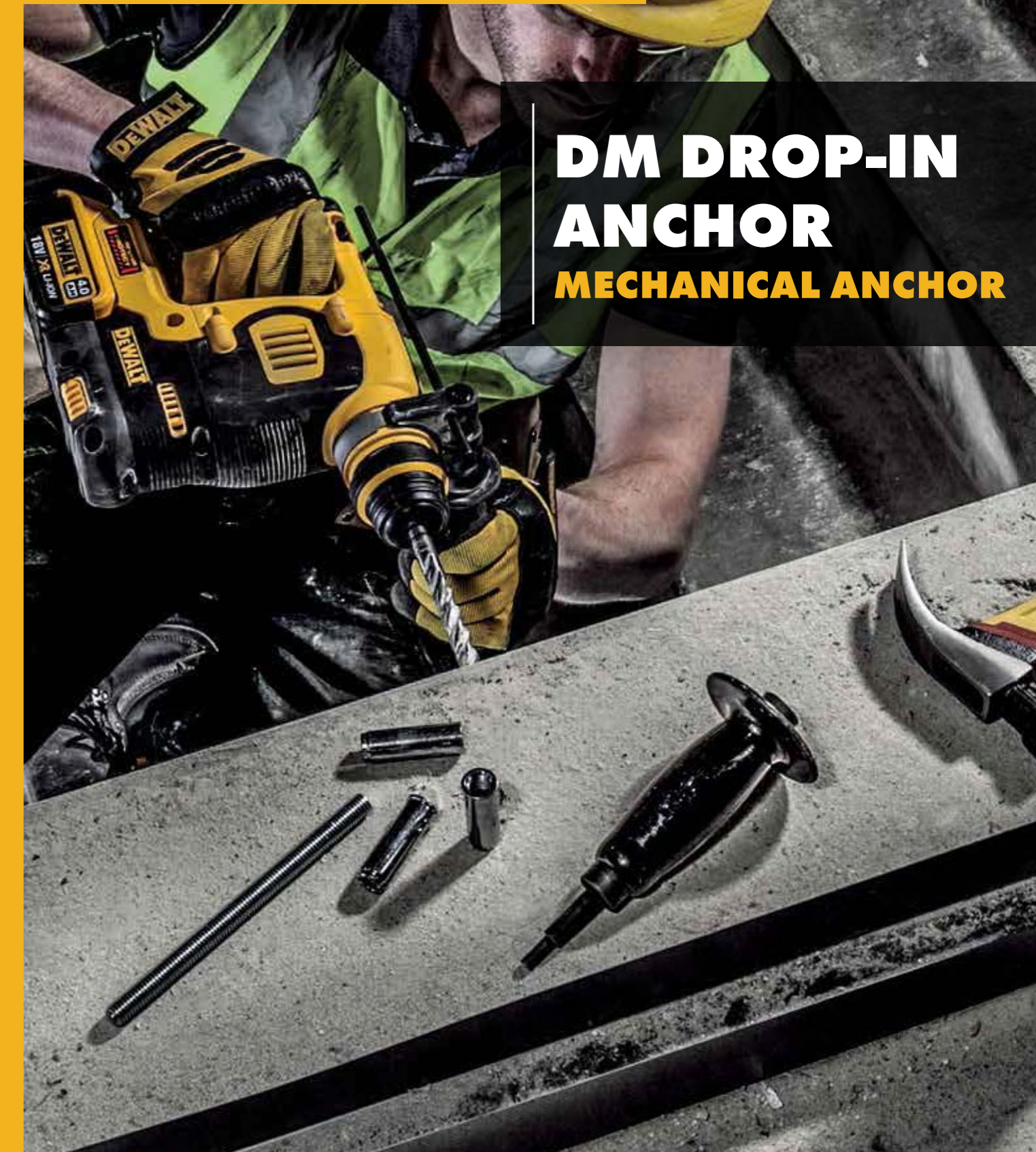
It is the responsibility of the design professional to ensure that a suitable product is selected, properly designed and used in the intended application. This includes that the selected product and its use is compliant with the applicable building codes and other legal requirements and will satisfy durability

and performance criteria and margins of safety which they determine are applicable. The products must be used, handled, applied and installed strictly in accordance with all current instructions for use published by DEWALT Anchors & Fasteners, Inc.

The performance data given in this manual are the result of the evaluation of tests conducted under laboratory conditions. It is the responsibility of the designer and installer in charge to consider the conditions on site and to ensure the performance data given in the manual is applicable to the actual conditions. In particular the base material and environmental conditions have to be checked prior to installation. In case of doubt, contact the technical support of DEWALT Anchors & Fasteners, Inc.

DEWALT

DM DROP-IN ANCHOR MECHANICAL ANCHOR



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GUARANTEED TOUGH.

EASY TO SET, INTERNALLY THREADED EXPANSION ANCHORS.

DM-PRO range is a cost-effective drop-in anchor for mechanical, electrical and plumbing installations. Installation is quick and straightforward with a hand driven setting tool. They can be used in a wide range of concrete strengths and in all installation directions. The lipped version is designed with a flange preventing the anchor penetrating too deep into the concrete.

- Easy to install anchor with ETA Option 7 approval (M8 to M16) for uncracked concrete and part 6 approval (M6 to M12) for cracked concrete (zinc plated & stainless steel only)

- F120 fire resistance



- Suitable for threaded steel elements of various strength and grade
- Internally threaded anchor for easy bolt removability and service work
- Non-lip for invisible coverage with mortar after use

APPLICATIONS

- Electrical fittings and conduit
- Ventilation
- Air conditioning systems
- Suspended ceilings
- Seating
- Barriers and rails

APPROVALS

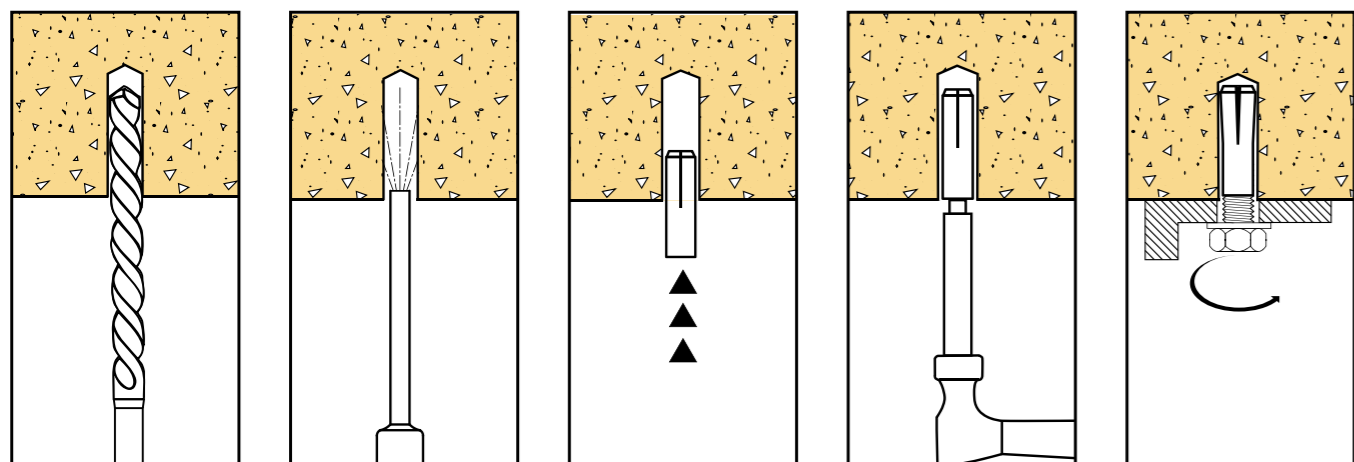


For specific ETA approvals please refer to the tables opposite.

MATERIALS



INSTALLATION DATA



- 1) Using the proper drill bit size, drill a hole into the base material to the required depth.
- 2) Remove dust and debris from the hole using a hand pump or compressed air.
- 3) Insert drop in anchor in to drilled hole.
- 4) Expand anchor by hammering on setting tool until the collar of the setting tool touches the collar of the drop in anchor.
- 5) Insert threaded rod and prestress with defined torque.



DM DROP-IN ANCHORS RANGE

DM-LIP-PRO - ZINC PLATED



Cat No.	Description	ETA		Thread Size [mm]	Length [mm]	Drill Dia [mm]	Box Quantity	Carton Quantity
		1	2					
DFM2110000	DM-LIP-PRO M6 Lipped Drop In Anchor - Zinc Plated	•		M6 x 25		8	100	1600
DFM211010S	DM-LIP-PRO M8 Lipped Drop In Anchor - Zinc Plated	•	•	M8 x 30		10	50	800
DFM2110100	DM-LIP-PRO M8 Lipped Drop In Anchor - Zinc Plated	•	•	M8 x 30		10	100	800
DFM211015S	DM-LIP-PRO M10 Lipped Drop In Anchor - Zinc Plated	•	•	M10 x 40		12	50	800
DFM2110150	DM-LIP-PRO M10 Lipped Drop In Anchor - Zinc Plated	•	•	M10 x 40		12	100	800
DFM211020S	DM-LIP-PRO M12 Lipped Drop In Anchor - Zinc Plated	•	•	M12 x 50		16	50	400
DFM2110200	DM-LIP-PRO M12 Lipped Drop In Anchor - Zinc Plated	•	•	M12 x 50		16	100	400
DFM2110300	DM-LIP-PRO M16 Lipped Drop In Anchor - Zinc Plated		•	M16 x 65		20	25	100
DFM2110250	DM-LIP-PRO M20 Lipped Drop In Anchor - Zinc Plated			M20 x 80		25	25	100

DM-PRO - ZINC PLATED



Cat No.	Description	ETA		Thread Size [mm]	Length [mm]	Drill Dia [mm]	Box Quantity	Carton Quantity
		1	2					
DFM2110500	DM-PRO M6 Drop In Anchor - Zinc Plated	•		M6 x 25		8	100	1600
DFM211055S	DM-PRO M8 Drop In Anchor - Zinc Plated	•	•	M8 x 30		10	50	800
DFM2110550	DM-PRO M8 Drop In Anchor - Zinc Plated	•	•	M8 x 30		10	100	800
DFM211060S	DM-PRO M10 Drop In Anchor - Zinc Plated	•	•	M10 x 40		12	50	800
DFM2110600	DM-PRO M10 Drop In Anchor - Zinc Plated	•	•	M10 x 40		12	100	800
DFM211065S	DM-PRO M12 Drop In Anchor - Zinc Plated	•	•	M12 x 50		16	50	400
DFM2110650	DM-PRO M12 Drop In Anchor - Zinc Plated	•	•	M12 x 50		16	100	400
DFM2110700	DM-PRO M16 Drop In Anchor - Zinc Plated		•	M16 x 65		20	25	100
DFM2110750	DM-PRO M20 Drop In Anchor - Zinc Plated			M20 x 80		25	25	100

DM-SS-PRO - A4 STAINLESS STEEL



Cat No.	Description	ETA		Thread Size [mm]	Length [mm]	Drill Dia [mm]	Box Quantity	Carton Quantity
		1	2					
DFM2120000	DM-SS-PRO M6 Drop In Anchor - A4 Stainless Steel	•		M6 x 25		8	100	1600
DFM2120050	DM-SS-PRO M8 Drop In Anchor - A4 Stainless Steel	•	•	M8 x 30		10	100	800
DFM2120100	DM-SS-PRO M10 Drop In Anchor - A4 Stainless Steel	•	•	M10 x 40		12	100	800
DFM2120150	DM-SS-PRO M12 Drop In Anchor - A4 Stainless Steel	•	•	M12 x 50		16	100	400
DFM2120200	DM-SS-PRO M16 Drop In Anchor - A4 Stainless Steel		•	M16 x 65		20	25	100
DFM2120250	DM-SS-PRO M20 Drop In Anchor - A4 Stainless Steel			M20 x 80		25	25	100

SETTING TOOLS



Cat No.	Description	Thread Size [mm]	Box Quantity	Carton Quantity
DFM2100010	M6 Drop In Setting Tool	M6	1	-
DFM2100060	M8 Drop In Setting Tool	M8	1	-
DFM2100110	M10 Drop In Setting Tool	M10	1	-
DFM2100160	M12 Drop In Setting Tool	M12	1	-
DFM2100210	M16 Drop In Setting Tool	M16	1	-
DFM2100260	M20 Drop In Setting Tool	M20	1	-

SETTING TOOLS WITH SAFETY GRIP



Cat No.	Description	Thread Size [mm]	Box Quantity	Carton Quantity
DFM2100000	M6 Drop In Setting Tool with Grip	M6	1	-
DFM2100050	M8 Drop In Setting Tool with Grip	M8	1	-
DFM2100100	M10 Drop In Setting Tool with Grip	M10	1	-
DFM2100150	M12 Drop In Setting Tool with Grip	M12	1	-
DFM2100200	M16 Drop In Setting Tool with Grip	M16	1	-
DFM2100250	M20 Drop In Setting Tool with Grip	M20	1	-